Unofficial

Full Schedule

Entomological Society of America
Annual Meeting 2025
9–12 November, Portland, OR

www.entsoc.org

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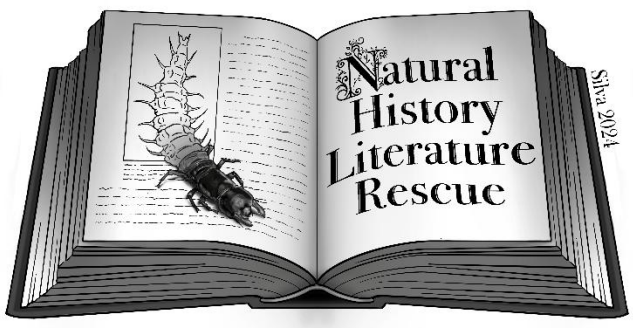

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Preface

Different technologies come with different costs and benefits. Henry Petroski, a fantastic writer of popular engineering, emphasizes this throughout his works. For example, many varieties of doorknobs exist, each design works better or worse, depending on differing situations. www.americanscientist.org/article/opening-doors

One of the more important aspects of the Annual Meeting of the Entomological Society of America is **DISCOVERY**. This year, did you know, there is a talk about the extinct (?) Rocky Mountain Locust! I would have never thought to **SEARCH** for that.

The online program is very convenient. It weighs nothing, fits in my pocket, is **SEARCHABLE**, and contains multiple levels of information (even poster abstracts!!). I can select talks and it automatically builds a schedule! That's Star Trek amazing! It can be updated continually and distributed practically for free (there is a real cost in IT, server space, electricity, etc. but it's so difficult to quantify and so easily overlooked we mistakenly think it's free).

However, if I wanted to read every title of every presentation, if I wanted to **DISCOVER**, I would have to click my mouse (or tap my finger) 900 times (there are 450 items in the schedule this year, click to open, click to close). For each pop-up page I would have to grasp the scroll bar (or swish my fingers) another 450 times. And I would have to scroll down the full schedule several hundred more times. If I turn away from the online schedule, it's difficult to find where I left off (links don't change color after they have been clicked, for example). This isn't convenient.

A hybrid approach, a combination of a single flat file (what you have here) AND the online schedule works very well. I can quickly skim titles (**DISCOVER**), ALL of them, and then build a schedule online.

Despite numerous requests, ESA does not provide a flat file of the full schedule. I hired a programmer (the process is called "data scraping" or "web scraping", harvesting publicly available data and reformatting it, no "hacking" or skullduggery required) and the following schedule was extracted during mid-September 2025. In the process of converting the information some formatting errors wormed their way in. For example, all italicized terms are no longer italicized and the space before and after each was deleted (I tried to fix what I could). Times and dates should all be correct (but of course, double check the online version for something important). I hope you find this useful.

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This cost me money!
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Entomological Society of America
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Thursday, November 6, 2025

Title: CAMTech IAB Meeting Reception & Poster Session (Invitation Only)
Time: **7:00 PM - 9:00** PM Pacific
Location: Pearl Room, Courtyard Marriott
Organizers: Kathryn Grace Crummer- University of Florida; Bryony Bonning (she/her/hers)- University of Florida
Categories: Meetings & Events
Tracks: Meetings & Events

Friday, November 7, 2025

Title: CAMTech IAB Meeting Day 1 (Invitation Only)
Time: **8:00 AM - 4:00** PM Pacific
Location: Pearl Room, Courtyard Marriott
Organizers: Kathryn Grace Crummer- University of Florida; Bryony Bonning (she/her/hers)- University of Florida
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Executive Committee Meeting
Time: **3:00 PM - 6:00** PM Pacific
Location: Hyatt Regency Portland, Presidential Suite, Hyatt
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Chris Stelzig, CAE- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Governing Board Reception
Time: **5:30 PM - 6:30** PM Pacific
Location: Hyatt Regency Portland, Presidential Suite, Hyatt
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Chris Stelzig, CAE- Entomological Society of America
Categories: Meetings & Events
Tracks: Meetings & Events

Saturday, November 8, 2025

Title: Governing Board and Certification Corporation Meeting
Time: **7:00 AM - 3:30** PM Pacific
Location: Hyatt Regency Portland, Columbia 3, Hyatt
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Chris Stelzig, CAE- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Entomological Collections Network Annual Meeting (Day 1)
Time: **7:00 AM - 6:00** PM Pacific
Location: Hyatt Regency Portland, Deschutes Ballroom, Hyatt
Organizers: M. Andrew Johnston- Purdue University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: CAMTech IAB Meeting Day 2 (Invitation Only)
Time: **7:30 AM - 12:00** PM Pacific
Location: Pearl Room, Courtyard Marriott
Organizers: Kathryn Grace Crummer- University of Florida; Bryony Bonning (she/her/hers)- University of Florida
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Undergraduate Programs in Entomology Workshop
Time: **9:00 AM - 12:00** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom C, Hyatt
Organizers: James P. Strange, PhD- The Ohio State University; Brian McCornack- Kansas State University; Hannah Burrack- Michigan State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: S1070: The Working Group on Improving Microbial Control of Arthropod Pests
Time: **9:00 AM - 4:30** PM Pacific
Location: Hyatt Regency Portland, Willamette 1, Hyatt
Organizers: Shaohui Wu- The Ohio State University; Eric Clifton (he/him/his)- BioWorks Inc.; Pasco B. Avery- University of Florida; Lorenzo Rossi- Texas A&M University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: NC246 Multistate Research Workshop on Bacillus thuringiensis Resistance in European Corn Borer
Time: **1:00 PM - 4:00** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom C, Hyatt
Organizers: Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station; Jocelyn Smith- University of Guelph; Brad Coates- USDA-ARS
Categories: Meetings & Events

Tracks: Meetings & Events

Title: Registration and Information Center
Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: General; Registration and Information Center
Abstract: Registration will be held in Pre-Function Lobby A of the Oregon Convention Center, during the following times: Saturday, November 8 2-6 p.m Sunday, November 9 7 a.m. - 8 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m. Phone number to the Registration and Information Center: + 1 (301) 731-4535 x3512
Tracks: General; Registration and Information Center

Title: Presentation Preview Room (PPR)
Time: **3:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, A108-109, OCC
Organizers:
Categories: General; Presentation Preview Room (PPR)
Abstract: The Presentation Preview Room (PPR) is located in A108-109 of the Oregon Convention Center. Presenters are expected to upload their presentation the day before their scheduled talk. Operating hours are as follows: Saturday, November 8 3-6 p.m. Sunday, November 9 7 a.m. – 5 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m.
Tracks: General; Presentation Preview Room (PPR)

Title: Speaker Practice Room
Time: **3:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, A107, OCC
Organizers:
Categories: General; Speaker Practice Room
Abstract: Looking to practice your presentation in a quiet session room? Visit the Speaker Practice Room Saturday through Tuesday to rehearse at a podium. Sign-up online for your preferred practice time. Sign-ups are available on a first-come, first-served basis.
Tracks: General; Speaker Practice Room

Title: Moderator Training
Time: **4:00 PM - 4:30** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America
Categories: General; Moderator Training
Abstract: All moderators and session organizers are required to attend one of the moderator training sessions. Here you will receive details on equipment operation, light controls, and other responsibilities. Training sessions will be held during the following times: Saturday, November 8 4-**4:30** p.m. Sunday, November 9 7-**7:30** a.m. and **12:30**-1 p.m. Monday, November 10 7-**7:30** a.m. Tuesday, November 11 7-**7:30** a.m. and **12:30**-1 p.m.
Tracks: General; Moderator Training

Title: Council for Entomology Department Administrators (CEDA) Annual Meeting
Time: **4:30 PM - 6:30** PM Pacific
Location: Hyatt Regency Portland, Columbia 3, Hyatt
Organizers: Rosina Romano, CMP, DES- Entomological Society of America
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Student and ECP Volunteer Training
Time: **5:00 PM - 5:30** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Danielle Tempesta- Entomological Society of America

Categories: General; Meetings & Events; Early Career; Student
Tracks: General; Meetings & Events; Early Career; Student

Title: Entomological Collections Network Reception
Time: **6:00 PM - 9:30** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom B, Hyatt
Organizers: M. Andrew Johnston- Purdue University
Categories: Meetings & Events
Tracks: Meetings & Events

Sunday, November 9, 2025

Title: Moderator Training
Time: **7:00 AM - 7:30 AM** Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America
Categories: General; Moderator Training
Abstract: All moderators and session organizers are required to attend one of the moderator training sessions. Here you will receive details on equipment operation, light controls, and other responsibilities. Training sessions will be held during the following times: Saturday, November 8 4-**4:30** p.m. Sunday, November 9 7-**7:30** a.m. and **12:30**-1 p.m. Monday, November 10 7-**7:30** a.m. Tuesday, November 11 7-**7:30** a.m. and **12:30**-1 p.m.
Tracks: General; Moderator Training

Title: Entomological Collections Network Annual Meeting (Day 2)
Time: **7:00 AM - 2:00** PM Pacific
Location: Hyatt Regency Portland, Deschutes Ballroom, Hyatt
Organizers: M. Andrew Johnston- Purdue University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Presentation Preview Room (PPR)
Time: **7:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, A108-109, OCC
Organizers:
Categories: General; Presentation Preview Room (PPR)
Abstract: The Presentation Preview Room (PPR) is located in A108-109 of the Oregon Convention Center. Presenters are expected to upload their presentation the day before their scheduled talk. Operating hours are as follows: Saturday, November 8 3-6 p.m. Sunday, November 9 7 a.m. – 5 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m.
Tracks: General; Presentation Preview Room (PPR)

Title: Registration and Information Center
Time: **7:00 AM - 8:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: General; Registration and Information Center
Abstract: Registration will be held in Pre-Function Lobby A of the Oregon Convention Center, during the following times: Saturday, November 8 2-6 p.m Sunday, November 9 7 a.m. - 8 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m. Phone number to the Registration and Information Center: + 1 (301) 731-4535 x3512
Tracks: General; Registration and Information Center

Title: Self Service Coat and Bag Check
Time: **7:00 AM - 10:00** PM Pacific
Location: Oregon Convention Center, A102, OCC
Organizers:

Categories: General; Self Service Coat and Bag Check
Abstract: Self Service coat and bag check can be found in A102 during the following times. This is an unattended, self-service coat and bag check area. Use at your own risk. ESA is not responsible for any lost, stolen, or damaged items.Sunday, November 9 7 a.m. - 10 p.m. Monday, November 10 7 a.m. - 8 p.m. Tuesday, November 11 7 a.m. - 8 p.m. Wednesday, November 12 7 a.m. - 6 p.m. The OCC has locker rentals available for short-term storage of personal items through their partners at LocketGo. These salmon-colored lockers are reservable with your mobile device and a credit card. There are three convenient locations throughout the building: MLK Lobby (near main entrance), Holladay Lobby (north end of the building), and Ginkoberry Concourse (south end of the building).
Tracks: General; Self Service Coat and Bag Check

Title: Lactation Room

Time: **7:00 AM - 10:00** PM Pacific
Location: Oregon Convention Center, C127, OCC
Organizers:
Categories: General; Lactation Room
Abstract: ESA is happy to provide a private and secure space for all nursing parents. ESA supports all nursing parents to nurse as needed in all general meeting spaces and nursing in public is protected by Oregon law. The ESA dedicated Lactation Room is located in C127 of the Oregon Convention Center. The room is equipped with a mini fridge for storage. OCC also provides two Mamava nursing suites. These private and secure suites are located near the A and E meeting rooms on Level 1.
Tracks: General; Lactation Room

Title: Relaxation Retreat

Time: **7:00 AM - 10:00** PM Pacific
Location: Oregon Convention Center, C128, OCC
Organizers:
Categories: General; Relaxation Retreat
Abstract: Take a break from the conference environment, improve your focus, reduce stress and anxiety, and relax. This room is a designated space designed to provide a calming and soothing environment for attendees.
Tracks: General; Relaxation Retreat

Title: Microbial Hitchhikers: Microbe Mediated Insect-plant Interactions in Agricultural Systems

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers: Christelle Guedot- University of Wisconsin; Emilie Parkanzky- University of Wisconsin; Fatma Besbes- University of Wisconsin; Elizabeth Hrycyna- University of Wisconsin; Sophie Perry (she/her/hers)- University of Wisconsin
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: This session will explore how microbes shape insect-plant interactions and influence agroecosystems. Talks will highlight research on microbial-based pest control, disease prevention, and the role of insect vectors in crop health. Learn how using microbial dynamics can refine management strategies and agricultural sustainability.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:15 AM Pacific: Improving microbial control strategies as tools for the biological control of insect pests. Presenting Author: Jermaine D. Perier (he/him/his)- Mississippi State University. Mike Toews- University of Georgia. David Shapiro-Ilan (he/him/his)-USDA-ARS - Jermaine D. Perier (he/him/his); Mike Toews; David Shapiro-Ilan (he/him/his)
8:15 AM - 8:30 AM Pacific: Plant volatile emissions under flooding and insect herbivory and their stress combination: The microbial influence. Presenting Author: Esther Ngumbi- University of Illinois - Esther Ngumbi
8:30 AM - 8:45 AM Pacific: Microbial hitchhikers associated with spotted wing drosophila. Presenting Author: Kelly Hamby- University of Maryland. Kelly Hamby- University of Maryland. Margaret Lewis- The Ohio State University - Kelly Hamby; Kelly Hamby; Margaret Lewis
8:45 AM - 9:00 AM Pacific: Influence of microbe-produced odors on the behavior of spotted-wing drosophila (Drosophila suzukii) and their use in pest management. Presenting Author: Gregory Loeb- Cornell University.

Doug Cha-U.S. Pacific Basin Agricultural Research Center. Robert Raguso- Cornell University - Gregory Loeb; Doug Cha; Robert Raguso
9:00 AM - 9:15 AM Pacific: Viral and viroid threats in hemp: Diversity, transmission, and impacts on host and vector biology. Presenting Author: Jinlong Han- Colorado State University. Raiyaa Huntress- Nachappa Laboratory, Colorado State University. Maria Paula- Colorado State University. Punya Nachappa- Colorado State University - Jinlong Han; Raiyaa Huntress; Maria Paula; Punya Nachappa
9:15 AM - 9:30 AM Pacific: Temporal dynamics of fungal community structure between grape berries and social wasps in vineyard ecosystems. Presenting Author: Fatma Besbes- University of Wisconsin. Christelle Guedot- University of Wisconsin. Leslie Holland- USDA-ARS - Fatma Besbes; Christelle Guedot; Leslie Holland
9:30 AM - 9:45 AM Pacific: Role of arbuscular mycorrhizal fungi in biogenic volatile-mediated communication during herbivore attack on tomato plants. Presenting Author: Aidee Guzman- University of California. N Rodriguez-Department of Ecology and Evolutionary Biology, University of California, Irvine, Department of Environmental Studies, Dartmouth College. C Vzquez-Gonzlez- Misin Biolgica de Galicia (CSIC). E Bass- Department of Ecology and Evolutionary Biology, Cornell University. B Chaudhary- Department of Environmental Studies, Dartmouth College. A Kessler- Department of Ecology and Evolutionary Biology, Cornell University. K Treseder- Department of Ecology and Evolutionary Biology, University of California, Irvine. K Mooney- Department of Ecology and Evolutionary Biology, University of California, Irvine – Aidee Guzman; N Rodriguez; C Vzquez-Gonzlez; E Bass; B Chaudhary; A Kessler; K Treseder; K Mooney

Title: Leading with Passion and Innovation: Perspectives from Those Shaping the History of Transgenic Crops

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D135, OCC
Organizers: Katelyn Kesheimer (she/her/hers)- Bayer Crop Science; Kimberly Morrell- Bayer Crop Science; Jennifer Fridley- Bayer Crop Science
Categories: Section Symposium; Plant-Insect Ecosystems; Plant-Insect Ecosystems
Abstract: We will take you through a 30 year historical journey with transgenic crops, highlighting key entomologists who have shaped this journey through their passions and innovative scientific contributions, but who have also created strong legacies through the impressive students they mentored, the programs they developed, and the farmers they supported.
Tracks: Section Symposium; Plant-Insect Ecosystems; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Katelyn Kesheimer (she/her/hers)- Bayer Crop Science - Katelyn Kesheimer (she/her/hers)
8:05 AM - 8:25 AM Pacific: The evolution of genetic advancements for insect control in crop plants. Presenting Author: Ty Vaughn- Monsanto Company - Ty Vaughn
8:25 AM - 8:40 AM Pacific: Legacy and leverage: Bt cotton and the future of IPM in the south. Presenting Author: Scott Graham- Auburn University - Scott Graham
8:40 AM - 8:55 AM Pacific: Mentoring tips for hot topics in extension. Presenting Author: Erin W. Hodgson (she/her/hers)- Iowa State University - Erin W. Hodgson (she/her/hers)
8:55 AM - 9:10 AM Pacific: Perspectives on the ecology and evolution of Bacullus thuringiensis resistance in European corn borer. Presenting Author: Brad Coates- USDA-ARS. Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station. Jocelyn Smith- University of Guelph. Erik Dopman (he/him/his)- Tufts University - Brad Coates; Kelsey Elizabeth Fisher; Jocelyn Smith; Erik Dopman (he/him/his)
9:10 AM - 9:25 AM Pacific: Frequency of molecular markers linked to Cry1F resistance in European corn borer from the USA. Presenting Author: Yamikani Ngona- The Ohio State University. Yasmine Farhan- University of Guelph. Jocelyn Smith- University of Guelph. Juan Luis Jurat-Fuentes- University of Tennessee. Kurt Lamour- University of Tennessee. Tom Ruttink- Research Institute for Agriculture, Fisheries and Food. Jelmer Poelstra- Ohio State University Molecular and Cellular Imaging Center. Andy Michel- Ohio State University - Yamikani Ngona; Yasmine Farhan; Jocelyn Smith; Juan Luis Jurat-Fuentes; Kurt Lamour; Tom Ruttink; Jelmer Poelstra; Andy Michel
9:25 AM - 9:40 AM Pacific: Resistance to Bt crops: Lessons from the first 30 years. Presenting Author: Bruce Tabashnik (he/him/his)- University of Arizona - Bruce Tabashnik (he/him/his)
9:40 AM - 9:55 AM Pacific: The regulation of insect-protected transgenic crops: How did we get here and is "here" where we want to be. Presenting Author: Graham Head- Bayer Crop Science - Graham Head
9:55 AM - 10:00 AM Pacific: Closing remarks. Presenting Author: Kimberly Morrell- Bayer Crop Science - Kimberly Morrell

Title: The Science of Scents: Recent Advances in Chemical Ecology in Sustainable Integrated Pest Management

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Manish Gautam- University of Arkansas; Insha Shafi- University of Arkansas; Jessica Ayala- University of Arkansas
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: Explore the science of the scents. Discover how cutting-edge chemical ecology have advanced the field of integrated pest management! This session will discuss semiochemicals, plant volatiles, and plant-insect interactions. Join us to engage with experts and early career professionals on innovative research, and future collaborations.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:03 AM Pacific: Introductory remarks. Presenting Author: Insha Shafi- University of Arkansas - Insha Shafi
8:03 AM - 8:22 AM Pacific: Turning up the plant alarm: How plant defenses supports biological control. Presenting Author: Monica Kersch-Becker- Pennsylvania State University - Monica Kersch-Becker
8:22 AM - 8:41 AM Pacific: Sensing the enemy: Fall armyworm-induced sorghum defenses and their modulation by FAW secretions. Presenting Author: Sanket Shinde- University of Nebraska-Lincoln. Edith Ikuze- University of Nebraska-Lincoln. Esha Kaler (she/her/hers)- University of Nebraska-Lincoln. Kashish Verma (she/her/hers)- University of Nebraska-Lincoln. Pritha Kundu- University of Nebraska-Lincoln. Joe Louis- University of Nebraska-Lincoln - Sanket Shinde; Edith Ikuze; Esha Kaler (she/her/hers); Kashish Verma (she/her/hers); Pritha Kundu; Joe Louis
8:41 AM - 9:00 AM Pacific: Does variation in the phytochemical landscape structure affect interactions between insects and their hosts in southeastern forest ecosystems?. Presenting Author: Todd Johnson- Louisiana State University. Christopher Kuetsinya- Bowling Green University. Daniel Debutts- Louisiana State University. Lewis Gaston- Louisiana State University. Vanshika Jindal- Louisiana State University. Winter Sheline- Louisiana State University. Manoj Pandey- The Ohio State University. Jessica McKenny- Louisiana State University. James meeker- Forest Health Protection, United States Forest Service. Timothy Scholwalter- Louisiana State University - Todd Johnson; Christopher Kuetsinya; Daniel Debutts; Lewis Gaston; Vanshika Jindal; Winter Sheline; Manoj Pandey; Jessica McKenny; James meeker; Timothy Scholwalter
9:00 AM - 9:19 AM Pacific: Wax on, bugs off: How sorghum cuticular wax defends against sugarcane aphids. Presenting Author: Kumar Shrestha- University of Nebraska-Lincoln. Kashish Verma (she/her/hers)- University of Nebraska-Lincoln. Esha Kaler (she/her/hers)- University of Nebraska-Lincoln. Yinping Jiao- Institute of Genomics for Crop Abiotic Stress Tolerance (IGCAST), Texas Tech University. Joe Louis- University of Nebraska-Lincoln - Kumar Shrestha; Kashish Verma (she/her/hers); Esha Kaler (she/her/hers); Yinping Jiao; Joe Louis
9:19 AM - 9:38 AM Pacific: Tri-trophic effects of a insect predator's pheromone. Presenting Author: Jennifer Thaler- Cornell University. Laura K. Martinez (she/her/hers)- Cornell University. Moshe Zaguri, PhD- Agricultural Research Organization. Gen-Chang Hsu- Department of Entomology, Cornell University. Sabine Paz-Le Draoulec- Department of Entomology, Cornell University. Alayna Trejo- Department of Entomology, Cornell University - Jennifer Thaler; Laura K. Martinez (she/her/hers); Moshe Zaguri, PhD; Gen-Chang Hsu; Sabine Paz-Le Draoulec; Alayna Trejo
9:38 AM - 9:57 AM Pacific: Gene editing reveals novel functions of a herbivore's salivary arsenal. Presenting Author: Gary Felton- Pennsylvania State University - Gary Felton
9:57 AM - 10:00 AM Pacific: Closing remarks. Presenting Author: Manish Gautam- University of Arkansas – Manish Gautam

Title: Foundations and Frontiers in Extension Science: Strengthening Partnerships for the Future

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers: Patricia Prade (she/her/hers)- Pennsylvania State University; Ashleigh Faris- Oklahoma State University; Md Tafsir Nur Nabi Rashed (he/him/his)- University of Florida; Isaac Esquivel- University of Florida; Sriyanka Lahiri- University of Florida; Max R. Schmidtbauer- Nachappa Lab Colorado State University; Melissa Schreiner- Colorado State University; Lisa Mason- Colorado State University; Terri Billeisen- North Carolina State University; Joanie King- New Mexico State University; Nicole Bell- University of Massachusetts; Tawny Simisky- University of Massachusetts
Categories: Section Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems

Abstract: This symposium explores the evolution of extension science, innovative technologies, and impactful partnerships. Featuring diverse speakers and interactive discussions, it provides practical strategies for building and sustaining extension programs, securing funding, and measuring impact, ensuring a collaborative and forward-thinking approach to extension's future.
Tracks: Section Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:03 AM Pacific: Introductory remarks - Part 1. Presenting Author: Patricia Prade (she/her/hers)- Pennsylvania State University - Patricia Prade (she/her/hers)
8:03 AM - 8:23 AM Pacific: Establishing and advancing IPM in cooperative extension. Presenting Author: Norman Leppla, BCE- University of Florida - Norman Leppla, BCE
8:23 AM - 8:38 AM Pacific: Marine biology outreach beginnings to a career in extension entomology. Presenting Author: Joanie King- New Mexico State University - Joanie King
8:38 AM - 8:53 AM Pacific: Bee-lieving in community science: Developing an AI tutoring system to train volunteers on bee morphospecies. Presenting Author: Lisa Mason- Colorado State University - Lisa Mason
8:53 AM - 9:08 AM Pacific: Aerial advantage: Using drones to bridge insect research and extension. Presenting Author: Terri Billeisen- North Carolina State University - Terri Billeisen
9:08 AM - 9:23 AM Pacific: Panel discussion - Part 1 -
9:23 AM - 9:28 AM Pacific: Break -
9:28 AM - 9:30 AM Pacific: Introductory remarks - Part 2. Presenting Author: Md Tafsir Nur Nabi Rashed (he/him/his)- University of Florida - Md Tafsir Nur Nabi Rashed (he/him/his)
9:30 AM - 9:45 AM Pacific: Understanding stakeholder perspectives through surveys to enhance engagement with conservation and pest management programs. Presenting Author: Julie Peterson- University of Nebraska-Lincoln. Andrea Rilakovic (she/her/hers)- University of Nebraska-Lincoln. Hannah Stowe- University of California. Grace Schuster- University of Nebraska-Lincoln. Louise Lynch-O'Brien- University of Nebraska-Lincoln. Andrew Little- University of Nebraska-Lincoln - Julie Peterson; Andrea Rilakovic (she/her/hers); Hannah Stowe; Grace Schuster; Louise Lynch-O'Brien; Andrew Little
9:45 AM - 10:00 AM Pacific: From local roots to regional reach: Expanding extension through multi-state partnerships. Presenting Author: Hannah Talton- North Carolina A&T State University - Hannah Talton
10:00 AM - 10:15 AM Pacific: Collaborative research and extension to improve integrated pest management in California tree nuts. Presenting Author: Houston Wilson (he/him/his)- University of California - Houston Wilson (he/him/his)
10:15 AM - 10:30 AM Pacific: Building partnerships to strengthen an extension program. Presenting Author: Sriyanka Lahiri- University of Florida - Sriyanka Lahiri
10:30 AM - 10:45 AM Pacific: Applied science in action: Partnership with stakeholders to manage pests in ornamentals. Presenting Author: Alejandro Del-Pozo- Virginia Polytechnic Institute and State University. Julie Brindley- Virginia Polytechnic Institute and State University. Greg Simmons- USDA APHIS PPQ Science & Technology. Ignacio Baez- USDA-APHIS - Alejandro Del-Pozo; Julie Brindley; Greg Simmons; Ignacio Baez
10:45 AM - 11:00 AM Pacific: From colony to community: Tips for strengthen stakeholder engagement from an apiculture extension perspective. Presenting Author: Amy Vu- University of Florida - Amy Vu
11:00 AM - 11:15 AM Pacific: Empowering growers through science: Integrated pest management for Texas nursery and greenhouse systems. Presenting Author: Rafia Khan- Texas A&M University - Rafia Khan
11:15 AM - 11:30 AM Pacific: Research and extension opportunities as a University of California Cooperative Extension Entomology advisor. Presenting Author: Arun Babu- University of California - Arun Babu
11:30 AM - 11:45 AM Pacific: Similarities, differences, and collaborations between extension and government positions. Presenting Author: Dalton Ludwick- USDA-ARS - Dalton Ludwick
11:45 AM - 12:00 PM Pacific: Panel discussion - Part 2 -

Title: Insect Ecology and Management in Ornamental Landscapes

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers: Thomas D. Whitney- Davey Tree Expert Company; Kendra Wagner (she/her/hers)- Rainbow Ecoscience; Adam Baker, PhD- Davey Tree Expert Company
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: Implementation of sound IPM and/or promotion of biodiversity within nurseries, urban forests and other managed landscapes has many challenges. This symposium seeks to shine a light on new ornamental plant-insect interaction research with downstream benefits for the green industry.
Tracks: Member Symposium; Plant-Insect Ecosystems

Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Thomas D. Whitney- Davey Tree Expert Company - Thomas D. Whitney
8:05 AM - 8:20 AM Pacific: Up and coming pest in nurseries: Update on red-headed flea beetle biology and management. Presenting Author: Jason Bielski- Virginia Polytechnic Institute and State University. Julie Brindley- Virginia Polytechnic Institute and State University. Ellie Sanders- National Pest Management Association. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University - Jason Bielski; Julie Brindley; Ellie Sanders; Alejandro Del-Pozo
8:20 AM - 8:35 AM Pacific: Sap beetle diversity and their role in the spread of oak wilt in Texas. Presenting Author: Demian Gomez- Texas A&M University. Grace Pietsch- University of Tennessee. Meher Ony- University of Tennessee. Erin Davis- Texas A&M Forest Service. J. Kevin Moulton- University of Tennessee. Denita Hadziabdic- University of Tennessee. William Klingeman- University of Tennessee - Demian Gomez; Grace Pietsch; Meher Ony; Erin Davis; J. Kevin Moulton; Denita Hadziabdic; William Klingeman
8:35 AM - 8:50 AM Pacific: Conservation outcomes on trees with sap-feeding pest outbreaks. Presenting Author: Daniel Rhodes- University of Florida. Adam G. Dale- University of Florida - Daniel Rhodes; Adam G. Dale
8:50 AM - 9:05 AM Pacific: Initial insights into the recently established invasive Mediterranean oak borer (Xyleborus monographus) within a novel host, Quercus garryana, in the Willamette Valley, Oregon. Presenting Author: Allison Monroe- Oregon State University. Curtis Ewing- CalFIRE. Max Ragozzino- Oregon Department of Agriculture. Christine Buhl- Oregon Department of Forestry. Dave Shaw- Oregon State University - Allison Monroe; Curtis Ewing; Max Ragozzino; Christine Buhl; Dave Shaw
9:05 AM - 9:20 AM Pacific: Integrated pest management in a botanic garden. Presenting Author: Ryan Garrison- University of Washington - Ryan Garrison
9:20 AM - 9:35 AM Pacific: Using citizen science to expand invasive species monitoring in Kentucky. Presenting Author: Jonathan Larson- University of Kentucky. Blake Newton- University of Kentucky. Carl Harper- Kentucky Office of the State Entomologist - Jonathan Larson; Blake Newton; Carl Harper
9:35 AM - 9:45 AM Pacific: Break -
9:45 AM - 10:00 AM Pacific: Tissue analysis of horned oak gall infested trees to determine translocation of pesticides. Presenting Author: Kayla Kearns- Davey Tree Expert Company. Christopher M. Ranger (he/him/his)- USDA-ARS. Chris Fields-Johnson- Davey Tree Expert Company. Adam Baker, PhD- Davey Tree Expert Company - Kayla Kearns; Christopher M. Ranger (he/him/his); Chris Fields-Johnson; Adam Baker, PhD
10:00 AM - 10:15 AM Pacific: Advancing applications of paclobutrazol in landscape pest control. Presenting Author: Kendra Wagner (she/her/hers)- Rainbow Ecoscience. Adam G. Dale- University of Florida – Kendra Wagner (she/her/hers); Adam G. Dale
10:15 AM - 10:30 AM Pacific: Exploring silicon supplementation as an alternative tool to enhance resistance to azalea lace bug (Stephanitis pyrioides) (Scott) (Hemiptera: Tingidae). Presenting Author: Katerina Graham- Texas A&M University. Eric Janasov- USDA - ARS. Ryan Paul- Oregon State University. Carolyn Scagel- USDA ARS Horticultural Crops Plant Genetics and Improvement Research Unit. Jana Lee- USDA-ARS - Katerina Graham; Eric Janasov; Ryan Paul; Carolyn Scagel; Jana Lee
10:30 AM - 10:45 AM Pacific: The impact of ants on augmentative biological control efficacy against crapemyrtle bark scale. Presenting Author: Amber Stiller- The Ohio State University. Jeremy Slone- Bartlett Tree Experts. Kevin Chase- Bartlett Tree Research Lab. Isabel Mrez- The R.A. Bartlett Tree Research Laboratory. Caitlin Littlejohn- The R.A. Bartlett Tree Research Laboratory. Kayla I. Perry- The Ohio State University. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University - Amber Stiller; Jeremy Slone; Kevin Chase; Isabel Mrez; Caitlin Littlejohn; Kayla I. Perry; Samuel F. Ward, M.S., Ph.D. (he/him/his)
10:45 AM - 11:00 AM Pacific: Enhancing natural enemy activity by planting flowering shrubs beneath pest-infested urban trees. Presenting Author: Zo York- University of Kentucky. Caleb J. Wilson- University of Kentucky - Zo York; Caleb J. Wilson
11:00 AM - 11:15 AM Pacific: Successful biocontrol strategies in the landscape. Presenting Author: Carol Glenister- IPM Laboratories Inc - Carol Glenister

Title: Inside and Out: Roles of Environmental and Gut Symbioses

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B114, OCC
Organizers: Liam Thomas Sullivan (he/him/his)- University of Arizona; Bibek Parajuli (he/him/his)- University of Texas
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Abstract: Microbial symbionts play diverse roles in insects' fitness, ecology, and evolutionary history. The presence or absence of such microbes can influence host development, mate selection, and allow for the

utilization of novel niches and resources. Here, we intend to highlight how environmental microbes and gut associates influence their insect hosts.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:20 AM Pacific: A hive divided: How space and species sculpt stingless bee microbiomes. Presenting Author: Lilian Caesar (she/her/hers)- Indiana University. Carlin Barksdale (she/they/their)- Department of Biology, Indiana University. Victor Hugo Valiati (he/him/his)- Laboratory of Genetics and Molecular Biology, University of Vale do Rio dos Sinos. Irene Newton- Indiana University Bloomington - Lilian Caesar (she/her/hers); Carlin Barksdale (she/they/their); Victor Hugo Valiati (he/him/his); Irene Newton
8:20 AM - 8:40 AM Pacific: Honey bees as a model for studying microbial ecology and evolution. Presenting Author: Kasie Raymann (she/her/hers)- University of North Carolina - Kasie Raymann (she/her/hers)
8:40 AM - 9:00 AM Pacific: Artificial manipulation of termite gut microbiome and its effect on host traits. Presenting Author: Tatsuya Inagaki (he/him/his)- Cornell University. Corrie Moreau- Cornell University - Tatsuya Inagaki (he/him/his); Corrie Moreau
9:00 AM - 9:10 AM Pacific: Break -
9:10 AM - 9:30 AM Pacific: Frass happens: Conspecific frass as a source for an environmental symbiont. Presenting Author: Liam Thomas Sullivan (he/him/his)- University of Arizona. Suzanne Kelly (she/her/hers)- The University of Arizona, Entomology Dept. Martha S. Hunter (she/her/hers)- University of Arizona - Liam Thomas Sullivan (he/him/his); Suzanne Kelly (she/her/hers); Martha S. Hunter (she/her/hers)
9:30 AM - 9:50 AM Pacific: Strict gut symbiont specificity in coreoid stinkbugs governed by interspecific competition between Caballeronia symbionts. Presenting Author: Tsubasa Ohbayashi- National Agriculture and Food Research Organization. Galle Lextrait- CEA, CNRS, Universite Paris-Saclay. Raynald Cossard- CEA, CNRS, Universite Paris-Saclay. Srotoswini Joardar- CEA, CNRS, Universite Paris-Saclay. Yoshitomo Kikuchi- National Institute of Advanced Industrial Science and Technology. Peter Mergaert- CEA, CNRS, Universite Paris-Saclay - Tsubasa Ohbayashi; Galle Lextrait; Raynald Cossard; Srotoswini Joardar; Yoshitomo Kikuchi; Peter Mergaert
9:50 AM - 10:10 AM Pacific: Effect of climate change on environmentally transmitted insect-microbe mutualism or evaluating the effect of eesiccation on eaballeronia in soil and subsequent acquisition by true bugs. Presenting Author: Bibek Parajuli (he/him/his)- University of Texas - Bibek Parajuli (he/him/his)
10:10 AM - 10:30 AM Pacific: Should I stay or should I glow? Plant-associated bacteria and aphids. Presenting Author: Tory Hendry (she/her/hers)- Cornell University. Kathryn Herr (she/her/hers)- Emory University. Zahavah Rojer (they/them/theirs)- Cornell University - Tory Hendry (she/her/hers); Kathryn Herr (she/her/hers); Zahavah Rojer (they/them/theirs)
10:30 AM - 10:40 AM Pacific: Break -
10:40 AM - 11:00 AM Pacific: Mosquito-mediated niche construction of bacterial communities in an aquatic micro-ecosystem. Presenting Author: Kerri Coon- University of Wisconsin. Aldo A. Arellano- University of Wisconsin. Journey Prack- University of Wisconsin-Madison - Kerri Coon; Aldo A. Arellano; Journey Prack
11:00 AM - 11:20 AM Pacific: An exploration of the Mediterranean fruit fly (Ceratitis capitata) microbiome across the Hawai'i archipelago. Presenting Author: Sayaka Aoki (she/her/hers)- University of Hawaii. Thorsten Einar Hansen, PhD- USDA-ARS. Ikkei Shikano- University of Hawai'i. Charles Mason- USDA ARS - Sayaka Aoki (she/her/hers); Thorsten Einar Hansen, PhD; Ikkei Shikano; Charles Mason
11:20 AM - 11:40 AM Pacific: Select microbiome members support normative host development in the bull-headed dung beetle: Onthophagus taurus. Presenting Author: Joshua A. Jones (he/him/his)- University of Minnesota. Irene Newton- Indiana University Bloomington. Armin Moczek (he/him/his)- Indiana University - Joshua A. Jones (he/him/his); Irene Newton; Armin Moczek (he/him/his)

Title: Breaking Barriers in Insecticide Resistance: Honoring Prof. Jeff Scott's Career in Insect Toxicology

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F150, OCC
Organizers: Nannan Liu- Auburn University; Edwin Burgess- University of Florida; Ke Dong (she/her/hers)- Duke University
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology
Abstract: Join us for an engaging and informative session on the global challenge of insecticide resistance. Experts will present groundbreaking research in molecular genetics, genomics, physiology, biochemistry and toxicology, uncovering resistance mechanisms in arthropod pests and disease vectors. Stay up to date with the latest advancements in this critical field.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology

Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Ke Dong (she/her/hers)- Duke University - Ke Dong (she/her/hers)
8:05 AM - 8:25 AM Pacific: Unraveling the legacy of insecticide resistance in house flies: Mechanisms, key genes, and functional characterization. Presenting Author: Nannan Liu- Auburn University - Nannan Liu
8:25 AM - 8:45 AM Pacific: Reviving the classic art of cuticular penetration studies in house flies. Presenting Author: Edwin Burgess- University of Florida - Edwin Burgess
8:45 AM - 9:05 AM Pacific: What we've learned from a decade of house fly genomics. Presenting Author: Rich Meisel- University of Houston - Rich Meisel
9:05 AM - 9:20 AM Pacific: Approaches for characterizing the development of insecticide resistance in Aedes aegypti. Presenting Author: Dylan Brown- Auburn University. Nannan Liu- Auburn University - Dylan Brown; Nannan Liu
9:20 AM - 9:40 AM Pacific: Mechanisms of pyrethroid resistance in dengue mosquito vector. Presenting Author: Shinji Kasai- National Institute of Infectious Diseases - Shinji Kasai
9:40 AM - 9:50 AM Pacific: Break -
9:50 AM - 10:05 AM Pacific: kdr mutations differentially impact mosquito sodium channel sensitivity to structurally diverse pyrethroids. Presenting Author: Funmilayo Egunjobi- Duke University. Felipe Andreazza (he/him/his)- Duke University. Boris Zhorov- McMaster University. Ke Dong (she/her/hers)- Duke University – Funmilayo Egunjobi; Felipe Andreazza (he/him/his); Boris Zhorov; Ke Dong (she/her/hers)
10:05 AM - 10:25 AM Pacific: Evidence for intron retentions of voltage-sensitive sodium channel and the potential role in -cypermethrin resistance in Bactrocera dorsalis. Presenting Author: Yinjun Fan- Qingdao Agricultural University – Yinjun Fan
10:25 AM - 10:45 AM Pacific: Functional characterization of insecticide resistance mechanisms in mosquitoes using genome engineering approaches. Presenting Author: John Vontas- Agricultural University Athens - John Vontas
10:45 AM - 11:05 AM Pacific: Piperonyl butoxide induces a unique set of genes: Unique ligand or feedback loop?. Presenting Author: Jeff scott- Cornell University - Jeff scott

Title: Bridging Generations: Celebrating 50 Years of Innovative Biocontrol Programs in California & Beyond

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers: Ricky Lara- California Department of Food and Agriculture; Nathan Mercer- California Department of Food and Agriculture; Christopher Borkent- California Department of Food and Agriculture
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: This symposium celebrates the 50+ years of contributions by the California Department of Food and Agriculture's Biological Control Program, and its diverse partners, to the development of innovative biological control solutions for sustainable management of invasive insects and noxious weeds that threaten agricultural and natural ecosystems.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Ricky Lara- California Department of Food and Agriculture - Ricky Lara
8:05 AM - 8:25 AM Pacific: Inception of California's biological control 'services' program and successful accomplishments in the biological control of exotic weeds. Presenting Author: Michael Pitcairn- California Department of Food and Agriculture - Michael Pitcairn
8:25 AM - 8:45 AM Pacific: Development of California's state biological control program, milestones over a 34-year career. Presenting Author: Charles Pickett- California Department of Food and Agriculture. Michael Pitcairn- California Department of Food and Agriculture - Charles Pickett; Michael Pitcairn
8:45 AM - 9:00 AM Pacific: Exploration across Africa and release in California of olive fruit fly parasitoids. Presenting Author: Kent Daane- University of California. Xingeng Wang- USDA-ARS. Charles Pickett- California Department of Food and Agriculture. Kim Alan Hoelmer- USDA-ARS. Arnaud Blanchet- USDA-ARS EBCL. Vaughn M. Walton- Oregon State University. Marie-Claude Bon (she/her/hers)- USDA. Alan Kirk- USDA-ARS EBCL - Kent Daane; Xingeng Wang; Charles Pickett; Kim Alan Hoelmer; Arnaud Blanchet; Vaughn M. Walton; Marie-Claude Bon (she/her/hers); Alan Kirk
9:00 AM - 9:15 AM Pacific: Developing a biological control program for bagrada bug in California. Presenting Author: Brian Hogg- USDA-ARS. Ian Grettenberger- University of California. Christopher Borkent- California Department of Food and Agriculture. Nathan Mercer- California Department of Food and Agriculture. Keith

Stokes- USDA-ARS. Evelyne Hougardy- USDA-ARS. Nastaran Tofangsazi- USDA-ARS. Charles Pickett- California Department of Food and Agriculture - Brian Hogg; Ian Grettenberger; Christopher Borkent; Nathan Mercer; Keith Stokes; Evelyne Hougardy; Nastaran Tofangsazi; Charles Pickett
9:15 AM - 9:25 AM Pacific: Break -
9:25 AM - 9:40 AM Pacific: UCR and CDFA: Getting the bugs under control!. Presenting Author: Mark Hoddle, Ph.D. D.Sc. (he/him/his)- University of California - Mark Hoddle, Ph.D. D.Sc. (he/him/his)
9:40 AM - 9:55 AM Pacific: Assessments of floral feeding and parasitism by Peristenus relictus(Ruthe) (Hymenoptera: Braconidae) in a diversified strawberry production system. Presenting Author: Diego Nieto- Driscoll's. Jana Lee- USDA-ARS. Gracie Galindo- Genective - Diego Nieto; Jana Lee; Gracie Galindo
9:55 AM - 10:10 AM Pacific: Washington and California: Our shared invasive plant problems and solutions. Presenting Author: Jennifer Andreas- Washington State University - Jennifer Andreas
10:10 AM - 10:25 AM Pacific: Leaf pH and hormone treatments boost feeding and oviposition in Ceratapion basicorne. Presenting Author: Ikju Park- University of California - Ikju Park
10:25 AM - 10:35 AM Pacific: Break -
10:35 AM - 10:50 AM Pacific: A model of winter and spring phenology in the yellow starthistle rosette weevil (Ceratapion basicorne), applied in California and beyond. Presenting Author: Fritzi Grevstad- Oregon State University. Dan Bean- Colorado Department of Agriculture. Carrie Preston- Oregon State University. Brittany S. Barker, PhD- Oregon State University - Fritzi Grevstad; Dan Bean; Carrie Preston; Brittany S. Barker, PhD
10:50 AM - 11:05 AM Pacific: Whither fair program? The current status and future directions of the CDFA Biological Control Program. Presenting Author: Christopher Borkent- California Department of Food and Agriculture – Christopher Borkent
11:05 AM - 11:20 AM Pacific: CDFA biocontrol awards -
11:20 AM - 11:25 AM Pacific: Closing remarks. Presenting Author: Ricky Lara- California Department of Food and Agriculture - Ricky Lara
11:25 AM - 12:00 PM Pacific: Poster session -
11:25 AM - 12:00 PM Pacific: Adventures in rearing Ceratapion basicorne, a new biocontrol agent for yellow star thistle. Presenting Author: Michael Pitcairn- California Department of Food and Agriculture. Robert Munoz- CDFA. Nathan Mercer- California Department of Food and Agriculture. Viola Popescu- California Department of Food and Agriculture. Christopher Borkent- California Department of Food and Agriculture - Michael Pitcairn; Robert Munoz; Nathan Mercer; Viola Popescu; Christopher Borkent
11:25 AM - 12:00 PM Pacific: Assessing the feasibility of biological control for Arundo donaxin Southern California. Presenting Author: Winnifred Opio Aool (she/her/hers)- University of California. Nathan Harms- US Army ERDC. Ikju Park- University of California - Winnifred Opio Aool (she/her/hers); Nathan Harms; Ikju Park
11:25 AM - 12:00 PM Pacific: Biological control of invasive weeds in California, current status of long term and ongoing projects. Presenting Author: Nathan Mercer- California Department of Food and Agriculture. Viola Popescu- California Department of Food and Agriculture. Michael Pitcairn- California Department of Food and Agriculture. Christopher Borkent- California Department of Food and Agriculture - Nathan Mercer; Viola Popescu; Michael Pitcairn; Christopher Borkent
11:25 AM - 12:00 PM Pacific: Do deep diving larvae exploit enemy free space? Spotted wing drosophila larval depth in berries and parasitism by the natural enemy Ganaspis kimorum. Presenting Author: D. Valle Rogers- University of California - D. Valle Rogers
11:25 AM - 12:00 PM Pacific: Effect of rosette size on larval development and survival in Ceratapion basicorne, a new biological control agent for yellow starthistle. Presenting Author: Fritzi Grevstad- Oregon State University. Carrie Preston- Oregon State University. Dan Bean- Colorado Department of Agriculture. Brittany S. Barker, PhD- Oregon State University - Fritzi Grevstad; Carrie Preston; Dan Bean; Brittany S. Barker, PhD
11:25 AM - 12:00 PM Pacific: Generalist predators that feed on the cotton seed bug (Oxycarenus Hyalinipennis). Presenting Author: Theodore L. Adams- University of California. Christina Hoddle (she/her/hers)- University Of California Riverside. Mark Hoddle, Ph.D. D.Sc. (he/him/his)- University of California – Theodore L. Adams; Christina Hoddle (she/her/hers); Mark Hoddle, Ph.D. D.Sc. (he/him/his)
11:25 AM - 12:00 PM Pacific: Overwintering in California: A continued look at Trissolcus japonicus resilience. Presenting Author: Daniel Roberts- California Department of Food and Agriculture. Vincent Maiquez- California Department of Food and Agriculture. Ricky Lara- California Department of Food and Agriculture – Daniel Roberts; Vincent Maiquez; Ricky Lara
11:25 AM - 12:00 PM Pacific: Rapid identification of cryptic biological control agents using near infrared spectroscopy. Presenting Author: Evelyne Hougardy- USDA-ARS. Peishih Liang (she/her/hers)- USDA-ARS. Ronald P. Haff- USDA-ARS. Kent Daane- University of California. Xingeng Wang- USDA-ARS. Brian Hogg- USDA-ARS - Evelyne Hougardy; Peishih Liang (she/her/hers); Ronald P. Haff; Kent Daane; Xingeng Wang; Brian Hogg

11:25 AM - 12:00 PM Pacific: Rearing non-targets for host-specificity testing of Dolichogenidea gelechiidivoris, a key parasitoid ofTuta absoluta. Presenting Author: Ricky Lara- California Department of Food and Agriculture. Michael Bernabe- CDFA. Daniel Roberts- California Department of Food and Agriculture. Brian Hogg- USDA-ARS - Ricky Lara; Michael Bernabe; Daniel Roberts; Brian Hogg
11:25 AM - 12:00 PM Pacific: Sex-ratio distortion in a weed biological control agent, Ceratapion basicorne (Coleoptera: Brentidae), associated with a species of Rickettsia. Presenting Author: Kristi Gladem (she/her/hers)- University of California. Paul Rugman-Jones- University of California Riverside. Emma Shelton- Colorado Department of Agriculture. Kelly Hanrahan- Colorado Department of Agriculture. Dan Bean- Colorado Department of Agriculture. Brian G. Rector- USDA-ARS - Kristi Gladem (she/her/hers); Paul Rugman-Jones; Emma Shelton; Kelly Hanrahan; Dan Bean; Brian G. Rector

Title: Current Advances in Acarology

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers: Orlando Combita-Heredia, PhD (he/him/his)- Columbus State Community College; Emilie P. Demard, PhD (she/her/hers)- Utah State University
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Medical, Urban, and Veterinary Entomology
Abstract: Explore the latest in mite and tick research at the Current Advances in Acarology symposium. Discover groundbreaking techniques, innovative management strategies, and new insights into their biology and ecology. Gain practical applications and join the discussion shaping the future of acarology. Don't miss this engaging and informative session!
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Medical, Urban, and Veterinary Entomology
Presentations:
8:00 AM - 8:15 AM Pacific: Introductory remarks. Presenting Author: Orlando Combita-Heredia, PhD (he/him/his)- Columbus State Community College - Orlando Combita-Heredia, PhD (he/him/his)
8:15 AM - 8:29 AM Pacific: Understanding the impacts of oxalic acid application methods on Apis mellifera and control of Varroa destructor. Presenting Author: Marie Taylor Yanchak- University of Florida. Cameron Jack- University of Florida - Marie Taylor Yanchak; Cameron Jack
8:29 AM - 8:43 AM Pacific: LED-based manipulation and plasma-activated water as a carrier improve organic miticide performance against two-spotted spider mites. Presenting Author: Patrice Savi- University of California - Patrice Savi
8:43 AM - 8:57 AM Pacific: Should we consider the use of predatory mites for the biological control of the invasive Thrips parvispinus Karny (Thysanoptera: Thripidae)?. Presenting Author: Paola Villamarin- University of Florida. Alexandra Revynthi- University of Florida - Paola Villamarin; Alexandra Revynthi
8:57 AM - 9:11 AM Pacific: Evaluation of the efficacy of promising compounds for the control of Varroa destructor and their toxicity to honey bees (Apis mellifera). Presenting Author: Louise Petit- University of Florida. Cameron Jack- University of Florida - Louise Petit; Cameron Jack
9:11 AM - 9:25 AM Pacific: Utilizing fluorescence in-situ hybridization to detect Streptococcus phocaein naso pulmonary mites and assess their role in respiratory disease transmission in Southern sea otters. Presenting Author: Ashani Hangawatte- The Ohio State University. Cody Warren- The Ohio State University. Francesca Batac- California Department of Fish and Wildlife. Melissa Miller- California Department of Fish and Wildlife. Risa Pesapane- The Ohio State University - Ashani Hangawatte; Cody Warren; Francesca Batac; Melissa Miller; Risa Pesapane
9:25 AM - 9:39 AM Pacific: What triggers chiggers? Evaluating attraction using chemosensory cues. Presenting Author: Elizabeth Foley, BCE- United States Air Force. Risa Pesapane- The Ohio State University – Elizabeth Foley, BCE; Risa Pesapane
9:39 AM - 9:53 AM Pacific: Assessing the potential ofNeoseiulus californicus(McGregor) (Mesostigmata: Phytoseiidae) for concurrent management of two key strawberry pests in Florida. Presenting Author: Allan Busuulwa- University of Florida. Abigail Campos Gutierrez- Universidad Earth. Sriyanka Lahiri- University of Florida – Allan Busuulwa; Abigail Campos Gutierrez; Sriyanka Lahiri
9:53 AM - 10:08 AM Pacific: Break -
10:08 AM - 10:22 AM Pacific: The biogeography of mesotigmatid mite communities across a peatland latitudinal-successional gradient. Presenting Author: Pedro Conceicao- University of Western Ontario. Zo Lindo- University of Western Ontario - Pedro Conceicao; Zo Lindo

10:22 AM - 10:36 AM Pacific: Potential of biorational and conventional pesticides to control Acalitus simplex (Acari: Eriophyidae). Presenting Author: Marcello De Giosa- University of Florida. Alexandra Revynthi- University of Florida - Marcello De Giosa; Alexandra Revynthi
10:36 AM - 10:50 AM Pacific: How did Philippine geological history affect the diversity and distribution of soil mites in the archipelago?. Presenting Author: Jeremy Naredo- The Ohio State University. Hans Klompen- The Ohio State University - Jeremy Naredo; Hans Klompen
10:50 AM - 11:04 AM Pacific: Efficacy of biorational products and compatibility with predatory mites for managing two spotted spider mites. Presenting Author: Leslie Alejandra Aviles Lopez- Purdue University. Laura Ingwell (she/her/hers)- Purdue University. Antonio de Oliveira Costa Neto- University of Florida. Paola Villamarin- University of Florida. Yiannis Ampatzidis- University of Florida. Alexandra Revynthi- University of Florida - Leslie Alejandra Aviles Lopez; Laura Ingwell (she/her/hers); Antonio de Oliveira Costa Neto; Paola Villamarin; Yiannis Ampatzidis; Alexandra Revynthi
11:04 AM - 11:18 AM Pacific: Early detection of Tetranychus urticae Koch (Acari: Tetranychidae) on Hibiscus plants using hyperspectral imaging analysis. Presenting Author: Maria Canon- University of Florida. Antonio de Oliveira Costa Neto- University of Florida. Paola Villamarin- University of Florida. Yiannis Ampatzidis- University of Florida. Alexandra Revynthi- University of Florida - Maria Canon; Antonio de Oliveira Costa Neto; Paola Villamarin; Yiannis Ampatzidis; Alexandra Revynthi
11:18 AM - 11:33 AM Pacific: Stethorus for spider mite biocontrol in PNW orchards. Presenting Author: Erica Moretti- USDA-ARS. Daniel Hausler- USDA-ARS. Megan Asche (she/her/hers)- USDA-APHIS. Robert Orpet- Oregon State University. Rebecca Schmidt-Jeffris- USDA-ARS – Erica Moretti; Daniel Hausler; Megan Asche (she/her/hers); Robert Orpet; Rebecca Schmidt-Jeffris
11:33 AM - 11:45 AM Pacific: Closing remarks. Presenting Author: Emilie P. Demard, PhD (she/her/hers)- Utah State University - Emilie P. Demard, PhD (she/her/hers)

Title: 25-Year Anniversary of RNAi for Pest Management: Milestones and Prospects - Foundational Science

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers: Ken Narva, PhD- GreenLight Biosciences, Inc.; S. Reddy Palli (he/him/his)- University of Kentucky; Ibrahim A. El-Shesheny- Tanta University; Partha Ramaseshadri (he/him/his)- Bayer Crop Science
Categories: Program Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Abstract: With the Silver Year Anniversary of RNAi Discovery, the symposium highlights the basic science and current state of RNA interference (RNAi) in insects. This symposium will include landmark topics from basic mechanistic aspects of RNAi in arthropods.
Tracks: Program Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:30 AM Pacific: Tools for functional genomics screens in drosophila and other arthropods. Presenting Author: Norbert Perrimon (he/him/his)- Harvard University - Norbert Perrimon (he/him/his)
8:30 AM - 8:45 AM Pacific: Molecular mechanisms underlying RNAi in Western corn rootworm: From dsRNA uptake to systemic spread. Presenting Author: Ana Velez (she/her/hers)- University of Nebraska-Lincoln. Marija Milosevic- University of Nebraska-Lincoln. Molly Darlington (she/her/hers)- Minnesota Department of Agriculture. Arnubio Valencia-Jimenez- Universidad De Caldas. Kristopher Silver (he/him/his)- Kansas State University. Blair Siegfried- Pennsylvania State University - Ana Velez (she/her/hers); Marija Milosevic; Molly Darlington (she/her/hers); Arnubio Valencia-Jimenez; Kristopher Silver (he/him/his); Blair Siegfried
8:45 AM - 9:00 AM Pacific: The design of dsRNA sequences for pest control: From choosing the target gene to the optimization of the sequence. Presenting Author: Gregor Bucher. Cedden Doga- University of Gttingen, Germany. Ben Ber- Bayer Crop Sciences. Ralf Nauen- Bayer Crop Science. Sven Geibel (he/him/his)- Bayer Crop Science - Gregor Bucher; Cedden Doga; Ben Ber; Ralf Nauen; Sven Geibel (he/him/his)
9:00 AM - 9:15 AM Pacific: A platform for anti-pest nucleic acid engineering based on piRNA-mediated gene silencing.. Presenting Author: Alex S. Flynt. Kevin R. Quito (he/him/his)- University of Southern Mississippi. Santosh Poudel- University of Mississippi. Amir Raza- University of Arizona. Burcu Balaban- University of Southern Mississippi. Tristan Clemons- University of Southern Mississippi. Judith Brown- University of Arizona - Alex S. Flynt; Kevin R. Quito (he/him/his); Santosh Poudel; Amir Raza; Burcu Balaban; Tristan Clemons; Judith Brown
9:15 AM - 9:30 AM Pacific: Innovative RNAi approaches for sustainable management of corn rootworm: Insights from midgut gene targets. Presenting Author: Amit Sethi- Corteva Agriscience - Amit Sethi
9:30 AM - 9:45 AM Pacific: A quarter century in the labyrinths of RNAi: From molecular insight to field application. Presenting Author: Umut Toprak (he/him/his)- Ankara University - Umut Toprak (he/him/his)

9:45 AM - 10:00 AM Pacific: RNAi yeast insecticides: A new class of eco-friendly insecticides for effective control of urban and crop pests. Presenting Author: Molly Duman Duman Scheel (she/her/hers). Teresia Njoroge- Indiana University School of Medicine. Akilah Stewart- Indiana University School of Medicine. Majidah Hamid-Adiamoh- Indiana University School of Medicine. Longhua Sun- Indiana University School of Medicine Molly Duman Duman Scheel (she/her/hers); Teresia Njoroge; Akilah Stewart; Majidah Hamid-Adiamoh; Longhua Sun
10:00 AM - 10:30 AM Pacific: Poster session -
10:00 AM - 10:30 AM Pacific: Advancing RNAi technologies against recalcitrant insect pests. Presenting Author: Ibrahim A. El-Shesheny- Tanta University. Cris Oppert- AgroSpheres. Ameer Shakeel (he/him/his)- AgroSpheres. Joseph Frank (he/him/his)- AgroSpheres. Juan Luis Jurat-Fuentes- University of Tennessee - Ibrahim A. El-Shesheny; Cris Oppert; Ameer Shakeel (he/him/his); Joseph Frank (he/him/his); Juan Luis Jurat-Fuentes
10:00 AM - 10:30 AM Pacific: Inhibition of EV biosynthesis disrupts systemic RNA interference responses in Diabrotica undecimpunctata. Presenting Author: Festus Ajibefun- Kansas State University. Xiufeng Zhang- Kansas State University. Marija Milosevic- University of Nebraska-Lincoln. Kun Yan Zhu- Kansas State University. Berlin Londono-Renteria- Tulane University. Yoonseong Park- Kansas State University. Ana Velez (she/her/hers)- University of Nebraska-Lincoln. Kristopher Silver (he/him/his)- Kansas State University - Festus Ajibefun; Xiufeng Zhang; Marija Milosevic; Kun Yan Zhu; Berlin Londono-Renteria; Yoonseong Park; Ana Velez (she/her/hers); Kristopher Silver (he/him/his)
10:00 AM - 10:30 AM Pacific: Insights into systemic RNAi: The role of extracellular vesicles in Western corn rootworm. Presenting Author: Ana Velez (she/her/hers)- University of Nebraska-Lincoln - Ana Velez (she/her/hers)
10:00 AM - 10:30 AM Pacific: Layered double hydroxide nanosheets for improving RNA interference efficiency in the diamondback moth, Plutella xylostella. Presenting Author: Rachel Leigh Johnson (she/her/hers)- Kansas State University - Rachel Leigh Johnson (she/her/hers)
10:00 AM - 10:30 AM Pacific: Responses of non-target arthropods to the dsRNA bioinsecticide calantha and conventional insecticides targeting Colorado potato beetle, Leptinotarsa decemlineata (Say). Presenting Author: Erik Wenninger (he/him/his)- University of Idaho - Erik Wenninger (he/him/his)
10:30 AM - 10:45 AM Pacific: Innovations in nano-delivery of interfering RNA to enhance RNAi efficiency in insects. Presenting Author: Kun Yan Zhu- Kansas State University. Rachel Leigh Johnson (she/her/hers)- Kansas State University - Kun Yan Zhu; Rachel Leigh Johnson (she/her/hers)
10:45 AM - 11:00 AM Pacific: Targeting rickettsial pathogen transmission from ticks. Presenting Author: Girish Neelakanta, PhD- University of Tennessee - Girish Neelakanta, PhD
11:00 AM - 11:15 AM Pacific: Characterization of extracellular vesicles in fall armyworm cells as potential transport of RNA. Presenting Author: Guy J. Smagghe (he/him/his). Dongdong Liu- Guizhou University. Jialing Liu- Guizhou University. Yuqian Cheng- Guizhou University - Guy J. Smagghe (he/him/his); Dongdong Liu; Jialing Liu; Yuqian Cheng
11:15 AM - 11:30 AM Pacific: RNAi as an antiviral defense mechanism in lepidoptera: Can it be harnessed for pest control?. Presenting Author: Luc Swevers (he/him/his) - Luc Swevers (he/him/his)
11:30 AM - 11:45 AM Pacific: Unraveling RNAi for control of mites in agriculture and apiculture. Presenting Author: Eric R.L Gordon (he/him/his)- GreenLight Biosciences. Emma De Neef- GreenLight Biosciences. Vladimir Zhurov- University of Western Ontario. Vojislava Grbic (she/her/hers). Zachary Lamas- USDA-ARS Bee Research Laboratory. Jay Evans- USDA-ARS. Steven Smith- GreenLight Biosciences. Katie Youngs- GreenLight Biosciences. Ken Narva, PhD- GreenLight Biosciences, Inc. - Eric R.L Gordon (he/him/his); Emma De Neef; Vladimir Zhurov; Vojislava Grbic (she/her/hers); Zachary Lamas; Jay Evans; Steven Smith; Katie Youngs; Ken Narva, PhD
11:45 AM - 12:00 PM Pacific: From the two-spotted spider mite genome to RNAi-based acaricide: How fundamental science leads to applied products. Presenting Author: Vojislava Grbic (she/her/hers) - Vojislava Grbic (she/her/hers)

Title: Experimental Design and Analysis for Agricultural Research

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, A106, OCC
Organizers: Leonardo David Salgado (he/him/his)- Cornell University; Julian Golec- Corteva Agriscience
Categories: Workshop; Machine Learning and AI; Professional Development
Abstract: Master the art of experimental design and data analysis across laboratory, greenhouse, and field settings in entomology. Learn from academic and industry experts who will guide you through theory and real-world case studies. Take home practical tools, including statistical software templates, to enhance your research methodology and statistical analysis capabilities.
Tracks: Workshop; Machine Learning and AI; Professional Development

Title: 10-min: PBT, IPM and Insecticide Resistance

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F152, OCC
Organizers:
Categories: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Tracks: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Presentations:
8:00 AM - 8:12 AM Pacific: Adaptation to cold winters influences temperature-dependent RNAi susceptibility in Colorado potato beetles. Presenting Author: Mike Darrington- University of Kentucky. Nicholas Teets- University of Kentucky - Mike Darrington; Nicholas Teets
8:12 AM - 8:24 AM Pacific: Characterization of the spectrum of insecticidal activity of Cry1B.3, Cry1Da_7, and Vip3Cb1 proteins produced by lepidopteran-protected MON 89151 cotton. Presenting Author: Frankie Stubbins (he/him/his)- Bayer Crop Science. Carlos Esquivel- Bayer Crop Science. Harit Kaur Bal- Bayer Crop Science. Jianguo Tan- Bayer Crop Science. Brent Werner- Bayer Crop Science. Steven Reyna (he/him/his)- Bayer Crop Science. Chris Brown- Bayer Crop Science. Chitvan Khajuria (he/him/his)- Bayer Crop Science - Frankie Stubbins (he/him/his); Carlos Esquivel; Harit Kaur Bal; Jianguo Tan; Brent Werner; Steven Reyna (he/him/his); Chris Brown; Chitvan Khajuria (he/him/his)
8:24 AM - 8:36 AM Pacific: Comparison of cold tolerance between western corn rootworm and northern corn rootworm. Presenting Author: Yucheng Wang- University of Minnesota. James Bing- Corteva Agrisciences. Timothy Nowatzki, BCE- Corteva Agriscience. Robert Venette- University of Minnesota. Fei Yang- University of Minnesota - Yucheng Wang; James Bing; Timothy Nowatzki, BCE; Robert Venette; Fei Yang
8:36 AM - 8:48 AM Pacific: CRISPR/Cas9 knockout of the chitin synthase gene HzCHS2 confers resistance to Bacillus thuringiensis Vip3Aa toxin in Helicoverpa zea. Presenting Author: Jeffrey A. Fabrick (he/him/his)- USDA-ARS. Chan Heu- USDA, ARS. Yves Carriere- University of Arizona. Bruce Tabashnik (he/him/his)- University of Arizona - Jeffrey A. Fabrick (he/him/his); Chan Heu; Yves Carriere; Bruce Tabashnik (he/him/his)
8:48 AM - 9:00 AM Pacific: Discovery and development of natural pesticides targeting insect and fungal pests of tree nuts. Presenting Author: Mikhail Shilman- United States Department of Agriculture. Ronald P. Haff- USDA-ARS. Evelyne Hougardy- USDA-ARS. Brian Hogg- USDA-ARS - Mikhail Shilman; Ronald P. Haff; Evelyne Hougardy; Brian Hogg
9:00 AM - 9:12 AM Pacific: Exploring RNA interference in newly invasive carpophilus beetle. Presenting Author: Raman Bansal- USDA-ARS - Raman Bansal
9:12 AM - 9:24 AM Pacific: Break –
9:24 AM - 9:36 AM Pacific: Exploring South African medicinal plants for biopesticide applications. Presenting Author: Zimasa Busisiwe Dubeni, PhD- University of Fort Hare - Zimasa Busisiwe Dubeni, PhD
9:36 AM - 9:48 AM Pacific: Functionally modified graphene oxide nano-carriers for enhanced dsRNA delivery in improving RNAi-based insect pest control. Presenting Author: Kristof De Schutter, PhD- Ghent University. Qi Xue- Ghent University. Jiangjie Li- Ghent University. Clauvis Taning- Ghent University - Kristof De Schutter, PhD; Qi Xue; Jiangjie Li; Clauvis Taning
9:48 AM - 10:00 AM Pacific: Gene silencing of CYP450 enzymes using RNA interference (RNAi) restores insecticide susceptibility in whitefly populations from Georgia, USA. Presenting Author: Md Abdullah Al Baki- University of Georgia. Jermaine D. Perier (he/him/his)- Mississippi State University. Thomas P. Dunn- University of Georgia. Paulo G. Cremonez (he/him/his)- Auburn University. David Riley- University of Georgia. Donald Champagne- University of Georgia - Md Abdullah Al Baki; Jermaine D. Perier (he/him/his); Thomas P. Dunn; Paulo G. Cremonez (he/him/his); David Riley; Donald Champagne
10:00 AM - 10:12 AM Pacific: Historical perspectives and current data on inheritance and mechanisms of resistance in Ostrinia nubilalis: Implications for resistance management and durability estimates. Presenting Author: Andre Crespo- Corteva Agriscience. Amit Sethi- Corteva Agriscience. Renata Ramos Pereira- Corteva Agriscience. Analiza Alves- Corteva Agriscience - Andre Crespo; Amit Sethi; Renata Ramos Pereira; Analiza Alves
10:12 AM - 10:24 AM Pacific: Insect immunity with ecosystem impact: Antimicrobial peptides from the black soldier fly. Presenting Author: Itai Opatovsky- MIGAL. Misaa Harb- MIGAL, Israel. Ori Lemberg- MIGAL - Itai Opatovsky; Misaa Harb; Ori Lemberg
10:24 AM - 10:36 AM Pacific: Juvenile-associated odors attract immature nymphs and gravid female cotton seed bugs, Oxycarenus hyalinipennis. Presenting Author: Ahmed M. Saveer- United States Department of Agriculture. Dawn Gundersen-Rindal (she/her/hers)- United States Department of Agriculture, Agricultural Research Service. Aijun Zhang- USDA-ARS IIBBL - Ahmed M. Saveer; Dawn Gundersen-Rindal (she/her/hers); Aijun Zhang
10:36 AM - 10:48 AM Pacific: Break –

10:48 AM - 11:00 AM Pacific: Pathogenicity of Metarhizium anisopliae(Pacer) against two stored grains insect pests under abiotic factors. Presenting Author: Kashif Ali- Baba Fareed Seed Corporation - Kashif Ali
11:00 AM - 11:12 AM Pacific: Resistance of a Puerto Rican fall armyworm (Spodoptera frugiperda) (Lepidoptera: Noctuidae) strain to Iindoxacarb, a voltage-dependent sodium channel blocker. Presenting Author: Omar Alejandro Posos-Parra, Sr.- Michigan State University. David Mota-Sanchez- Michigan State University. Christina DiFonzo- Michigan State University. Barry Pittendrigh- Purdue University. John Wise- Michigan State University. Eric L. Patterson- Michigan State University - Omar Alejandro Posos-Parra, Sr.; David Mota-Sanchez; Christina DiFonzo; Barry Pittendrigh; John Wise; Eric L. Patterson
11:12 AM - 11:24 AM Pacific: RNA interference suppression ofv-ATPase Bfunctional gene via dsRNA on cabbage leaves for managing diamond back moth (DBM), Plutella xylostella (Lepidoptera: Gelechiidae). Presenting Author: Ramkumar Govindaraju (he/him/his)- Manonmaniam Sundaranar University - Ramkumar Govindaraju (he/him/his)
11:24 AM - 11:36 AM Pacific: RNAi-mediated reduction of gut surface protein expression in Diaphorina citrireduces acquisition of Candidatus liberibacter asiaticus. Presenting Author: Miltan C. Roy, PhD- University of Florida. Na Xie- University of Florida. Erik Roldan (he/him/his)- Corteva Agriscience. Lukasz Stelinski- University of Florida. Bryony Bonning (she/her/hers)- University of Florida. Kirsten Pelz-Stelinski (she/her/hers)- University of Florida - Miltan C. Roy, PhD; Na Xie; Erik Roldan (he/him/his); Lukasz Stelinski; Bryony Bonning (she/her/hers); Kirsten Pelz-Stelinski (she/her/hers)
11:36 AM - 11:48 AM Pacific: Seed-applied insecticides in corn reduce herbivore performance on adjacent non-crop plants. Presenting Author: Alexander Chauta- Cornell University. Suleima Yasmin Patt- Cornell University. Katja Poveda- Cornell University. Alejandro Calixto- Cornell University - Alexander Chauta; Suleima Yasmin Patt; Katja Poveda; Alejandro Calixto
11:48 AM - 12:00 PM Pacific: The V410L kdr allele in the VGSC confers higher levels of field resistance to permethrin in urban mosquito populations of Aedes aegypti (L.). Presenting Author: Jonathan Rene Hernandez- Texas A&M University. Han-Jung Lee- Center for GIS, RCHSS, Academia Sinica. Maximea Vigilant- Harris County Public Health. Scott Crawford- Department of Statistics, Texas A&M University. Patricia Pietrantonio- Texas A&M University - Jonathan Rene Hernandez; Han-Jung Lee; Maximea Vigilant; Scott Crawford; Patricia Pietrantonio

Title: 10-min: SysEB, Invasive Species, Diagnostics, and Pest Control

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E147-148, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:
8:00 AM - 8:12 AM Pacific: A new hypothesis for the extinction of the Rocky Mountain locust (Orthoptera: Melanoplus spretus). Presenting Author: Frank E. Etzler- Montana Department of Agriculture - Frank E. Etzler
8:12 AM - 8:24 AM Pacific: Assessing the Wallacean shortfall in non-native insect records: Implications for predictive modeling. Presenting Author: Zenia P. Ruiz- Utrilla- University of Kansas. Andres F. Herrera-Motta (he/him/his)- University of Kansas. A. Townsend Peterson, Senior Curator and University Distinguished Professor- Department of Ecology & Evolutionary Biology and Biodiversity Institute, University of Kansas - Zenia P. Ruiz- Utrilla; Andres F. Herrera-Motta (he/him/his); A. Townsend Peterson, Senior Curator and University Distinguished Professor
8:24 AM - 8:36 AM Pacific: Assessing transgenerational phenotypic response to insecticidal stress in invasive Colorado potato beetles (Leptinotarsa decemlineata). Presenting Author: Joe Gunn (he/him/his)- University of Vermont. Blair Christensen (she/her/hers)- University of Vermont. Alex Kissonergis- University of Vermont. Lamija Semic- University of Vermont. Juliet Hoven- University of Vermont. Erika Bueno (she/her/hers)- University of California Davis. Russell L. Groves, PhD- University of Wisconsin. Sean Dennis Schoville- University of Wisconsin. Stephanie McKay- University of Missouri. Yolanda Chen (she/her/hers)- University of Vermont - Joe Gunn (he/him/his); Blair Christensen (she/her/hers); Alex Kissonergis; Lamija Semic; Juliet Hoven; Erika Bueno (she/her/hers); Russell L. Groves, PhD; Sean Dennis Schoville; Stephanie McKay; Yolanda Chen (she/her/hers)
8:36 AM - 8:48 AM Pacific: BugBox: Lessons learned from four years of AI-based arthropod biodiversity monitoring. Presenting Author: Kelton D. Welch- Ecdysis Foundation. Andres A. Torres-Moya- Ecdysis Foundation. Mikayla E. Wilson- Ecdysis Foundation. Diaa S. Nassar- Ecdysis Foundation. Tommy L.D. Fenster- Ecdysis Foundation. Daniel Pecenka- Ecdysis Foundation. Ryan Schmid- Ecdysis Foundation. Jonathan Lundgren- Ecdysis Foundation - Kelton D. Welch; Andres A. Torres-Moya; Mikayla E. Wilson; Diaa S. Nassar; Tommy L.D. Fenster; Daniel Pecenka; Ryan Schmid; Jonathan Lundgren

8:48 AM - 9:00 AM Pacific: Diagnostic SNP marker development for the detection and differentiation of the Central American locust, Schistocerca piceifrons, and sister species American bird grasshopper, Schistocerca americana, along the US-Mexico border. Presenting Author: Mason Clark- Texas A&M University. Jackson B. Linde- Texas A&M University. Eliyashaib James- Texas A&M University. Maeva Techer (she/her/hers)- Texas A&M University. Dmitry Kurouski- Texas A&M University. Spencer Behmer- Texas A&M University. Hojun Song- Texas A&M University. Greg Sword- Texas A&M University - Mason Clark; Jackson B. Linde; Eliyashaib James; Maeva Techer (she/her/hers); Dmitry Kurouski; Spencer Behmer; Hojun Song; Greg Sword
9:00 AM - 9:12 AM Pacific: Identification of native and invasive fire ants in southern New Mexico using DNA fingerprinting and lateral flow immunoassay techniques. Presenting Author: Tiffany A. Johnson- New Mexico Department of Agriculture. Brad Lewis- New Mexico Department of Agriculture AES. Stephen Hanson- New Mexico State University, EPPWS - Tiffany A. Johnson; Brad Lewis; Stephen Hanson
9:12 AM - 9:24 AM Pacific: Break –
9:24 AM - 9:36 AM Pacific: Identifying hotspots of insect invasiveness in North America. Presenting Author: Claudia Nunez-Penichet- Virginia Polytechnic Institute and State University. Haldre Rogers- Virginia Tech - Claudia Nunez-Penichet; Haldre Rogers
9:36 AM - 9:48 AM Pacific: It's getting hot in here: Detecting a thermosensory gene in honeybees. Presenting Author: Megha Majoe, PhD- Marquette University. Chelsea Cook- Marquette University. Kerrigan Tobin- Marquette University - Megha Majoe, PhD; Chelsea Cook; Kerrigan Tobin
9:48 AM - 10:00 AM Pacific: Molecular approaches for enhanced detection and identification of Leishmania parasites in endemic hot spots of Dir Lower, Khyber Pukhtunkhwa, Pakistan. Presenting Author: Naveeda Akhtar Qureshi- Quaid-i-Azam University - Naveeda Akhtar Qureshi
10:00 AM - 10:12 AM Pacific: Precision pest management: Spatiotemporal modeling of insecticide resistance evolution in Colorado potato beetle. Presenting Author: Sean Dennis Schoville- University of Wisconsin. Russell L. Groves, PhD- University of Wisconsin. Yolanda Chen (she/her/hers)- University of Vermont. Jun Zhu- University of Wisconsin-Madison. Nursultan Azhimuratov- University of Wisconsin-Madison. Juan Francisco Mandujano Reyes- University of Wisconsin-Madison - Sean Dennis Schoville; Russell L. Groves, PhD; Yolanda Chen (she/her/hers); Jun Zhu; Nursultan Azhimuratov; Juan Francisco Mandujano Reyes
10:12 AM - 10:24 AM Pacific: Break -
10:24 AM - 10:36 AM Pacific: Promoting native bee conservation through ecosystem services provided by combining solar panel farms and non-prairie government easements. Presenting Author: Audra Hinson (she/her/hers)- USDA-ARS. Greg McCarty- USDA Agricultural Research Service, Hydrology and Remote Sensing Laboratory. Cathleen Hapeman- USDA Agricultural Research Service, Hydrology and Remote Sensing Laboratory. Ling Du- University of Maryland. George Ogilvie-Russell- ORISE-USDA. Christopher Sichko- USDA Economic Research Service. Karen Maguire- USDA Economic Research Service - Audra Hinson (she/her/hers); Greg McCarty; Cathleen Hapeman; Ling Du; George Ogilvie-Russell; Christopher Sichko; Karen Maguire
10:36 AM - 10:48 AM Pacific: Recent additions to the adventive weevil fauna of Canada (Coleoptera: Curculionoidea). Presenting Author: Pat Bouchard (he/him/his)- Canadian National Collection of Insects, Arachnids and Nematodes. Robert Anderson- Canadian Museum of Nature. Hume Douglas- Canadian National Collection of Insects, Arachnids and Nematodes. Mikko Pentinsaari- Canadian National Collection of Insects, Arachnids and Nematodes - Pat Bouchard (he/him/his); Robert Anderson; Hume Douglas; Mikko Pentinsaari
10:48 AM - 11:00 AM Pacific: Recovery of native ant assemblages following the landscape-scale removal of the Argentine ant. Presenting Author: David Holway- University of California. Ida Naughton- University of California, Berkeley. Neil Tsutsui- University of California, Berkeley - David Holway; Ida Naughton; Neil Tsutsui
11:00 AM - 11:12 AM Pacific: Small project, large impact: A case study of localized tick collection across an urbanized landscape in Lynchburg, Virginia. Presenting Author: Erin L. Heller- Randolph College. Gracie Oliver- Randolph College. Ethan Caldwell- Randolph College. Sam Hey- Randolph College. Addison Compton- Randolph College. LezLye Mason- Randolph College - Erin L. Heller; Gracie Oliver; Ethan Caldwell; Sam Hey; Addison Compton; LezLye Mason
11:12 AM - 11:24 AM Pacific: Studies in the evolution of Noctuoidea: An integrated approach. Presenting Author: Jose I. Martinez- Florida Museum of Natural History. Nicholas Homziak- Florida Museum of Natural History, University of Florida. David Plotkin- University of Florida. Christian Couch- University of Florida. Taylor Pierson (she/her/hers)- University of Florida. Yi-Ming Weng- Okinawa Institute of Science & Technology Graduate University. Alberto Zilli- Natural History Museum in London. Oscar Rojas- Universidad Distrital. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History. Jacqueline Miller- McGuire Center for Lepidoptera & Biodiversity - Jose I. Martinez; Nicholas Homziak; David Plotkin; Christian Couch; Taylor Pierson (she/her/hers); Yi-Ming Weng; Alberto Zilli; Oscar Rojas; Akito Y. Kawahara, Ph.D.; Jacqueline Miller
11:24 AM - 11:36 AM Pacific: Survey and evaluation of the effects of feed-through insecticides on dung beetles in New York State cattle pastures. Presenting Author: Kenneth L. Wise- Cornell University. Bryony Sands-

University of Vermont. Hannah Tolz- Cornell University-NYS Integrated Pest Management Program - Kenneth L. Wise; Bryony Sands; Hannah Tolz
11:36 AM - 11:48 AM Pacific: Food preferences of the little fire ant (Wasmannia auropunctata) in Hawaii. Presenting Author: Aradhana Shrestha- University of Hawaii. Nikku Bhetwal- University of Hawaii. Beenu Khadka- University of Hawaii - Aradhana Shrestha; Nikku Bhetwal; Beenu Khadka
11:48 AM - 12:00 PM Pacific: Brains, flight muscles, and mandibular glands: Sex-specific trade-offs in Nasonia wasps. Presenting Author: Mphatso Langa- University of New Hampshire. Holly Hoag- University of New Hampshire. Nhu Pham- University of New Hampshire. Reese Hunter Yeatman- University of New Hampshire. Monique Raymond (she/her/hers)- UNH. Thomas van de Kamp- Karlsruhe Institute of Technology. Jack Werren- University of Rochester. Istvan Miko- University of New Hampshire - Mphatso Langa; Holly Hoag; Nhu Pham; Reese Hunter Yeatman; Monique Raymond (she/her/hers); Thomas van de Kamp; Jack Werren; Istvan Miko

Title: 10-min: P-IE, Biocontrol

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E145, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:12 AM Pacific: A survey on egg parasitism of the native green shield bug, Palomena prasina L.and exotic brown marmorated stink bug, Halyomorpha halys(Stl) (Hemiptera: Pentatomidae) in northwest Trkiye. Presenting Author: I. Oguz Ozdemir (he/him/his)- Oregon State University. M. Fatih Silbir- Sakarya university of applieed sciences, faculty of agriculture, dept. of plant protection. Eren Karadag- Sakarya university of applied sciences, faculty of agriculture, dept. of plant protection. Abdullatif Alaybay- Sakarya university of applied sciences, faculty of agriculture, dept. of plant protection. Vaughn M. Walton- Oregon State University. Goksel Ozer- Bolu Abant Izzetli Baysal University. Francesco Tortorici- University of Torino Department of Agricultural, Forest, and Food Sciences (DISAFA). Furkan Dogan- Sakarya university of applied sciences, faculty of agriculture, dept. of plant protection - I. Oguz Ozdemir (he/him/his); M. Fatih Silbir; Eren Karadag; Abdullatif Alaybay; Vaughn M. Walton; Goksel Ozer; Francesco Tortorici; Furkan Dogan
8:12 AM - 8:24 AM Pacific: Are reduced fertilization and biological control compatible for pest regulation?. Presenting Author: Ruo-han Ma- Shandong Key Laboratory for Green Prevention and Control of Agricultural Pests. Nicolas Desneux- Universite Cte d'Azur, INRAE, UMR ISA, 06000 Nice, France. Anne-Violette Lavoir- Universite Cte d'Azur, INRAE, UMR ISA, 06000 Nice, France. Peng Han (he/him/his)- Institute of Biodiversity, School of Ecology and Environmental Science, Yunnan University, 650504 Kunming, China - Ruo-han Ma; Nicolas Desneux; Anne-Violette Lavoir; Peng Han (he/him/his)
8:24 AM - 8:36 AM Pacific: Assessing the establishment of three parasitoids released as biological control agents of the invasive emerald ash borer. Presenting Author: Kathryn Bloodworth- University of Maryland. Daniel Gruner- University of Maryland - Kathryn Bloodworth; Daniel Gruner
8:36 AM - 8:48 AM Pacific: Barriers to successful biological control. Presenting Author: Isabel Marez- Bartlett Tree Experts. Amber Stiller- The Ohio State University. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University. Kevin Chase- Bartlett Tree Research Lab. Jeremy Slone- Bartlett Tree Experts - Isabel Marez; Amber Stiller; Samuel F. Ward, M.S., Ph.D. (he/him/his); Kevin Chase; Jeremy Slone
8:48 AM - 9:00 AM Pacific: Biological control of poinsettia thrips, Echinothrips americanus Morgan (Thysanoptera: Thripidae), on lima bean using the ghost ant, Tapinoma melanocephalum (Fabricius) (Hymenoptera: Formicidae). Presenting Author: Young-gyun Park- University of Florida. Katherine Houben- University of Florida. Cindy McKenzie- USDA-ARS. Lance Osborne- University of Florida - Young-gyun Park; Katherine Houben; Cindy McKenzie; Lance Osborne
9:00 AM - 9:12 AM Pacific: Biological-insecticidal integration for managing Pangaeus bilineatus(Hemiptera: Cydnidae) and aflatoxin risk in peanuts. Presenting Author: James Kofi Danso- Fort Valley State University. Raegan Holton- Premium Peanut. David Shapiro-Ilan (he/him/his)- USDA-ARS. Emediong Enobong- Fort Valley State University. George Mbata- Fort Valley State University - James Kofi Danso; Raegan Holton; David Shapiro-Ilan (he/him/his); Emediong Enobong; George Mbata
9:12 AM - 9:24 AM Pacific: Break -
9:24 AM - 9:36 AM Pacific: Drivers of Niphograpta albiguttalis establishment in the southern U.S.: Insights for water hyacinth biocontrol. Presenting Author: Flaminia Mariani- Louisiana State University. Rodrigo Diaz (he/him/his)- Louisiana State University. Paul Pratt- USDA-ARS-IPRL - Flaminia Mariani; Rodrigo Diaz (he/him/his); Paul Pratt

9:36 AM - 9:48 AM Pacific: Effect of different irrigation water types on plant growth and endophytic fungal symbiont. Presenting Author: Muhammad Afzal- University of Sargodha. Muhammad Ullah- University of Sargodha, Sagodha. Muhammad Arshad- University of Sargodha - Muhammad Afzal; Muhammad Ullah; Muhammad Arshad
9:48 AM - 10:00 AM Pacific: Field and laboratory assessment of fall armyworm egg parasitoids: Evaluating interspecific competition and the influence of floral resources. Presenting Author: Ashley Tessnow- Oak Ridge Institute for Science and Education (ORISE). Robert L. Meagher, Jr. (he/him/his)- USDA-ARS - Ashley Tessnow; Robert L. Meagher, Jr. (he/him/his)
10:00 AM - 10:12 AM Pacific: Functional response and evaluation of Neoseiulus californicus as biological control agent of Tetranychus urticae. Presenting Author: Hasan Fuad El Taj- Hajee Mohammad Danesh Science and Technology University. Dolon Rani Das- Hajee Mohammad Danesh Science and Technology University, Ban. Md Alamgir Hossain - Hasan Fuad El Taj; Dolon Rani Das; Md Alamgir Hossain
10:12 AM - 10:24 AM Pacific: Host suitability of three Trichopoda pennipeshost strains field-collected from Nezara viridula, Anasa tristis, and Leptoglossus phyllopus with their associated phylogeny. Presenting Author: Lillie Rooney- University of Florida. Shova Mishra- North Carolina State. Norman Leppla, BCE- University of Florida - Lillie Rooney; Shova Mishra; Norman Leppla, BCE
10:24 AM - 10:36 AM Pacific: Break -
10:36 AM - 10:48 AM Pacific: How does early planting of sunflower affect parasitism of the red sunflower seed weevil, Smicronyx fulvus?. Presenting Author: Jeffrey Daniel Cluever- USDA-ARS. Robert Kula- Systematic Entomology Laboratory, USDA-ARS. Phillip Shults- USDA-ARS. Angelia Hogness- USDA-ARS. Jarrad Prasifka- USDA-ARS - Jeffrey Daniel Cluever; Robert Kula; Phillip Shults; Angelia Hogness; Jarrad Prasifka
10:48 AM - 11:00 AM Pacific: Integrating biological control and maintenance control to improve management of giant salvinia. Presenting Author: Ian A. Knight- USACE-ERDC. Felix Bingham- US Army Engineer Research Development Center. Christopher R. Mudge- US Army Engineer Research Development Center - Ian A. Knight; Felix Bingham; Christopher R. Mudge
11:00 AM - 11:12 AM Pacific: Laboratory assessment of Telenomus remus (Hymenoptera: Scelionidae) as a potent biocontrol agent against fall armyworm Spodoptera frugiperda (Lepidoptera: Noctuidae) in maize growing areas of District Faisalabad, Pakistan. Presenting Author: Zain Ul Abdin- University of Agriculture. Jam Nazeer Ahmad, n/a- Entomology, University of Agriculture (Faisalabad), Pakistan. Manahal Siddique, n/a- Entomology, University of Agriculture (Faisalabad), Pakistan. Waseem Akram- Entomology, University of Agriculture (Faisalabad), Pakistan. Rao Sohail Ahmad Khan, n/a- CABB, University of Agriculture, Fasialabad, Pakistan. Syeda Eishah Tu Razia- Entomology, University of Agriculture (Faisalabad), Pakistan. Urooj Afzal Chughtai- Entomology, University of Agriculture (Faisalabad), Pakistan. Muhammad Umair Ul Sial- Entomology, University of Agriculture (Faisalabad), Pakistan. Muhammad Tayyib- Entomology, University of Agriculture (Faisalabad), Pakistan - Zain Ul Abdin; Jam Nazeer Ahmad, n/a; Manahal Siddique, n/a; Waseem Akram; Rao Sohail Ahmad Khan, n/a; Syeda Eishah Tu Razia; Urooj Afzal Chughtai; Muhammad Umair Ul Sial; Muhammad Tayyib
11:12 AM - 11:24 AM Pacific: Predatory mite release by drones and date fruit bunch application for spider mite management in date palms. Presenting Author: Bodil Cass- University of California. Makayla Tjon- University of California-Riverside. Sean Halloran- University of California, Riverside. Thomas Perring- University Of California - Bodil Cass; Makayla Tjon; Sean Halloran; Thomas Perring
11:24 AM - 11:36 AM Pacific: Rearing the spotted wing drosophila parasitoids Ganaspis kimoroumand Leptopolina japonica on an artificial diet. Presenting Author: Maggie Freeman- Oregon State University. Christopher Adams- Oregon State University - Maggie Freeman; Christopher Adams
11:36 AM - 11:48 AM Pacific: Taxonworks - a chalcidoid/host database that needs biocontrol help!. Presenting Author: John M. Heraty- University of California. James Woolley- Texas A&M University. Roger Burks- University of California, Riverside. Matthew J. Yoder (he/him/his)- Illinois Natural History Survey - John M. Heraty; James Woolley; Roger Burks; Matthew J. Yoder (he/him/his)
11:48 AM - 12:00 PM Pacific: The effect of sweet alyssum planting arrangement on twospotted spider mite management with the predatory mite Neoseiulus californicusin organic strawberries in Florida. Presenting Author: Elena Marion Rhodes- University of Florida. Joseph Gonsiorek (they/them/theirs)- University of Florida. Oscar Liburd- University of Florida - Elena Marion Rhodes; Joseph Gonsiorek (they/them/theirs); Oscar Liburd

Title: 10-min: P-IE, Ecology

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems

Presentations:
8:00 AM - 8:12 AM Pacific: Don't put all your eggs in one basket: Endangered Taylor's checkerspot butterfly (Euphydryas editha taylori) oviposition choice test. Presenting Author: Kelley N. Asselin- Oregon State University - Kelley N. Asselin
8:12 AM - 8:24 AM Pacific: Effect of decreased snowpack on a rare butterfly's host plant. Presenting Author: Rachael Bonoan- Providence College - Rachael Bonoan
8:24 AM - 8:36 AM Pacific: Engaging Florida sugarcane growers to understand population trends of the lesser cornstalk borer. Presenting Author: Matthew VanWeelden- University of Florida. Christian Kammerer- University of Florida - Matthew VanWeelden; Christian Kammerer
8:36 AM - 8:48 AM Pacific: From the laboratory to the field: Warming temperatures do not consistently exacerbate pest pressure across 38 agricultural arthropod species. Presenting Author: Mia Kanako Lippey (she/her/hers)- University of California. Jay Rosenheim- UC Davis. Emily K. Meineke- UC Davis, Department of Entomology and Nematology - Mia Kanako Lippey (she/her/hers); Jay Rosenheim; Emily K. Meineke
8:48 AM - 9:00 AM Pacific: Fungal diversity in the mycangium of an ambrosia beetle Xylosandrus crassiusculus (Coleoptera: Curculionidae) in Japan during their late dispersal seasons. Presenting Author: Syaiful Amri Saragih- Universitas Muhammadiyah Sumatera Utara - Syaiful Amri Saragih
9:00 AM - 9:12 AM Pacific: Break -
9:12 AM - 9:24 AM Pacific: How do organismal traits control climatic ranges in bumble bees?. Presenting Author: Erica Sarro Gustilo, PhD- University of Washington. Berry Brosi- University of Washington - Erica Sarro Gustilo, PhD; Berry Brosi
9:24 AM - 9:36 AM Pacific: How weather and landscape interact over time to influence Colorado potato beetle population dynamics. Presenting Author: Abigail L. Cohen- Michigan State University. Zsofia Szendrei- Michigan State University. Russell L. Groves, PhD- University of Wisconsin. Benjamin Bradford- University of Wisconsin - Abigail L. Cohen; Zsofia Szendrei; Russell L. Groves, PhD; Benjamin Bradford
9:36 AM - 9:48 AM Pacific: Impacts of climate warming and parasitism on Phanaeusdung beetles. Presenting Author: Katie Marie Harris- University of Texas. Amanda Koltz- University of Texas at Austin - Katie Marie Harris; Amanda Koltz
9:48 AM - 10:00 AM Pacific: Invertebrates in stemflow can provide a nutritional link between forest canopies and forest floors. Presenting Author: Natalie A. Clay- University of Arkansas. Madison Britton- Louisiana Tech University. Katy Limpert- Mississippi State University. Courtney Siegert- Mississippi State University - Natalie A. Clay; Madison Britton; Katy Limpert; Courtney Siegert
10:00 AM - 10:12 AM Pacific: Investigating lightning-struck trees as a refuge for endemic populations of mountain pine beetle (Dendroctonus ponderosae) .. Presenting Author: Ella Maddi- University of Minnesota - Ella Maddi
10:12 AM - 10:24 AM Pacific: Break -
10:24 AM - 10:36 AM Pacific: Subterranean biocontrol: Interactions between Bacillus and beneficial nematodes modulate larval mortality and recruitment of native soil biota. Presenting Author: Shokoofeh Kamali (she/her/hers)- University of Florida. Alexandros Dritsoulas- University of Florida. Erik Roldan (he/him/his)- Corteva Agriscience. Lauren Diepenbrock- University of Florida. Larry Duncan- University of Florida. Lukasz Stelinski- University of Florida - Shokoofeh Kamali (she/her/hers); Alexandros Dritsoulas; Erik Roldan (he/him/his); Lauren Diepenbrock; Larry Duncan; Lukasz Stelinski
10:36 AM - 10:48 AM Pacific: Tachinids attack: Inferring the relative importance of host phylogeny and ecology on parasitism by the parasitoid flies (Tachinidae: Diptera). Presenting Author: Christian Joseph Connors- University of Nevada. Angela Smilanich- University of Nevada, Reno. Matthew Forister (he/him/his)- University of Nevada. Lee Dyer- University of Nevada, Reno. John O. Stireman- Wright State University - Christian Joseph Connors; Angela Smilanich; Matthew Forister (he/him/his); Lee Dyer; John O. Stireman
10:48 AM - 11:00 AM Pacific: The impact of symbiotic yeasts on bee pathogen growth. Presenting Author: Danielle Rutkowski (she/her/hers)- Iowa State University. Amy Hazemoto- University of California, Davis. Rachel Vannette- University of California, Davis. Amber Crowley-Gall (she/her/hers)- Iowa State University - Danielle Rutkowski (she/her/hers); Amy Hazemoto; Rachel Vannette; Amber Crowley-Gall (she/her/hers)
11:00 AM - 11:12 AM Pacific: Thermal variation influences stress response, leading to differential growth and reproductive potential of Chrysodeixis includens. Presenting Author: Rahul Debnath, PhD- University of Arkansas - Rahul Debnath, PhD
11:12 AM - 11:24 AM Pacific: To a loss of independence- genomic insights into a pest fruit fly-bacterial mutualism. Presenting Author: Thorsten Einar Hansen, PhD- USDA-ARS. Sheina Sim (she/her/hers)- USDA-ARS. Charles Mason- USDA ARS - Thorsten Einar Hansen, PhD; Sheina Sim (she/her/hers); Charles Mason
11:24 AM - 11:36 AM Pacific: To bean, or not to bean: Arthropod communities associated with faba beans (Vicia faba) in the Mid-Atlantic region. Presenting Author: Joseph Leo- Virginia Polytechnic Institute and State University. Maria Balota- Virginia Tech. Tim Bryant- Virginia Polytechnic Institute and State University. Thomas Kuhar- Virginia Polytechnic Institute and State University. Kemper Sutton- Virginia Polytechnic Institute and State

University. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University - Joseph Leo; Maria Balota; Tim Bryant; Thomas Kuhar; Kemper Sutton; Alejandro Del-Pozo
11:36 AM - 11:48 AM Pacific: Trait shifts and trophic rifts: Biodiversity-driven leaf trait plasticity modulates interactions with tree consumers. Presenting Author: Morgan Thompson- University of Maryland. John Parker- Smithsonian Environmental Research Center. Catherine Fahey- Smithsonian Environmental Research Center. Jamie Pullen- Smithsonian Environmental Research Center. Kelsey McGurrin- University of Maryland. Lauren Schmitt- Kenyon College. Eric Griffin- Warren Wilson College. Karin Burghardt- University of Maryland - Morgan Thompson; John Parker; Catherine Fahey; Jamie Pullen; Kelsey McGurrin; Lauren Schmitt; Eric Griffin; Karin Burghardt

Title: 10-min: P-IE, IPM - Field Crops

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:12 AM Pacific: Update on monitoring efforts and management of the Southwestern corn borer in the U.S. Presenting Author: Debora Montezano, PhD- Corteva Agriscience. Amit Sethi- Corteva Agriscience. Analiza Alves- Corteva Agriscience. Renata Ramos Pereira- Corteva Agriscience. Andre Crespo- Corteva Agriscience - Debora Montezano, PhD; Amit Sethi; Analiza Alves; Renata Ramos Pereira; Andre Crespo
8:12 AM - 8:24 AM Pacific: Bt resistance in a billion-dollar bug, European corn borer in Minnesota and Wisconsin. Presenting Author: Fei Yang- University of Minnesota. Tatum Dwyer- University of Minnesota. Juan Luis Jurat-Fuentes- University of Tennessee. Graham Head- Bayer Crop Science - Fei Yang; Tatum Dwyer; Juan Luis Jurat-Fuentes; Graham Head
8:24 AM - 8:36 AM Pacific: Comparing actual and perceived soybean defoliation with field surveys. Presenting Author: Igor Schardong- Clemson University. Dominic Reisig- North Carolina State University. Ivair Valmorbida- University of Missouri. Alexis Alsdorf- North Carolina State University - Igor Schardong; Dominic Reisig; Ivair Valmorbida; Alexis Alsdorf
8:36 AM - 8:48 AM Pacific: Efficacy of biological, botanical and chemical insecticides on controlling corn earworm in hemp fields. Presenting Author: Felipe Colares Batista- University of Kentucky. Zenaida Viloria- University of Kentucky. Raul T. Villanueva- University of Kentucky - Felipe Colares Batista; Zenaida Viloria; Raul T. Villanueva
8:48 AM - 9:00 AM Pacific: Environmental DNA-based detection of arthropod pests in foliage and subterranean habitats across managed landscapes. Presenting Author: Jonathan Lee-Rodriguez- The Ohio State University. Ashley Leach- Ohio State University. Luis Canas- The Ohio State University. Christopher M. Ranger (he/him/his)- USDA-ARS. Andy Michel- Ohio State University. Christian Krupke- Purdue University - Jonathan Lee-Rodriguez; Ashley Leach; Luis Canas; Christopher M. Ranger (he/him/his); Andy Michel; Christian Krupke
9:00 AM - 9:12 AM Pacific: Evaluating planting date and density for dectes stem borer management in South Dakota. Presenting Author: Philip Rozeboom- South Dakota State University. Bradley L. McManus- South Dakota State University. Adam Varenhorst- South Dakota State University - Philip Rozeboom; Bradley L. McManus; Adam Varenhorst
9:12 AM - 9:24 AM Pacific: Impact of seed-blend and structured refuges on Helicoverpa zeamating success and fecundity in Bt and non-Bt corn. Presenting Author: Alexis Alsdorf- North Carolina State University. Dominic Reisig- North Carolina State University. Charles Kwadha- North Carolina State University. Coby Schal- North Carolina State University. Anders Huseth- North Carolina State University. Francis Reay-Jones- Clemson University - Alexis Alsdorf; Dominic Reisig; Charles Kwadha; Coby Schal; Anders Huseth; Francis Reay-Jones
9:24 AM - 9:36 AM Pacific: Break -
9:36 AM - 9:48 AM Pacific: Increasing soybean pest management from 2011-2024: From risk aversion or insect pressure?. Presenting Author: Fred R. Musser (he/him/his)- Mississippi State University - Fred R. Musser (he/him/his)
9:48 AM - 10:00 AM Pacific: Influence of different spacing and nitrogen levels on incidence of pink bollworm in cotton during Kharif 2023. Presenting Author: Ashish Kamal Parisapogu- Acharya N. G. Ranga Agricultural University - Ashish Kamal Parisapogu
10:00 AM - 10:12 AM Pacific: Integrating active and passive remote sensing data for quantifying wheat stem sawfly infestation in Montana. Presenting Author: Sudhir Payare- Montana State University. Jose Ricardo Lima Pinto, PhD- Montana State University - Sudhir Payare; Jose Ricardo Lima Pinto, PhD
10:12 AM - 10:24 AM Pacific: Monitoring efforts for lepidopteran species. Presenting Author: Renata Ramos Pereira- Corteva Agriscience. Andre Crespo- Corteva Agriscience. Analiza Alves- Corteva Agriscience. Amit

Sethi- Corteva Agriscience. Debora Montezano, PhD- Corteva Agriscience - Renata Ramos Pereira; Andre Crespo; Analiza Alves; Amit Sethi; Debora Montezano, PhD
10:24 AM - 10:36 AM Pacific: Break -
10:36 AM - 10:48 AM Pacific: New insecticides for use in California safflower - Areawide IPM benefits. Presenting Author: Nicholas Clark- University of California. Pahoua Yang- University of California. Walter Martinez- County of Tulare. Adela Juarez- University of California - Nicholas Clark; Pahoua Yang; Walter Martinez; Adela Juarez
10:48 AM - 11:00 AM Pacific: Optimizing trap placement for improved Helicoverpa zeamonitoring in sweet corn. Presenting Author: John W. Mahas- Cornell University. Kelly Hamby- University of Maryland. Christophe Duplais- Cornell University. Daniel Gilrein- Cornell Univ Coop Extension of Suffolk County. David Owens- University of Delaware. Thomas Kuhar- Virginia Polytechnic Institute and State University. Brian Currin- Virginia Tech. Heather Grab (she/her/hers)- Pennsylvania State University. Grace Tiwari- Pennsylvania State University. Brian Nault- Cornell University - John W. Mahas; Kelly Hamby; Christophe Duplais; Daniel Gilrein; David Owens; Thomas Kuhar; Brian Currin; Heather Grab (she/her/hers); Grace Tiwari; Brian Nault
11:00 AM - 11:12 AM Pacific: Techniques for modeling the risk of resistance to Bt-toxins at the county level. Presenting Author: Michael A. Caprio- Mississippi State University - Michael A. Caprio
11:12 AM - 11:24 AM Pacific: Is push-pull technology ready for farmer fields in vegetable production systems? Insights from smallholder cabbage production in Tanzania. Presenting Author: Stephen Othim- World Vegetable Center. Boniface S. Boni. Nickson Mlowe. Judith Assenga. Raphael Mallogo. Daniel Munyao Mutyambai (he/him/his)- International Center of Insect Physiology and Ecology. Komivi S. Akutse, Ph.D.- International Center of Insect Physiology and Ecology. Fekadu F. Dinssa. Srinivasan Ramasamy- Flagship Program Leader for Safe and Sustainable Value Chains - Stephen Othim; Boniface S. Boni; Nickson Mlowe; Judith Assenga; Raphael Mallogo; Daniel Munyao Mutyambai (he/him/his); Komivi S. Akutse, Ph.D.; Fekadu F. Dinssa; Srinivasan Ramasamy
11:24 AM - 11:36 AM Pacific: Effects of moisture on behavior, fitness, and management of Listronotus maculicollis Kirby. Presenting Author: Zachary Newsome- Pennsylvania State University - Zachary Newsome
11:36 AM - 11:48 AM Pacific: Impact of insecticidal seed treatments on early-season thrips and plant growth in ThryvOn and non-ThryvOn Cotton. Presenting Author: Meenakshi Berwal- Texas A&M University. Suhas Vyavhare- Texas A&M University - Meenakshi Berwal; Suhas Vyavhare
11:48 AM - 12:00 PM Pacific: Updates on USDA's biotechnology regulations in 2025. Presenting Author: Katharine Swoboda Bhattarai- USDA-APHIS - Katharine Swoboda Bhattarai

Title: Student Regular 10-min: P-IE, General 1

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E146, OCC
Organizers:
Categories: Student Regular 10-Minute Presentation; Plant-Insect Ecosystems; Student
Tracks: Student Regular 10-Minute Presentation; Plant-Insect Ecosystems; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Anthropogenic climate change and its effects on herbivorous arthropods within the pinyon pine-juniper community of the Great Basin. Presenting Author: Chloe Collier-Allen (she/her/hers)- University of Nevada - Chloe Collier-Allen (she/her/hers)
8:12 AM - 8:24 AM Pacific: Bees, viruses, pathogens, oh my: Are pumpkin fields at risk of viral spread?. Presenting Author: Courtney May Walls (she/her/hers)- Virginia Polytechnic Institute and State University. Thomas Kuhar- Virginia Polytechnic Institute and State University. Steve Rideout- Virginia Tech. James Wilson- Virginia Tech. Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University - Courtney May Walls (she/her/hers); Thomas Kuhar; Steve Rideout; James Wilson; Chin-Cheng Scotty Yang
8:24 AM - 8:36 AM Pacific: Can sweet alyssum flowers (Lobularia maritima) enhance the biological control of diamondback moth (Plutella xylostella) in commercial brassica farms?. Presenting Author: Amna Ghani (she/her/hers)- Clemson University. Tom Bilbo- Clemson University - Amna Ghani (she/her/hers); Tom Bilbo
8:36 AM - 8:48 AM Pacific: Cover crops reduce yields but not pest populations in rice production. Presenting Author: Christine Gambino- Louisiana State University. Michael Stout- Louisiana State University - Christine Gambino; Michael Stout
8:48 AM - 9:00 AM Pacific: Decoding cultivar susceptibility: Aphid performance and plant defense traits in crape myrtles. Presenting Author: Delaney S. Frary- Ashland University. Cynthia Perkovich- Ashland University. Karla M. Addesso- Tennessee State University - Delaney S. Frary; Cynthia Perkovich; Karla M. Addesso
9:00 AM - 9:12 AM Pacific: Break -

9:12 AM - 9:24 AM Pacific: Following the flight: Tracking the migration of the army cutworm moth. Presenting Author: Taylor Kennedy- Montana State University. Robert Peterson- Montana State University. Robb Diehl- USGS - Taylor Kennedy; Robert Peterson; Robb Diehl
9:24 AM - 9:36 AM Pacific: Functional immune responses of bumble bees in response to parasitism and medicinal diet. Presenting Author: April E. Sharp (she/her/hers)- North Carolina State University. Lynn Adler- University of Massachusetts. Rebecca E. Irwin- North Carolina State University - April E. Sharp (she/her/hers); Lynn Adler; Rebecca E. Irwin
9:36 AM - 9:48 AM Pacific: Response of winter canola cultivars to cabbage seedpod weevils. Presenting Author: Gifty Kwakyewaa Bempong- University of Idaho. Sanford Eigenbrode- University of Idaho. Kamal K. Khadka- University of Idaho. Subodh Adhikari- Utah State University - Gifty Kwakyewaa Bempong; Sanford Eigenbrode; Kamal K. Khadka; Subodh Adhikari
9:48 AM - 10:00 AM Pacific: Season, habitat characteristics, and forest thinning shape bee and blooming plant communities in an inland PNW forest. Presenting Author: Scott Mitchell- Oregon State University. Sandra Debano- Oregon State University. Mary M. Rowland- U.S. Forest Service, Pacific Northwest Research Station. Skyler Burrows- Utah State University. Ryan Nielson- Eagle Environmental, Inc. - Scott Mitchell; Sandra Debano; Mary M. Rowland; Skyler Burrows; Ryan Nielson
10:00 AM - 10:12 AM Pacific: Susceptibility of evolutionarily native and naive true fir species to Adelges piceae. Presenting Author: Gissella Betzavel Quiroga- University of Washington. Gary Chastagner- Washington State University. Melissa Fischer- U.S. Forest Service. Laura Lowrey- U.S. Forest Service. Iral Ragenovich- USDA-Forest Service. Richard Sniezko- U.S. Forest Service. Elizabeth Willhite- USDA Forest Service. Patrick Tobin- University of Washington - Gissella Betzavel Quiroga; Gary Chastagner; Melissa Fischer; Laura Lowrey; Iral Ragenovich; Richard Sniezko; Elizabeth Willhite; Patrick Tobin
10:12 AM - 10:24 AM Pacific: The management of major cocoa pests particularly mirids and shield bugs in Ghana. Presenting Author: Martin Mensah Andoh- University of Energy and Natural Resources - Martin Mensah Andoh
10:24 AM - 10:36 AM Pacific: Break -
10:36 AM - 10:48 AM Pacific: Too much or not enough? Optimizing intercropped sweet alyssum for lettuce pest biological control. Presenting Author: Briley F. Mullin (she/her/hers)- University of California. Daniel Karp- University of California Davis. Daniel Hasegawa- USDA-ARS. Eric Brennan- UDSA ARS. Ian Grettenberger- University of California - Briley F. Mullin (she/her/hers); Daniel Karp; Daniel Hasegawa; Eric Brennan; Ian Grettenberger
10:48 AM - 11:00 AM Pacific: Trichoderma-mediated plant resilience against insect herbivory. Presenting Author: Sahil Vinod Pawar- Pennsylvania State University. Bijay Subedi- Pennsylvania State University. Michelle Peiffer- Penn state university. Gary Felton- Pennsylvania State University - Sahil Vinod Pawar; Bijay Subedi; Michelle Peiffer; Gary Felton
11:00 AM - 11:12 AM Pacific: Uncovering if variation in task partitioning in Aphaenogaster ants underlies variation in effective seed dispersal. Presenting Author: Rosebelle A. Ines- Binghamton University. Kathy Fridrich- Binghamton University, SUNY. Kirsten M. Prior- Binghamton University - Rosebelle A. Ines; Kathy Fridrich; Kirsten M. Prior
11:12 AM - 11:24 AM Pacific: Variation in cuticular hydrocarbons (CHCs) in a seed-dispersing ant complex - a trait linking climate adaptation to behavior that impacts ecological communities. Presenting Author: Christopher A. DeAngelis- Binghamton University. Diego Salazar Amoretti- Binghamton University. Kirsten M. Prior- Binghamton University. Thomas H.Q. Powell- Binghamton University - Christopher A. DeAngelis; Diego Salazar Amoretti; Kirsten M. Prior; Thomas H.Q. Powell
11:24 AM - 11:36 AM Pacific: Wheat curl mite (Aceria tosichella) survival on oat (Avena sativa) varieties: Evidence of non-host status and evolutionary implications. Presenting Author: Madeline Jill Morrison- University of Nebraska-Lincoln. Shaonpius Mondal- University of Nebraska-Lincoln - Madeline Jill Morrison; Shaonpius Mondal
11:36 AM - 11:48 AM Pacific: Do root microbes improve crop protection by altering aphid behavior?. Presenting Author: Natalie Duvanenko- Purdue University. Laramy Enders- Purdue University - Natalie Duvanenko; Laramy Enders

Title: 10-min: SysEB, Biodiversity 1 - Guarding Our Natural Heritage

Time: **8:00 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:

8:00 AM - 8:12 AM Pacific: A comprehensive insect nomenclature in TaxonWorks: Time to partner and reach new milestones. Presenting Author: Matthew J. Yoder (he/him/his)- Illinois Natural History Survey. Dmitry Dmitriev- Illinois Natural History Survey. Deborah Paul- Species File Group, University of Illionis Urbana-Champaign. Geoff Ower- Illinois Natural History Survey. Yuri Roskov- Illinois Natural History Survey. R. Edward Dewalt- Illinois Natural History Survey - Matthew J. Yoder (he/him/his); Dmitry Dmitriev; Deborah Paul; Geoff Ower; Yuri Roskov; R. Edward Dewalt
8:12 AM - 8:24 AM Pacific: A new estimate of global bee species richness. Presenting Author: Michael C. Orr-Stuttgart Naturkundemuseum. Amy-Marie Gilpin- Western Sydney University. Nikolas Johnston- University of Wollongong. Damien Esquerre- University of Wollongong. Alice Hughes- University of Hong Kong. John Ascher (he/him/his)- National University of Singapore. James Dorey (he/him/his)- University of Wollongong - Michael C. Orr; Amy-Marie Gilpin; Nikolas Johnston; Damien Esquerre; Alice Hughes; John Ascher (he/him/his); James Dorey (he/him/his)
8:24 AM - 8:36 AM Pacific: Bee diversity in the shadows: Sampling gaps and richness estimates in Neotropical dry forests. Presenting Author: Andres F. Herrera-Motta (he/him/his)- University of Kansas. Victor Hugo Gonzalez (he/him/his)- University of Kansas. Jorge Soberon- University of Kansas - Andres F. Herrera-Motta (he/him/his); Victor Hugo Gonzalez (he/him/his); Jorge Soberon
8:36 AM - 8:48 AM Pacific: Checklist of the apoid wasps (Hymenoptera, Apoidea except Anthophila) of Canada, Alaska, and Greenland. Presenting Author: Andy Bennett- Canadian National Collection of Insects, Arachnids and Nematodes. Matthias Buck- Royal Alberta Museum - Andy Bennett; Matthias Buck
8:48 AM - 9:00 AM Pacific: Comparative analysis of the life cycles of solitary bees. Presenting Author: Brook Milligan- New Mexico State University. Ashley Rohde- New Mexico State University. Scarlet Sellers- New Mexico State University. Andre Sigal- North Dakota State University. Kendra J. Greenlee (she/her/hers)- North Dakota State University. Ellen C. Keaveny- University of Wyoming - Brook Milligan; Ashley Rohde; Scarlet Sellers; Andre Sigal; Kendra J. Greenlee (she/her/hers); Ellen C. Keaveny
9:00 AM - 9:12 AM Pacific: Diversity of pselaphine Staphylinidae in Ecuadorian cloud forests. Presenting Author: Michael S. Caterino- Clemson University - Michael S. Caterino
9:12 AM - 9:24 AM Pacific: Break -
9:24 AM - 9:36 AM Pacific: Exploring the link between insect diversity and environmental factors across Southern California. Presenting Author: Eva Sofia Horna Lowell- San Diego Natural History Museum. Rachel E. Allingham-San Diego Natural History Museum. Megan Wagner- San Diego Natural History Museum. Ellie Deer, n/a- Mikhail Ogawa Engineering. Michael Wall, PhD- Balsam Mountain Trust. Shahan Derkarabetian, PhD- San Diego Natural History Museum - Eva Sofia Horna Lowell; Rachel E. Allingham; Megan Wagner; Ellie Deer, n/a; Michael Wall, PhD; Shahan Derkarabetian, PhD
9:36 AM - 9:48 AM Pacific: Flower visitation by native bees increased after removal of honeybee hives at historic orchards of Capitol Reef National Park. Presenting Author: Lusha Tronstad, PhD- University of Wyoming. Bryan Tronstad- University of Wyoming. Tresize Tronstad- University of Wyoming. Fritz Maslan- National Park Service. Morgan Wehtje- National Park Service. Kristen Engdahl- National Park Service. Corrina Yobp- National Park Service. Daniel Jackson- National Park Service. Emily Hagerott- National Park Service. Joseph Fife- National Park Service - Lusha Tronstad, PhD; Bryan Tronstad; Tresize Tronstad; Fritz Maslan; Morgan Wehtje; Kristen Engdahl; Corrina Yobp; Daniel Jackson; Emily Hagerott; Joseph Fife
9:48 AM - 10:00 AM Pacific: Freshwater insect abundance trends vary between continents and families. Presenting Author: John F. Murphy- Queen Mary University of London. J. Iwan Jones- Queen Mary University of London. Ellie Dyer- UK Centre for Ecology and Hydrology. Ben Woodcock- UK Centre for Ecology and Hydrology. Young-Seuk Park- Kyung Hee University. Soon-Jin Hwang- Konkuk University - John F. Murphy; J. Iwan Jones; Ellie Dyer; Ben Woodcock; Young-Seuk Park; Soon-Jin Hwang
10:00 AM - 10:12 AM Pacific: Leveraging new Symbiota features to extend specimen data in existing biocollections. Presenting Author: Mark Fisher- Kansas University. K. Samanta Orellana Arevalo- Arizona State University. Edward Gilbert- Arizona State University. Nico Franz- Arizona State University. Katie Pearson-University of Kansas. Logan Wilt- University of Kansas. Nikita Salikov- University of Kansas. Lindsay Walker-University of Kansas. Gregory Post- University of Kansas - Mark Fisher; K. Samanta Orellana Arevalo; Edward Gilbert; Nico Franz; Katie Pearson; Logan Wilt; Nikita Salikov; Lindsay Walker; Gregory Post
10:12 AM - 10:24 AM Pacific: Mapping parasite and predator diversity in Asian honey bee populations. Presenting Author: Madison Sankovitz- University of Colorado. Samuel D. Ramsey- University of Colorado - Madison Sankovitz; Samuel D. Ramsey
10:24 AM - 10:36 AM Pacific: New data on the biodiversity of hymenopterans from the protected areas of Georgia (Sakartvelo). Presenting Author: George Japoshvili- Agicultural University of Georgia. Attila Haris-Researcher. Matthias Riedel- Researcher. Sopio Injia- Assistant - George Japoshvili; Attila Haris; Matthias Riedel; Sopio Injia

10:36 AM - 10:48 AM Pacific: Patterns of richness in a long-term citizen science butterfly dataset from Cuyahoga Valley National Park. Presenting Author: Thomas P. Franzem- Kent State University. Leo Kuck (he/him/his or they/them/theirs)- National Parks Service. Jerome Wiedmann- Ohio Lepidopterists. Mariamar Gutierrez- National Parks Service. Christie Bahlai (she/her/hers)- Kent State University - Thomas P. Franzem; Leo Kuck (he/him/his or they/them/theirs); Jerome Wiedmann; Mariamar Gutierrez; Christie Bahlai (she/her/hers)
10:48 AM - 11:00 AM Pacific: Break -
11:00 AM - 11:12 AM Pacific: Phylogenetic analysis of the circum-Antarctic subfamily Migadopinae (Coleoptera: Carabidae). Presenting Author: James K. Liebherr, Ph.D.- Cornell University. Sergio Roig-Junent, Ph.D.- Instituto Argentina de Investigaciones de las Zonas Aridas. Kipling W. Will, Ph.D.- University of California, Berkeley - James K. Liebherr, Ph.D.; Sergio Roig-Junent, Ph.D.; Kipling W. Will, Ph.D.
11:12 AM - 11:24 AM Pacific: Status of pollinators in the United States and Canada. Presenting Author: Tara Cornelisse, PhD- NatureServe - Tara Cornelisse, PhD
11:24 AM - 11:36 AM Pacific: Taxonomic review of Pseudips (Coleoptera: Curculionidae: Scolytinae: Ipini) and its occurrence in Ireland. Presenting Author: Anthony Cognato- Michigan State University. Sarah M. Smith- Michigan State University - Anthony Cognato; Sarah M. Smith
11:36 AM - 11:48 AM Pacific: The California Insect Barcoding Initiative: A million specimens and counting. Presenting Author: Austin Baker (he/him/his)- Natural History Museum of Los Angeles County. Brian Brown- Natural History Museum of Los Angeles County. Megan Barkdull- Natural History Museum of Los Angeles County. Melissa Guzman, Ph.D.- Cornell University - Austin Baker (he/him/his); Brian Brown; Megan Barkdull; Melissa Guzman, Ph.D.
11:48 AM - 12:00 PM Pacific: The evolution of territoriality explored in polymorphic Mnais damselflies. Presenting Author: Christopher D. Beatty (he/him/his)- Stanford University. Isaac Finkelstein- Carleton University. Karl Loeffler-Henry- Carleton University. Thomas N. Sherratt- Carleton University. Yoshi Tsubaki- Kyoto University - Christopher D. Beatty (he/him/his); Isaac Finkelstein; Karl Loeffler-Henry; Thomas N. Sherratt; Yoshi Tsubaki
12:00 PM - 12:12 PM Pacific: The stoneflies of West Virginia: A new annotated checklist. Presenting Author: Theodore Cook- Illinois Natural History Survey. R. Edward Dewalt- Illinois Natural History Survey. Scott Grubbs- Western Kentucky University - Theodore Cook; R. Edward Dewalt; Scott Grubbs
12:12 PM - 12:24 PM Pacific: Voltinism shifts in response to climate warming generally benefit populations of multivoltine butterflies. Presenting Author: Tyson Wepprich- Oregon Department of Forestry. Erica Henry- Washington Department of Fish and Wildlife. Nick Haddad- Michigan State University - Tyson Wepprich; Erica Henry; Nick Haddad

Title: Speaker Practice Room

Time: **8:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, A107, OCC
Organizers:
Categories: General; Speaker Practice Room
Abstract: Looking to practice your presentation in a quiet session room? Visit the Speaker Practice Room Saturday through Tuesday to rehearse at a podium. Sign-up online for your preferred practice time. Sign-ups are available on a first-come, first-served basis.
Tracks: General; Speaker Practice Room

Title: Entomology 2025 Program Committee Meeting

Time: **9:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America; Rosina Romano, CMP, DES- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Bridging Generations by Empowering Tomorrow: Innovative Partnership, Investment, & Entrepreneurship

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B113, OCC
Organizers: Laura Corley Lavine (she/her/hers)- Washington State University; Dave Crowder (he/him/his)- Washington State University
Categories: Member Symposium; Early Career; Professional Development; Student

Abstract: This symposium is to provide timely and thought-provoking advice, examples, and strategies on how to be more innovative and entrepreneurial when looking for investments in entomological research, teaching, and extension. Entomologists must think outside of standard grants for the creation of new scientific knowledge, extension products, and workforce development.
Tracks: Member Symposium; Early Career; Professional Development; Student
Presentations:
9:00 AM - 9:05 AM Pacific: Introductory remarks. Presenting Author: Laura Corley Lavine (she/her/hers)- Washington State University - Laura Corley Lavine (she/her/hers)
9:05 AM - 9:30 AM Pacific: The vast landscape of public-private partnerships and how to strategically align goals to advance entomological science. Presenting Author: Lev Perelman, MBA- LP Advising LLC - Lev Perelman, MBA
9:30 AM - 9:55 AM Pacific: Innovative public-private partnerships in higher education to maximize research impact examples from a premier land-grant institution in Research Triangle Park. Presenting Author: Steven Lommel (he/him/his)- North Carolina State University - Steven Lommel (he/him/his)
9:55 AM - 10:20 AM Pacific: Rooted in research: Where millions of tree fruit grower dollars cultivate progress; Why tree fruit growers are funding their own future. Presenting Author: Ines Hanrahan (she/her/hers)- Washington Tree Fruit Research Commission - Ines Hanrahan (she/her/hers)
10:20 AM - 10:30 AM Pacific: Break -
10:30 AM - 10:55 AM Pacific: Sentricon Systems: The story of how a research entomologist commercialized a bating system for population control of termites. Presenting Author: Nan-Yao Su- University of Florida - Nan-Yao Su
10:55 AM - 11:20 AM Pacific: Connecting donors to impactful entomological research, teaching, and extension - increasing capacity in entomological impact by cultivating philanthropic gifts. Presenting Author: Brandon Hopkins- Washington State University. Laura Corley Lavine (she/her/hers)- Washington State University - Brandon Hopkins; Laura Corley Lavine (she/her/hers)
11:20 AM - 11:45 AM Pacific: Building a collaborative network for digital agriculture. Presenting Author: Laura Corley Lavine (she/her/hers)- Washington State University. Javier Gutierrez Illan- Washington State University. Dave Crowder (he/him/his)- Washington State University - Laura Corley Lavine (she/her/hers); Javier Gutierrez Illan; Dave Crowder (he/him/his)
11:45 AM - 11:50 AM Pacific: Closing remarks. Presenting Author: Laura Corley Lavine (she/her/hers)- Washington State University - Laura Corley Lavine (she/her/hers)

Title: Advancing Wild Bee Research and Conservation Through Standardized Methods

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Hollis Woodard (she/her/hers)- University of California; Brianne Du Clos- Louisiana Universities Marine Consortium; Hannah Levenson- North Carolina State University
Categories: Member Symposium
Abstract: Understanding and conserving bees in effective and comprehensive ways requires coordination and methods standardization. This symposium will showcase advances in the standardization of wild bee research, including for data collection, specimen storage, and data management. It will also provide guidance on advancing coordination and standardization in other areas of entomology.
Tracks: Member Symposium
Presentations:
9:00 AM - 9:05 AM Pacific: Introductory remarks. Presenting Author: Hollis Woodard (she/her/hers)- University of California - Hollis Woodard (she/her/hers)
9:05 AM - 9:20 AM Pacific: A call for standardization in wild bee data collection and curation. Presenting Author: Hollis Woodard (she/her/hers)- University of California. Hannah Levenson- North Carolina State University. Brianne Du Clos- Louisiana Universities Marine Consortium. Tamara Smith- United States Fish and Wildlife Service. Sarina Jepsen- Xerces Society. Jeff Everett- U.S. Fish and Wildlife Service. Neal M. Williams- University of California - Hollis Woodard (she/her/hers); Hannah Levenson; Brianne Du Clos; Tamara Smith; Sarina Jepsen; Jeff Everett; Neal M. Williams
9:20 AM - 9:35 AM Pacific: The wild bee data standard. Presenting Author: Brianne Du Clos- Louisiana Universities Marine Consortium. Katja Seltmann- University of California. Nash Turley- The pennsylvania State University. Clare Maffei- USFWS. Erika Tucker- Biodiversity Outreach Network. Ian G. Lane- U.S. Fish and Wildlife Service - National Wildlife Refuge Program. Hannah Levenson- North Carolina State University. Hollis Woodard (she/her/hers)- University of California - Brianne Du Clos; Katja Seltmann; Nash Turley; Clare Maffei; Erika Tucker; Ian G. Lane; Hannah Levenson; Hollis Woodard (she/her/hers)

9:35 AM - 9:50 AM Pacific: From flowers to habitat: Evaluating floral metrics as indicators of bee habitat quality. Presenting Author: Daniel P. Cariveau- University of Minnesota. James Hung- The university of oklahoma. Neal M. Williams- University of California. David Inouye- University of Maryland. Casey Burns- Bureau of land management. Ian G. Lane- U.S. Fish and Wildlife Service - National Wildlife Refuge Program. Rebecca E. Irwin- North Carolina State University. Hannah Levenson- North Carolina State University. Brianne Du Clos- Louisiana Universities Marine Consortium. Hollis Woodard (she/her/hers)- University of California - Daniel P. Cariveau; James Hung; Neal M. Williams; David Inouye; Casey Burns; Ian G. Lane; Rebecca E. Irwin; Hannah Levenson; Brianne Du Clos; Hollis Woodard (she/her/hers)
9:50 AM - 10:05 AM Pacific: Break -
10:05 AM - 10:20 AM Pacific: Standardized protocol for collecting bee samples to generate molecular data. Presenting Author: Margarita Lopez-Uribe- Pennsylvania State University. James P. Strange, PhD- The Ohio State University. Liam Bennet Whiteman (he/him/his)- The Ohio State University. Bryan Danforth- Cornell University. Shalene Jha (she/her/hers)- University of Texas. Michael Branstetter- USDA-ARS. Jonathan Koch- USDA-ARS-PWA-PIRU. Hannah Levenson- North Carolina State University. Brianne Du Clos- Louisiana Universities Marine Consortium. Hollis Woodard (she/her/hers)- University of California - Margarita Lopez-Uribe; James P. Strange, PhD; Liam Bennet Whiteman (he/him/his); Bryan Danforth; Shalene Jha (she/her/hers); Michael Branstetter; Jonathan Koch; Hannah Levenson; Brianne Du Clos; Hollis Woodard (she/her/hers)
10:20 AM - 10:35 AM Pacific: Standardized protocol for collecting community-level bee data. Presenting Author: Olivia Carril. Hannah Levenson- North Carolina State University. Nash Turley- The pennsylvania State University. Clare Maffei- USFWS. Gretchen LeBuhn- San Francisco State University. Terry Griswold- USDA ARS Pollinating Insects Research Unit. Neal M. Williams- University of California. James Hung- The university of oklahoma - Olivia Carril; Hannah Levenson; Nash Turley; Clare Maffei; Gretchen LeBuhn; Terry Griswold; Neal M. Williams; James Hung
10:35 AM - 10:50 AM Pacific: Standardized protocol for collecting bee samples for parasite and pathogen data. Presenting Author: James P. Strange, PhD- The Ohio State University - James P. Strange, PhD
10:50 AM - 11:05 AM Pacific: Break -
11:05 AM - 11:20 AM Pacific: Promoting and publishing standardized protocols from the perspective of a journal editor. Presenting Author: Victor Hugo Gonzalez (he/him/his)- University of Kansas - Victor Hugo Gonzalez (he/him/his)
11:20 AM - 11:35 AM Pacific: Lost insect species: Challenges and methods in detection and reporting. Presenting Author: Matthew Forister (he/him/his)- University of Nevada. Oscar Martinez Lopez, PhD- University of California. David Wagner- University of Connecticut. Hollis Woodard (she/her/hers)- University of California - Matthew Forister (he/him/his); Oscar Martinez Lopez, PhD; David Wagner; Hollis Woodard (she/her/hers)
11:35 AM - 11:45 AM Pacific: Discussion -
11:45 AM - 11:50 AM Pacific: Closing remarks. Presenting Author: Hollis Woodard (she/her/hers)- University of California - Hollis Woodard (she/her/hers)

Title: Suckers, Spreaders, and Survivors: The Resilience of Hemipteran Pests

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, D137-138, OCC
Organizers: Sajjan Grover- Bayer Crop Science; Gagandeep Brar- Bayer Crop Science
Categories: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Abstract: Deepen the understanding on hemipteran physiology and their interactions with plants.Understand the similarities and dissimilarities of different insect types within the same order in terms of biology, feeding preferences and behavior. Availability of cutting edge tools like 'omics', electrophysiology and imaging, opportunities and limitations of these tools.
Tracks: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Presentations:
9:00 AM - 9:05 AM Pacific: Introductory remarks. Presenting Author: Sajjan Grover- Bayer Crop Science - Sajjan Grover
9:05 AM - 9:25 AM Pacific: Genetic insights in two Colladonus leafhopper species that infect cherry trees with the X-disease pathogen. Presenting Author: William Benjamin Walker, III- United States Department of Agriculture. Katherine Easterling- USDA-ARS. Adrian Marshall- USDA-ARS Temperate Tree Fruit and Vegetable Research Unit. Marco Pitino- USDA-ARS - William Benjamin Walker, III; Katherine Easterling; Adrian Marshall; Marco Pitino
9:25 AM - 9:45 AM Pacific: Swapping hosts and spreading microbes: The secret double life of Bactericera maculipennis. Presenting Author: Mona Tran- University of California. Jaimie Kenney- University of California, Riverside. Marco Gebiola- University of Naples Federico II. Kerry Mauck- University of California - Mona Tran; Jaimie Kenney; Marco Gebiola; Kerry Mauck

9:45 AM - 10:05 AM Pacific: Sorghum-aphid interactions: The tug-of-war for survival. Presenting Author: Joe Louis- University of Nebraska-Lincoln - Joe Louis
10:05 AM - 10:15 AM Pacific: Break -
10:15 AM - 10:35 AM Pacific: Defining feeding physiology through combined single-cell transcriptomics and proteomics approaches in the southern green stink bug. Presenting Author: Flinn O'Hara- University of Florida. Ruchir Mishra- University of Florida. Surjeet Arya- University of Kentucky. S. Reddy Palli (he/him/his)- University of Kentucky. Douglas Harrison- University of Kentucky. Bryony Bonning (she/her/hers)- University of Florida. Daniel Swale- University of Florida - Flinn O'Hara; Ruchir Mishra; Surjeet Arya; S. Reddy Palli (he/him/his); Douglas Harrison; Bryony Bonning (she/her/hers); Daniel Swale
10:35 AM - 10:55 AM Pacific: Virtual visualization of voracious vectors: Insights into xylem sap-ingestion in hemipterans through 3D imaging. Presenting Author: Elizabeth Clark- Lawrence Berkeley National Laboratory. Rodrigo P. Almeida- UC Berkeley - Elizabeth Clark; Rodrigo P. Almeida
10:55 AM - 11:15 AM Pacific: ThryvOn: The first transgenic trait for control of plant bugs and thrips in cotton. Presenting Author: Waseem Akbar- Bayer Crop Science - Waseem Akbar
11:15 AM - 11:35 AM Pacific: Panel discussion -
11:35 AM - 11:40 AM Pacific: Closing remarks. Presenting Author: Sajjan Grover- Bayer Crop Science - Sajjan Grover

Sunday, November 9, 2025

Title: Saving Monarchs: Science, Stewardship, and Sustainability

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F149, OCC
Organizers: Michael Adu-Brew- University of Maryland; Jillian Mae Stewart- University of Maryland; Michael Zhao- University of Maryland; Niranjana Krishnan (she/her/hers)- University of Maryland
Categories: Member Symposium; Science Policy
Abstract: Our member symposium explores monarch butterfly science, conservation, and stewardship. With a final Endangered Species Act listing decision expected in December 2025, experts nationwide will discuss threats, implications, and research needs to support monarch population recovery. Presentations and discussions may lead to a white paper and future collaborations.
Tracks: Member Symposium; Science Policy
Presentations:
9:00 AM - 9:05 AM Pacific: Introductory remarks. Presenting Author: Niranjana Krishnan (she/her/hers)- University of Maryland - Niranjana Krishnan (she/her/hers)
9:05 AM - 9:20 AM Pacific: Rearing does not harm the monarch population. Presenting Author: John Pleasants- Iowa State University. Orley Taylor- University of Kansas - John Pleasants; Orley Taylor
9:20 AM - 9:35 AM Pacific: Risk of insecticides to monarchs and painted lady butterflies. Presenting Author: Vera Krischik- University of Minnesota - Vera Krischik
9:35 AM - 9:50 AM Pacific: Integrating existing evidence and new toxicity data to assess pesticide risks for informing monarch conservation. Presenting Author: Michael Adu-Brew- University of Maryland. Niranjana Krishnan (she/her/hers)- University of Maryland - Michael Adu-Brew; Niranjana Krishnan (she/her/hers)
9:50 AM - 10:05 AM Pacific: Assessing diamide effects on monarch butterflies in lab and greenhouse settings. Presenting Author: Jillian Mae Stewart- University of Maryland. Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station. Niranjana Krishnan (she/her/hers)- University of Maryland - Jillian Mae Stewart; Kelsey Elizabeth Fisher; Niranjana Krishnan (she/her/hers)
10:05 AM - 10:25 AM Pacific: Break -
10:25 AM - 10:40 AM Pacific: Impacts of common milkweed (Asclepias syriaca) leaf age on larval monarch (Danaus plexippus) growth, development, and feeding behavior and the implications for conservation management. Presenting Author: Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station. Caleb B. Bryan- Connecticut Agricultural Experiment Station - Kelsey Elizabeth Fisher; Caleb B. Bryan
10:40 AM - 10:55 AM Pacific: Heat stress reduces the survival of monarch eggs and larvae in the field. Presenting Author: Dylan MacArthur-Waltz- University of California. Louie H. Yang (he/him/his)- University of California. Leslie Ries- Georgetown University. Karen Oberhauser- University of Wisconsin-Madison - Dylan MacArthur-Waltz; Louie H. Yang (he/him/his); Leslie Ries; Karen Oberhauser
10:55 AM - 11:10 AM Pacific: Linking basic and applied research for the monarch butterfly: Translating science to action. Presenting Author: Leslie Ries- Georgetown University. Elise Larsen- Georgetown University. Karen Oberhauser- University of Wisconsin-Madison - Leslie Ries; Elise Larsen; Karen Oberhauser
11:10 AM - 11:25 AM Pacific: Monarch responses to environmental factors: Implications for education, conservation, and research. Presenting Author: Kristen Baum- University of Kansas - Kristen Baum
11:25 AM - 11:55 AM Pacific: Panel discussion -

11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Niranjana Krishnan (she/her/hers)- University of Maryland - Niranjana Krishnan (she/her/hers)

Title: Tour: Banks-Vernonia Pedal and Pour Excursion

Time: **9:00 AM - 3:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: This tour offers an active morning with a guided bike ride along a scenic portion of the Banks-Vernonia State Trail, followed by a relaxing winery lunch featuring wine pairings. It's a perfect blend of outdoor recreation and culinary enjoyment. Begin at a designated trailhead along the Banks-Vernonia State Trail (e.g., near Buxton Trailhead). Guided bike ride along a scenic section of the trail, with stops at key viewpoints (such as the Buxton Trestle). Transportation to a local boutique winery for lunch. Activities: Guided bike ride on the Banks-Vernonia State Trail.Scenic stops and photo opportunities. Winery lunch with wine pairings. Participants should be comfortable with moderate bike riding. First Nature will provide options for different bike sizes, and will need to collect height and weight information from participants. Cost: $185 per person (lunch included) (maximum 20 participants)Includes: Transportation, bike rental, tour guide, winery lunch with rose pairings, bottled water and snacks.
Tracks: Meetings & Events

Title: Practical Research for Real-life Problems: Crafting Invasive Insect Research Topics to Save the World a Little Bit at at Time

Time: **9:30 AM - 10:30 AM** Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Leigh Greenwood (she/her/hers)- The Nature Conservancy; Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University
Categories: Mini Workshop; Professional Development; Science Policy
Abstract: To change policies, attitudes, laws, and our understanding of the world around us, we need research- and some research topics and frameworks are more directly applicable to real-world issues than others. Join us as we discuss how your current and future well-designed research on invasive insects can make a difference.
Tracks: Mini Workshop; Professional Development; Science Policy

Title: Multiscale Perspectives on Social Insects

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B115, OCC
Organizers: Cristina Mercado- University of Florida; Yasmin Ortiz- University of Florida
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Physiology, Biochemistry, and Toxicology
Abstract: This symposium encompasses research from multiple families of known social insect families including Formicidae, Apidae, and Isoptera. Presentations will cover the current molecular techniques, behavioral assays, and surveillance of social insects at differing levels of experience. This promotes inclusive learning and discussion of social insect research for all symposium attendees.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Physiology, Biochemistry, and Toxicology
Presentations:
10:00 AM - 10:15 AM Pacific: Elucidating caste- and age-specific plasticity in Harpegnathos saltator. Presenting Author: Cristina Mercado- University of Florida. Kayli R. Sieber (she/her/hers)- University of Florida. Hua Yan- University of Florida - Cristina Mercado; Kayli R. Sieber (she/her/hers); Hua Yan
10:15 AM - 10:30 AM Pacific: Mixed signals: Sex pheromone attraction and speciation in California Polyergus mexicanus kidnapper ants. Presenting Author: Elizabeth Cash- University of Florida. Sean Halloran- University of California, Riverside. Jocelyn Millar- University Of California. Neil Tsutsui- University of California, Berkeley - Elizabeth Cash; Sean Halloran; Jocelyn Millar; Neil Tsutsui
10:30 AM - 10:45 AM Pacific: How the reproductive division of labour impacts honeybee caste reproductive development. Presenting Author: Georgia Cullen- University of Kentucky. Peter K. Dearden- University of Otago - Georgia Cullen; Peter K. Dearden
10:45 AM - 11:00 AM Pacific: Early olfactory development in the ant Harpegnathos saltator. Presenting Author: Ankita Chodankar- University of Florida. Hua Yan- University of Florida - Ankita Chodankar; Hua Yan

11:00 AM - 11:15 AM Pacific: Mate pairing between two drywood termite species with distinct nest site requirements. Presenting Author: Elijah Carroll- Auburn University. Thomas Chouvenc- University of Florida. Nobuaki Mizumoto- Auburn University - Elijah Carroll; Thomas Chouvenc; Nobuaki Mizumoto
11:15 AM - 11:30 AM Pacific: What good are soldiers during peacetime? Foraging efficiency of fire ant soldiers. Presenting Author: Darmon Kahvazadeh- Auburn University. Kaushik Rahman- Kennesaw State University. Dal Hyung Kim- Kennesaw State University. Clint A. Penick- Auburn University - Darmon Kahvazadeh; Kaushik Rahman; Dal Hyung Kim; Clint A. Penick
11:30 AM - 11:45 AM Pacific: AI-enhanced marker-assisted selection concept for the multifunctional honey bee protein vitellogenin (Vg). Presenting Author: Vilde Leipart- Norwegian University of Life Sciences. Gro V. Amdam- Arizona State University. Kate Ihle- USDA-ARS Honey Bee Breeding, Genetics and Physiology Lab - Vilde Leipart; Gro V. Amdam; Kate Ihle
11:45 AM - 12:00 PM Pacific: Tracking decline: How aging affects brain genes and hunting in Harpegnathos saltator. Presenting Author: Yasmin Ortiz- University of Florida. Kayli R. Sieber (she/her/hers)- University of Florida. Hua Yan- University of Florida - Yasmin Ortiz; Kayli R. Sieber (she/her/hers); Hua Yan

Title: Public Health Entomology: Mentorship Through Generations

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Stacie East, Esq., CAE- Entomological Society of America; Anwar Green- Public Health Entomology For All; Matylda Lally- Public Health Entomology For All
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology; Formal and Informal Teaching; Early Career; Professional Development; Student
Abstract: Public Health Entomology - Mentorship through the Generations will address mentorship throughout Public Health Entomology Careers. Participants create a collective narrative of mentorship across generations and its impact on the PHE workforce and career, share successful mentorship strategies, collaborate, and network.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology; Formal and Informal Teaching; Early Career; Professional Development; Student
Presentations:
10:00 AM - 10:10 AM Pacific: Introductory remarks. Presenting Author: Anwar Green- Public Health Entomology For All - Anwar Green
10:10 AM - 10:20 AM Pacific: My experience in the NEVBD Masters of Science program. Presenting Author: Raelin Mamaril (they/them/theirs)- Cornell University - Raelin Mamaril (they/them/theirs)
10:20 AM - 10:30 AM Pacific: Training the next generation of public health entomologist with mentoring strategies that work. Presenting Author: Laura C. Harrington (she/her/hers)- Cornell University - Laura C. Harrington (she/her/hers)
10:30 AM - 10:40 AM Pacific: The roles of support and patience in mentorship. Presenting Author: Anwar Green- Public Health Entomology For All - Anwar Green
10:40 AM - 10:50 AM Pacific: Incomplete metamorphosis: Training as an entomologist. Presenting Author: Matylda Lally- Public Health Entomology For All - Matylda Lally
10:50 AM - 11:05 AM Pacific: Break -
11:05 AM - 11:15 AM Pacific: Road to grad school and navigating mentorship, part 1. Presenting Author: Kiara Ivy (she/her/hers)- Public Health Entomology For All - Kiara Ivy (she/her/hers)
11:15 AM - 11:30 AM Pacific: Road to grad school and navigating mentorship, part 2. Presenting Author: Amechelle Leander- The College of New Jersey - Amechelle Leander
11:30 AM - 11:40 AM Pacific: There's no I in team, but parts of team are in me: The role of mentorship in my career. Presenting Author: Olivia Winokur (she/her/hers)- University of California - Olivia Winokur (she/her/hers)
11:40 AM - 11:50 AM Pacific: Panel discussion -
11:50 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Matylda Lally- Public Health Entomology For All - Matylda Lally

Sunday, November 9, 2025

Title: Resilience in the Face of Change: Stories of Hope & Unconventional Career Paths

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F151, OCC
Organizers: Lauren Beebe- Texas A&M University; Chloe Hawkings- Rutgers University; Rayda Krell- Corteva Agriscience; Patti L. Prasifka- Corteva Agriscience; Debora Montezano, PhD- Corteva Agriscience; Julia Wooby- Purdue University

Categories: Member Symposium; Early Career; Professional Development
Abstract: We aim to bring together a panel of speakers who have navigated unconventional career paths: alternatives to government, academia, or industry, career trajectories punctuated with changes of direction, even job displacement or position elimination. This symposium will showcase panel members from a variety of entomological backgrounds and job descriptions.
Tracks: Member Symposium; Early Career; Professional Development
Presentations:
10:00 AM - 10:05 AM Pacific: Introductory remarks. Presenting Author: Julia Wooby- Purdue University - Julia Wooby
10:05 AM - 10:20 AM Pacific: How I became an entrepreneur. Presenting Author: Fatma Kaplan- Pheronym, Inc - Fatma Kaplan
10:20 AM - 10:35 AM Pacific: Serendipity and resilience and soft Skills, oh my! Being prepared for change and open to the unexpected. Presenting Author: Patti L. Prasifka- Corteva Agriscience. Grace Sward- Corteva Agriscience. Debora Montezano, PhD- Corteva Agriscience - Patti L. Prasifka; Grace Sward; Debora Montezano, PhD
10:35 AM - 10:50 AM Pacific: Weathering the storm: Lessons in resilience, reinvention, and navigating uncertainty in a changing job market. Presenting Author: Scott T. O'Neal (he/him/his)- FSS, Inc. - Scott T. O'Neal (he/him/his)
10:50 AM - 11:00 AM Pacific: Break -
11:00 AM - 11:15 AM Pacific: It takes a colony: Stronger together. Presenting Author: Elizabeth Walsh (she/her/hers)- USDA-ARS - Elizabeth Walsh (she/her/hers)
11:15 AM - 11:30 AM Pacific: Cultivating curiosity: An entomological career grounded in outreach. Presenting Author: Emily Justus- Purdue University - Emily Justus
11:30 AM - 11:55 AM Pacific: Discussion -
11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Julia Wooby- Purdue University - Julia Wooby

Title: 10-min: FIT, Teaching Tips and Techniques

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers:
Categories: 10-Minute Presentation; Formal and Informal Teaching
Tracks: 10-Minute Presentation; Formal and Informal Teaching
Presentations:
10:00 AM - 10:12 AM Pacific: Aversion toward cockroaches promotes insecticide use in homes. Presenting Author: Moshe Gish- University of Haifa. Rotem Dror- University of Haifa, Department of Information Systems - Moshe Gish; Rotem Dror
10:12 AM - 10:24 AM Pacific: Beetles in focus: A collaborative approach to biodiversity education. Presenting Author: Tierney R. Brosius (she/her/hers)- Augustana College - Tierney R. Brosius (she/her/hers)
10:24 AM - 10:36 AM Pacific: Connecting urban communities to agricultural entomology via social media influencers. Presenting Author: Morgan Grace Pinkerton- University of Florida. Hannah Eason- UF/IFAS Extension Orange County. Matthew Smith- UF/IFAS Extension Lake & Orange Counties. James Yarborough- UF/IFAS Extension Seminole & Orange Counties. Kevin Camm- UF/IFAS Extension Orange County - Morgan Grace Pinkerton; Hannah Eason; Matthew Smith; James Yarborough; Kevin Camm
10:36 AM - 10:48 AM Pacific: Designing for retention: Emotion as a structural tool in entomological outreach. Presenting Author: Nolan Beckett Ferguson- Florida Museum of Natural History. Bert Foquet- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Nolan Beckett Ferguson; Bert Foquet; Akito Y. Kawahara, Ph.D.
10:48 AM - 11:00 AM Pacific: Entomology for engineers: Bugs and bioinspiration at CMU. Presenting Author: Ainsley E. Seago (she/her/hers)- Carnegie Museum of Natural History - Ainsley E. Seago (she/her/hers)
11:00 AM - 11:12 AM Pacific: Florida 4-H Insectathon: A statewide model for youth engagement in entomology and STEM education through experiential learning. Presenting Author: Rebecca W. Baldwin, BCE- University of Florida - Rebecca W. Baldwin, BCE
11:12 AM - 11:24 AM Pacific: Ideas for providing quick and timely feedback in large class sections for scaffolded assignments. Presenting Author: Tonya Shepherd- Texas A&M University - Tonya Shepherd
11:24 AM - 11:36 AM Pacific: Science up close: An innovative exhibit collaboration highlighting entomological research and careers. Presenting Author: Jaret C. Daniels, Ph.D.- University of Florida - Jaret C. Daniels, Ph.D.

11:36 AM - 11:48 AM Pacific: Text mining for entomologists: Find and analyze text patterns using AI and regular expressions. Presenting Author: Siavash Taravati- University of California. Surendra Dara- University of Hawaii - Siavash Taravati; Surendra Dara
11:48 AM - 12:00 PM Pacific: Visualize your instruction manuals: Using comics for clear communication in entomological projects. Presenting Author: Jack Whisenant (he/him/his)- Cornell University - Jack Whisenant (he/him/his)

Title: Applied Use of Chemical Ecology in Integrated Pest Management

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Xavier Martini- University of Florida; Jessica Griesheimer- University of Florida
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: This session will feature presentations focused on integrating chemical ecology into IPM programs. We will discuss pheromone-based lures for pest removal, chemical ecology between predators and prey, parasitoid attraction, and belowground herbivore plant chemistry. The symposium will focus on practical applications of chemical ecology to control agricultural pests.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
10:30 AM - 10:45 AM Pacific: Integrated field management strategies using an oviposition deterrent pheromone for pepper weevil. Presenting Author: Jessica Griesheimer- University of Florida. Xavier Martini- University of Florida. Phillip G. Hahn, Dr- University of Florida. Dakshina R. Seal, PhD- University of Florida. Balasubramani Rathinasabapathi- University of Florida. Gaffke Alexander- USDA-ARS - Jessica Griesheimer; Xavier Martini; Phillip G. Hahn, Dr; Dakshina R. Seal, PhD; Balasubramani Rathinasabapathi; Gaffke Alexander
10:45 AM - 11:00 AM Pacific: Chemical cues from entomopathogenic nematodes influence plant-insect interactions and enhance biological control. Presenting Author: Anjel M. Helms- Texas A&M University. Fatma Kaplan- Pheronym, Inc. David Shapiro-Ilan (he/him/his)- USDA-ARS. John Grunseich- Texas A&M University. Skai Peterson- Texas A&M University. Adriane Fifield (she/her/hers)- Texas A&M University. Stacy Byrd- USDA-ARS. Steven Hobbs- Pheronym, Inc - Anjel M. Helms; Fatma Kaplan; David Shapiro-Ilan (he/him/his); John Grunseich; Skai Peterson; Adriane Fifield (she/her/hers); Stacy Byrd; Steven Hobbs
11:00 AM - 11:15 AM Pacific: Sensory ecology and management of Lygus lineolaris in strawberry production. Presenting Author: Christelle Guedot- University of Wisconsin - Christelle Guedot
11:15 AM - 11:30 AM Pacific: Non-consumptive effects in action: Using predator semiochemicals as a tool for pest management. Presenting Author: Sara Hermann- Pennsylvania State University. Mahendra Pawar- Pennsylvania State University. Jessica Kansman (she/her/hers)- Montana State University - Sara Hermann; Mahendra Pawar; Jessica Kansman (she/her/hers)
11:30 AM - 11:45 AM Pacific: Role of leaf volatiles in spotted-wing drosophila attraction to blueberry fruits. Presenting Author: Cesar Rodriguez-Saona (he/him/his)- Rutgers University. Kevin Cloonan- USDA-ARS. Pablo Urbaneja-Bernat- IRTA. Caitlin Rering- USDA-ARS. Beth Ferguson (she/her/hers)- Rutgers University. Yahel Ben-Zvi (he/they)- Rutgers University - Cesar Rodriguez-Saona (he/him/his); Kevin Cloonan; Pablo Urbaneja-Bernat; Caitlin Rering; Beth Ferguson (she/her/hers); Yahel Ben-Zvi (he/they)
11:45 AM - 12:00 PM Pacific: Use of semiochemicals to attract biological control agents: The Good, the bad, and the ugly. Presenting Author: Xavier Martini- University of Florida. Jessica Griesheimer- University of Florida. Iris Strzyzewski- Disney. Lukasz Stelinski- University of Florida - Xavier Martini; Jessica Griesheimer; Iris Strzyzewski; Lukasz Stelinski
12:00 PM - 12:15 PM Pacific: Identification of the male hibiscus bud weevil, Anthonomus testaceosquamosus, aggregation pheromone. Presenting Author: Kevin Cloonan- USDA-ARS. Alexandra Revynthi- University of Florida. Nurhayat Tabanca (she/her/hers)- USDA-ARS. aime Vasquez- USDA-ARS. Micah Gill- USDA. Xiangbing Yang- USDA-ARS. Yisell Velazquez-Hernandez- University of Florida - Kevin Cloonan; Alexandra Revynthi; Nurhayat Tabanca (she/her/hers); aime Vasquez; Micah Gill; Xiangbing Yang; Yisell Velazquez-Hernandez
12:15 PM - 12:30 PM Pacific: The use of chemical ecology for the management of ambrosia beetles in the rapid hia death pathosystem. Presenting Author: Kylle Roy- USDA-Forest Service - Kylle Roy

Title: What the Innovative Ecology? A Lens on the past Shines Light on Tools for Stored Product Entomology

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D135, OCC
Organizers: Alison Gerken- USDA-ARS; William Morrison- USDA-ARS
Categories: Section Symposium; Plant-Insect Ecosystems

Abstract: In honor of this year's theme, we will be heralding the researchers who have inspired us to reach beyond the horizon in our current research, recognizing the decades of hard work that have led to new innovations to combat stored product insect pests with safer, more effective processes and treatments.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
10:30 AM - 10:35 AM Pacific: Introductory remarks. Presenting Author: Alison Gerken- USDA-ARS - Alison Gerken
10:35 AM - 10:50 AM Pacific: The last of the naturalists: To be a stored products entomologist. Presenting Author: Hannah Quellhorst- Kansas State University - Hannah Quellhorst
10:50 AM - 11:05 AM Pacific: Baited by curiosity: An entomological journey of inspiration and innovation. Presenting Author: Sabita Ranabhat- Kansas State University - Sabita Ranabhat
11:05 AM - 11:20 AM Pacific: Overlooked and underappreciated for 50 years! A renewed emphasis on stored product insect ecology in Nebraska. Presenting Author: Georgina Bingham- University of Nebraska-Lincoln. Cetin Mutlu- University of Nebraska-Lincoln. Desiree Rousseau- University of Nebraska-Lincoln. Aphid Sylvester- University of Kansas. William Morrison III- USDA-ARS. Sabita Ranabhat- Kansas State University. Kun Yan Zhu- Kansas State University. Thomas Phillips- Kansas State University. Daniel Brabec- USDA-ARS. Jennifer Abshire- USDA-ARS - Georgina Bingham; Cetin Mutlu; Desiree Rousseau; Aphid Sylvester; William Morrison III; Sabita Ranabhat; Kun Yan Zhu; Thomas Phillips; Daniel Brabec; Jennifer Abshire
11:20 AM - 11:30 AM Pacific: Break -
11:30 AM - 11:45 AM Pacific: Applied behavioral ecology in stored product pest management: Building on a foundation created by pioneering entomologists. Presenting Author: James Campbell- USDA-ARS - James Campbell
11:45 AM - 12:00 PM Pacific: Odor preference, feeding, survival, and reproduction of the invasive larger grain borerProstephanus truncatus(Horn) on acorns of bur oak. Presenting Author: Qinglei Ming- USDA-ARS. Matthew Hetherington- Kansas State University. Bruna Mattioni- Kansas State University. Melanie Kessler-Mathieu- USDA/ARS. Michael Tilley- USDA-ARS. William Morrison III- USDA-ARS. James Campbell- USDA-ARS. Kun Yan Zhu- Kansas State University. Erin Scully- USDA-ARS - Qinglei Ming; Matthew Hetherington; Bruna Mattioni; Melanie Kessler-Mathieu; Michael Tilley; William Morrison III; James Campbell; Kun Yan Zhu; Erin Scully
12:00 PM - 12:15 PM Pacific: Commercial chemical ecology visionaries: Mating disruption from the beginning to today. Presenting Author: Jessica Lindenmayer, BCE- Trece Inc.. Bill Lingren- Trece Inc - Jessica Lindenmayer, BCE; Bill Lingren
12:15 PM - 12:30 PM Pacific: Flagrantly fragrant: The rich history of apparency research informs the study of natural enemy kairomones in stored products. Presenting Author: Matthew Hetherington- Kansas State University. Maria Sakka- University of Thessaly. Jennifer Abshire- USDA-ARS. Jacqueline Maille- Kansas State University. Ian Stoll- University of Missouri. Christos Athanassiou (he/him/his)- University of Thessaly. Erin Scully- USDA-ARS. Alison Gerken- USDA-ARS. William Morrison III- USDA-ARS - Matthew Hetherington; Maria Sakka; Jennifer Abshire; Jacqueline Maille; Ian Stoll; Christos Athanassiou (he/him/his); Erin Scully; Alison Gerken; William Morrison III

Title: Leveraging Large Spatial Data for Insect Conservation and Management

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers: Heather Grab (she/her/hers)- Pennsylvania State University; Mark Buckner- Pennsylvania State University; Kevin Li- Pennsylvania State University
Categories: Section Symposium; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity
Abstract: Discover the latest research using large spatial datasets to address challenges in insect monitoring, management and conservation. Get insights into how data science techniques can enhance our understanding of insect populations, their movements, and the impacts of environmental changes and apply data-driven approaches to your own work.
Tracks: Section Symposium; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity
Presentations:
10:30 AM - 10:35 AM Pacific: Introductory remarks. Presenting Author: Heather Grab (she/her/hers)- Pennsylvania State University - Heather Grab (she/her/hers)
10:35 AM - 10:50 AM Pacific: How landscape complexity impacts the multiple ecosystem service benefits of wildflower margins. Presenting Author: Kevin Li- Pennsylvania State University. Sarah Goslee- USDA-ARS - Kevin Li; Sarah Goslee
10:50 AM - 11:05 AM Pacific: A vulnerability assessment framework for prioritizing pollinator habitat enhancements. Presenting Author: Elissa Olimpi- Conservation Science Partners. Heather Grab (she/her/hers)-

Pennsylvania State University. Joe Guinness- Cornell University. Rich Iovanna- US Department of Agriculture. Megan O'Rourke- US Department of Agriculture. Sarah Karpanty- Virginia Tech - Elissa Olimpi; Heather Grab (she/her/hers); Joe Guinness; Rich Iovanna; Megan O'Rourke; Sarah Karpanty
11:05 AM - 11:20 AM Pacific: UAV-based remote sensing of bee nesting aggregations with computer vision. Presenting Author: Tobias gerhard Mueller- Cornell University - Tobias gerhard Mueller
11:20 AM - 11:30 AM Pacific: Break -
11:30 AM - 11:45 AM Pacific: A forecasting model for providing an early warning of corn earworm presence. Presenting Author: Mark Buckner- Pennsylvania State University. Heather Grab (she/her/hers)- Pennsylvania State University - Mark Buckner; Heather Grab (she/her/hers)
11:45 AM - 12:00 PM Pacific: The effects of climate change, land use change, and pesticide use on butterfly trends across the United States. Presenting Author: Michael Belitz- Florida Museum of Natural History. Melissa Guzman, Ph.D.- Cornell University. Sarah Saunders- National Audubon Society. Elise Zipkin- Michigan State University - Michael Belitz; Melissa Guzman, Ph.D.; Sarah Saunders; Elise Zipkin
12:00 PM - 12:15 PM Pacific: Predicting taxonomic and functional diversity patterns for insects at large spatial scales. Presenting Author: Jamie M. Kass- Tohoku University. Megan Mei Yan Low- Tohoku University. Evan P. Economo- University of Maryland. Keita Fukasawa- National Institute for Environmental Studies. Keiichi Fukaya- National Institute for Environmental Studies. Benoit Guenard- The University of Hong Kong. Fumiko Ishihama- National Institute for Environmental Studies. Dai Koide- National Institute for Environmental Studies. Yukari Suzuki-Ohno- Tohoku University - Jamie M. Kass; Megan Mei Yan Low; Evan P. Economo; Keita Fukasawa; Keiichi Fukaya; Benoit Guenard; Fumiko Ishihama; Dai Koide; Yukari Suzuki-Ohno
12:15 PM - 12:30 PM Pacific: Interactive effects of climate change and land use on insect biodiversity globally. Presenting Author: Tim Newbold- University College London. Jeremy Kerr- University of Ottawa. Peter Soroye- University of Ottawa. Jessica Williams- Imperial College London - Tim Newbold; Jeremy Kerr; Peter Soroye; Jessica Williams

Title: Entomological Innovations: Ecophysiology, Sustainable Pest Control, and Entomophagy

Time: **11:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Divya Singh, PhD- Uttaranchal University
Categories:
Abstract: Explore how insect physiology, ecological genetics, and sustainable pest control converge with emerging technologies like 3D printing and entomophagy. This dynamic workshop blends science, innovation, and practical insight to spark interdisciplinary collaboration and inspire eco-smart solutions in entomology. Ideal for researchers, educators, and innovators alike.

Title: Editors-in-Chief Meeting

Time: **11:30 AM - 1:00** PM Pacific
Location: Hyatt Regency Portland, Columbia 4, Hyatt
Organizers: Josh Lancette- Entomological Society of America
Categories: Meetings & Events; Committee Meeting; Publications
Tracks: Meetings & Events; Committee Meeting; Publications

Title: Moderator Training

Time: **12:30 PM - 1:00** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America
Categories: General; Moderator Training
Abstract: All moderators and session organizers are required to attend one of the moderator training sessions. Here you will receive details on equipment operation, light controls, and other responsibilities. Training sessions will be held during the following times: Saturday, November 8 4-**4:30** p.m. Sunday, November 9 7-**7:30** a.m. and **12:30**-1 p.m. Monday, November 10 7-**7:30** a.m. Tuesday, November 11 7-**7:30** a.m. and **12:30**-1 p.m.
Tracks: General; Moderator Training

Title: Student and ECP Volunteer Training

Time: **12:30 PM - 1:00** PM Pacific
Location: Oregon Convention Center, G129, OCC

Organizers: Danielle Tempesta- Entomological Society of America
Categories: General; Meetings & Events; Early Career; Student
Tracks: General; Meetings & Events; Early Career; Student

Title: Playing with Bugs: Bridging Core Learning Objectives with Fun

Time: **12:30 PM - 1:30** PM Pacific
Location: Oregon Convention Center, A106, OCC
Organizers: Alexander Maxwell Butcher- Oregon State University; Rachel McNeal (she/her/hers)- Texas A&M University
Categories: Mini Workshop; Professional Development
Abstract: Playtest student-designed games that teach key entomological concepts through engaging, interactive formats. Participants will assess learning outcomes and explore how gamification can enhance education and outreach across age groups. Open to all experience levels, this workshop offers practical insights into using games as effective science communication tools.
Tracks: Mini Workshop; Professional Development

Title: Coming out of the Camouflage: How to Navigate Your First Meeting

Time: **12:30 PM - 2:30** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Pragya Gupta (she/her/hers)- Texas A&M University; Adriane Fifield (she/her/hers)- Texas A&M University; Jacqueline Maille- Kansas State University; Michelle G. Au- University of Hawaii
Categories: Workshop; Professional Development; Student
Abstract: Explore the diverse opportunities available through ESA as nine speakers from various career stages share the highs, lows, and what they wish they knew attending their first conference. Walk away with practical tips, fresh perspectives, and a sense of empowerment. Stay after for a fun bingo mixer and relaxed networking.
Tracks: Workshop; Professional Development; Student

Title: Entomology Games - Preliminary Rounds

Time: **12:30 PM - 2:30** PM Pacific
Location: Oregon Convention Center, Oregon Ballroom, OCC
Organizers: Ashley Kennedy, BCE (she/her/hers)- Delaware Division of Fish & Wildlife Mosquito Control
Categories: Meetings & Events; Student
Abstract: The Entomology Games are a lively question-and-answer, college bowl-style competition on entomological facts played between university-sponsored student teams. Come root for your favorite team!
Tracks: Meetings & Events; Student

Title: The Role of American Entomologists in Responding to the Re-emerging Threat of New World Screwworm

Time: **12:30 PM - 5:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers: Denise Bonilla- USDA-APHIS; Erin Cadwalader- Entomological Society of America
Categories: Member Symposium; Medical, Urban, and Veterinary Entomology
Abstract: This late-breaking symposium will address the recent re-emergence and spread of the once-eliminated New World screwworm fly (Cochliomyia hominivorax [Calliphoridae], NWS) across Central America and Mexico. The symposium will target medical, veterinary, and agricultural extension entomologists who are likely to have a role in correctly recognizing and properly reporting suspected animal and human cases of NWS, should it eventually spread back into its former range in the southern United States. Panelists will engage in Q&A discussion with the audience, and we expect to connect interested audience members with appropriate points-of-contacts across the several federal agencies that are coordinating the national NWS response program (e.g., USDA/APHIS, CDC, etc.).
Tracks: Member Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
12:30 PM - 1:30 PM Pacific: New World screwworm 2025. Presenting Author: Denise Bonilla- USDA-APHIS - Denise Bonilla
1:30 PM - 2:00 PM Pacific: Public health impact of C. hominivorax including implications for clinical diagnosis of suspected human cases. Presenting Author: Mark Fox- Centers for Disease Control - Mark Fox

2:00 PM - 2:30 PM Pacific: New World screwworm infestations in wildlife: Challenges from a Texas perspective. Presenting Author: Tammi Lynne Johnson- Texas A&M University - Tammi Lynne Johnson
2:30 PM - 3:00 PM Pacific: Utility of environmental models in predicting New World screwworm spread. Presenting Author: Lindsay Campbell- University of Florida - Lindsay Campbell
3:00 PM - 3:30 PM Pacific: New World screwworm control: Comparative analysis of cultural, chemical, and IPM techniques. Presenting Author: Sonja Swiger- Texas A&M University - Sonja Swiger
3:30 PM - 3:45 PM Pacific: Electron beam effects on Cochliomyia macellaria. Presenting Author: Aaron Tarone- Texas A&M University - Aaron Tarone
3:45 PM - 4:00 PM Pacific: Gene drive for efficient genetic suppression of New World screwworm. Presenting Author: Maxwell J. Scott (he/him/his)- North Carolina State University - Maxwell J. Scott (he/him/his)
4:00 PM - 4:15 PM Pacific: Haplotype-resolved genome assembly for the New World screwworm, Cochliomyia hominivorax, using the trio-binning approach. Presenting Author: Paul Vincent Hickner- USDA-ARS - Paul Vincent Hickner
4:15 PM - 5:00 PM Pacific: Panel discussion -

Title: Management of Snails and Slugs in Agricultural Systems

Time: **1:00 PM - 3:00** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Sara E. Emery (she/her/hers)- Cornell University; Xavier Martini- University of Florida
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: This symposium will address the emergence of slugs and snails as economic pests in agriculture. Relatively few meetings have been organized to unite the scientific community around the management of terrestrial mollusks. Leading researchers, many of whom are entomologists, will exchange ideas and perspectives, foster collaboration and advance knowledge-sharing.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:00 PM - 1:20 PM Pacific: Developing management strategies for invasive Bulimulus land snails in Florida citrus. Presenting Author: Sankara Ganesh- University of Florida. Lauren Diepenbrock- University of Florida. Nicole Quinn- University of Florida - Sankara Ganesh; Lauren Diepenbrock; Nicole Quinn
1:20 PM - 1:40 PM Pacific: The trophic ecology of Bulimulus bonariensis(Rafinesque, 1833) snails in Florida citrus. Presenting Author: Noah Barguez-arias- University of Florida. Ted Burgess- University of Florida. Lauren Diepenbrock- University of Florida. Nicole Quinn- University of Florida - Noah Barguez-arias; Ted Burgess; Lauren Diepenbrock; Nicole Quinn
1:40 PM - 2:00 PM Pacific: Potential management strategies of Bulimulus bonariensis in agronomic crops and citrus in the Florida panhandle. Presenting Author: Isaac Esquivel- University of Florida. Kathi Lorraine Malfa- University of Florida. Xavier Martini- University of Florida. Rory Mc Donnell- Oregon State University - Isaac Esquivel; Kathi Lorraine Malfa; Xavier Martini; Rory Mc Donnell
2:00 PM - 2:20 PM Pacific: Bread dough as a novel tool for the detection and management of invasive pest gastropods. Presenting Author: Rory Mc Donnell- Oregon State University. Regine Gries- Simon Fraser University. Casey Richart- Oregon State University. Robin Veasey- University of California Riverside. Maria Cordoba- Oregon State University. Andrew Colton- Oregon State University. Christine Dodge- USDA-APHIS-PPQ-S&T. Ian Foley- Montana Department of Agriculture. Gary Adams- USDA-APHIS. Arnold Hara- University of Hawaii. Amy Roda- USDA. Jocelyn Millar- University Of California. Gerhard Gries- Simon Fraser University - Rory Mc Donnell; Regine Gries; Casey Richart; Robin Veasey; Maria Cordoba; Andrew Colton; Christine Dodge; Ian Foley; Gary Adams; Arnold Hara; Amy Roda; Jocelyn Millar; Gerhard Gries
2:20 PM - 2:40 PM Pacific: Predicting slug injury in corn and the role of natural enemies. Presenting Author: Maria Cramer- New Jersey Agricultural Experiment Station. Kelly Hamby- University of Maryland - Maria Cramer; Kelly Hamby
2:40 PM - 3:00 PM Pacific: Hunting for effective slug predators and parasites in the Eastern US. Presenting Author: Michael Crossley (he/him/his)- University of Delaware. Thabu Mugala- University of Delaware - Michael Crossley (he/him/his); Thabu Mugala

Title: Tour: Portland Amazing Race Scavenger Hunt

Time: **1:00 PM - 4:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events

Abstract: This engaging scavenger hunt is designed to capture the unique essence of Portland while being entirely walkable from downtown. Teams will navigate the city using clues, completing challenges at key locations that highlight Portland's quirky, creative, and delicious culture. Each challenge completed earns points. Bonus points awarded for creativity, speed, and team spirit. The team with the most points at the end wins a prize! Participants will explore the city in teams of 3-4. Cost: $65 per person (15 person minimum, limited to the first 100 participants)Includes: Prizes for 1st, 2nd and 3rd place teams.
Tracks: Meetings & Events

Title: Insect Cell Technologies for Innovative New Studies and Insecticide Development

Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, F151, OCC
Organizers: Man-Yeon Choi- United States Department of Agriculture; Raghuvir Viswanatha- Harvard University; Stephanie Mohr- Harvard University
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology; Medical, Urban, and Veterinary Entomology
Abstract: Attendees will (i) learn about cutting-edge technologies that can be applied in cultured cells; (ii) learn about the types of studies these technologies can facilitate; and (iii) have an opportunity to engage with technology experts to forge new collaborations and discuss potential new technology applications.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology; Medical, Urban, and Veterinary Entomology
Presentations:
1:30 PM - 1:32 PM Pacific: Introductory remarks. Presenting Author: Stephanie Mohr- Harvard University - Stephanie Mohr
1:32 PM - 1:57 PM Pacific: Identifying transcriptional repressors for CRISPR-interference in Aedes aegypti cell culture. Presenting Author: Esme Cope- Texas A&M University. Zachary Adelman- Texas A&M University - Esme Cope; Zachary Adelman
1:57 PM - 2:22 PM Pacific: Genome-wide CRISPR screening in insects to reveal novel regulators of developmental signaling pathways. Presenting Author: Raghuvir Viswanatha- Harvard University. Zhongjie Zhang- Harvard Medical School. Norbert Perrimon (he/him/his)- Harvard University. Stephanie Mohr- Harvard University - Raghuvir Viswanatha; Zhongjie Zhang; Norbert Perrimon (he/him/his); Stephanie Mohr
2:22 PM - 2:47 PM Pacific: Establishment and application of genome-wide CRISPR screens in mosquito and tick cells. Presenting Author: Stephanie Mohr- Harvard University. Matthew Butnaru- Harvard University. Raghuvir Viswanatha- Harvard University. Enzo Mameli- Harvard University. Yanhui Hu- Harvard Medical School. William McKenna- Harvard Medical School. Srishti Goswami- Harvard Medical School. Norbert Perrimon (he/him/his)- Harvard University - Stephanie Mohr; Matthew Butnaru; Raghuvir Viswanatha; Enzo Mameli; Yanhui Hu; William McKenna; Srishti Goswami; Norbert Perrimon (he/him/his)
2:47 PM - 3:12 PM Pacific: Insect cell-based screening of bioactive peptides for receptor interference. Presenting Author: Man-Yeon Choi- United States Department of Agriculture. Robert Kenneth Vander Meer- USDA-ARS - Man-Yeon Choi; Robert Kenneth Vander Meer
3:12 PM - 3:15 PM Pacific: Brief intro to insect cell line resources at the DGRC in Bloomington, IN. Presenting Author: Andrew Zelhof- Drosophila Genomics Resource Center - Andrew Zelhof
3:15 PM - 3:27 PM Pacific: Discussion -
3:27 PM - 3:30 PM Pacific: Closing remarks. Presenting Author: Man-Yeon Choi- United States Department of Agriculture - Man-Yeon Choi

Title: Legacy and Innovation: Collaborative Pathways in DoD Pest, Vector, and Invasive Species Research

Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers: Jodi Michelle Fiorenzano (she/her/hers)- Armed Forces Pest Management Board; Gabriela Zollner- Armed Forces Pest Management Board; Michelle Colacicco-Mayhugh, BCE- US Army
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: The DoD and its partners have advanced pest, vector, and invasive species management through research, collaboration, and innovation. This symposium highlights research across the DoD, fostering partnerships, bridging generations of scientists, and exploring solutions to mitigate the impact of pests, vectors, and invasive species.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:

1:30 PM - 1:45 PM Pacific: Invisible threats, unseen victories: The DoD's battle against vectors, pests, and invasive species. Presenting Author: Jodi Michelle Fiorenzano (she/her/hers)- Armed Forces Pest Management Board. Michelle Colacicco-Mayhugh, BCE- US Army - Jodi Michelle Fiorenzano (she/her/hers); Michelle Colacicco-Mayhugh, BCE
1:45 PM - 2:00 PM Pacific: eDNA, AI classification, and GEOME databases, to detect, monitor, and predict, invasive terrestrial arthropods in the Pacific: Building on a century of collections and associated information. Presenting Author: George Roderick- University of California. Rosemary Gillespie- Univ of California. Sven Weber- University of California Berkeley. Pritam Banerjee- University of California Berkeley. Madison Pfau- UC Berkeley. Alex August Farrow- UC Berkeley. Alex Maria Boren- UC Berkeley. Natalie R. Graham- University of Hawaii. Samantha Al-Bayer- UH Hilo. Haldre Rogers- Virginia Tech. Jerilyn Calaor- Virginia Tech. Ken Puliafico- Colorado State University. Evan P. Economo- University of Maryland. Dimitrios Petsopoulos- Okinawa Inst. Science & Technology, OIST, and UMD College Park. Susan Kennedy- Trier University. Henrik Krehenwinkel- Trier University. Anja Melcher- Universitt Trier Fachbereich VI. Paul Krushelnycky- University of Hawaii. Jeremy Andersen- University of Massachusetts, Amherst. Tommy Russell IIIOANRP, Oahu - George Roderick; Rosemary Gillespie; Sven Weber; Pritam Banerjee; Madison Pfau; Alex August Farrow; Alex Maria Boren; Natalie R. Graham; Samantha Al-Bayer; Haldre Rogers; Jerilyn Calaor; Ken Puliafico; Evan P. Economo; Dimitrios Petsopoulos; Susan Kennedy; Henrik Krehenwinkel; Anja Melcher; Paul Krushelnycky; Jeremy Andersen; Tommy Russell III
2:00 PM - 2:15 PM Pacific: Development of mosquito-based detection techniques for the brown tree snake, an invasive species in Guam, USA. Presenting Author: Lawrence Reeves, PhD- University of Florida - Lawrence Reeves, PhD
2:15 PM - 2:30 PM Pacific: Investigating insecticide resistance in german cockroaches on U.S. Navy vessels. Presenting Author: John So- Navy Entomology Center of Excellence - John So
2:30 PM - 2:45 PM Pacific: From permethrin to next-gen textiles: The evolution of military uniforms. Presenting Author: Alyssa Mann- US Army. Alongkot Ponlawat- U.S. Army. Ratree Takhampunya- U.S. Army. Erica Lindroth, BCE (she/her/hers)- WRAIR-AFRIMS - Alyssa Mann; Alongkot Ponlawat; Ratree Takhampunya; Erica Lindroth, BCE (she/her/hers)
2:45 PM - 3:00 PM Pacific: Targeted indoor residual spray as a novel, effective approach forAedes aegypticontrol in Iquitos, Peru. Presenting Author: Gissella Maria Vasquez- U.S. Naval Medical Research. Victor Lopez-Sifuentes- U.S. Naval Medical Research Unit SOUTH. Becker Reyna- Gerencia Regional de Salud Loreto. Ryan T. Larson, Ph.D.- U.S. Navy. Gonzalo Vazquez-Prokopec- Emory University. Amy Morrison- University of California. Helvio Astete- U.S. Naval Medical Research Unit SOUTH. Beyquer Zambrano- Vysnova Partners LLC - Gissella Maria Vasquez; Victor Lopez-Sifuentes; Becker Reyna; Ryan T. Larson, Ph.D.; Gonzalo Vazquez-Prokopec; Amy Morrison; Helvio Astete; Beyquer Zambrano
3:00 PM - 3:15 PM Pacific: Airfield vector borne disease surveillance in Pacific area of region. Presenting Author: Caroline Brooks- US Airforce - Caroline Brooks
3:15 PM - 3:30 PM Pacific: The impact of permethrin retreated marine corps combat utility uniforms on mosquito host seeking behavior. Presenting Author: James Harwood- Centers for Disease Control - James Harwood

Title: 10-min: SysEB, Behavior - Sensing and Signaling

Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:
1:30 PM - 1:42 PM Pacific: Using citizen-science data as a novel resource to understand Odonata diel activity. Presenting Author: Shantanu Shrikant Joshi- University of Arkansas. Adam Siepielski- University of Arkansas - Shantanu Shrikant Joshi; Adam Siepielski
1:42 PM - 1:54 PM Pacific: An enriched prey diet increases survival and growth rate in the early instars of two mantises. Presenting Author: Alex Baranowski- Southern Connecticut State University - Alex Baranowski
1:54 PM - 2:06 PM Pacific: Migratory decision-making in wild hives of the giant Asian honeybee, Apis dorsata. Presenting Author: Hema Somanathan- Indian Institute of Science Education and Research. Sajesh Vijayan, Dr- Western University - Hema Somanathan; Sajesh Vijayan, Dr
2:06 PM - 2:18 PM Pacific: New insights into the evolution of bat-moth behavioral dynamics. Presenting Author: Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History. Jesse Barber- Boise State University - Akito Y. Kawahara, Ph.D.; Jesse Barber

2:18 PM - 2:30 PM Pacific: Nightly door closing behavior in the Florida harvester ant (Pogonomyrmex badius). Presenting Author: Christina Kwapich, PhD- University of Central Florida. Ava Dennison- University of Central Florida - Christina Kwapich, PhD; Ava Dennison
2:30 PM - 2:42 PM Pacific: Non-Newtonian ants: Effects of compression on army ant networks. Presenting Author: Isabella Benter Muratore (she/her/hers)- United States Naval Academy. Megan Black- Northwestern University. Timothy Jeong- United States Naval Academy. Michael Rubenstein- Northwestern University. Simon Garnier- New Jersey Institute of Technology - Isabella Benter Muratore (she/her/hers); Megan Black; Timothy Jeong; Michael Rubenstein; Simon Garnier
2:42 PM - 2:54 PM Pacific: Sniff and seek: A preliminary investigation into how brood parasitic bees use chemical cues to find their hosts. Presenting Author: Katherine Akemi Odanaka- Cornell University. Christophe Duplais- Cornell University. Bryan Danforth- Cornell University - Katherine Akemi Odanaka; Christophe Duplais; Bryan Danforth
2:54 PM - 3:06 PM Pacific: Utilization of the Mobile Atmospheric Profiling Network (MAPNet) for insect flight behavior investigations. Presenting Author: Kevin Knupp- University of Alabama. Preston Pangle- University of Alabama in Huntsville - Kevin Knupp; Preston Pangle
3:06 PM - 3:18 PM Pacific: Variation in the pterostigma of percher and flier dragonflies (Libellulidae). Presenting Author: Lara LaDage- Pennsylvania State University. Kofi Adu- Pennsylvania State University. Jessica L. Ware (she/her/hers)- American Museum of Natural History. Rofela Combey- University of Cape Coast - Lara LaDage; Kofi Adu; Jessica L. Ware (she/her/hers); Rofela Combey
3:18 PM - 3:30 PM Pacific: Keeping cool: How thermal landscapes shape ant foraging performance. Presenting Author: Marko Bracic- Ruder Boskovic Institute. Lina Bajic- Ruder Boskovic Institut. Jelena Bujan- Ruder Boskovic Institute - Marko Bracic; Lina Bajic; Jelena Bujan

Title: 10-min: SysEB, Microbiomes and Symbioses

Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, B114, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:
1:30 PM - 1:42 PM Pacific: Adaptive genome evolution of aphid symbionts: A case study in Lachnus tropicalis. Presenting Author: Tomonari Nozaki- National Institute for Basic Biology. Shuji Shigenobu- National Institute for Basic Biology - Tomonari Nozaki; Shuji Shigenobu
1:42 PM - 1:54 PM Pacific: An integrative approach for identification of cotton-infecting begomoviruses in whitefly Bemisia tabaci (Gennadius) cryptic species in Pakistan. Presenting Author: Muhammad Afzal, PhD- University of Agriculture - Muhammad Afzal, PhD
1:54 PM - 2:06 PM Pacific: Comparing symbiont mediated detoxification of brassicaceous and solanaceous plant toxins by gut microbes of herbivorous insects. Presenting Author: Rachel C. Vargas (she/her/hers)- University of Texas. Alison Ravenscraft (she/her/hers)- University of Texas at Arlington. Jaden Rankin- University of Texas. Aidan Mitchell Skinner- University of Texas - Rachel C. Vargas (she/her/hers); Alison Ravenscraft (she/her/hers); Jaden Rankin; Aidan Mitchell Skinner
2:06 PM - 2:18 PM Pacific: Defensive symbiont diversity contributes to parasitoid coexistence. Presenting Author: Benjamin Haines-Eitzen- University of Georgia. Kenedie Jones- University of Georgia. Conor Fair- University of Georgia. Roy Attila Kucuk- University of Georgia. Kerry Oliver- University of Georgia - Benjamin Haines-Eitzen; Kenedie Jones; Conor Fair; Roy Attila Kucuk; Kerry Oliver
2:18 PM - 2:30 PM Pacific: Going it alone: Cochineal insects (Dactylopiidae: Hemiptera) do not have an obligate nutritional symbiont. Presenting Author: Martha S. Hunter (she/her/hers)- University of Arizona. Suzanne Kelly (she/her/hers)- The University of Arizona, Entomology Dept. Iain Paterson- Rhodes University. Einat Zchori-Fein (she/her/hers)- Agricultural Reserach Organization. Alison Ravenscraft (she/her/hers)- University of Texas at Arlington - Martha S. Hunter (she/her/hers); Suzanne Kelly (she/her/hers); Iain Paterson; Einat Zchori-Fein (she/her/hers); Alison Ravenscraft (she/her/hers)
2:30 PM - 2:42 PM Pacific: Impacts of pesticides on soil communities: Enzymatic activity and chemical degradation. Presenting Author: Ana Flavia Freitas Gomes- University of So Paulo. Fernando L. Cnsoli- University of So Paulo - Ana Flavia Freitas Gomes; Fernando L. Cnsoli
2:42 PM - 2:54 PM Pacific: Interactions in the tangled bank: Fungus-growing ants as an ecological model for complex species networks. Presenting Author: Katherine Malinski- National Museum of Natural History. Jeffrey Sosa-Calvo- National Museum of Natural History, Smithsonian Institution. Ted R. Schultz- Smithsonian Institution - Katherine Malinski; Jeffrey Sosa-Calvo; Ted R. Schultz

2:54 PM - 3:06 PM Pacific: Microbiome-mediated constraints on host-plant switching in specialist bees. Presenting Author: Charles Bradley- University of Arizona. Wendy Moore, PhD (she/her/hers)- University of Arizona - Charles Bradley; Wendy Moore, PhD (she/her/hers)
3:06 PM - 3:18 PM Pacific: Multi-scale genetic diversity in heritable symbioses: Insights into symbiont population structure. Presenting Author: Younghwan Kwak- University of California. Gordon Bennett- University of California Merced - Younghwan Kwak; Gordon Bennett
3:18 PM - 3:30 PM Pacific: Probiotics as a potential strategy to increase success in Hawaiian picture-wing Drosophila reintroduction efforts. Presenting Author: Matthew J. Medeiros- University of Hawaii. William Haines- University of Hawaii. Janis Matsunaga- Hawaii DLNR, Division of Forestry & Wildlife. Joanne Yew- University of Hawaii at Manoa. Don Price- UNLV - Matthew J. Medeiros; William Haines; Janis Matsunaga; Joanne Yew; Don Price **3:30** PM Pacific: Temporal dynamics of RNAi expression during viral infection inPlodia interpunctella. Presenting Author: Signe White- University of California. Elizabeth Gomez Cortez- University of California, Berkeley. Michael Boots- University of California - Signe White; Elizabeth Gomez Cortez; Michael Boots

Title: Hot Bees: Bridging Approaches and Innovative Tools to Understand Heat Wave Impacts on Wild Bees

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers: Neal M. Williams- University of California; Jeremy Hemberger- University of Minnesota
Categories: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Abstract: This symposium will combine a range of innovative approaches to quantifying the impacts of heat waves on bees. Speakers will highlight approaches in insect thermal biology and the frameworks we consider have broad relevance to a range of topics in insect ecology including other pest and beneficial insect taxa.
Tracks: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Presentations:
1:30 PM - 1:45 PM Pacific: The tox-ecology of heat exposure: Cryptic variation in bumble bee heat tolerance across the Americas. Presenting Author: Michael Dillon- University of Wyoming. Sarah Waybright (she/her/hers)- University of California, Davis. Victor Gonzalas- University of Kansas. Oscar Martnez Lpez- El Colegio de la frontera Sur. Alejandra Martinez de Castro- El Colegio de la frontera Sur (ECOSUR). Omar Argello-Njera- El Colegio de la frontera Sur (ECOSUR). Remy Vandame (he/him/his)- El Colegio de la Frontera Sur. Marlene Aguilar-Benavides- Universidad Militar Nueva Granada (UMNG) - Michael Dillon; Sarah Waybright (she/her/hers); Victor Gonzalas; Oscar Martnez Lpez; Alejandra Martinez de Castro; Omar Argello-Njera; Remy Vandame (he/him/his); Marlene Aguilar-Benavides
1:45 PM - 2:00 PM Pacific: Heatwave impacts on immature stages of the solitary beeOsmia lignaria. Presenting Author: Neal M. Williams- University of California. Grace Melone- University of Wisconsin. Clara Stuligross- Kalamazoo College - Neal M. Williams; Grace Melone; Clara Stuligross
2:00 PM - 2:15 PM Pacific: Impacts of heat waves on solitary bee (Osmia lignaria) fitness and development: A comparative study of three western populations. Presenting Author: Clara Stuligross- Kalamazoo College. Sarah Caso- University of California-Berkeley. Alicia Wilgoren- Kalamazoo College. Annaliese Bol- Kalamazoo College. Neal M. Williams- University of California. Hollis Woodard (she/her/hers)- University of California - Clara Stuligross; Sarah Caso; Alicia Wilgoren; Annaliese Bol; Neal M. Williams; Hollis Woodard (she/her/hers)
2:15 PM - 2:30 PM Pacific: Applying physiologically-guided modeling to predict heat wave risk to California pollinators. Presenting Author: Jeremy Hemberger- University of Minnesota. Neal M. Williams- University of California - Jeremy Hemberger; Neal M. Williams
2:30 PM - 2:45 PM Pacific: Break -
2:45 PM - 3:00 PM Pacific: The damage is done: Delayed mortality after acute heat exposure reveals cryptic heat risk. Presenting Author: Sarah Waybright (she/her/hers)- University of California. Sabrina White- University of Wyoming. Michael Dillon- University of Wyoming - Sarah Waybright (she/her/hers); Sabrina White; Michael Dillon
3:00 PM - 3:15 PM Pacific: Gotta Fan 'em All: Using computer vision based tracking to understand the impacts of heatwaves on social thermoregulation in bumble bees. Presenting Author: Grace Melone- University of Wisconsin. Acacia Tang- UW Madison. James Crall- University of Wisconsin-Madison - Grace Melone; Acacia Tang; James Crall
3:15 PM - 3:30 PM Pacific: Burning the bridge: Extreme heat weakens both bee hosts and their pathogens. Presenting Author: Mitzy Porras- San Francisco State University. Carlos Navas- University of So Paulo,. Gustavo Agudelo-Cantero- University of So Paulo. Michel Santiago-Martnez- University of Connecticut. Volker Loeschcke- Aarhus University. Jesper Srensen- Aarhus University. Sharifa Crandall- Pennsylvania State University. David Biddinger (he/him/his)- Penn State University. Edwin G. Rajotte- The Pennsylvania State University - Mitzy

Porras; Carlos Navas; Gustavo Agudelo-Cantero; Michel Santiago-Martnez; Volker Loeschcke; Jesper Srensen; Sharifa Crandall; David Biddinger (he/him/his); Edwin G. Rajotte
3:30 PM - 3:45 PM Pacific: Extreme heat alters blueberry pollen nutrition and the health of a solitary bee pollinator, Osmia lignaria. Presenting Author: Jenna Walters- University of Maine. Robin Fisher- Michigan State University. Thomas Sharkey- Michigan State University. Rufus Isaacs- Michigan State University. James Santiago- University of Illinois - Jenna Walters; Robin Fisher; Thomas Sharkey; Rufus Isaacs; James Santiago
3:45 PM - 4:15 PM Pacific: Panel discussion –

Title: Addressing Challenges and Strategies for Insect Resistance Management in Diverse Cropping Systems

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, D135, OCC
Organizers: Mandeep Tayal (he/him/his)- North Carolina State University; Tim Bryant- Virginia Polytechnic Institute and State University
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: Insect resistance management (IRM) is crucial for sustainable pest control. This session brings together experts across diverse agricultural systems to discuss key challenges, strategies and innovations in IRM. Attendees will gain insights into resistance mechanisms, ecological approaches, and practical solutions to enhance pest management.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Mandeep Tayal (he/him/his)- North Carolina State University - Mandeep Tayal (he/him/his)
1:35 PM - 1:55 PM Pacific: Improving strategies to manage resistance to transgenic corn by western corn rootworm: Lessons learned from the first generation of transgenic traits. Presenting Author: Aaron Gassmann- Iowa State University - Aaron Gassmann
1:55 PM - 2:15 PM Pacific: Understanding and managing resistance in key corn pests: Lessons from monitoring, modeling, and mechanistic studies. Presenting Author: Benchie Ortegon- Corteva Agriscience. Amit Sethi- Corteva Agriscience. Sandra Lass- Corteva Agriscience. Casey Oster- Corteva Agriscience. Chad Benson- Corteva Agriscience. Sefriyani Johan- Corteva Agriscience. Taylor Klunker- Corteva Agriscience. Matt Wihlm- Corteva Agriscience. Zaiqi Pan- Corteva Agriscience. Adriano Garcia- Corteva Agriscience. Cathi Clark- Corteva Agriscience. John Mathis- Corteva Agriscience. Mark Nelson- Corteva Agriscience. Renata Ramos Pereira- Corteva Agriscience. Andre Crespo- Corteva Agriscience - Benchie Ortegon; Amit Sethi; Sandra Lass; Casey Oster; Chad Benson; Sefriyani Johan; Taylor Klunker; Matt Wihlm; Zaiqi Pan; Adriano Garcia; Cathi Clark; John Mathis; Mark Nelson; Renata Ramos Pereira; Andre Crespo
2:15 PM - 2:35 PM Pacific: Continued monitoring of resistance evolution in Helicoverpa zea to Bt corn in the southeastern United States. Presenting Author: Francis Reay-Jones- Clemson University. G. David Buntin- University of Georgia. Dominic Reisig- North Carolina State University - Francis Reay-Jones; G. David Buntin; Dominic Reisig
2:35 PM - 2:55 PM Pacific: Lipid signaling in plant defense: Unraveling sorghum-aphid interactions. Presenting Author: Pritha Kundu- University of Nebraska-Lincoln. Heena Puri- Impetus Agriculture Inc.. Kashish Verma (she/her/hers)- University of Nebraska-Lincoln. Joe Louis- University of Nebraska-Lincoln. Mary Roth- Kansas State University. Ruth Welti- Kansas State University - Pritha Kundu; Heena Puri; Kashish Verma (she/her/hers); Joe Louis; Mary Roth; Ruth Welti
2:55 PM - 3:05 PM Pacific: Break -
3:05 PM - 3:25 PM Pacific: Managing insecticide resistance in clover seed weevil through collaborative research. Presenting Author: Navneet Kaur (she/her/hers)- Oregon State University. Grace Tiwari- Pennsylvania State University. Wyatt Davis-Hinze- Oregon State University. Seth Dorman- USDA-ARS - Navneet Kaur (she/her/hers); Grace Tiwari; Wyatt Davis-Hinze; Seth Dorman
3:25 PM - 3:45 PM Pacific: Spatial dynamics of western flower thrips insecticide resistance across fruiting vegetable agroecosystems. Presenting Author: James Walgenbach- North Carolina State University. Mandeep Tayal (he/him/his)- North Carolina State University. Emily C. Ogburn- North Carolina State University. Scott Lee- USDA-APHIS - James Walgenbach; Mandeep Tayal (he/him/his); Emily C. Ogburn; Scott Lee
3:45 PM - 4:05 PM Pacific: Host-switching, cultivar susceptibility, and genotypic intercropping: Exploring new ways to manage the twospotted spider mite (Tetranychus urticae) in vegetable crops. Presenting Author: Tom Bilbo- Clemson University - Tom Bilbo
4:05 PM - 4:25 PM Pacific: The developing diamide resistance is changing the landscape of managing codling moth, Cydia pomonella (Lepidoptera: Tortricidae), in apple orchards. Presenting Author: Grzegorz Krawczyk-

Pennsylvania State University. Laura Mellott- Pennsylvania State University. Joshua Gery- Pennsylvania State University. Tyler Seutter- Pennsylvania State University - Grzegorz Krawczyk; Laura Mellott; Joshua Gery; Tyler Seutter
4:25 PM - 4:35 PM Pacific: Discussion -
4:35 PM - 4:40 PM Pacific: Closing remarks. Presenting Author: Mandeep Tayal (he/him/his)- North Carolina State University - Mandeep Tayal (he/him/his)

Title: Unlocking Leadership Potential to Standout in Entomology

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers: Kushal Naharki (he/him/his)- West Virginia University; Sabita Ranabhat- Kansas State University; Sujaya Rao- University of Minnesota
Categories: Member Symposium
Abstract: Unlock actionable strategies to lead with innovation and discover actionable leadership strategies to stand out in entomology! Gain mentorship tools, tech-forward ideas, and a roadmap to shape your future. Perfect for students and ECPs ready to lead and leave their mark!
Tracks: Member Symposium
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Kushal Naharki (he/him/his)- West Virginia University - Kushal Naharki (he/him/his)
1:35 PM - 1:50 PM Pacific: Developing the leader in you. Presenting Author: Karla M. Addesso- Tennessee State University - Karla M. Addesso
1:50 PM - 2:05 PM Pacific: Navigating the transition: Developing leadership skills from student life to early career. Presenting Author: Sajjan Grover- Bayer Crop Science - Sajjan Grover
2:05 PM - 2:20 PM Pacific: Paying attention to the details: Gaining leadership skills from everyday activities. Presenting Author: Katelyn Kesheimer (she/her/hers)- Bayer Crop Science. Hannah Penn- USDA-ARS - Katelyn Kesheimer (she/her/hers); Hannah Penn
2:20 PM - 2:35 PM Pacific: Persistence, resilience, and innovative attitude in developing a strong research program and delivering practical solutions. Presenting Author: Surendra Dara- University of Hawaii - Surendra Dara
2:35 PM - 2:50 PM Pacific: Weave a Strong Web: Purpose-driven leadership requires building strong networks that uplift, support, and grow together. Presenting Author: Hannah Tiffin- University of Kentucky - Hannah Tiffin
2:50 PM - 3:00 PM Pacific: Break -
3:00 PM - 3:15 PM Pacific: Opportunities for scientific experience in USDA labs and related federal careers. Presenting Author: Donald C. Weber- USDA-ARS - Donald C. Weber
3:15 PM - 3:30 PM Pacific: Lead where you stand. Presenting Author: Michelle Boone (she/her/hers)- Colorado State University - Michelle Boone (she/her/hers)
3:30 PM - 3:45 PM Pacific: A perspective on Brownian motion and eventual leadership roles in ESA. Presenting Author: Mark Wright- University of Hawaii - Mark Wright
3:45 PM - 4:00 PM Pacific: Empowering entomological collections to be changemakers for the future. Presenting Author: Jennifer Zaspel- Milwaukee Public Museum - Jennifer Zaspel
4:00 PM - 4:15 PM Pacific: If you're not slightly uncomfortable in your career, you're not growing: Pushing yourself to excel in entomology. Presenting Author: Joana Schroeder de Souza- Kansas State University - Joana Schroeder de Souza
4:15 PM - 4:45 PM Pacific: Discussion –

Title: 25-Year Anniversary of RNAi for Pest Management: Milestones and Prospects - Applied Outcomes

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers: Ken Narva, PhD- GreenLight Biosciences, Inc.; S. Reddy Palli (he/him/his)- University of Kentucky; Ibrahim A. El-Shesheny- Tanta University; Partha Ramaseshadri (he/him/his)- Bayer Crop Science; Ana Velez (she/her/hers)- University of Nebraska-Lincoln
Categories: Program Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Abstract: With the Silver Year Anniversary of RNAi Discovery, the symposium highlights the history and current state of RNA interference (RNAi) as a safer alternative to conventional insecticides. This symposium will include landmark topics from basic mechanistic aspects of RNAi to commercial pesticidal RNAi in insect models and pests.

Tracks: Program Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Presentations:
1:30 PM - 2:00 PM Pacific: The next 25 years: Realizing the impact of RNA. Presenting Author: Juan Andrey Zarur- Greenlight Bio - Juan Andrey Zarur
2:00 PM - 2:30 PM Pacific: Development of an RNAi trait in corn: SmartStax Pro. Presenting Author: James Baum (he/him/his) - James Baum (he/him/his)
2:30 PM - 2:45 PM Pacific: EPA's historic and current perspective of RNAi technology for insect pest control. Presenting Author: Alex Blumenfeld- Environmental Protection Agency. Amanda Pierce- U.S. Environmental Protection Agency. Wiebke Striegel- U.S. Environmental Protection Agency. Mike Mendelsohn- U.S. Environmental Protection Agency - Alex Blumenfeld; Amanda Pierce; Wiebke Striegel; Mike Mendelsohn
2:45 PM - 3:00 PM Pacific: Engineering RNAi triggers for global impact. Presenting Author: Juan Arhancet (he/him/his). Grace Arhancet- NanoSUR, LLC. Vladimir Trubetskoy- NANOSUR LLC. Jason Klein- NanoSUR, LLC. Maedot Gehbru- NANOSUR LLC. Darren Wakefield- NanoSUR, LLC - Juan Arhancet (he/him/his); Grace Arhancet; Vladimir Trubetskoy; Jason Klein; Maedot Gehbru; Darren Wakefield
3:00 PM - 3:15 PM Pacific: Educational challenges with the use of biopesticides: Grower expectations of product performance. Presenting Author: Russell L. Groves, PhD- University of Wisconsin - Russell L. Groves, PhD
3:15 PM - 3:45 PM Pacific: Poster session -
3:15 PM - 3:45 PM Pacific: Application of RNAi for wood-boring tree pest management. Presenting Author: Lynne K. Rieske-Kinney (she/her/hers)- University of Kentucky. Flavia Pampolini- University of Kentucky - Lynne K. Rieske-Kinney (she/her/hers); Flavia Pampolini
3:15 PM - 3:45 PM Pacific: Bioinformatics paradigm for in silico analysis of sequence specificity of novel sprayable dsRNA biopesticides. Presenting Author: Eric R.L Gordon (he/him/his)- GreenLight Biosciences - Eric R.L Gordon (he/him/his)
3:15 PM - 3:45 PM Pacific: Biorational RNAi pesticides for management of pest insects. Presenting Author: Keshava Mysore (he/him/his) - Keshava Mysore (he/him/his)
3:15 PM - 3:45 PM Pacific: Heritable effects of RNAi-based pest control on the Colorado potato beetle. Presenting Author: Morgan Weissner (she/her/hers)- University of Wisconsin - Morgan Weissner (she/her/hers)
3:15 PM - 3:45 PM Pacific: Insecticide resistance management of difficult to manage pests in Europe: The possible role of dsRNA biopesticides. Presenting Author: John Vontas- Agricultural University Athens. Kostantinos Mavridis- FORTH -IMBB and Agricultural University of Athens - John Vontas; Kostantinos Mavridis
3:15 PM - 3:45 PM Pacific: Seed priming for RNAi-based insect control. Presenting Author: Soumitra R. Patekar - Soumitra R. Patekar
3:45 PM - 4:00 PM Pacific: Field trials of dsRNA for Japanese beetle management. Presenting Author: S. Reddy Palli (he/him/his)- University of Kentucky. Ramesh Dhandapani- University of Kentucky. Sundararajan Balasubramani- University of Kentucky. Jeff Howell- University of Kentucky. Jun Seok Ryoo- University of Kentucky - S. Reddy Palli (he/him/his); Ramesh Dhandapani; Sundararajan Balasubramani; Jeff Howell; Jun Seok Ryoo
4:00 PM - 4:15 PM Pacific: Practical view on ledprona in potato pest management. Presenting Author: Andrei Alyokhin- University of Maine - Andrei Alyokhin
4:15 PM - 4:30 PM Pacific: RNAi as a next-gen biocontrol tool for invasive species management. Presenting Author: Kumaran Nagalingam (he/him/his). Amol Ghodke- CSIRO Health and Biosecurity. Biko Muita- CSIRO Health and Biosecurity. John Roberts- CSIRO Health and Biosecurity - Kumaran Nagalingam (he/him/his); Amol Ghodke; Biko Muita; John Roberts
4:30 PM - 4:45 PM Pacific: Harnessing RNAi to protect crops from lepidopteran insect pests. Presenting Author: Julia Bally (she/her/hers). Samanta Bolzan de Campos- Queensland University of Technology. Katie Youngs- GreenLight Biosciences. Jason Gillian- GreenLight Biosciences, Inc.. Bridey Maxwell- GreenLight Biosciences Inc. Ken Narva, PhD- GreenLight Biosciences, Inc.. Peter waterhouse- Queensland University of Technology - Julia Bally (she/her/hers); Samanta Bolzan de Campos; Katie Youngs; Jason Gillian; Bridey Maxwell; Ken Narva, PhD; Peter waterhouse
4:45 PM - 5:00 PM Pacific: Stacked RNAi-protein nanoparticles for durable crop protection. Presenting Author: Todd M Hauser (he/him/his). Swati Mishra (she/her/hers)- University of Tennessee - Todd M Hauser (he/him/his); Swati Mishra (she/her/hers)
5:00 PM - 5:15 PM Pacific: NorroaTM: A novel solution to help beekeepers manage varroa mites - status update. Presenting Author: Brian Manley, Ph.D.- GreenLight Biosciences, Inc. - Brian Manley, Ph.D.
5:15 PM - 5:30 PM Pacific: From genes to eggs and reproductive failure: Molecular and phenotypic effects of calmodulin-targeting dsRNA forVarroa destructorin honey bee hives. Presenting Author: Phil Lester (he/him/his). James Baty- Victoria University of Wellington. Antoine Felden- Victoria University of Wellington. Rose McGruddy- University of Auckland. Joana Merk- Victoria University of Wellington. Zoe Smeele- Victoria University of Wellington. Brian Manley, Ph.D.- GreenLight Biosciences, Inc.. Ken Narva, PhD- GreenLight Biosciences, Inc. -

Phil Lester (he/him/his); James Baty; Antoine Felden; Rose McGruddy; Joana Merk; Zoe Smeele; Brian Manley, Ph.D.; Ken Narva, PhD

Title: Bramanites! a Tribute to Dr. Kristine S. Braman, for Her Legacy of Innovation and Passion

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers: Shimat Joseph- University of Georgia; Shakunthala Nair- University of Arizona; Cheri Abraham, PhD, MBA (he/him/his)- Syngenta
Categories: Member Symposium; Plant-Insect Ecosystems; Formal and Informal Teaching
Abstract: Insect pests pose severe challenges while beneficial arthropods, such as predators, parasitoids, and pollinators sustain the vitality of the ornamental and forest ecosystems. Dr. Braman's work has focused on these insect-plant interactions to get the most benefits with the least risks to people, property and the environment.
Tracks: Member Symposium; Plant-Insect Ecosystems; Formal and Informal Teaching
Presentations:
1:30 PM - 1:40 PM Pacific: Introductory remarks. Presenting Author: Cheri Abraham, PhD, MBA (he/him/his)- Syngenta - Cheri Abraham, PhD, MBA (he/him/his)
1:40 PM - 2:10 PM Pacific: Celebrating Kris Braman's legacy in urban IPM. Presenting Author: Paula Shrewsbury- University of Maryland - Paula Shrewsbury
2:10 PM - 2:30 PM Pacific: Crafting a strong foundation for a career in regulatory entomology supporting agriculture. Presenting Author: Greg Hodges- Florida Department of Agriculture and Consumer Services - Greg Hodges
2:30 PM - 2:50 PM Pacific: Rooted in research: The Braman effect in shaping the Joseph lab's horticultural IPM Program!. Presenting Author: Shimat Joseph- University of Georgia - Shimat Joseph
2:50 PM - 3:10 PM Pacific: East or west, lessons learned in IPM stand the test. Presenting Author: Shakunthala Nair- University of Arizona - Shakunthala Nair
3:10 PM - 3:30 PM Pacific: Indelible imprints beyond research: Empathy, leadership, & collaboration. Presenting Author: Cheri Abraham, PhD, MBA (he/him/his)- Syngenta - Cheri Abraham, PhD, MBA (he/him/his)
3:30 PM - 3:40 PM Pacific: Break -
3:40 PM - 4:00 PM Pacific: From pollinators to people: Connecting the next generation to entomology. Presenting Author: Bethany Harris- University of Georgia - Bethany Harris
4:00 PM - 4:20 PM Pacific: From squash bugs to pollinator surveys: A diversity of data in entomology. Presenting Author: Conor Fair- University of Georgia - Conor Fair
4:20 PM - 4:40 PM Pacific: When exceptional mentorship blooms into a passion for pollinator conservation. Presenting Author: Miriam Edelkind-Vealy- University of Georgia - Miriam Edelkind-Vealy
4:40 PM - 4:55 PM Pacific: Reflections. Presenting Author: S. Kristine Braman (she/her/hers)- University of Georgia - S. Kristine Braman (she/her/hers)
4:55 PM - 5:05 PM Pacific: Closing remarks. Presenting Author: Cheri Abraham, PhD, MBA (he/him/his)- Syngenta - Cheri Abraham, PhD, MBA (he/him/his)
5:05 PM - 5:30 PM Pacific: Discussion –

Title: The General Entomology Toolbox: Activities and Practices for Improving a Foundational Course

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Carly M. Tribull- Farmingdale State College; Carl E. Hjelmen- Utah Valley University
Categories: Section Symposium; Formal and Informal Teaching; Early Career; Professional Development; Student
Abstract: Teaching general entomology putting you and your students to sleep? This symposium and workshop offers strategies for engagement, collections, and modernizing course design. Whether you're a new or seasoned instructor, you'll gain innovative tools, insights from experienced educators, and space to collaborate. Leave with fresh ideas to elevate your course!
Tracks: Section Symposium; Formal and Informal Teaching; Early Career; Professional Development; Student
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Carly M. Tribull- Farmingdale State College - Carly M. Tribull

1:35 PM - 1:53 PM Pacific: From entomemes to wingspan: A first attempt at active learning from a new introductory entomology instructor. Presenting Author: Kelsey Coffman (she/her/hers)- University of Tennessee - Kelsey Coffman (she/her/hers)
1:53 PM - 2:11 PM Pacific: Six legged creatures and a 20-sided dice: Role playing plant-herbivore interactions. Presenting Author: Michael Rotter- Utah Valley University - Michael Rotter
2:11 PM - 2:29 PM Pacific: Moving from entomology to EEB to biology and the opportunities for mentorship and research along the way. Presenting Author: Jocelyn Holt- Rice University - Jocelyn Holt
2:29 PM - 2:47 PM Pacific: Community-engaged learning in general entomology. Presenting Author: Olivia Cope- Pacific Lutheran University - Olivia Cope
2:47 PM - 2:52 PM Pacific: Break -
2:52 PM - 3:10 PM Pacific: Building a teaching collection from scratch: Donated collections, labeling headaches, and storage limits. Presenting Author: Carly M. Tribull- Farmingdale State College - Carly M. Tribull
3:10 PM - 3:28 PM Pacific: It's entomology, not etymology: Activities to solidify students understanding of entomological terms. Presenting Author: Carl E. Hjelmen- Utah Valley University - Carl E. Hjelmen
3:28 PM - 3:46 PM Pacific: From camp to college: Scaling active learning strategies in entomology. Presenting Author: Shelby Kilpatrick- Texas A&M University. Adrienne L. Brundage (she/her/hers)- Texas A&M University - Shelby Kilpatrick; Adrienne L. Brundage (she/her/hers)
3:46 PM - 4:04 PM Pacific: Allow me to reintroduce myself: Revising introductory entomology curriculum for student interests. Presenting Author: Chloe Hawkings- Rutgers University - Chloe Hawkings
4:04 PM - 4:09 PM Pacific: Break -
4:09 PM - 5:15 PM Pacific: Interactive workshop: Tools for teaching! -

Title: Molecular Genetics of Insect/Host Interactions

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers: William Benjamin Walker, III- United States Department of Agriculture; Jason Pitts- Baylor University
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology
Abstract: The symposium is focused on the molecular genetics of insect chemosensory research, ranging from neurobiology, physiology and behavior to ecology and evolution. Genes that underlie chemosensory mechanisms are also examined as related to development of novel strategies to manipulate agricultural pest and disease vector behaviors to mitigate economic impacts.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: William Benjamin Walker, IIIUnited States Department of Agriculture - William Benjamin Walker, III
1:35 PM - 1:55 PM Pacific: Genetic tools to investigate the olfactory basis of mosquito attraction to flower and nectar sources. Presenting Author: Angela Rouyar- University of Washington. Rickard Ignell- Swedish University of Agricultural sciences. Tilliejane Leroy- University of Washington. Sophia Dominguez- University of Washington. Jeff Riffell- University of Washington - Angela Rouyar; Rickard Ignell; Tilliejane Leroy; Sophia Dominguez; Jeff Riffell
1:55 PM - 2:15 PM Pacific: Aedes aegyptioviposition behavior mediated through odorant receptors. Presenting Author: Jason Pitts- Baylor University. Luca Ibarra Bouzada- Baylor University - Jason Pitts; Luca Ibarra Bouzada
2:15 PM - 2:35 PM Pacific: Neurogenetic basis of mosquito humidity-guided reproductive behaviors. Presenting Author: Willem Laursen- University of Washington. Ruocong Tang- Brandeis University. Gonzalo Budelli- Universidad de la Repblica. Rachel Busby- Brandeis University. Elaine C. Chang- Brandeis University. Paul Garrity- Brandeis University - Willem Laursen; Ruocong Tang; Gonzalo Budelli; Rachel Busby; Elaine C. Chang; Paul Garrity
2:35 PM - 2:55 PM Pacific: Influencing Western corn rootworm behavior through interference with odorant receptor function. Presenting Author: Jacob Corcoran- USDA-ARS. Terrell Stamps- USDA-ARS. Kyle Paddock- University of Missouri - Jacob Corcoran; Terrell Stamps; Kyle Paddock
2:55 PM - 3:15 PM Pacific: Break -
3:15 PM - 3:35 PM Pacific: Multifunctional roles of odorant binding proteins in the Colorado potato beetle-insights into insect-host dynamics. Presenting Author: James A. Abendroth- Pennsylvania State University. Timothy Moural- Pennsylvania State University. Fang Zhu- Pennsylvania State University - James A. Abendroth; Timothy Moural; Fang Zhu
3:35 PM - 3:55 PM Pacific: An odor and bacterial code for individual humans that are preferred by different mosquito species. Presenting Author: Matthew DeGennaro- Florida International University - Matthew DeGennaro

3:55 PM - 4:15 PM Pacific: Bitter taste perception inAedes aegyptimosquitoes. Presenting Author: Benjamin Matthews- University of British Columbia. Leisl I. Brewster- The University of British Columbia. Nicholas Tochor- University of British Columbia. Joshua Abel-Nwachukwu- University of British Columbia. Cassidy Mark- University of British Columbia. Pei-Hsuan Wu- University of British Columbia - Benjamin Matthews; Leisl I. Brewster; Nicholas Tochor; Joshua Abel-Nwachukwu; Cassidy Mark; Pei-Hsuan Wu
4:15 PM - 4:35 PM Pacific: Olfactory reception of acids in the malaria mosquito. Presenting Author: Josh I. Raji- Johns Hopkins University. Christopher Potter (he/him/his)- Johns Hopkins University School of Medicine - Josh I. Raji; Christopher Potter (he/him/his)
4:35 PM - 4:55 PM Pacific: Poster session -
4:35 PM - 4:55 PM Pacific: Host plant odour and sex pheromone are integral to mate finding in codling moth. Presenting Author: Peter Witzgall- Saint Louis University - Peter Witzgall
4:55 PM - 5:15 PM Pacific: Discussion –

Title: Advances in Entomological Techniques: Bridging Basic and Innovative Approaches

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, D137-138, OCC
Organizers: Jyoti Sharma (she/her/hers)- Louisiana State University; Vanshika Jindal- Louisiana State University; Bhavana Patla- Louisiana State University
Categories: Member Symposium; Plant-Insect Ecosystems; Early Career; Professional Development; Student
Abstract: Join us for an engaging symposium on the latest developments in entomological techniques . This session will explore how researchers investigate insect behavior, physiology, and interactions through various approaches. Participants will acquire essential insights into the workings of these techniques, connect with experts in the field, and uncover new strategies!
Tracks: Member Symposium; Plant-Insect Ecosystems; Early Career; Professional Development; Student
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Jyoti Sharma (she/her/hers)- Louisiana State University - Jyoti Sharma (she/her/hers)
1:35 PM - 1:55 PM Pacific: Nano-particles from ground eggshells improves efficacy of spinosad in the red flour. Presenting Author: Amie Norton- Kansas State University. Xuan Xu- Kansas State University. Audrey Empkey- Kansas State University. Thomas Phillips- Kansas State University - Amie Norton; Xuan Xu; Audrey Empkey; Thomas Phillips
1:55 PM - 2:15 PM Pacific: Bridging two entomological disciplines: Weed biocontrol and chemical ecology. Presenting Author: Alexander Gaffke- USDA-ARS - Alexander Gaffke
2:15 PM - 2:35 PM Pacific: Using machine learning and computer vision approaches for monitoring olive fruit fly (Bactrocera oleae) populations in Slovenia and California. Presenting Author: Santosh Bhandari- UC Agriculture and Natural Resources. Maja Podgornik- Institute of Oliveculture, Koper, Slovenia. Becky Wheeler-Dykes- ASST COOP EXT ADVISOR, UCCE. Sudan Gyawali,- ASST COOP EXT ADVISOR, UCCE. Elizabeth Fichtner- ASST COOP EXT ADVISOR, UCCE - Santosh Bhandari; Maja Podgornik; Becky Wheeler-Dykes; Sudan Gyawali,; Elizabeth Fichtner
2:35 PM - 2:55 PM Pacific: Engineering decay: Experimental systems to study insects, microbes, and decomposition. Presenting Author: Aram Mikaelyan- North Carolina State University - Aram Mikaelyan
2:55 PM - 3:10 PM Pacific: Break -
3:10 PM - 3:30 PM Pacific: Exploring silicon-mediated resistance in rice: Insights from genomic, biochemical, and field-based research. Presenting Author: Jyoti Sharma (she/her/hers)- Louisiana State University. Chanderkant Chaudhary- LOUISIANA STATE UNIVERSITY. Rajat Pruthi- USDA-ARS Horticultural crops production and genetic improvement reserch unit. Alexander Gaffke- USDA-ARS. Thomas Tai- Department of Plant Sciences. Michael Stout- Louisiana State University - Jyoti Sharma (she/her/hers); Chanderkant Chaudhary; Rajat Pruthi; Alexander Gaffke; Thomas Tai; Michael Stout
3:30 PM - 3:50 PM Pacific: A non-destructive approach to assess the gut microbiome of honey bee (Apis mellifera) queens. Presenting Author: Juliana Rangel- Texas A&M University. Erick Motta- Texas A&M University. Jane Seong- Department of Entomology, Texas A&M University, College Station. Mustafa Bozkus- Texas A&M University. Tonya Shepherd- Texas A&M University - Juliana Rangel; Erick Motta; Jane Seong; Mustafa Bozkus; Tonya Shepherd
3:50 PM - 4:10 PM Pacific: The smell of blood heightens female attention to red-colored cues in a mosquito-specialist jumping spider. Presenting Author: Lisa Taylor- University of Florida. Fiona Cross- School of Psychology, Speech and Hearing, University of Canterbury. Robert Jackson- School of Biological Sciences,

University of Canterbury; International Centre of Insect Physiology and Ecology, Thomas Odhiambo Campus - Lisa Taylor; Fiona Cross; Robert Jackson
4:10 PM - 4:30 PM Pacific: Uncovering hidden exposure routes: Integrating drone monitoring, field ecology, and chemical ecology to trace avermectin tolerance in tropical stingless bees. Presenting Author: Katja Poveda- Cornell University. Diana Obregon- ABC Colombia, Somos Territorio. Olger Guerrero- Universidad de la Salle. David Sossa- ABC Colombia, Somos Territorio. Elena Stashenko- CROM-MASS Laboratory, Universidad Industrial de Santander. Beatriz Ramirez- ABC Colombia, Somos Territorio. Christophe Duplais- Cornell University - Katja Poveda; Diana Obregon; Olger Guerrero; David Sossa; Elena Stashenko; Beatriz Ramirez; Christophe Duplais
4:30 PM - 4:40 PM Pacific: Closing remarks. Presenting Author: Jyoti Sharma (she/her/hers)- Louisiana State University - Jyoti Sharma (she/her/hers)

Title: Understanding the Complexity of Arthropod Vector's Threat to Sustainable Crop Production

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers: Adekunle Adesanya (he/him/his)- Corteva Agriscience; Daniel Hasegawa- USDA-ARS
Categories: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Abstract: 1.State-of-the-art knowledge on the fundamentals of arthropod vectors in agroecosystems.2..The similarities and uniqueness of different plant-vector systems3. Holistic understanding of management strategies for arthropod vectors in agroecosystems
Tracks: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Adekunle Adesanya (he/him/his)- Corteva Agriscience - Adekunle Adesanya (he/him/his)
1:35 PM - 1:50 PM Pacific: Engineering solutions for thrips and Tospovirus control. Presenting Author: Dorith Rotenberg- North Carolina State University - Dorith Rotenberg
1:50 PM - 2:05 PM Pacific: Ecological drivers of cotton leafroll dwarf virus and the cotton aphid vector in the southeastern U.S.. Presenting Author: Alana Jacobson- Auburn University - Alana Jacobson
2:05 PM - 2:20 PM Pacific: Managing the Asian citrus psyllid: Strategies for vector suppression in citrus. Presenting Author: Kirsten Pelz-Stelinski (she/her/hers)- University of Florida. Lukasz Stelinski- University of Florida. Bryony Bonning (she/her/hers)- University of Florida - Kirsten Pelz-Stelinski (she/her/hers); Lukasz Stelinski; Bryony Bonning (she/her/hers)
2:20 PM - 2:35 PM Pacific: Cultural strategies for managing thrips and tospoviruses in California. Presenting Author: Daniel Hasegawa- USDA-ARS - Daniel Hasegawa
2:35 PM - 2:45 PM Pacific: Break -
2:45 PM - 3:00 PM Pacific: Ecology and management of homopteran insect vectors including whiteflies, and aphids. Presenting Author: Joseph Gonsiorek (they/them/theirs)- University of Florida. Oscar Liburd- University of Florida. Kendi Muthomi- University of Florida - Joseph Gonsiorek (they/them/theirs); Oscar Liburd; Kendi Muthomi
3:00 PM - 3:15 PM Pacific: Ground cover management of X-disease vectors. Presenting Author: Tobin Northfield- Washington State University - Tobin Northfield
3:15 PM - 3:30 PM Pacific: Biology and ecology of X-disease and its vectors. Presenting Author: Adrian Marshall- USDA-ARS. William Rodney Cooper- USDA-ARS-Temperate Tree Fruit and Vegetable Research Unit. Scott Harper- Washington State University. Marco Pitino- USDA-ARS. Abigail Clarke- Washington State University. Tawnee Melton- Washington State University. Cesar Reyes Corral- Washington State University. Tobin Northfield- Washington State University - Adrian Marshall; William Rodney Cooper; Scott Harper; Marco Pitino; Abigail Clarke; Tawnee Melton; Cesar Reyes Corral; Tobin Northfield
3:30 PM - 3:40 PM Pacific: Break and poster session -
3:30 PM - 3:40 PM Pacific: The evolution of crop protection technologies for managing arthropod vectors of agricultural importance. Presenting Author: Adekunle Adesanya (he/him/his)- Corteva Agriscience - Adekunle Adesanya (he/him/his)
3:40 PM - 3:55 PM Pacific: Impact and management of mealybug pests in California. Presenting Author: James Brown- University of California - James Brown
3:55 PM - 4:10 PM Pacific: Environmental interactions mediated by reservoirs can influence the spread of barley yellow dwarf virus and cereal aphids. Presenting Author: Shirin Parizad- Virginia Polytechnic Institute and State University. Atoosa Nikoukar- Virginia Tech. Xi Liang- University of Idaho. Arash Rasheed- Virginia Tech - Shirin Parizad; Atoosa Nikoukar; Xi Liang; Arash Rasheed
4:10 PM - 4:25 PM Pacific: Discussion -

4:25 PM - 4:30 PM Pacific: Closing remarks. Presenting Author: Daniel Hasegawa- USDA-ARS - Daniel Hasegawa

Title: Honoring a Pioneer in Insect Toxicology: Celebrating Jeff Scott's Contributions to Insect Toxicology

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, F150, OCC
Organizers: Ke Dong (she/her/hers)- Duke University; Nannan Liu- Auburn University; Edwin Burgess- University of Florida
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology
Abstract: Join us for a dynamic and insightful session on the global challenge of insecticide resistance. Experts will present cutting-edge research in molecular genetics, genomics, physiology, biochemistry and toxicology, offering insights into insecticide mechanisms of action and resistance. Gain valuable insights into both fundamental and applied aspects of insecticide toxicology.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology
Presentations:
1:30 PM - 1:50 PM Pacific: Mechanisms of insecticide resistance and selectivity with special reference to ABC transporters. Presenting Author: Ralf Nauen- Bayer Crop Science - Ralf Nauen
1:50 PM - 2:10 PM Pacific: Mechanisms of physiological resistance and compensation. Presenting Author: Aaron Gross- Virginia Polytechnic Institute and State University - Aaron Gross
2:10 PM - 2:30 PM Pacific: Insecticide resistance in agricultural pests. Presenting Author: Yuzhe Du- USDA-ARS - Yuzhe Du
2:30 PM - 2:50 PM Pacific: Amitraz resistance in Varroa. Presenting Author: Frank Rinkevich- USDA-ARS - Frank Rinkevich
2:50 PM - 3:10 PM Pacific: The use of genetic tools in studying acaricide resistance in the mite pest Tetranychus urticae: Recent advances. Presenting Author: Thomas Van Leeuwen- Ghent University - Thomas Van Leeuwen
3:10 PM - 3:20 PM Pacific: Break -
3:20 PM - 3:35 PM Pacific: Post eclosion temperature as an effector of cuticular penetration of insecticides. Presenting Author: Oshneil Baker- University of Florida. Edwin Burgess- University of Florida - Oshneil Baker; Edwin Burgess
3:35 PM - 3:50 PM Pacific: UDP-glycosyltransferase UGT35B1 alters the response to nicotine in Drosophila melanogaster. Presenting Author: Luke Pfannenstiel- Cornell University - Luke Pfannenstiel
3:50 PM - 4:10 PM Pacific: Development of potassium directed insecticides to control Asian citrus psyllid. Presenting Author: Daniel Swale- University of Florida - Daniel Swale
4:10 PM - 4:30 PM Pacific: Botanical bioactives to combat mosquitocide resistance. Presenting Author: Troy Anderson- University of Nebraska-Lincoln - Troy Anderson
4:30 PM - 4:50 PM Pacific: Transfluthrin repellency is driven by its unique action on sodium channels inAedes aegypti. Presenting Author: Ke Dong (she/her/hers)- Duke University - Ke Dong (she/her/hers)

Title: Systematic Entomology Laboratory Highlights on Mite/Insect/Vector and Parasitic Associations

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers: Orlando Combita-Heredia, PhD (he/him/his)- Columbus State Community College; Ronald Ochoa- USDA-ARS
Categories: Member Symposium; Medical, Urban, and Veterinary Entomology; Plant-Insect Ecosystems
Abstract: Explore the global challenges and innovative solutions surrounding parasitic and vector mites in this session. Experts will share diverse perspectives on the latest research, emerging technologies, and applied methodologies. Attendees will gain valuable insights into the ecological and socio-political impacts of mite-related diseases.
Tracks: Member Symposium; Medical, Urban, and Veterinary Entomology; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Orlando Combita-Heredia, PhD (he/him/his)- Columbus State Community College - Orlando Combita-Heredia, PhD (he/him/his)
1:35 PM - 1:55 PM Pacific: New mites in tropical and subtropical fruit crops in the USA. Presenting Author: Daniel Carrillo- University of Florida - Daniel Carrillo

1:55 PM - 2:15 PM Pacific: Mite be friends, mite be foes: Unraveling interactions in mites and thunderflies. Presenting Author: Jonah Ulmer- Smithsonian Institute - Jonah Ulmer
2:15 PM - 2:35 PM Pacific: Nuances of Palo verde broom emaravirus-palo verde mite vector biology. Presenting Author: Raphael Adegbola- University of Arizona. Dinusha Maheepala- University of Arizona. Ursula Schuch- University of Arizona. Judith Brown- University of Arizona - Raphael Adegbola; Dinusha Maheepala; Ursula Schuch; Judith Brown
2:35 PM - 2:55 PM Pacific: Association of eriophyid mites with virus-like symptoms on taxonomically diverse plant hosts. Presenting Author: John Hammond- United States Department of Agriculture. Austin Fife- United States Department of Agriculture. Andrew Ulsamer- USDA. Ronald Ochoa- USDA-ARS - John Hammond; Austin Fife; Andrew Ulsamer; Ronald Ochoa
2:55 PM - 3:15 PM Pacific: Eriophyid mite morphology more than what the wind catch. Presenting Author: Ronald Ochoa- USDA-ARS. Marcello De Giosa- University of Florida. James Amrine- West Virginia University. Austin Fife- United States Department of Agriculture. Alexandra Revynthi- University of Florida. Andrew Ulsamer- USDA. Jason Mottern- USDA - Ronald Ochoa; Marcello De Giosa; James Amrine; Austin Fife; Alexandra Revynthi; Andrew Ulsamer; Jason Mottern
3:15 PM - 3:35 PM Pacific: Break -
3:35 PM - 3:55 PM Pacific: Glandular trichome damage associated with hemp russet mites on CBD hemp inflorescences. Presenting Author: Raul T. Villanueva- University of Kentucky. Zenaida Viloria- University of Kentucky. Ronald Ochoa- USDA-ARS - Raul T. Villanueva; Zenaida Viloria; Ronald Ochoa
3:55 PM - 4:15 PM Pacific: Contributing to Kiefer's legacy: Updating the an Illustrated guide to plant abnormalities. Presenting Author: Austin Fife- United States Department of Agriculture. Marcello De Giosa- University of Florida. James Amrine- West Virginia University. John Hammond- United States Department of Agriculture. Ronald Ochoa- USDA-ARS - Austin Fife; Marcello De Giosa; James Amrine; John Hammond; Ronald Ochoa
4:15 PM - 4:35 PM Pacific: High-throughput virome profiling of brevipalpus mites reveals geographic patterns and novel viruses. Presenting Author: Aline Tassi- University of Florida. Pedro Ramos Gonzlez- Instituto Biolgico de So Paulo. Daniel Gonzalez Ibeas- Instituto Biolgico de So Paulo. Laura Rossetto- Instituto Biolgico de So Paulo. Juliana Freitas-Asta- Empresa Brasileira de Pesquisa Agropecuria (EMBRAPA) - Aline Tassi; Pedro Ramos Gonzlez; Daniel Gonzalez Ibeas; Laura Rossetto; Juliana Freitas-Asta
4:35 PM - 4:55 PM Pacific: Discovering the unseen: Insights into internal morphology and feeding adaptations of three novel soft tick species in the genus Ogadenus through synchrotron-based CT-scanning. Presenting Author: Orlando Combita-Heredia, PhD (he/him/his)- Columbus State Community College. Ronel Pienaar- ARC-Onderstepoort Veterinary Institute. Ben Mans- ARC-Onderstepoort Veterinary Institute - Orlando Combita-Heredia, PhD (he/him/his); Ronel Pienaar; Ben Mans
4:55 PM - 5:15 PM Pacific: Observations on a bizarre new mite family from Chile (Acari: Acariformes: Heterostigmatina). Presenting Author: Cal Welbourn- Florida Department of Agriculture and Consumer Services. Ronald Ochoa- USDA-ARS - Cal Welbourn; Ronald Ochoa
5:15 PM - 5:20 PM Pacific: Closing remarks. Presenting Author: Orlando Combita-Heredia, PhD (he/him/his)- Columbus State Community College - Orlando Combita-Heredia, PhD (he/him/his)

Title: Supporting Scientists and Communities: Self-Care and Science Communication in Extension

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers: Patricia Prade (she/her/hers)- Pennsylvania State University; Ashleigh Faris- Oklahoma State University; Isaac Esquivel- University of Florida; Sriyanka Lahiri- University of Florida; Max R. Schmidtbauer- Nachappa Lab Colorado State University; Melissa Schreiner- Colorado State University; Lisa Mason- Colorado State University; Terri Billeisen- North Carolina State University; Joanie King- New Mexico State University; Nicole Bell- University of Massachusetts; Tawny Simisky- University of Massachusetts
Categories: Section Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems; Professional Development
Abstract: This symposium addresses the critical intersection of self-care and science communication in extension. Through expert talks and panel discussions, attendees will gain insights into managing work-life balance, preventing burnout, and effectively sharing research, fostering a resilient and engaged extension community.
Tracks: Section Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems; Professional Development
Presentations:

1:30 PM - 1:33 PM Pacific: Introductory remarks - Part 1. Presenting Author: Melissa Schreiner- Colorado State University - Melissa Schreiner
1:33 PM - 1:53 PM Pacific: Points for success: Celebrating a career in extension entomology. Presenting Author: Gary Hein- University of Nebraska-Lincoln - Gary Hein
1:53 PM - 2:08 PM Pacific: Balance beyond bugs. Presenting Author: Melissa Schreiner- Colorado State University - Melissa Schreiner
2:08 PM - 2:23 PM Pacific: The power of 'No' in extension. Presenting Author: Jen Larsen (she/her/hers)- Oregon State University - Jen Larsen (she/her/hers)
2:23 PM - 2:38 PM Pacific: The empath's guide to balancing care for yourself and your team. Presenting Author: Gail A. Langellotto- Oregon State University - Gail A. Langellotto
2:38 PM - 2:53 PM Pacific: Yoga made me a better entomologist: How movement can support our career. Presenting Author: Nicole Bell- University of Massachusetts - Nicole Bell
2:53 PM - 3:23 PM Pacific: Panel discussion - Part 1 -
3:23 PM - 3:33 PM Pacific: Break -
3:33 PM - 3:36 PM Pacific: Introductory remarks - Part 2. Presenting Author: Max R. Schmidtbauer- Nachappa Lab Colorado State University - Max R. Schmidtbauer
3:36 PM - 3:56 PM Pacific: Extension in the press: Tips for talking to the media. Presenting Author: Michael Skvarla- Pennsylvania State University. Jonathan Larson- University of Kentucky - Michael Skvarla; Jonathan Larson
3:56 PM - 4:16 PM Pacific: The importance of media in extension, the dos and don'ts. Presenting Author: Midhula Gireesh- University of Tennessee - Midhula Gireesh
4:16 PM - 4:36 PM Pacific: Reaching the masses: Extension communication strategies in the age of social media. Presenting Author: David Coyle- Clemson University - David Coyle
4:36 PM - 4:56 PM Pacific: Science, soundbites, and the swarm: Making entomology newsworthy. Presenting Author: Emily Althoff- University of Missouri - Emily Althoff
4:56 PM - 5:30 PM Pacific: Panel discussion - Part 2 –

Title: Science Policy Workshop - Collaborate, Communicate, and Implement: Doing Our Part for Our Science

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 256, OCC
Organizers: Jennifer A. Henke, BCE (she/her/hers)- Coachella Valley Mosquito and Vector Control District; Marianne Alleyne- University of Illinois; Erin Cadwalader- Entomological Society of America; Monica Farfan- Universitt Leipzig; Flinn O'Hara- University of Florida; Tiffany Pan (they/them/theirs)- University of Calgary; Silvana Paula-Moraes- West Florida Research and Education Center
Categories: Workshop; Professional Development; Science Policy
Abstract: Inspired by people making big impacts but unsure where to start? Join us for an informative and skill-building workshop designed to refine members' coalition building skills. Hosted by the Science Policy Committee, participants will learn from experts in a panel discussion and then practice pitching ideas and building networks.
Tracks: Workshop; Professional Development; Science Policy

Title: 10-min: PBT, Genomics and Molecular Biology

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, F152, OCC
Organizers:
Categories: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Tracks: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Presentations:
1:30 PM - 1:42 PM Pacific: Drosophila intestinal cell lines: A in vitro model for 3D culture, epithelial biology and high-throughput screening. Presenting Author: Andrew Zelhof- Drosophila Genomics Resource Center. Arthur Luhur- Drosophila Genomics Resource Center. Daniel Mariyappa- Drosophila Genomics Resource Center. Peter Bohall- Indiana University - Andrew Zelhof; Arthur Luhur; Daniel Mariyappa; Peter Bohall
1:42 PM - 1:54 PM Pacific: In silicomodeling of structural interactions between bioactive peptides and GPCRs for identifying agonists and antagonists in novel arthropod pest management strategies. Presenting Author: Nivetha Ramanathan, PhD- Oregon State University. Ryssa Parks (she/her/hers)- USDA-ARS. Man-Yeon Choi- United States Department of Agriculture - Nivetha Ramanathan, PhD; Ryssa Parks (she/her/hers); Man-Yeon Choi

1:54 PM - 2:06 PM Pacific: Changes in gene expression across the gonotrophic cycle of female Aedes aegypti mosquitoes. Presenting Author: Genevieve M. Tauxe- University of Washington. Jeff Riffell- University of Washington - Genevieve M. Tauxe; Jeff Riffell
2:06 PM - 2:18 PM Pacific: Characterization of the chromatin remodeling proteins involved in juvenile hormone mediated gene repression in mosquito Aedes aegypti. Presenting Author: Tusar Tirtha Saha- Birla Institute of Technology and Sciences. Roumik Banerjee- Birla Institute of Technology and Sciences. Ajeet Kumar Mohanty- ICMR-National Institute of Malaria Research, Field Station, Panaji. Alexander S. Raikhel (he/him/his)- University of California, Reverside - Tusar Tirtha Saha; Roumik Banerjee; Ajeet Kumar Mohanty; Alexander S. Raikhel (he/him/his)
2:18 PM - 2:30 PM Pacific: Diapause influences telomere length and telomerase activity in the alfalfa leafcutting bee. Presenting Author: Joshua David Rinehart- North Dakota State University. Gwenyth Sailer- North Dakota State University. Jeffrey Kittilson- North Dakota State University. Sheri Dorsam- U.S. Department of Agriculture/Agricultural Research Center. Julia Bowsher- North Dakota State University - Joshua David Rinehart; Gwenyth Sailer; Jeffrey Kittilson; Sheri Dorsam; Julia Bowsher
2:30 PM - 2:42 PM Pacific: Break -
2:42 PM - 2:54 PM Pacific: Diet driven variation in gut microbiome composition and digestive morphology in the gazelle dung beetle (Digitonthophagus gazella). Presenting Author: Michelle J. Herrera- University of California. Avi Khanna- University of California, San Diego. Joshua A. Jones (he/him/his)- University of Minnesota. Ricardo Betancur-R- Scripps Institution of Oceanography. Patrick Rohner- University of California, San Diego - Michelle J. Herrera; Avi Khanna; Joshua A. Jones (he/him/his); Ricardo Betancur-R; Patrick Rohner
2:54 PM - 3:06 PM Pacific: Edit to enable: Ribonucleoprotein complex mediated prime editing of the fall armyworm, Spodoptera frugiperda (J.E.Smith) (Lepidoptera : Noctuidae). Presenting Author: Asokan -. Ramasamy (he/him/his)- ICAR-Indian Institute of Horticultural Research. Yogi Dhawane- ICAR-Indian Institute of Horticultural Research. Ashok Karuppannasamy (he/him/his)- Tata Institute for Genetics and Society (TIGS) - Asokan -. Ramasamy (he/him/his); Yogi Dhawane; Ashok Karuppannasamy (he/him/his)
3:06 PM - 3:18 PM Pacific: Host range versus host efficiency: Testing the specialist-generalist trade-off in parasitoid wasps. Presenting Author: Ellen Martinson- University of New Mexico. Shannon Rollins- University of New Mexico - Ellen Martinson; Shannon Rollins
3:18 PM - 3:30 PM Pacific: Identification and characterization of CAPA GPCRs in box tree moth (Cydalima perspectalis). Presenting Author: Sonu Koirala B K (she/her/hers)- Oregon State University. Ryssa Parks (she/her/hers)- USDA-ARS. Sonu Poudel- Oregon State University. Seung-Joon Ahn- Mississippi State University. Man-Yeon Choi- United States Department of Agriculture - Sonu Koirala B K (she/her/hers); Ryssa Parks (she/her/hers); Sonu Poudel; Seung-Joon Ahn; Man-Yeon Choi
3:30 PM - 3:42 PM Pacific: Insect cell culture resources for site-specific transgenesis and three-dimensional cell culture. Presenting Author: Daniel Mariyappa- Drosophila Genomics Resource Center. Arthur Luhur- Drosophila Genomics Resource Center. Andrew Zelhof- Drosophila Genomics Resource Center - Daniel Mariyappa; Arthur Luhur; Andrew Zelhof
3:42 PM - 3:54 PM Pacific: Break -
3:54 PM - 4:06 PM Pacific: Nanopore sequencing provides insight into the microbial profiles of healthy and sick Acheta domesticus crickets. Presenting Author: Kimberly Boykin, DVM, MS, PhD (she/her/hers)- Louisiana State University. Mark Mitchell- Louisiana State University VTH - Kimberly Boykin, DVM, MS, PhD (she/her/hers); Mark Mitchell
4:06 PM - 4:18 PM Pacific: Sex-specific epigenomic changes after elevated pupal and adult temperature in Ostrinia moths. Presenting Author: Genevieve M. Kozak, PhD- University of Massachusetts. Brittany Velikaneye- University of Massachusetts Dartmouth - Genevieve M. Kozak, PhD; Brittany Velikaneye
4:18 PM - 4:30 PM Pacific: Validation of inexpensive environmental DNA air samplers under laboratory and field conditions. Presenting Author: Nicolas Gustafson- Virginia Polytechnic Institute and State University. Shallon Jozi- Virginia Tech. Caine G. DeWitt- Virginia Polytechnic Institute and State University. Gabriel Isaacman-VanWertz- Virginia Tech. Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University. Roger Schurch- Virginia Tech - Nicolas Gustafson; Shallon Jozi; Caine G. DeWitt; Gabriel Isaacman-VanWertz; Chin-Cheng Scotty Yang; Roger Schurch
4:30 PM - 4:42 PM Pacific: Expanding the antimicrobial peptide landscape in malaria vectors: A genomic and functional investigation in Anopheles gambiae. Presenting Author: Caire Barreto- Johns Hopkins University. George Dimopoulos- Johns Hopkins University - Caire Barreto; George Dimopoulos
4:42 PM - 4:54 PM Pacific: Anopheles gambiae Cryptochrome 1: A novel regulator of malaria parasite infection in the mosquito. Presenting Author: Mary Kefi, Ph.D.- Johns Hopkins University. Caire Barreto- Johns Hopkins University. Johnny Nakhleh- Johns Hopkins University. Maria Luisa Simoes- Institute of Tropical Medicine Antwerp. Yuemei Dong- Johns Hopkins University. George Dimopoulos- Johns Hopkins University - Mary Kefi, Ph.D.; Caire Barreto; Johnny Nakhleh; Maria Luisa Simoes; Yuemei Dong; George Dimopoulos

4:54 PM - 5:06 PM Pacific: The next generation insect cell phenotyping technology "Cell Painting" effectively unravels the Modes of Action of V-ATPase and F-ATPase inhibitors. Presenting Author: Sven Geibel (he/him/his)- Bayer Crop Science. Franziska A. Hecker- Bielefeld University, Proteome and Metabolome Research - Sven Geibel (he/him/his); Franziska A. Hecker
5:06 PM - 5:18 PM Pacific: Oxidative effects of clinically important antibiotic, DNA gyrase inhibitor nalidixic acid, on survival and development of Galleria mellonella L.. Presenting Author: Kemal Buyukguzel- Universite Blent Ecevit. Ender Buyukguzel. Serkan Sugecti. Cihat Celik. Gke stnda - Kemal Buyukguzel; Ender Buyukguzel; Serkan Sugecti; Cihat Celik; Gke stnda
5:18 PM - 5:30 PM Pacific: Characterizing circadian features in the two-spotted spider mite, Tetranychus urticae. Presenting Author: Adi Kliot- Volcani Institute. Noga Daniel- Volcani Institute. Preetom Regon- Volcani Institute. Noa Sela- Volcani Institute. Inon Scharf- Tel Aviv University - Adi Kliot; Noga Daniel; Preetom Regon; Noa Sela; Inon Scharf

Title: 10-min: P-IE, Behavior and Chemical Ecology

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, E145, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:42 PM Pacific: Tenebrio molitoras a circular economy tool in agricultural side streams: from waste to food. Presenting Author: Christos Athanassiou (he/him/his)- University of Thessaly. Christos Rumbos- University of Thessaly. Georgia V. Baliota- University of Thessaly. CHRISTINA ADAMAKI-SOTIRAKI- UNIVERSITY OF THESSALY, Laboratory of Entomology & Agricultural Zoology. Sofronis Zafeiriadis- University of Thessaly. Marianna Rigopoulou- University of Thessaly. Marina Gourgouta- University of Thessaly. Maria Sakka- University of Thessaly. Paraskevi Agrafioti (she/her/hers)- University of Thessaly - Christos Athanassiou (he/him/his); Christos Rumbos; Georgia V. Baliota; CHRISTINA ADAMAKI-SOTIRAKI; Sofronis Zafeiriadis; Marianna Rigopoulou; Marina Gourgouta; Maria Sakka; Paraskevi Agrafioti (she/her/hers)
1:42 PM - 1:54 PM Pacific: Tribolium castaneum and T. confusum are preferentially attracted to decaying wood, their putative historical host. Presenting Author: Derek William Rosenberger- Wheaton College. Alison Gerken- USDA-ARS - Derek William Rosenberger; Alison Gerken
1:54 PM - 2:06 PM Pacific: Assessment of thermal treatments on various life stages of three important stored-product insects. Presenting Author: Maria Sakka- University of Thessaly. Marina Gourgouta- University of Thessaly. Christos Athanassiou (he/him/his)- University of Thessaly - Maria Sakka; Marina Gourgouta; Christos Athanassiou (he/him/his)
2:06 PM - 2:18 PM Pacific: BEEclipse: Honey bee behavior in light of a total solar eclipse. Presenting Author: Barrett Anthony Klein- University of Wisconsin. Izaak Gilchrist (she/her/hers)- Purdue University. Adam Gear- University of Wisconsin - La Crosse. Richard Morris- BroodMinder. Reed Johnson- The Ohio State University. Jon Schulz- Blackland Bees. Brock Harpur- Purdue University - Barrett Anthony Klein; Izaak Gilchrist (she/her/hers); Adam Gear; Richard Morris; Reed Johnson; Jon Schulz; Brock Harpur
2:18 PM - 2:30 PM Pacific: Control of California red scale, Aonidiella aurantii(Hemiptera: Diaspididae) on Texas citrus by mating disruption. Presenting Author: Andrew Chow (he/him/his)- Texas A&M University. Mamoudou Setamou- Texas A&M University-Kingsville Citrus Center - Andrew Chow (he/him/his); Mamoudou Setamou
2:30 PM - 2:42 PM Pacific: Discovery and field evaluation of sex pheromone components fo rMelanotus verberans (LeConte) (Coleoptera: Elateridae). Presenting Author: Livy H. Williams, III- USDA-ARS. Sean Halloran- University of California, Riverside. Paul Baker- Kentucky State University. Frank E. Etzler- Montana Department of Agriculture. Lance Lawrence- USDA-ARS. Jocelyn Millar- University Of California - Livy H. Williams, III; Sean Halloran; Paul Baker; Frank E. Etzler; Lance Lawrence; Jocelyn Millar
2:42 PM - 2:54 PM Pacific: Break -
2:54 PM - 3:06 PM Pacific: How volatile organic compounds from sugar beets drive root maggot (Tetanops myopaeformis) behavior. Presenting Author: Emily Melissa Russavage (she/her/hers)- USDA-ARS. Chenggen Chu- USDA-ARS. Mark Boetel- North Dakota State University - Emily Melissa Russavage (she/her/hers); Chenggen Chu; Mark Boetel
3:06 PM - 3:18 PM Pacific: Is cotton's chemical defense enough to stop a hungry locust?. Presenting Author: Janaina Cunha- Texas A&M University. Greg Sword- Texas A&M University - Janaina Cunha; Greg Sword
3:18 PM - 3:30 PM Pacific: Navel orange worm response to phenyl propionate traps assessed through video observation. Presenting Author: Aldo Hanel- University of California. Kristina Baker- ORISE/USDA-ARS. Houston

Wilson (he/him/his)- University of California. Charles S. Burks (he/him/his)- USDA-ARS - Aldo Hanel; Kristina Baker; Houston Wilson (he/him/his); Charles S. Burks (he/him/his)
3:30 PM - 3:42 PM Pacific: Next-generation alcohol biosensor for detecting the emission of stress-induced ethanol from trees. Presenting Author: Christopher M. Ranger (he/him/his)- USDA-ARS. Karla M. Addesso- Tennessee State University. Denis Olgen Kiobia- University of Georgia. Jonathan Lee-Rodriguez- The Ohio State University. Shekhar J. Thapa, n/a- University of Georgia. Michael Reding- United States Department of Agriculture. Glen J. Rains, n/a- University of Georgia - Christopher M. Ranger (he/him/his); Karla M. Addesso; Denis Olgen Kiobia; Jonathan Lee-Rodriguez; Shekhar J. Thapa, n/a; Michael Reding; Glen J. Rains, n/a
3:42 PM - 3:54 PM Pacific: Noctuid moth attraction to pheromones with and without floral volatiles. Presenting Author: Robert L. Meagher, Jr. (he/him/his)- USDA-ARS. Ashley Tessnow- Oak Ridge Institute for Science and Education (ORISE) - Robert L. Meagher, Jr. (he/him/his); Ashley Tessnow
3:54 PM - 4:06 PM Pacific: Break -
4:06 PM - 4:18 PM Pacific: Nothing but the 'pollen' truth: Bridging field and laboratory studies to understand western flower thrips host preference and abundance.. Presenting Author: Deena Wael Husein, PhD USDA- ARS. Viviana Camelo- USDA-ARS. Kiara Gable- USDA-NRCS. Laura Hladky- USDA-ARS. Daniel Hasegawa- USDA-ARS - Deena Wael Husein, PhD; Viviana Camelo; Kiara Gable; Laura Hladky; Daniel Hasegawa
4:18 PM - 4:30 PM Pacific: Probing behavior influences vibrational communication of the beet leafhopper (Circulifer tenellus). Presenting Author: William Jacob Pitt- Washington State University. Monica Oropeza- Washington State University. Gina Marie Angelella- USDA-ARS. Adrian Marshall- USDA-ARS Temperate Tree Fruit and Vegetable Research Unit. Dowen Jocson- Washington State University. William Rodney Cooper- USDA-ARS-Temperate Tree Fruit and Vegetable Research Unit. Tobin Northfield- Washington State University - William Jacob Pitt; Monica Oropeza; Gina Marie Angelella; Adrian Marshall; Dowen Jocson; William Rodney Cooper; Tobin Northfield
4:30 PM - 4:42 PM Pacific: Sofero Fall pheromone for mating disruption of fall armyworm in Brazil row crops. Presenting Author: Luis Alexandre Teixeira- FMC Corporation. Fabio Silva- FMC. Charles Manzi-Nshuti- FMC. Lieselotte DeBruyne- FMC. Ib Winckelmann- FMC - Luis Alexandre Teixeira; Fabio Silva; Charles Manzi-Nshuti; Lieselotte DeBruyne; Ib Winckelmann
4:42 PM - 4:54 PM Pacific: Swipe, like, match: Do wild Drosophila suzukii females like transgenic males?. Presenting Author: Gerardo Roselli, PhD- University of Trento. Marco Valerio Rossi Stacconi, PhD- Fondazione Edmund Mach. Rachele Nieri (she/her/hers)- University of Trento. Gianfranco Anfora- C3A - University of Trento - Gerardo Roselli, PhD; Marco Valerio Rossi Stacconi, PhD; Rachele Nieri (she/her/hers); Gianfranco Anfora
4:54 PM - 5:06 PM Pacific: Unraveling chemical ecology mechanisms of companion cropping for ecological management of the invasive fall armyworm (Spodoptera frugiperda) pest. Presenting Author: Amanuel A. Tamiru- International Centre of Insect Physiology & Ecology - Amanuel A. Tamiru
5:06 PM - 5:18 PM Pacific: Western monarchs do not always use what is most abundant: Site-level analyses reveal context-dependent hostplant use. Presenting Author: Aramee Diethelm- University of California. Cheryl B. Schultz- Washington State University. Elizabeth Crone- University of California - Aramee Diethelm; Cheryl B. Schultz; Elizabeth Crone
5:18 PM - 5:30 PM Pacific: Volatile-mediated multitrophic interactions of tomato leaf miner Phthorimaea absoluta, its parasitoid Dolichogenidea gelechiidivoris and potential repellent plants. Presenting Author: Marrieter Kisese- International Centre of Insect Physiology and Ecology. Samira Mohamed- ICIPE - Marrieter Kisese; Samira Mohamed

Title: 10-min: P-IE, Invasive Species

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:42 PM Pacific: Psylliodes attenuata: Distribution, phenology and control of a new invasive flea beetle in hops in Eastern Canada. Presenting Author: Justin M. Renkema- Agriculture and Agri-Food Canada. hume Douglas- Canadian National Collection of Insects, Arachnids and Nematodes - Justin M. Renkema; hume Douglas
1:42 PM - 1:54 PM Pacific: Abundant microbial communities influence community assembly processes inDrosophila suzukiiand sour rot-affected grapes. Presenting Author: Rishi Bhandari- USDA-ARS. Zoe Wills- USDA-ARS. Adam Chun-Nin Wong (he/him/his)- University of Florida. Nana Ankrah- State University of New York Plattsburg. Katharine Eastman- USDA-ARS. David kang- USDA ARS Biological Control of Insects Research

Lab - Rishi Bhandari; Zoe Wills; Adam Chun-Nin Wong (he/him/his); Nana Ankrah; Katharine Eastman; David kang
1:54 PM - 2:06 PM Pacific: Adult spotted lanternfly weight is correlated with survival trends on selected specialty crops. Presenting Author: Holly Shugart- Pennsylvania State University. Julie Urban- Pennsylvania State University. Teresa Kaveney- Pennsylvania State University - Holly Shugart; Julie Urban; Teresa Kaveney
2:06 PM - 2:18 PM Pacific: Ash survival and growth in response to emerald ash borer invasion in Massachusetts riparian forests: Impacts of biological control. Presenting Author: Mitchell Green- University of Massachusetts. Jian Duan- USDA-ARS. Ryan Crandall- University of Massachusetts, Amherst. Roy Van Driesche- University Of Massachusetts. Armand Martinez- University of Massachusetts. Jeremy Andersen- University of Massachusetts, Amherst. Joseph Elkinton- Univ of Massachusetts - Mitchell Green; Jian Duan; Ryan Crandall; Roy Van Driesche; Armand Martinez; Jeremy Andersen; Joseph Elkinton
2:18 PM - 2:30 PM Pacific: Can ecological intensification withstand pest invasion? Long-term evidence from push-pull systems in Kenya. Presenting Author: Lilly V. Elliott-Vidaurri- Cornell University. Zeyaur R. Khan- International Centre of Insect Physiology and Ecology (ICIPE). Frank Chidawanyika- ICIPE and the University of Witwatersrand South Africa. Charles Midega- International Centre of Insect Physiology & Ecology (ICIPE). Dickens Nyagol- International Centre of Insect Physiology and Ecology (ICIPE). Bester Mudereri- Consultative Group for International Agricultural Research (CGIAR). Katja Poveda- Cornell University - Lilly V. Elliott-Vidaurri; Zeyaur R. Khan; Frank Chidawanyika; Charles Midega; Dickens Nyagol; Bester Mudereri; Katja Poveda
2:30 PM - 2:42 PM Pacific: Determining the impact of augmentorium on Ganaspis kimorum populations on farms in Maine. Presenting Author: Shehnaz Munnaf Chowdhury- University of Maine - Shehnaz Munnaf Chowdhury
2:42 PM - 2:54 PM Pacific: Developing an agent-based model for invasiveDiorhabdasp.. Presenting Author: Rennie McIntosh- Purdue University - Rennie McIntosh
2:54 PM - 3:06 PM Pacific: Effects of dietary moisture content and cut wood of different species on survival and weight of Asian longhorned beetle larvae: Anoplophora glabripennis (Coleoptera: Cerambycidae). Presenting Author: Melody A. Keena (she/her/hers)- USDA-Forest Service. Sabrina Osowiecki- Amity Regional High School - Melody A. Keena (she/her/hers); Sabrina Osowiecki
3:06 PM - 3:18 PM Pacific: Efficacy of generalist predators of spotted lanternfly. Presenting Author: Kelli Hoover, PhD Pennsylvania State University. Anne Johnson, PhD- Pennsylvania State University - Kelli Hoover, PhD; Anne Johnson, PhD
3:18 PM - 3:30 PM Pacific: Break -
3:30 PM - 3:42 PM Pacific: Establishment dynamics and parasitism rates of Ganaspis kimorumon Drosophila suzukii: Evidence from a five-year field release in northeastern Italy. Presenting Author: Marco Valerio Rossi Stacconi, PhD Fondazione Edmund Mach. Asia Colmagro- Fondazione Edmund Mach. Gianfranco Anfora- C3A - University of Trento. Alberto Grassi- Fondazione Edmund Mach - Marco Valerio Rossi Stacconi, PhD; Asia Colmagro; Gianfranco Anfora; Alberto Grassi
3:42 PM - 3:54 PM Pacific: Evaluation of rearing strategies for spotted-wing drosophila, Drosophila suzukii, in three media. Presenting Author: Gusta Rose O. Beard- Washington State University. Louis Nottingham- Washington State University. Claire Marie Winslow- Washington State University - Gusta Rose O. Beard; Louis Nottingham; Claire Marie Winslow
3:54 PM - 4:06 PM Pacific: Improving spotted-wing drosophila monitoring using adult captures to estimate larval infestation risk. Presenting Author: Binita Shrestha- Cornell University. Gregory Loeb- Cornell University. Stephen Hesler- Cornell AgriTech. Nicholas Aflitto- University of Vermont - Binita Shrestha; Gregory Loeb; Stephen Hesler; Nicholas Aflitto
4:06 PM - 4:18 PM Pacific: Integrating Leptopilina japonica biological control into management of Drosophila Suzukii in highbush blueberry: Opportunities and challenges for releases and conservation. Presenting Author: Steven Van Timmeren- Michigan State University. Lauren Goldstein- Michigan State University. Ada Varga- Michigan State University. Rufus Isaacs- Michigan State University - Steven Van Timmeren; Lauren Goldstein; Ada Varga; Rufus Isaacs
4:18 PM - 4:30 PM Pacific: Interactions of spotted lanternfly (Lycorma delicatula) with milkweed. Presenting Author: Anne Johnson, PhD- Pennsylvania State University. Marissa Palau- The Pennsylvania State University. Flor Acevedo- The Pennsylvania State University. Kelli Hoover, PhD- Pennsylvania State University - Anne Johnson, PhD; Marissa Palau; Flor Acevedo; Kelli Hoover, PhD
4:30 PM - 4:42 PM Pacific: Safeguarding pollinators and crops: Invasive species monitoring and the role of apiary policy in Colorado. Presenting Author: Aja Dakota Bos- Colorado Department of Agriculture - Aja Dakota Bos
4:42 PM - 4:54 PM Pacific: The potential risk posed by emerald ash borer to cultivated and wild olives. Presenting Author: Don F. Cipollini, Jr., PhD- Wright State University. Chad Rigsby- Bartlett Tree Research Laboratories. Idris Elesin- Wright State University. Heather Stoven- Oregon State University Extension - Don F. Cipollini, Jr., PhD; Chad Rigsby; Idris Elesin; Heather Stoven

4:54 PM - 5:06 PM Pacific: Towards optimizing trap deployment for the detection of non-native scolytines in the United States. Presenting Author: Manoj Pandey- The Ohio State University. Kayla I. Perry- The Ohio State University. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University - Manoj Pandey; Kayla I. Perry; Samuel F. Ward, M.S., Ph.D. (he/him/his)
5:06 PM - 5:18 PM Pacific: Innovative approach for desert locust Schistocerca gregaria (Forskl) distribution and monitoring in Sudan using ecological niche modelling. Presenting Author: Azhari Abdelbagi Mohamed. Mahgoub Boshara. Elfatih M. Abdel-Rahman- International Center of Insect Physiology and Ecology - Azhari Abdelbagi Mohamed; Mahgoub Boshara; Elfatih M. Abdel-Rahman
5:18 PM - 5:30 PM Pacific: Current progress on the classical biological control of brown marmorated stink bug in California. Presenting Author: Vincent Maiquez- California Department of Food and Agriculture. Ricky Lara- California Department of Food and Agriculture - Vincent Maiquez; Ricky Lara

Title: 10-min: P-IE, Apiculture and Pollinators

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:42 PM Pacific: Analyzing collecting methods for non-Apis bees in southeastern agroecosystems. Presenting Author: Katherine Parys- USDA-ARS. Kim Huntzinger- USDA-ARS. Isaac Esquivel- University of Florida - Katherine Parys; Kim Huntzinger; Isaac Esquivel
1:42 PM - 1:54 PM Pacific: Bee pollination networks in diversified agroecosystems. Presenting Author: Amanda Sheryl Denny (she/they)- University of Kentucky. Julian Dupuis- University of Kentucky. Beryl Jones- University of Kentucky - Amanda Sheryl Denny (she/they); Julian Dupuis; Beryl Jones
1:54 PM - 2:06 PM Pacific: Can they take the heat? Assessing whether plant provenance enhances the suitability of flowering plants for pollinators under climate change. Presenting Author: Isabella G. Ragonese- University of Massachusetts. Lynn Adler- University of Massachusetts. Jenica Allen- University of Massachusetts, Amherst. Toni Lyn Morelli- U.S. Geological Survey. Laura Figueroa- University of Massachusetts - Isabella G. Ragonese; Lynn Adler; Jenica Allen; Toni Lyn Morelli; Laura Figueroa
2:06 PM - 2:18 PM Pacific: Crape myrtle (Lagerstroemia indica) pollen nutrition and its contributions to pollinator health. Presenting Author: Pierre Lau (he/him/his)- United States Department of Agriculture. Giovanni Tundo- United States Department of Agriculture. Arathi Seshadri- USDA. Quentin Read- USDA - Pierre Lau (he/him/his); Giovanni Tundo; Arathi Seshadri; Quentin Read
2:18 PM - 2:30 PM Pacific: Effects of gut microbiome "rewilding" on the health of captive-reared bumble bees. Presenting Author: Kristal M. Watrous (she/her/hers)- University of California. McKenna J. Larson- University of California, Irvine. Tobin Hammer- University of California, Irvine - Kristal M. Watrous (she/her/hers); McKenna J. Larson; Tobin Hammer
2:30 PM - 2:42 PM Pacific: Break -
2:42 PM - 2:54 PM Pacific: Heat and drought disrupt canola flowering, reduce pollinator attraction, and lower seed yield. Presenting Author: Foryuy Fairo Dzekashu, PhD- University of Lethbridge. Shelley E. Hoover, PhDUniversity of Lethbridge - Foryuy Fairo Dzekashu, PhD; Shelley E. Hoover, PhD
2:54 PM - 3:06 PM Pacific: Honey bees and native pollinators occupy distinct climatic niches in a spring-blooming crop. Presenting Author: Nicole DesJardins- University of Wisconsin. James Crall- University of Wisconsin-Madison - Nicole DesJardins; James Crall
3:06 PM - 3:18 PM Pacific: How the environment shapes size: Body size variation in Osmia lignaria across ecoregions. Presenting Author: Courtney Grula- North Dakota State University. Julia Bowsher- North Dakota State University. Terry Griswold- USDA ARS Pollinating Insects Research Unit. Joshua David Rinehart- North Dakota State University - Courtney Grula; Julia Bowsher; Terry Griswold; Joshua David Rinehart
3:18 PM - 3:30 PM Pacific: Managed honey bee loss in the US: A comparative assessment of survey efforts and trends. Presenting Author: Nathalie A. Steinhauer- Oregon State University. Mikayla E. Wilson- Ecdysis Foundation. Agostina Giacobino- Auburn University. Selina Bruckner (she/her/hers)- Auburn University. Dan Aurell (he/him/his)- Auburn University. Dennis VanEngelsdorp- University of Maryland. Ramesh Sagili (he/him/his)- Oregon State University. Geoffrey Williams- Auburn University - Nathalie A. Steinhauer; Mikayla E. Wilson; Agostina Giacobino; Selina Bruckner (she/her/hers); Dan Aurell (he/him/his); Dennis VanEngelsdorp; Ramesh Sagili (he/him/his); Geoffrey Williams

3:30 PM - 3:42 PM Pacific: Mushroom mycelium as a pathogen reducing additive to commercial bumble bee diet. Presenting Author: Brooke Donzelli- The Ohio State University. James P. Strange, PhD- The Ohio State University - Brooke Donzelli; James P. Strange, PhD
3:42 PM - 3:54 PM Pacific: Break -
3:54 PM - 4:06 PM Pacific: Radio tracking and volunteer surveys as a means to discover bumble bee nests. Presenting Author: Elise Bernstein- University of Minnesota. Clara Costello- U of MN. Sami Dolan (she/her/hers)- University of Minnesota. Elaine Evans (she/they)- University of Minnesota - Elise Bernstein; Clara Costello; Sami Dolan (she/her/hers); Elaine Evans (she/they)
4:06 PM - 4:18 PM Pacific: Surveying the intensity of European foulbrood disease outbreaks in honey bee (Apis mellifera) colonies pollinating specialty crops in Oregon and California. Presenting Author: Benjamin James Nichols- Oregon State University. Ramesh Sagili (he/him/his)- Oregon State University. Andony Melathopoulos- Oregon State University - Benjamin James Nichols; Ramesh Sagili (he/him/his); Andony Melathopoulos
4:18 PM - 4:30 PM Pacific: Optimization of pollination for improved management of plum curculio in highbush blueberries. Presenting Author: Beth Ferguson (she/her/hers)- Rutgers University. Cesar Rodriguez-Saona (he/him/his)- Rutgers University - Beth Ferguson (she/her/hers); Cesar Rodriguez-Saona (he/him/his)
4:30 PM - 4:42 PM Pacific: Understanding pollen phenology from bee-collected pollen in the southeastern region. Presenting Author: Asmita Gautam- Mississippi State University. Emma Blake U'Ren- Mississippi State University. Claire Green- Mississippi State University. Pierre Lau (he/him/his)- United States Department of Agriculture. Priya Chakrabarti Basu (she/her/hers)- Washington State University - Asmita Gautam; Emma Blake U'Ren; Claire Green; Pierre Lau (he/him/his); Priya Chakrabarti Basu (she/her/hers)
4:42 PM - 4:54 PM Pacific: Using radio transmitters to locate rare bumble bee (Bombus spp.) nests. Presenting Author: Jakob Tiler Goldner- West Virginia Divison of Natural Resources. Rick Doyle- West Virginia Divison of Natural Resources. Brian Gordon- West Virginia Divison of Natural Resources. Alexander Silvis- West Virginia Divison of Natural Resources - Jakob Tiler Goldner; Rick Doyle; Brian Gordon; Alexander Silvis
4:54 PM - 5:06 PM Pacific: A longitudinal study of viral interactions in honey bees during the California almond bloom. Presenting Author: Nina Ariadne Sokolov (she/her/hers)- University of California. Graham Northrup- University of Chicago. Lena Wilfert- University of Ulm. Michael Boots- University of California - Nina Ariadne Sokolov (she/her/hers); Graham Northrup; Lena Wilfert; Michael Boots
5:06 PM - 5:18 PM Pacific: Host-pathogen dynamics in response to resource pulses: effects of blooming cover crops on bee pathogen transmission. Presenting Author: Jules Davis- University of Massachusetts. Kaitlin R. Deutsch (she/her/hers)- University of Florida. Jeremy Andersen- University of Massachusetts, Amherst. Courtney C. Murdock- Cornell University. Lynn Adler- University of Massachusetts - Jules Davis; Kaitlin R. Deutsch (she/her/hers); Jeremy Andersen; Courtney C. Murdock; Lynn Adler

Title: Student Regular 10-min: P-IE, General 2

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, E146, OCC
Organizers:
Categories: Student Regular 10-Minute Presentation; Plant-Insect Ecosystems; Student
Tracks: Student Regular 10-Minute Presentation; Plant-Insect Ecosystems; Student
Presentations:
1:30 PM - 1:42 PM Pacific: Acquisition and transmission dynamics of 'CandidatusLiberibacter solanacearum' haplotypes A and B by potato psyllid nymphs: Bioassay and transcriptomic insight. Presenting Author: Junepyo Oh- Texas A&M University. Cecilia Tamborindeguy- TAMU - Junepyo Oh; Cecilia Tamborindeguy
1:42 PM - 1:54 PM Pacific: Cotton seed bug survivability on damaged seeds. Presenting Author: Bethany Johnson- University of California - Bethany Johnson
1:54 PM - 2:06 PM Pacific: EvaluatingDrosophila suzukiioviposition behavior andGanaspis kimorumoviposition and parasitism across four blueberry cultivars. Presenting Author: Stella Ruber- University of Florida. Oscar Liburd- University of Florida. Dakshina R. Seal, PhD- University of Florida - Stella Ruber; Oscar Liburd; Dakshina R. Seal, PhD
2:06 PM - 2:18 PM Pacific: Evaluating the effectiveness of long-lasting insecticide nets for mushroom phorid fly management. Presenting Author: Afure Ejomah- Pennsylvania State University. Michael Wolfin- Pennsylvania State University - Afure Ejomah; Michael Wolfin
2:18 PM - 2:30 PM Pacific: Evaluation of feed ingredients on growth and development of Corcyra cephalonica (Stainton). Presenting Author: Bhawana Regmi (she/her/hers)- University of California. Sundar Tiwari- Agriculture and Forestry University Nepal. Min Pokhrel- Agriculture and Forestry University Nepal. Rangaswamy Muniappan (he/him/his)- Virginia Tech - Bhawana Regmi (she/her/hers); Sundar Tiwari; Min Pokhrel; Rangaswamy Muniappan (he/him/his)

2:30 PM - 2:42 PM Pacific: Evaluation of insects consumed in the city of Kinshasa in Democratic Republic of Congo. Presenting Author: Valentin Tembe Mwela- Red Cross Higher Institute of Health Sciences. victor kanama kimongo ebo - Valentin Tembe Mwela; victor kanama kimongo ebo
2:42 PM - 2:54 PM Pacific: Break -
2:54 PM - 3:06 PM Pacific: Evaluation of reverse migration and morphological adaptations of Helicoverpa zea across North America using stable hydrogen isotope analysis. Presenting Author: Amina Angella Twaibu (she/her/hers)- University of Florida. Silvana Moraes- University of Florida. Julien Beuzelin- University of Florida. Isaac Esquivel- University of Florida - Amina Angella Twaibu (she/her/hers); Silvana Moraes; Julien Beuzelin; Isaac Esquivel
3:06 PM - 3:18 PM Pacific: Impact of plant seeding rate on stem borer (Family: Crambidae) injury in drill-seeded rice (Oryza sativa L) in Louisiana. Presenting Author: Tyler Ray Tagle Musgrove- Louisiana State University. Blake Wilson- Louisiana State University. Tanner LaGrange. Lina Bernaola- Texas A&M University. Michael Stout- Louisiana State University - Tyler Ray Tagle Musgrove; Blake Wilson; Tanner LaGrange; Lina Bernaola; Michael Stout
3:18 PM - 3:30 PM Pacific: Integrating cultural and biological control for sustainable management of flea beetles in high tunnel brassicas. Presenting Author: Julia Wooby- Purdue University. Ian Kaplan- Purdue University - Julia Wooby; Ian Kaplan
3:30 PM - 3:42 PM Pacific: Interactive effects of nectar availability, humidity, and flight activity on Pieris rapae butterfly fitness. Presenting Author: Marnesha Nicole Jones- University of Arizona. Goggy Davidowitz (he/him/his)- University of Arizona - Marnesha Nicole Jones; Goggy Davidowitz (he/him/his)
3:42 PM - 3:54 PM Pacific: Investigating the effect of plant growth stage on the susceptibility to stem borer larval preference in commercial rice varieties. Presenting Author: Maria Osako (she/her/hers)- Texas A&M University. Rebecca Pearson- Texas A&M AgriLife Research. Lina Bernaola- Texas A&M University - Maria Osako (she/her/hers); Rebecca Pearson; Lina Bernaola
3:54 PM - 4:06 PM Pacific: Modeling pathogen spread in bee foraging sites. Presenting Author: Austin Acree- University of Georgia. Lewis Bartlett- University of Georgia - Austin Acree; Lewis Bartlett
4:06 PM - 4:18 PM Pacific: Of the birds and the bees: How bird extirpation affects pollination in an island ecosystem. Presenting Author: Christina Jo Navarro- Virginia Polytechnic Institute and State University. Haldre Rogers- Virginia Tech. Harmony Yomai- University of Hawaii at Mnoa. Alexi Reubenog- Ecology of Bird Loss Project. Eunice Molina- Ecology of Bird Loss Project. Grace Hogye- Virginia State Parks. Brian Berg- Virginia Tech. Miles Dillah- Ecology of Bird Loss Project. Hamilton Kordell- Ecology of Bird Loss Project - Christina Jo Navarro; Haldre Rogers; Harmony Yomai; Alexi Reubenog; Eunice Molina; Grace Hogye; Brian Berg; Miles Dillah; Hamilton Kordell
4:18 PM - 4:30 PM Pacific: Break -
4:30 PM - 4:42 PM Pacific: Protecting live trees from the Douglas-fir beetle: Identifying the lower threshold of efficacy for Hercon Disrupt Bio-Beads MCH (patent pending no. 18/521,155), a new formulation made with biodegradable ingredients. Presenting Author: Lewis Goehring- North Dakota State University. Darrell Ross (he/him/his)- North Dakota State University. Nicole Green- U.S. Forest Service. Anna Webb- U.S. Forest Service. Danielle Malesky- U.S. Forest Service. Angela Coco (she/her/hers)- Hercon Environmental - Lewis Goehring; Darrell Ross (he/him/his); Nicole Green; Anna Webb; Danielle Malesky; Angela Coco (she/her/hers)
4:42 PM - 4:54 PM Pacific: Silicon-augmented resistance of Kikuyu grass (Cenchrus clandestinus) to invasive forage pest, the twolined spittlebug (Prosapia bicincta), in Hawaii. Presenting Author: Vanessa Goodman- University of Hawaii. Mark Thorne- University of Hawaii at Manoa. Mark Wright- University of Hawaii - Vanessa Goodman; Mark Thorne; Mark Wright
4:54 PM - 5:06 PM Pacific: Unraveling the transmission of heritable viral symbionts in aphids. Presenting Author: Vanesa Torres- University of Tennessee. Paula Rozo Lopez- University of Tennessee. Heidi Goodrich-Blair- University of Tennessee. Benjamin Parker- University of North Carolina - Vanesa Torres; Paula Rozo Lopez; Heidi Goodrich-Blair; Benjamin Parker

Title: 10-min: SysEB, Evolution 1 - Lineages Through Time

Time: **1:30 PM - 5:45** PM Pacific
Location: Oregon Convention Center, B113, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:
1:30 PM - 1:42 PM Pacific: Aposematism is a major axis of phenotypic diversification in nymphalid butterflies. Presenting Author: Moritz David Luerig- Florida Museum of Natural History - Moritz David Luerig

1:42 PM - 1:54 PM Pacific: Comparative morphology of reproductive division of labor in eusocial arthropods. Presenting Author: Phillip Barden (he/him/his)- New Jersey Institute of Technology - Phillip Barden (he/him/his)
1:54 PM - 2:06 PM Pacific: Convergent evolution of antipredatory bioacoustic traits in bombycoid moths (Lepidoptera: Saturniidae, Sphingidae). Presenting Author: Paul Masonick- Florida Museum of Natural History. Pamela Rivera- Boise State University. Jesse Barber- Boise State University. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Paul Masonick; Pamela Rivera; Jesse Barber; Akito Y. Kawahara, Ph.D.
2:06 PM - 2:18 PM Pacific: Cyclical parthenogenesis (like in many aphids) can boost evolvability on rugged adaptive landscapes. Presenting Author: Nate B. Hardy- Auburn University - Nate B. Hardy
2:18 PM - 2:30 PM Pacific: Does sexual competition predict horn polyphenism in the bull-horned dung beetle?. Presenting Author: Nathan J. McConnell, PhD- University of California - Nathan J. McConnell, PhD
2:30 PM - 2:42 PM Pacific: Ecological and evolutionary bases of nocturnal insects' rapid adaptation to a brighter night sky - a very long-term study and a genome wide association study. Presenting Author: Qian Tang- Harvard University. Avalon Owens- Harvard University. Wei-Ping Chan- Harvard University. Michael Crossley (he/him/his)- University of Delaware. David Owens- University of Delaware. Kristian Holmstrom- Rutgers University. Ben Sammarco (he/him/his)- University of Delaware - Qian Tang; Avalon Owens; Wei-Ping Chan; Michael Crossley (he/him/his); David Owens; Kristian Holmstrom; Ben Sammarco (he/him/his)
2:42 PM - 2:54 PM Pacific: Break -
2:54 PM - 3:06 PM Pacific: Evolution and function of GH28 pectinases in cerambycid beetles: Insights fromNeoclytus acuminatus. Presenting Author: Na Ra Shin- University of Memphis. Jacob Corcoran- USDA-ARS. Norman Best- Agricultural Research Service (ARS), Midwest Area / Research, Education, and Economics (REE). Rich Adams- University of Arkansas. Duane McKenna- University of Memphis - Na Ra Shin; Jacob Corcoran; Norman Best; Rich Adams; Duane McKenna
3:06 PM - 3:18 PM Pacific: Evolutionary tradeoffs in immunity across parasite challenge. Presenting Author: Allyson Ray (she/her/hers)- Vanderbilt University. Ann Tate- Vanderbilt University - Allyson Ray (she/her/hers); Ann Tate
3:18 PM - 3:30 PM Pacific: Insects demonstrate unparalleled capacity to reflect infrared solar radiation. Presenting Author: Terry McGlynn (he/him/his)- California State University. Yume Kamal, M.S. in progress- California State University. Megan Barkdull- Natural History Museum of Los Angeles County. Cassandra Bennett- California State University. Marivi Angel- California State University Dominguez Hills. Allison Shultz- Natural History Museum of Los Angeles County - Terry McGlynn (he/him/his); Yume Kamal, M.S. in progress; Megan Barkdull; Cassandra Bennett; Marivi Angel; Allison Shultz
3:30 PM - 3:42 PM Pacific: Local adaptation and ecological speciation in a tritrophic-context: Site-specific eco-evolutionary dynamics in a gallformer-parasitoid system. Presenting Author: Thomas H.Q. Powell- Binghamton University. Pheobe M. Deneen- Binghamton University. Philomena Coles-Carruthers- Tufts University. Linyi Zhang- George Washington University - Thomas H.Q. Powell; Pheobe M. Deneen; Philomena Coles-Carruthers; Linyi Zhang
3:42 PM - 3:54 PM Pacific: Patterns of genetic differentiation across three levels of intimate trophic relationships reveals evidence of strong reproductive isolation and host generalism in an inquiline wasp. Presenting Author: Robinson Sudan- Texas State University. Amanda Driscoe- L7 Informatics. Scott Egan- Rice University. Glen Hood- Wayne State University. Andrew Forbes- University of Iowa. Jim Ott- Texas State University - Robinson Sudan; Amanda Driscoe; Scott Egan; Glen Hood; Andrew Forbes; Jim Ott
3:54 PM - 4:06 PM Pacific: Revealing how social insects create living structures using advanced scanning technology and artificial intelligence. Presenting Author: Kayla Stan- University of Southern Mississippi. Karen Y. Robles Lopez (she/her/hers)- University of Southern Mississippi. Kaitlin M. Baudier- University of Southern Mississippi - Kayla Stan; Karen Y. Robles Lopez (she/her/hers); Kaitlin M. Baudier
4:06 PM - 4:18 PM Pacific: Sociality and nesting strategy are evolutionarily correlated and predict where bees can live. Presenting Author: Lena Heinrich (she/her/hers)- University of Michigan. Aline Martins, PhD- University of Michigan. Thais Vasconcelos, PhD- University of Michigan - Lena Heinrich (she/her/hers); Aline Martins, PhD; Thais Vasconcelos, PhD
4:18 PM - 4:30 PM Pacific: Break -
4:30 PM - 4:42 PM Pacific: Sublethal costs of infection reduce performance of collective tasks in social insects: A modelling study. Presenting Author: Supraja Rajagopal (they/them/theirs)- University of Georgia. Takao Sasaki- University of Rochester. Richard Hall- University of Georgia - Supraja Rajagopal (they/them/theirs); Takao Sasaki; Richard Hall
4:42 PM - 4:54 PM Pacific: Temporal genomics of the monarch butterfly (Danaus plexippus): An assessment of genetic diversity in response to population size decline. Presenting Author: Johnathan Peter Hruska, PhD- University of Nebraska-Lincoln. Jessica D. Petersen (she/her/hers)- Minnesota Biological Survey, Minnesota Department of Natural Resources. Robert E. Wilson- University of Nebraska-Lincoln. Wayne Thomgartin- US

Geological Survey. Sarah A. Sonsthagen- US Geological Survey - Johnathan Peter Hruska, PhD; Jessica D. Petersen (she/her/hers); Robert E. Wilson; Wayne Thomgartin; Sarah A. Sonsthagen
4:54 PM - 5:06 PM Pacific: The evolution of cheaper workers facilitated larger societies and accelerated diversification in ants. Presenting Author: Evan P. Economo- University of Maryland. Arthur Matte- Department of Zoology, University of Cambridge. Benoit Guenard- The University of Hong Kong. Shubham Gautam- Okinawa Institute of Science and Technology. Fumika Azuma- Okinawa Institute of Science and Technology. Julian Katzke (he/him/his)- Okinawa Institute of Science and Technology. Francisco Hita Garcia- Center for Integrative Biodiversity Discovery,Museum fr Naturkunde. Thomas van de Kamp- Karlsruhe Institute of Technology - Evan P. Economo; Arthur Matte; Benoit Guenard; Shubham Gautam; Fumika Azuma; Julian Katzke (he/him/his); Francisco Hita Garcia; Thomas van de Kamp
5:06 PM - 5:18 PM Pacific: The influence of diet on cuticular profiles in ants. Presenting Author: Tyler C. Murdock (he/him/his)- University of Central Florida. Christina Kwapich, PhD- University of Central Florida - Tyler C. Murdock (he/him/his); Christina Kwapich, PhD
5:18 PM - 5:30 PM Pacific: Timing is everything: Maternal and embryonic heat exposure reduces feminization rates in aWolbachia-infected spider. Presenting Author: Matthew R. Doremus- University of Illinois. Veronica Kegley- University of Kentucky. Jennifer White (she/her/hers)- University of Kentucky - Matthew R. Doremus; Veronica Kegley; Jennifer White (she/her/hers)

Title: Student Regular 10-min: FIT, MUVE, and PBT

Time: **1:30 PM - 5:45** PM Pacific
Location: Oregon Convention Center, F149, OCC
Organizers:
Categories: Student Regular 10-Minute Presentation; Formal and Informal Teaching; Medical, Urban, and Veterinary Entomology; Physiology, Biochemistry, and Toxicology; Student
Tracks: Student Regular 10-Minute Presentation; Formal and Informal Teaching; Medical, Urban, and Veterinary Entomology; Physiology, Biochemistry, and Toxicology; Student
Presentations:
1:30 PM - 1:42 PM Pacific: A case of mitochondrial mismatch in Tribolium castaneum hybrids?. Presenting Author: Morgan Leigh Olmstead (she/her/hers)- North Carolina State University. Marc Lorenzen- North Carolina State University - Morgan Leigh Olmstead (she/her/hers); Marc Lorenzen
1:42 PM - 1:54 PM Pacific: Analyzing sensory differences in hazelnuts damaged by brown marmorated stink bug. Presenting Author: Christoph Alexander Anderson- Oregon State University. Edwin T. Harris- Oregon State University. Vaughn M. Walton- Oregon State University. Camilla Santori- Oregon State University Department of Food Science and Technology. Elizabeth Tomasino- Oregon State University Department of Food Science and Technology - Christoph Alexander Anderson; Edwin T. Harris; Vaughn M. Walton; Camilla Santori; Elizabeth Tomasino
1:54 PM - 2:06 PM Pacific: Comparative analysis of two mosquito-predating species in South Korea, Toxorhynchites christophiand Lutzia vorax(Diptera: Culicidae) - ecological roles, distribution, and genetic attributes. Presenting Author: Junyoung Lee- Korea University. Sangwoo Seok- University of Florida. Yeon Jae Bae- Korea University - Junyoung Lee; Sangwoo Seok; Yeon Jae Bae
2:06 PM - 2:18 PM Pacific: Doctor of Plant Medicine: An interdisciplinary program focusing on pest control and plant health. Presenting Author: Md Tafsir Nur Nabi Rashed (he/him/his)- University of Florida. Morgan Grace Pinkerton- University of Florida. Amanda Hodges- University of Florida - Md Tafsir Nur Nabi Rashed (he/him/his); Morgan Grace Pinkerton; Amanda Hodges
2:18 PM - 2:30 PM Pacific: Domestic dogs as sentinels for human lyme disease: A spatio-temporal and modeling study of tick-borne disease emergence in Ohio (2013-2019). Presenting Author: Alexandra J. Bonney- The Ohio State University. Laura W. Pomeroy- The Ohio State University - Alexandra J. Bonney; Laura W. Pomeroy
2:30 PM - 2:42 PM Pacific: Effects of PFOA, PFBA and PFBS on the behavior and development of mosquito larvae (Culex pipiens). Presenting Author: Richard C. Viveiros, Jr.- University of Maine. Allison Gardner (she/her/hers)- University of Maine - Richard C. Viveiros, Jr.; Allison Gardner (she/her/hers)
2:42 PM - 2:54 PM Pacific: Evaluating effects of heat and deer urine on tick drag catch. Presenting Author: Charlotte Caldon- Michigan State University. M. Eric Benbow- Michigan State University Department of Entomology. Jean Tsao- Michigan State University - Charlotte Caldon; M. Eric Benbow; Jean Tsao
2:54 PM - 3:06 PM Pacific: Break -
3:06 PM - 3:18 PM Pacific: Factors affecting toxicity of gel baits against the American cockroach (Periplaneta americana): The role of life stages and competitive food. Presenting Author: Ashmita Sapkota- Auburn University. Arthur Appel- Auburn University - Ashmita Sapkota; Arthur Appel

3:18 PM - 3:30 PM Pacific: Form and function: Investigating the influence of structural deformation of leafhopper brochosomes on leafhopper surface hydrophobicity. Presenting Author: Elizabeth Bello- University of Illinois. Bolade Abiola-Fagba- University of Illinois Urbana-Champaign. Marianne Alleyne- University of Illinois - Elizabeth Bello; Bolade Abiola-Fagba; Marianne Alleyne
3:30 PM - 3:42 PM Pacific: Functional analysis of voltage-gated sodium channel mutations in Hypera postica (Coleoptera: Curculionidae) linked to pyrethroid resistance via Xenopusoocyte voltage clamp. Presenting Author: Muhammad Umer Masood- Montana State University. Erika Rodbell- Montana State University - Muhammad Umer Masood; Erika Rodbell
3:42 PM - 3:54 PM Pacific: Gene expression changes in response to a juvenile hormone analog in Bombus impatiens. Presenting Author: Joanna Elizabeth Saxon- Rutgers University. Grayson Tung- Rutgers University Department of Entomology. Chloe Hawkings- Rutgers University - Joanna Elizabeth Saxon; Grayson Tung; Chloe Hawkings
3:54 PM - 4:06 PM Pacific: Investigating the antimicrobial properties of X-Tox proteins. Presenting Author: Gillian Struble- Oklahoma State University. Haodong Yin- Oklahoma State University. Haobo Jiang- Oklahoma State University - Gillian Struble; Haodong Yin; Haobo Jiang
4:06 PM - 4:18 PM Pacific: Landscape and parasitoid effects on Polistes nesting success. Presenting Author: Garrett James Behrends- University of Missouri - Garrett James Behrends
4:18 PM - 4:30 PM Pacific: Break -
4:30 PM - 4:42 PM Pacific: Life stage-specific expression of sericin genes of Actias luna(Lepidoptera: Saturniidae). Presenting Author: Andrew Hong- Florida Museum of Natural History. Skyla Sheehy- Florida Museum of Natural History. Isabel Isabel Lopez-Cacacho- University of Florida. Bert Foquet- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Andrew Hong; Skyla Sheehy; Isabel Isabel Lopez-Cacacho; Bert Foquet; Akito Y. Kawahara, Ph.D.
4:42 PM - 4:54 PM Pacific: Not a bug, but a feature: Teaching wet lab skills to diverse learners. Presenting Author: Stephanie Eskew (she/her/hers)- Colorado State University - Stephanie Eskew (she/her/hers)
4:54 PM - 5:06 PM Pacific: Stress tolerance limits in two Antarctic polyextremophile insects, the endemic midge Belgica antarctica and the invasive midge Eretmoptera murphyi. Presenting Author: Cleverson Sousa Lima- University of Kentucky. Monica Aquilino- University of Birmingham. Scott Hayward- University of Birmingham. Nicholas Teets- University of Kentucky - Cleverson Sousa Lima; Monica Aquilino; Scott Hayward; Nicholas Teets
5:06 PM - 5:18 PM Pacific: The effects of chemically embalmed carrion on fire ant foraging. Presenting Author: Sophia Grace Streeter- University of Texas. Anjel M. Helms- Texas A&M University. Tammy Lee Bouldin (she/her/hers)- Texas A&M University - Sophia Grace Streeter; Anjel M. Helms; Tammy Lee Bouldin (she/her/hers)
5:18 PM - 5:30 PM Pacific: Warmer temperature delays the development of male mosquito reproductive tissues and accelerates the aging-dependent decrease in gene expression. Presenting Author: Norbu Shastri- Vanderbilt University. Lindsay E. Martin (she/her/hers)- Vanderbilt University. Tania Y. Estevez-Lao- Vanderbilt University. Julin F. Hillyer- Vanderbilt University - Norbu Shastri; Lindsay E. Martin (she/her/hers); Tania Y. Estevez-Lao; Julin F. Hillyer
5:30 PM - 5:42 PM Pacific: When halides turn hostile: Bromide as a larvicide in Anopheles gambiae. Presenting Author: Stella Matutina Ikuzwe- Johns Hopkins University. Josh I. Raji- Johns Hopkins University. Christopher Potter (he/him/his)- Johns Hopkins University School of Medicine. Steven E. Rokita- Johns Hopkins University - Stella Matutina Ikuzwe; Josh I. Raji; Christopher Potter (he/him/his); Steven E. Rokita

Title: Editor Summit

Time: **2:00 PM - 4:00** PM Pacific
Location: Hyatt Regency Portland, Willamette 1, Hyatt
Organizers: Josh Lancette- Entomological Society of America
Categories: Meetings & Events; Committee Meeting; Publications
Tracks: Meetings & Events; Committee Meeting; Publications

Title: Standardizing the Collection of Insect Trait Data to Identify Ecological Functions

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, A106, OCC
Organizers: Ellen Welti (she/her/hers)- Smithsonian Institute; Kayla I. Perry- The Ohio State University; DeShae Dillard- Michigan State University; Karl Adam Roeder- USDA-ARS; Nathan Jay Baker (he/him/his)- State Scientific Research Institute Nature Research Centre; Elinor Lichtenberg- University of North Texas; Vaughn Shirey- Florida Museum of Natural History; Jessica Kansman (she/her/hers)- Montana State University; Taylor Kennedy- Montana State University

Categories: Workshop; Early Career; Publications; Student
Abstract: Attendees will take part in a unified effort to collect new and harmonized insect trait data. Discussion groups will identify easily measured traits that provide insight into five primary ecological roles and functions. All attendees are invited to co-author a data paper using a protocol for insect trait collection.
Tracks: Workshop; Early Career; Publications; Student

Title: Small Orders, Big Ideas: Biodiversity of Polyneoptera

Time: **2:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, B115, OCC
Organizers: Brandon Woo- Texas A&M University; Shelby Grice- Mississippi State University
Categories: Member Symposium; Systematics, Evolution, and Biodiversity
Abstract: Polyneopteran orders are often underrepresented at the ESA annual meeting. This symposium seeks to provide a forum for learning about current research projects involving these diverse insects. Join us for engaging presentations on the systematics, evolution, and ecology of a group of fascinating, yet poorly known insects!
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity
Presentations:
2:30 PM - 2:35 PM Pacific: Introductory remarks. Presenting Author: Brandon Woo- Texas A&M University - Brandon Woo
2:35 PM - 2:50 PM Pacific: Grasshopper gaps and goals, the Acrididae of the Santa Barbara Museum of Natural History collection. Presenting Author: Alexander Harman- Santa Barbara Museum of Natural History - Alexander Harman
2:50 PM - 3:05 PM Pacific: Cockroaches in a coal mine: How many cockroaches have gone extinct and is it a sign of the end of days?. Presenting Author: Dominic Evangelista- University of Illinois - Dominic Evangelista
3:05 PM - 3:20 PM Pacific: Taxonomic revision and population disjunctions of Hesperotettix (Orthoptera: Acrididae). Presenting Author: Shelby Grice- Mississippi State University. JoVonn Hill- Mississippi Entomological Museum - Shelby Grice; JoVonn Hill
3:20 PM - 3:35 PM Pacific: NE USA stonefly (Plecoptera) regional species of greatest conservation need: Importance of taxonomic study, museum specimens, and new collecting in preserving imperiled stoneflies. Presenting Author: R. Edward Dewalt- Illinois Natural History Survey. Scott Grubbs- Western Kentucky University. Luke Myers- SUNY Plattsburgh. Chris Verdone- North Carolina Department of Environmental Quality. Phillip N. Hogan- Illinois Natural History Survey. Theodore Cook- Illinois Natural History Survey. Lily Hart- University of Illinois. Jack Merola-Lapson- Western Kentucky University. Josie Griffith- Western Kentucky University. Maria Jankowski- SUNY Plattsburgh - R. Edward Dewalt; Scott Grubbs; Luke Myers; Chris Verdone; Phillip N. Hogan; Theodore Cook; Lily Hart; Jack Merola-Lapson; Josie Griffith; Maria Jankowski
3:35 PM - 3:50 PM Pacific: The evolutionary history of pygmy mole crickets and their relatives (Orthoptera: Tridactyloidea). Presenting Author: Brandon Woo- Texas A&M University. Jackson B. Linde- Texas A&M University. Katie Puperi- Texas A&M University. Hojun Song- Texas A&M University - Brandon Woo; Jackson B. Linde; Katie Puperi; Hojun Song
3:50 PM - 4:00 PM Pacific: Break -
4:00 PM - 4:30 PM Pacific: Don't you know your name is Embioptera? Introducing a webspinner species that prefers to not spin silk, not guard her eggs and not associate with others. Presenting Author: Janice Edgerly-Rooks- Santa Clara University - Janice Edgerly-Rooks
4:30 PM - 4:45 PM Pacific: Revision of the Melanoplus tribulus species group with descriptions of five new species from west of the Mississippi river, USA. Presenting Author: Jireh Mwamukonda- Mississippi State University. JoVonn Hill- Mississippi Entomological Museum - Jireh Mwamukonda; JoVonn Hill
4:45 PM - 5:00 PM Pacific: Masters of disguise: New insights and research updates on the leaf insects (Phasmatodea: Phylliidae). Presenting Author: Royce Cumming- American Museum of Natural History - Royce Cumming
5:00 PM - 5:15 PM Pacific: Alternate genomic architectures, but convergent function of novel signals in the Pacific field cricket. Presenting Author: Gabrielle Welsh- University of Denver. Erica Larson- University of Denver. Nathan W. Bailey- St. Andrews University. Robin Tinghitella- University of Denver - Gabrielle Welsh; Erica Larson; Nathan W. Bailey; Robin Tinghitella
5:15 PM - 5:30 PM Pacific: Genomics of ice crawlers (Grylloblattodea): Exploring the genetic basis of an enigmatic lineage. Presenting Author: Ellie Gamett- American Museum of Natural History. Jessica L. Ware (she/her/hers)- American Museum of Natural History - Ellie Gamett; Jessica L. Ware (she/her/hers)

Title: Student Regular 10-min: SysEB, General

Time: **2:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers:
Categories: Student Regular 10-Minute Presentation; Systematics, Evolution, and Biodiversity; Student
Tracks: Student Regular 10-Minute Presentation; Systematics, Evolution, and Biodiversity; Student
Presentations:
2:30 PM - 2:42 PM Pacific: Baselines and bee declines: An assessment of bumblebee communities and parasite prevalence. Presenting Author: Amy Marie Storey- University of Wyoming. Lusha Tronstad, PhD- University of Wyoming. Linda Van Diepen- University of Wyoming - Amy Marie Storey; Lusha Tronstad, PhD; Linda Van Diepen
2:42 PM - 2:54 PM Pacific: Dung beetle activity correlates with reduced horn fly populations in Oklahoma. Presenting Author: Rodrigo Martins Soares- Oklahoma State University. Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University. Michael Cavallaro- Oklahoma State University. Justin Talley- Oklahoma State University - Rodrigo Martins Soares; Wyatt Wyatt Hoback (he/him/his); Michael Cavallaro; Justin Talley
2:54 PM - 3:06 PM Pacific: Many to one mapping in Mantodea: The role of phylogeny, mimicry, and behavior in prey capture diversity. Presenting Author: Lohitashwa Garikipati- American Museum of Natural History. Christopher Oufiero- Towson University. Brandon Jackson- FMC - Lohitashwa Garikipati; Christopher Oufiero; Brandon Jackson
3:06 PM - 3:18 PM Pacific: Pach-ed with species: Parsing a cryptic species complex (Psylloidea, Pachypsylla). Presenting Author: Meg Licht- Utah State University. Carol von Dohlen- Utah State University - Meg Licht; Carol von Dohlen
3:18 PM - 3:30 PM Pacific: Phylogeny and biogeography of the ant subfamily Dolichoderinae, with a focus on the genus Dolichoderus. Presenting Author: Ziv Ellis Lieberman- University of California. Jill T. Oberski (she/her/hers)- Smithsonian Institution. Brendon Elias Boudinot- Smithsonian Institution - Ziv Ellis Lieberman; Jill T. Oberski (she/her/hers); Brendon Elias Boudinot
3:30 PM - 3:42 PM Pacific: Planidial larval traits and resolving relationships in the ant parasitoid Eucharitidae (Chalcidoidea: Hymenoptera). Presenting Author: Ashley Y. Bui- University of California. John M. Heraty- University of California - Ashley Y. Bui; John M. Heraty
3:42 PM - 3:54 PM Pacific: Shining a light on ant thermoregulation: Near-infrared reflectivity across latitudes. Presenting Author: Yume Kamal, M.S. in progress- California State University. Meghan Barrett- Indiana University. Megan Barkdull- Natural History Museum of Los Angeles County. Allison Shultz- Natural History Museum of Los Angeles County. Terry McGlynn (he/him/his)- California State University Dominguez Hills - Yume Kamal, M.S. in progress; Meghan Barrett; Megan Barkdull; Allison Shultz; Terry McGlynn (he/him/his)
3:54 PM - 4:06 PM Pacific: Break -
4:06 PM - 4:18 PM Pacific: Stings and squeaks: The diversity of Mutillidae on Fairchild Air Force Base. Presenting Author: Lexi Menth (she/her/hers)- Washington State University. Williams Kevin- California Department of Food and Agriculture. Richard Zack- Washington State University. Elizabeth Murray- Washington State University - Lexi Menth (she/her/hers); Williams Kevin; Richard Zack; Elizabeth Murray
4:18 PM - 4:30 PM Pacific: The connection between mite-biting ability and flight performance. Presenting Author: D'Anastacia Hutchinson- Central State University. Hongmei Li-Byarlay (she/her/hers)- Central State University. Laverne Ambrister- Central State University - D'Anastacia Hutchinson; Hongmei Li-Byarlay (she/her/hers); Laverne Ambrister
4:30 PM - 4:42 PM Pacific: The influence of gene rearrangement on phylogenetic analyses & mutation rates of thrips mitochondrial genomes. Presenting Author: Reese Trujillo- Purdue University. Stephen Cameron- Purdue University - Reese Trujillo; Stephen Cameron
4:42 PM - 4:54 PM Pacific: Towards a robust phylogeny of Stactobiinae (Trichoptera: Hydroptilidae). Presenting Author: Mauricio Ramirez (he/him/his)- University of Minnesota. Robin Thomson- University of Minnesota - Mauricio Ramirez (he/him/his); Robin Thomson
4:54 PM - 5:06 PM Pacific: Uncovering parallel biogeography using phylogenomics in a widespread army ant genus. Presenting Author: Megan E. DuVal (she/her/hers)- University of Utah. Rodolfo S. Probst- University of Utah. John T. Longino (he/him/his)- University of Utah - Megan E. DuVal (she/her/hers); Rodolfo S. Probst; John T. Longino (he/him/his)
5:06 PM - 5:18 PM Pacific: Nest food stores, but not larval consumption, reduce protein foraging in Temnothorax longispinosusants. Presenting Author: Jaha Hughes. Philip Kohlmeier- University of Memphis. Alexandria Abbott- University of Memphis. Leah Moore- Christian Brothers University - Jaha Hughes; Philip Kohlmeier; Alexandria Abbott; Leah Moore

5:18 PM - 5:30 PM Pacific: Sequencing of a novel filamentous virus in the biocontrol agentDiachasmimorpha longicaudata. Presenting Author: Charles Dawe- University of Tennessee. Tyler J. Simmonds- USDA-ARS. Renee Corpuz- USDA-ARS. Angela Kauwe. Scott Geib (he/him/his)- USDA-ARS-PBARC. Kelsey Coffman (she/her/hers)- University of Tennessee - Charles Dawe; Tyler J. Simmonds; Renee Corpuz; Angela Kauwe; Scott Geib (he/him/his); Kelsey Coffman (she/her/hers)

Title: NCSRP Research Planning Meeting

Time: **3:00 PM - 4:30** PM Pacific
Location: Hyatt Regency Portland, Columbia 4, Hyatt
Organizers: Anthony Justin McMechan- University of Nebraska-Lincoln
Categories: Meetings & Events
Tracks: Meetings & Events

Title: An Introduction to Eco-spatial Data in R: Accessing, Visualizing, and Applying Machine Learning

Time: **3:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Kevin Li- Pennsylvania State University; Heather Grab (she/her/hers)- Pennsylvania State University; Mark Buckner- Pennsylvania State University
Categories: Workshop; Machine Learning and AI
Abstract: Are you interested in using landscape data and geographic information systems (GIS) in your research but don't know where to start? Want to find out how to use machine learning to tease out species distributions from publicly available datasets? Join our introductory workshop on working with eco-spatial data in R!
Tracks: Workshop; Machine Learning and AI

Title: International Society of Hymenopterists Mixer and Poster Session (Everybody Welcome)

Time: **3:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 254, OCC
Organizers: Natalie Dale-Skey- Natural History Museum; Robert Kresslein- USDA-SEL; Jessica Awad, PhD (she/her/hers)- Naturalis Biodiversity Center
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Fall-ing into Action: Strategies for Managing Fall Armyworm (Spodoptera Frugiperda)

Time: **3:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Alejandro R. Vasquez, M.S. (he/him/his)- University of Arkansas; Devi Balakrishnan (she/her/hers)- University of Arkansas
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: This session will discuss different management strategies and approaches to the highly destructive polyphagous pest, Fall armyworm (Spodoptera frugiperda). Our speakers will show different strategies of control in different crop systems, ranging from chemical control, host-plant resistance, and novel management strategies.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
3:30 PM - 3:33 PM Pacific: Introductory remarks. Presenting Author: Alejandro Rafael Vasquez Marcano, M.S.- University of Arkansas - Alejandro Rafael Vasquez Marcano, M.S.
3:33 PM - 3:49 PM Pacific: Strategies for managing invasive fall armyworm in rice. Presenting Author: Michael Stout- Louisiana State University. Jyoti Sharma (she/her/hers)- Louisiana State University. Evelyn Valdez-PhilRice - Michael Stout; Jyoti Sharma (she/her/hers); Evelyn Valdez
3:49 PM - 4:05 PM Pacific: Managing fall armyworm in Arkansas row crops and pastures. Presenting Author: Benjamin Thrash- University of Arkansas - Benjamin Thrash
4:05 PM - 4:21 PM Pacific: Strain-ing to manage the fall armyworm. Presenting Author: Andie C. Miller- Texas A&M University - Andie C. Miller

4:21 PM - 4:37 PM Pacific: Scalable IPM educational strategies in the Global South: Fall armyworm (Spodoptera frugiperda) and other pest systems. Presenting Author: Barry Pittendrigh- Purdue University - Barry Pittendrigh
4:37 PM - 4:53 PM Pacific: Susceptibility/resistance status of Spodoptera frugiperda to Bt and chemical insecticides in the Southern U.S.. Presenting Author: Tiago Silva- Louisiana State University - Tiago Silva
4:53 PM - 5:09 PM Pacific: Influence of temperature and insecticide residuality on fall armyworm larval survival in alfalfa systems. Presenting Author: Danna Judith Vera- The Ohio State University. Andy Michel- Ohio State University - Danna Judith Vera; Andy Michel
5:09 PM - 5:25 PM Pacific: Do the host strains matter when managing fall armyworm?. Presenting Author: Rodney Nagoshi- USDA-ARS - Rodney Nagoshi
5:25 PM - 5:28 PM Pacific: Closing remarks. Presenting Author: Devi Balakrishnan (she/her/hers)- University of Arkansas - Devi Balakrishnan (she/her/hers)

Title: New Member Social

Time: **4:00 PM - 5:00** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom C/D, Hyatt
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Lina Bernaola- Texas A&M University
Categories: Meetings & Events
Abstract: Are you new to ESA? Join ESA leaders and staff to learn more about the Society, how to maximize your membership, and answer any questions you have about the Annual Meeting. Mix and mingle with other new members and first time attendees in this casual get together giving you access to those who can help you navigate ESA.During the social, ESA staff and leaders will be available to show you around the conference center and give you some insights to planning this event, highlighting can't miss events and other insider tips it would take you years to learn.
Tracks: Meetings & Events

Title: Orthoptera Networking Event: For All Who Study Orthopteroid Insects!

Time: **4:00 PM - 4:30** PM Pacific
Location: Oregon Convention Center, G131, OCC
Organizers: Mira Word Ries- Arizona State University; Sydney Millerwise (she/her/hers)- Arizona State University; Arianne Cease- Arizona State University; Rick Overson- Arizona State University; Hojun Song- Texas A&M University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Opening Plenary

Time: **5:30 PM - 7:30** PM Pacific
Location: Oregon Convention Center, Oregon Ballroom, OCC
Organizers: Lina Bernaola- Texas A&M University
Categories: Plenary
Abstract: Join ESA President, Lina Bernaola as we kickoff Entomology 2025: Bridging Generations with Innovation, Legacy, and Passion.The opening plenary session will feature Sonny Ramaswamy . Presenting "Insect Science in Action: Entomology Advocacy" and Margarita Lopez-Uribe . Presenting "Lessons of Legacy, Innovation, and Passion from the Bee World."Following a long career in academia and government, Sonny Ramaswamy retired recently after serving for almost seven years as president of the Northwest Commission on Colleges and Universities (NWCCU), which accredits higher education institutions across the United States. Previously, President Barack Obama appointed Sonny to direct the National Institute of Food and Agriculture, which catalyzes transformative discoveries, innovations, and education to address societal challenges impacting food, nutrition and health, agriculture, and natural resource systems. He served as dean of Oregon State University's College of Agricultural Sciences, director of Purdue's Agricultural Research Programs, university distinguished professor and head of entomology at Kansas State University, and professor of entomology at Mississippi State University. Sonny's BSc (Agriculture) and MSc (Entomology) are from the University of Agricultural Sciences, Bangalore, India; his PhD (Entomology) is from Rutgers University. He undertook postdoctoral research at Michigan State University and is a graduate of Harvard's Management Development Program.Margarita Lopez-Uribe is the Lorenzo L. Langstroth Early Career Professor and Associate Professor of Entomology at Penn State University. She is also an extension specialist of Pollinator Health for Penn State Extension. Margarita received her BS in Biology from Universidad de los Andes (Colombia), her MS in Genetics and Evolution from Universidade Federal de So Carlos (Brazil), and her Ph.D. in Entomology from Cornell

University (USA). She was an NSF postdoctoral research fellow at North Carolina State University before joining Penn State. Margarita was awarded the ESA Early Career Research Award in 2018, an NSF CAREER award in 2021, and a Presidential Early Career Awards for Scientists and Engineers (PECASE) in 2025. As an evolutionary ecologist, she is broadly interested in understanding how human-mediated selection shapes bee health and the long-term persistence of their populations in agricultural areas.
Tracks: Plenary

Title: Exhibit Hall
Time: **7:30 PM - 9:30** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers:
Categories: General; Exhibit Hall
Abstract: The Exhibit Hall will feature exhibitors, poster display presentations, student club tables, and Artisan Row. Our exhibitors have the latest entomological equipment, supplies, gifts, and reference materials.Be sure to check out The Hive -- an interactive networking space in the Exhibit Hall where attendees can connect, collaborate, and spark new ideas. Join us for conversation starters and creative exchanges!Don't miss the Exhibitor Demonstration Stage, where industry leaders will showcase the latest technologies and innovations shaping the future. Check the program to see when your favorite exhibitor will be . Presenting.Daily Exhibit Hall Hours: Sunday, November 9: **7:30**-**9:30** p.m. Monday, November 10: 9 a.m. - 5 p.m. Tuesday, November 11: 9 a.m. - 5 p.m. Wednesday, November 12: 9 a.m. - 12 p.m.
Tracks: General; Exhibit Hall

Title: Welcome Reception
Time: **7:30 PM - 9:30** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers:
Categories: Meetings & Events; Exhibit Hall
Tracks: Meetings & Events; Exhibit Hall

Monday, November 10, 2025

Title: Moderator Training
Time: **7:00 AM - 7:30 AM** Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America
Categories: General; Moderator Training
Abstract: All moderators and session organizers are required to attend one of the moderator training sessions. Here you will receive details on equipment operation, light controls, and other responsibilities. Training sessions will be held during the following times: Saturday, November 8 4-**4:30** p.m. Sunday, November 9 7-**7:30** a.m. and **12:30**-1 p.m. Monday, November 10 7-**7:30** a.m. Tuesday, November 11 7-**7:30** a.m. and **12:30**-1 p.m.
Tracks: General; Moderator Training

Title: Student Competition Judges Training
Time: **7:00 AM - 7:30 AM** Pacific
Location: Oregon Convention Center, C124, OCC
Organizers: Dalton Ludwick- USDA-ARS; Anh K. Tran (She/They)- ISK Biosciences
Categories: General; Meetings & Events
Tracks: General; Meetings & Events

Title: Women and Allies in Entomology Breakfast
Time: **7:00 AM - 8:00 AM** Pacific
Location: Oregon Convention Center, Oregon Ballroom, OCC
Organizers:
Categories: Meetings & Events
Abstract: Ticket Price: $57.45 The Women & Allies in Entomology Breakfast is an inclusive networking event that connects women and underrepresented groups with mentors and career information. Thanks to our sponsor,

Corteva Agriscience, reduced-cost breakfast tickets will be available for $5 to the first 189 Students and Early Career Professionals who register. As our Society and this event continue to grow, and with the continued generosity of Corteva Agriscience, we are updating our ticket model to improve access for Students and Early Career Professional (ECP) members. This year, instead of offering complimentary tickets, student and ECP members can purchase a $5 reduced cost breakfast ticket during online registration. By introducing a reduced ticket price, we can provide affordable breakfasts to more students and ECP attendees. Please note that tickets will not be available at the door. All tickets must be purchased in advance during registration and picked up at conference check-in. The only way to secure your spot and access this valuable networking opportunity is to purchase your ticket ahead of time. Plated Breakfast Menu Served with Coffee, Decaf Coffee, Assorted Hot Tea and Water Option 1: Scrambled Eggs, Applewood Smoked Bacon, Breakfast Potatoes, Plum Tomato Option 2 (Vegetarian): Egg White Frittata with Spinach, Asparagus, Broccoli, Caramelized Onion, Feta Cheese, Breakfast Potatoes, Plum Tomato Option 3 (Vegan): Garden Breakfast Bowl - Warm quinoa and sweet potato hash with turmeric-spiced tofu scramble, roasted broccolini, and blistered grape tomatoes, pickled red onions, cashew-chipotle crema.*Be sure to share all your food allergies when registering so that we can match up your dietary lifestyle with your ticket.
Tracks: Meetings & Events

Title: Judges Break Room
Time: **7:00 AM - 2:00** PM Pacific
Location: Oregon Convention Center, G131, OCC
Organizers: Dalton Ludwick- USDA-ARS; Anh K. Tran (She/They)- ISK Biosciences
Categories: General; Meetings & Events
Abstract: All judges and alternates are invited to the Judges Break Room on Monday, November 10. Judges may pickup paper copies of the judging rubric for their assigned session(s). Additionally, judges are welcome to use the Break Room as a space to enter scores. Alternate judges are requested to present in the Break Room **7:50-8:10** a.m. and **10:20-10:40** ona.m. Monday morning in the event they are needed to fill a last-minute vacancy.
Tracks: General; Meetings & Events

Title: Presentation Preview Room (PPR)
Time: **7:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, A108-109, OCC
Organizers:
Categories: General; Presentation Preview Room (PPR)
Abstract: The Presentation Preview Room (PPR) is located in A108-109 of the Oregon Convention Center. Presenters are expected to upload their presentation the day before their scheduled talk. Operating hours are as follows: Saturday, November 8 3-6 p.m. Sunday, November 9 7 a.m. - 5 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m.
Tracks: General; Presentation Preview Room (PPR)

Title: Registration and Information Center
Time: **7:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: General; Registration and Information Center
Abstract: Registration will be held in Pre-Function Lobby A of the Oregon Convention Center, during the following times: Saturday, November 8 2-6 p.m Sunday, November 9 7 a.m. - 8 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m. Phone number to the Registration and Information Center: + 1 (301) 731-4535 x3512
Tracks: General; Registration and Information Center

Title: Self Service Coat and Bag Check
Time: **7:00 AM - 8:00** PM Pacific
Location: Oregon Convention Center, A102, OCC
Organizers:
Categories: General; Self Service Coat and Bag Check
Abstract: Self Service coat and bag check can be found in A102 during the following times. This is an unattended, self-service coat and bag check area. Use at your own risk. ESA is not responsible for any lost,

stolen, or damaged items. Sunday, November 9 7 a.m. - 10 p.m. Monday, November 10 7 a.m. - 8 p.m. Tuesday, November 11 7 a.m. - 8 p.m. Wednesday, November 12 7 a.m. - 6 p.m. The OCC has locker rentals available for short-term storage of personal items through their partners at LocketGo. These salmon-colored lockers are reservable with your mobile device and a credit card. There are three convenient locations throughout the building: MLK Lobby (near main entrance), Holladay Lobby (north end of the building), and Ginkoberry Concourse (south end of the building).
Tracks: General; Self Service Coat and Bag Check

Title: Lactation Room
Time: **7:00 AM - 8:00** PM Pacific
Location: Oregon Convention Center, C127, OCC
Organizers:
Categories: General; Lactation Room
Abstract: ESA is happy to provide a private and secure space for all nursing parents. ESA supports all nursing parents to nurse as needed in all general meeting spaces and nursing in public is protected by Oregon law. The ESA dedicated Lactation Room is located in C127 of the Oregon Convention Center. The room is equipped with a mini fridge for storage. OCC also provides two Mamava nursing suites. These private and secure suites are located near the A and E meeting rooms on Level 1.
Tracks: General; Lactation Room

Title: Relaxation Retreat
Time: **7:00 AM - 8:00** PM Pacific
Location: Oregon Convention Center, C128, OCC
Organizers:
Categories: General; Relaxation Retreat
Abstract: Take a break from the conference environment, improve your focus, reduce stress and anxiety, and relax. This room is a designated space designed to provide a calming and soothing environment for attendees.
Tracks: General; Relaxation Retreat

Title: IRAC-US Meeting
Time: **7:30 AM - 1:30** PM Pacific
Location: Hyatt Regency Portland, Columbia 3, Hyatt
Organizers: Caydee Savinelli (she/her/hers)- Syngenta; Graham Head- Bayer Crop Science
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Grad 10-min Competition: MUVE, Insecticides
Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Colony-level variation in fire ant foraging activity correlates with mortality in laboratory bait evaluations. Presenting Author: Fang-Ling Liu- Virginia Polytechnic Institute and State University. Wei-Jiun Lin- Department of Entomology, Virginia Tech. Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University - Fang-Ling Liu; Wei-Jiun Lin; Chin-Cheng Scotty Yang
8:12 AM - 8:24 AM Pacific: Effects of over-the-counter insecticidal aerosol products on sociotomy of the pharaoh ant, Monomorium pharaonis(Hymenoptera: Formicidae). Presenting Author: Xingwei Feng (he/him/his)- University of California. Dong-Hwan Choe, BCE- University of California. Chow-Yang Lee, BCE (he/him/his)- University of California - Xingwei Feng (he/him/his); Dong-Hwan Choe, BCE; Chow-Yang Lee, BCE (he/him/his)
8:24 AM - 8:36 AM Pacific: Insecticide susceptibility profiles of Culex and Aedes mosquitoes in Maricopa County, Arizona. Presenting Author: Ernest Boampong (he/him/his)- Arizona State University. Silvie Huijben- Arizona State University. Ryon Salek- Arizona State University - Ernest Boampong (he/him/his); Silvie Huijben; Ryon Salek

8:36 AM - 8:48 AM Pacific: Investigating insecticide resistance in Aedes mosquitoes after blood feeding in South Texas. Presenting Author: Fernanda Martinez-Gomez. Jason Tidwell- United States Department of Agriculture. Christopher Vitek- University of Texas - Fernanda Martinez-Gomez; Jason Tidwell; Christopher Vitek
8:48 AM - 9:00 AM Pacific: Knockdown resistance in Culex quinquefasciatus at pyrethroid treated and untreated sites in Albuquerque, New Mexico. Presenting Author: Dianne Peterson- University of New Mexico. Sharley Wasena- University of New Mexico. Jessica Martin- City of Albuquerque, Environmental Health Department. Jessie Smith- City of Albuquerque, Environmental Health Department. Nicholas Pederson- City of Albuquerque, Environmental Health Department. Mark DiMenna- City of Albuquerque, Environmental Health Department. Douglas Perkins- Center for Global Health, University of New Mexico HSC - Dianne Peterson; Sharley Wasena; Jessica Martin; Jessie Smith; Nicholas Pederson; Mark DiMenna; Douglas Perkins
9:00 AM - 9:12 AM Pacific: Multi-locus kdr resistance in Aedes aegypti across insecticide-treated and untreated areas in Albuquerque. Presenting Author: Sharley Wasena- University of New Mexico. Clinton Onyango- University of New Mexico. Miriam Bechtel- Center for Global Health, University of New Mexico HSC. Dianne Peterson- University of New Mexico. Jessica Martin- City of Albuquerque, Environmental Health Department. Jessie Smith- City of Albuquerque, Environmental Health Department. Nicholas Pederson- City of Albuquerque, Environmental Health Department. Mark DiMenna- City of Albuquerque, Environmental Health Department. Douglas Perkins- Center for Global Health, University of New Mexico HSC. Ivy Hurwitz- University of New Mexico - Sharley Wasena; Clinton Onyango; Miriam Bechtel; Dianne Peterson; Jessica Martin; Jessie Smith; Nicholas Pederson; Mark DiMenna; Douglas Perkins; Ivy Hurwitz
9:12 AM - 9:24 AM Pacific: Proactive baiting for sustainable German cockroach (Blattella germanica) control. Presenting Author: Bandana Shrestha (she/her/hers)- University of Kentucky. Zachary C. C. DeVries- Department of Entomology, University of Kentucky - Bandana Shrestha (she/her/hers); Zachary C. C. DeVries
9:24 AM - 9:36 AM Pacific: Resistance profiling of German cockroaches across the continental U.S.. Presenting Author: Jun-Yin Lum- University of California. Michael Rust- University of California. Dong-Hwan Choe, BCE- University of California. Chow-Yang Lee, BCE (he/him/his)- University of California - Jun-Yin Lum; Michael Rust; Dong-Hwan Choe, BCE; Chow-Yang Lee, BCE (he/him/his)
9:36 AM - 9:48 AM Pacific: Temporal changes in kdr mutations in Cimex lectularius L. populations in multi-unit housing in New Jersey. Presenting Author: Jin-Jia Yu- Rutgers University. Warren Booth- Virginia Polytechnic Institute and State University. Changlu Wang- Rutgers University - Jin-Jia Yu; Warren Booth; Changlu Wang

Title: Grad 10-min Competition: MUVE, Microbes

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 256, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Assessing tick-borne zoonotic potential of Babesia microti and microti-like emergence in urban wildlife. Presenting Author: Marie Lilly, M.S.- Columbia University. Maria Diuk-Wasser- Columbia University - Marie Lilly, M.S.; Maria Diuk-Wasser
8:12 AM - 8:24 AM Pacific: Characterization of the primary endosymbionts in the salivary secretion of the lone star tick (Amblyomma americanum). Presenting Author: Andres Felipe Holguin Rocha- Kansas State University. Paulina Maldonado- University of Arizona. Yoonseong Park- Kansas State University - Andres Felipe Holguin Rocha; Paulina Maldonado; Yoonseong Park
8:24 AM - 8:36 AM Pacific: Identification of novel Wolbachia infections in Florida mosquitoes. Presenting Author: Leena Salama- University of Florida. Daniel Perez-Ramos, PhD (he/him/his)- University of Florida. Ian Sandum- University of Florida/Entomology and Nematology Department. Alexandra Bauer- University of Florida. Alexander Urlaub- University of Florida/Entomology and Nematology Department. Abdullah Alomar, PhD- Department of Plant Protection College of Food and Agricultural Sciences, King Saud University. Eric Caragata, PhD- The University of Florida. Lawrence Reeves, PhD- University of Florida - Leena Salama; Daniel Perez-Ramos, PhD (he/him/his); Ian Sandum; Alexandra Bauer; Alexander Urlaub; Abdullah Alomar, PhD; Eric Caragata, PhD; Lawrence Reeves, PhD
8:36 AM - 8:48 AM Pacific: Lizard-loving malaria mosquito Culex antillummagnorum (Diptera: Culicidae) following flowering herbs Heliconia caribaea across a tropical forest in Puerto Rico. Presenting Author: Cassandra Urquhart- University of Southern Mississippi. Donald A. Yee (he/him/his)- University of Southern Mississippi - Cassandra Urquhart; Donald A. Yee (he/him/his)

8:48 AM - 9:00 AM Pacific: Microbial interactions between carrion insect symbiont Yarrowia lipolytica and soil bacteria. Presenting Author: Wan-Hsuan Li- Texas A&M University. Nityakalyani Josyula- Texas A&M. Paul Straight- Texas A&M. Aaron Tarone- Texas A&M University - Wan-Hsuan Li; Nityakalyani Josyula; Paul Straight; Aaron Tarone
9:00 AM - 9:12 AM Pacific: Nuisance flies (Diptera: Muscidae) are bonafide carriers of opportunistic bovine pathogens on dairy farms. Presenting Author: Nolan David Amon- University of Wisconsin. Garret Suen- UW-Madison. Kerri Coon- University of Wisconsin. Andrew Sommer- UW-Madison - Nolan David Amon; Garret Suen; Kerri Coon; Andrew Sommer **9:24 AM** Pacific: Of mud and mosquitoes: Investigating the microbiome of Deinocerites cancer. Presenting Author: Alexandra Bauer- University of Florida. Daniel Perez-Ramos, PhD (he/him/his)- University of Florida. Amely Bauer, PhD- University of Florida. Lawrence Reeves, PhD- University of Florida. Eric Caragata, PhD- The University of Florida - Alexandra Bauer; Daniel Perez-Ramos, PhD (he/him/his); Amely Bauer, PhD; Lawrence Reeves, PhD; Eric Caragata, PhD **9:36 AM** Pacific: Variation of volatile organic compounds produced from Escherichia coli O157:H7 contaminated Gainesville digested by black soldier fly (Diptera: Stratiomyidae) larvae. Presenting Author: Rachel McNeal (she/her/hers)- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University - Rachel McNeal (she/her/hers); Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his) **9:48 AM** Pacific: Virome profiling of Culex tarsalis through small RNA-seq: A challenge of suboptimal samples. Presenting Author: Jaime Manzano-Alvarez- Pennsylvania State University. Sultan Asad- The Pennsylvania State University. Duverney Chaverra-Rodriguez- Universidad Nacional de Colombia Sede de La Paz. Eunhu Suh- The Pennsylvania State University. Jason L. Rasgon- The Pennsylvania State University - Jaime Manzano-Alvarez; Sultan Asad; Duverney Chaverra-Rodriguez; Eunhu Suh; Jason L. Rasgon

Title: Grad 10-min Competition: MUVE, Molecular Biology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Antisense insights across symbiotic boundaries: Evidence for a proviral Wolbachia gene function in Aedes aegypti. Presenting Author: Quinn M. Hankinson- Pennsylvania State University. Matthew J. Jones- Huck Institutes of the Life Sciences, The Pennsylvania State University. Elizabeth A. McGraw- Biology Department and Huck Institutes of the Life Sciences, Penn State University - Quinn M. Hankinson; Matthew J. Jones; Elizabeth A. McGraw
8:12 AM - 8:24 AM Pacific: Asia to Africa: Containing the spread of an urban malaria vector. Presenting Author: John Ohiolei- Curtin University. Ben Phillips- Curtin University. Nick Golding- University of Western Australia - John Ohiolei; Ben Phillips; Nick Golding
8:24 AM - 8:36 AM Pacific: Characterization and expression analysis of the foraging gene in the Formosan subterranean termite, Coptotermes formosanus. Presenting Author: Arjun Khadka- Louisiana State University. Qian Sun- Louisiana State University - Arjun Khadka; Qian Sun
8:36 AM - 8:48 AM Pacific: Investigating the role of the ribosomal P-stalk proteins in mosquito reproduction. Presenting Author: Hailey Luker- New Mexico State University - Hailey Luker
8:48 AM - 9:00 AM Pacific: Juvenile hormone-mediated chromatin remodeling: Insights into synergistic action of downstream factors, Hairy and Krppel homolog 1. Presenting Author: Roumik Banerjee- Birla Institute of Technology and Sciences. Jayapriya CS- Birla Institute of Technology and Sciences- Pilani, Goa. Ajeet Kumar Mohanty- ICMR-National Institute of Malaria Research, Field Station, Panaji. Alexander S. Raikhel (he/him/his)- University of California, Reverside. Tusar Tirtha Saha- Birla Institute of Technology and Sciences - Roumik Banerjee; Jayapriya CS; Ajeet Kumar Mohanty; Alexander S. Raikhel (he/him/his); Tusar Tirtha Saha
9:00 AM - 9:12 AM Pacific: Molecular characterization and immune function of phospholipase A2 in the lone star tick. Presenting Author: Bo Lyu (he/him/his)- University of Missouri. Qisheng Song- University Of Missouri. Xuyuan Gao- University of Missouri - Bo Lyu (he/him/his); Qisheng Song; Xuyuan Gao
9:12 AM - 9:24 AM Pacific: Phosphoproteomic analysis of the Aedes aegypti midgut before and after blood-feeding. Presenting Author: Paola Najera- Texas A&M University. Zach Adelman- Texas A&M University - Paola Najera; Zach Adelman

9:24 AM - 9:36 AM Pacific: Physiological functions of dopamine/octopamine receptors during cuticle expansion of the Asian longhorned tick, Haemaphysalis longicornis. Presenting Author: Seoyul Hwang- Kyungpook National University. Donghun Kim- Kyungpook National University - Seoyul Hwang; Donghun Kim
9:36 AM - 9:48 AM Pacific: The impact of nutrition on insecticide resistance and gene expression inAedes aegypti. Presenting Author: Esmeralda Rosas- University of Texas. Sarah Maestas, Professor- University of Texas Rio Grande Valley. Jason Tidwell- United States Department of Agriculture. Christopher Vitek- University of Texas - Esmeralda Rosas; Sarah Maestas, Professor; Jason Tidwell; Christopher Vitek

Title: Grad 10-min Competition: MUVE, Surveillance

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: A S.M.A.R.T. approach to fly and tick surveillance in beef cattle production systems. Presenting Author: Katy Smith (she/her/hers)- University of Tennessee. Hao Gan- University of Tennessee. Amin Nasiri- University of Tennessee. Rebecca Trout Fryxell (she/her/hers)- University of Tennessee - Katy Smith (she/her/hers); Hao Gan; Amin Nasiri; Rebecca Trout Fryxell (she/her/hers)
8:12 AM - 8:24 AM Pacific: Comprehensive assessment of ectoparasites on Norway rats in New York City: Implications for urban public health and pest management. Presenting Author: Babatunji Sunday Daramola- Rutgers University. Changlu Wang- Rutgers University - Babatunji Sunday Daramola; Changlu Wang
8:24 AM - 8:36 AM Pacific: Establishing vector surveillance in areas with limited infrastructure through MEGA: BITESS; a community-driven vector surveillance and education program. Presenting Author: Hannah Ginn- University of Tennessee. Jennifer Chandler- University of Tennessee. Karen M. Vail- University of Tennessee. Rebecca Trout Fryxell (she/her/hers)- University of Tennessee - Hannah Ginn; Jennifer Chandler; Karen M. Vail; Rebecca Trout Fryxell (she/her/hers)
8:36 AM - 8:48 AM Pacific: Identification of four South Korean mosquito species using deep learning and wingbeat frequencies in laboratory conditions. Presenting Author: HakHyun Kim- Korea University. Changseob Lim- Ojeong Resilience Institute. Junyoung Lee- Korea University. Eunbeen Kim- Korea University. Een Jun Hwang- Korea University. Dong Gun Kim- Sahmyook University. Sungsoo Kim- C&T. Yeon Jae Bae- Korea University - HakHyun Kim; Changseob Lim; Junyoung Lee; Eunbeen Kim; Een Jun Hwang; Dong Gun Kim; Sungsoo Kim; Yeon Jae Bae
8:48 AM - 9:00 AM Pacific: Identification of tick-borne pathogens and animal hosts of Asian longhorned tick, Haemaphysalis longicornis, in the South Korea. Presenting Author: Jiseok Kim- Kyungpook National University. Donghun Kim- Kyungpook National University - Jiseok Kim; Donghun Kim
9:00 AM - 9:12 AM Pacific: Improving larval surveillance of Aedes aegypti and Ae. Albopictus using environmental DNA analysis. Presenting Author: Stephen Opoku Afriyie- Texas Tech University. Matthew A. Barnes- Texas Tech University. Corey Brelsfoard- Texas Tech University. Joseph McMillan- Texas Tech University - Stephen Opoku Afriyie; Matthew A. Barnes; Corey Brelsfoard; Joseph McMillan
9:12 AM - 9:24 AM Pacific: Lasers and ticks and AI, oh my! Mid-infrared spectroscopy as a novel form of pathogen surveillance in ticks. Presenting Author: Joshua Phelps Jackson- Kansas State University. Jewell Brey- VecTech, LLC. Vasiliki Ikonomidou- VecTech, LLC. Tristan Ford- VecTech, LLC. Autumn Goodwin- VecTech LLC. Lee Cohnstaedt (he/him/his)- USDA-ARS. Cassandra Olds- Kansas State University - Joshua Phelps Jackson; Jewell Brey; Vasiliki Ikonomidou; Tristan Ford; Autumn Goodwin; Lee Cohnstaedt (he/him/his); Cassandra Olds
9:24 AM - 9:36 AM Pacific: Modeling the effects of weather variables on Culex mosquito abundance in a high desert environment. Presenting Author: Clinton Onyango- University of New Mexico. Jessica Martin- City of Albuquerque, Environmental Health Department. Jessie Smith- City of Albuquerque, Environmental Health Department. Nicholas Pederson- City of Albuquerque, Environmental Health Department. Mark DiMenna- City of Albuquerque, Environmental Health Department. Douglas Perkins- Center for Global Health, University of New Mexico HSC. Ivy Hurwitz- University of New Mexico - Clinton Onyango; Jessica Martin; Jessie Smith; Nicholas Pederson; Mark DiMenna; Douglas Perkins; Ivy Hurwitz
9:36 AM - 9:48 AM Pacific: Understanding the effectiveness of tick control measures on residential properties. Presenting Author: Michael Gabriele Galli, Jr.- University of Maine. Andrew Lover- University of Massachusetts, Amherst. Elissa Ballman-Whitman- University of Maine. Neeta Connally- Western CT State University. Allison

Gardner (she/her/hers)- University of Maine - Michael Gabriele Galli, Jr.; Andrew Lover; Elissa Ballman-Whitman; Neeta Connally; Allison Gardner (she/her/hers)

Title: Grad 10-min Competition: PBT, Apiculture

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, F150, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Evaluating the flight performance of Helicoverpa zea populations carrying different Cry and Vip3A resistance alleles. Presenting Author: Zixia Song- University of Minnesota. David Kerns- Texas A&M University. Haley Kennedy- Texas A&M University. Fei Yang- University of Minnesota - Zixia Song; David Kerns; Haley Kennedy; Fei Yang
8:12 AM - 8:24 AM Pacific: IAPV-induced arrested development in infected honey bee pupae. Presenting Author: Vincent Prayugo- University of Illinois. Adam Dolezal- University of Illinois - Vincent Prayugo; Adam Dolezal
8:24 AM - 8:36 AM Pacific: Immune response variation among different honey bee genotypes. Presenting Author: Emilia Lynn Marie Burnham (she/her/hers)- University of California. Kerry Mauck- University of California. Boris Baer- University of California. Naoki Yamanaka- University of California, Riverside - Emilia Lynn Marie Burnham (she/her/hers); Kerry Mauck; Boris Baer; Naoki Yamanaka
8:36 AM - 8:48 AM Pacific: Influence of pollen and carbohydrate sources on honey bee longevity and physiological factors. Presenting Author: Arezoo Najarpoor- Gyeongkuk National University. Saeed Mohamadzade Namin- Oregon State University. Sampat Ghosh- Department of Life Science, School of Science and Research, Sardar Patel University. Chuleui Jung- Gyeongkuk National University - Arezoo Najarpoor; Saeed Mohamadzade Namin; Sampat Ghosh; Chuleui Jung
8:48 AM - 9:00 AM Pacific: Investigating the effects of a common apiculture antibiotic on honeybee colonies and prevalence of antibiotic resistance. Presenting Author: Justine Bich Lien Nguyen- Marquette University. Chelsea Cook- Marquette University - Justine Bich Lien Nguyen; Chelsea Cook
9:00 AM - 9:12 AM Pacific: Molecular signatures of adaptive heat tolerance in hybridized honey bee populations (Apis mellifera). Presenting Author: Christopher Allen- University of California. Daniela Zarate- University of California, San Diego. Alison McAfee- University of British Columbia. Mark P. Swenson- University of California. Boris Baer- University of California - Christopher Allen; Daniela Zarate; Alison McAfee; Mark P. Swenson; Boris Baer
9:12 AM - 9:24 AM Pacific: Reproductive and vertical transmission consequences of deformed wing virus type B (DWV-B) in naturally infected honey bee queens. Presenting Author: Sagar Bhandari- Mississippi State University. Somayeh Mehrparvar- Mississippi State University. Esmaeil Amiri- Mississippi State University - Sagar Bhandari; Somayeh Mehrparvar; Esmaeil Amiri
9:24 AM - 9:36 AM Pacific: The effects of heat exposure on drone competence. Presenting Author: Sarah Jendresky- Arizona State University. Adrian Fisher- Arizona State University - Sarah Jendresky; Adrian Fisher
9:36 AM - 9:48 AM Pacific: Understanding the impacts of the consumption of wildfire smoke-contaminated pollen on honey bee (Apis mellifera) health. Presenting Author: Joussy Hidrobo-Chavez- Oregon State University - Joussy Hidrobo-Chavez

Title: Grad 10-min Competition: PBT, Ecology and Reproductive Biology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, F149, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Acoustic detection of pepper weevil larvae: Anthonomus eugenii (Coleoptera: Curculionidae) under laboratory conditions. Presenting Author: Stanley Brendon Northe, Jr. (he/him/his)- Florida Agricultural and Mechanical University. Muhammad Haseeb (he/him/his)- Florida Agricultural and Mechanical

University. Richard W. Mankin- USDA-ARS - Stanley Brendon Northe, Jr. (he/him/his); Muhammad Haseeb (he/him/his); Richard W. Mankin
8:12 AM - 8:24 AM Pacific: Conserved activation of an odorant receptor across major mosquito species: Implications for chemosensory evolution. Presenting Author: John Oizamsi Boyi (he/him/his)- Baylor University. Jason Pitts- Baylor University - John Oizamsi Boyi (he/him/his); Jason Pitts
8:24 AM - 8:36 AM Pacific: Inositol's role in queen differentiation and reproductive fitness in the honey bee (Apis mellifera). Presenting Author: Montserrat Robles- Purdue University. Barry Pittendrigh- Purdue University. Brock Harpur- Purdue University. j Krispn Given- Purdue University. Benjamin A Taylor- Purdue University - Montserrat Robles; Barry Pittendrigh; Brock Harpur; j Krispn Given; Benjamin A Taylor
8:36 AM - 8:48 AM Pacific: Investigating the roles of Drosophila melanogaster seminal fluid components in male reproductive senescence. Presenting Author: Zhuo Chen- Michigan State University. Kelly King- Michigan State University. Henry Chung- Michigan State University - Zhuo Chen; Kelly King; Henry Chung
8:48 AM - 9:00 AM Pacific: Light pollution disrupts seasonal reproductive phenotypes and reduces lifespan in the West Nile vector, Culex pipiens. Presenting Author: Maria Fiorta- University of Florida. Lydia Fyie- University of Maine. Megan E. Meuti, PhD (she/her/hers)- The Ohio State University - Maria Fiorta; Lydia Fyie; Megan E. Meuti, PhD (she/her/hers)
9:00 AM - 9:12 AM Pacific: Repeated evolution of pheromone gene expression across Drosophilidae. Presenting Author: Ignatius Putra Andika- Michigan State University. Zhuo Chen- Michigan State University. Tyler Irving- Michigan State University. Henry Chung- Michigan State University - Ignatius Putra Andika; Zhuo Chen; Tyler Irving; Henry Chung
9:12 AM - 9:24 AM Pacific: Sex and mating success impact resource allocation and life history traits in Gryllus vocalis field crickets. Presenting Author: Madison F. Von Deylen- The Ohio State University. Susan N. Gershman- The Ohio State University. Agust Munoz-Garcia- The Ohio State University - Madison F. Von Deylen; Susan N. Gershman; Agust Munoz-Garcia
9:24 AM - 9:36 AM Pacific: The effects of a mitotoxic fungicide on honey bee (Apis mellifera) queen oviposition. Presenting Author: Kylie Maxwell- Arizona State University. Adrian Fisher- Arizona State University. Jun Chen (she/her/hers)- Arizona State University - Kylie Maxwell; Adrian Fisher; Jun Chen (she/her/hers)
9:36 AM - 9:48 AM Pacific: Warmer temperature and aging negatively impact reproductive tissue of female Anopheles gambiae mosquitoes. Presenting Author: Megan Irene Grant- Vanderbilt University. Lindsay E. Martin (she/her/hers)- Vanderbilt University. Tania Y. Estevez-Lao- Vanderbilt University. Julin F. Hillyer- Vanderbilt University - Megan Irene Grant; Lindsay E. Martin (she/her/hers); Tania Y. Estevez-Lao; Julin F. Hillyer

Title: Grad 10-min Competition: PBT, Molecular Biology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, F152, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: An integrative multi-omics approach towards understanding pyrrolizidine alkaloid sequestration in bella moth (Utetheisa ornatrix). Presenting Author: Isabel Isabel Lopez-Cacacho- University of Florida. Yi-Ming Weng- Okinawa Institute of Science & Technology Graduate University. Paul Frandsen- Brigham Young University. Christopher J. Martyniuk- Department of Physiological Sciences and Center for Environmental and Human Toxicology, College of Veterinary Medicine, University of Florida, Gainesville, FL; Interdisciplinary Program in Biomedical Sciences, Neuroscience, University of Florida, Gainesville, FL 32611, USA; University of Florida Genetics Institute, University of Florida, Gainesville, FL 32611, USA. Timothy J. Garrett- Department of Pathology, Immunology, and Laboratory Medicine, University of Florida, College of Medicine, Gainesville, FL 32610, USA; Department of Chemistry, University of Florida, Gainesville, FL 32611, USA.. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Isabel Isabel Lopez-Cacacho; Yi-Ming Weng; Paul Frandsen; Christopher J. Martyniuk; Timothy J. Garrett; Akito Y. Kawahara, Ph.D.
8:12 AM - 8:24 AM Pacific: Baking piRNAs: Characterization of piRNA expression profiles between virulent and avirulent Aphis glycines. Presenting Author: Angelina Haller- The Ohio State University. Jelmer Poelstra- Ohio State University Molecular and Cellular Imaging Center. Jennifer Wilson- USDA-ARS. Andy Michel- Ohio State University - Angelina Haller; Jelmer Poelstra; Jennifer Wilson; Andy Michel

8:24 AM - 8:36 AM Pacific: Battle-hardening: Combined host and symbiont defenses fortify anti-parasitoid defenses in aphids. Presenting Author: Roy Attila Kucuk- University of Georgia. Emily Shelby- University of Georgia. Kerry Oliver- University of Georgia - Roy Attila Kucuk; Emily Shelby; Kerry Oliver
8:36 AM - 8:48 AM Pacific: Cross-trophic nutritional rescue and trait-based resilience in carnivore exposed to nutrient-deficient prey. Presenting Author: Bijay Subedi- Pennsylvania State University. Erin Gall, n/a- Pennsylvania State University. Monica Kersch-Becker- Pennsylvania State University - Bijay Subedi; Erin Gall, n/a; Monica Kersch-Becker
8:48 AM - 9:00 AM Pacific: Developing genetic tools in an endoparasitoid wasp. Presenting Author: Matthew Villalta- University of Minnesota. Amelia R. I. Lindsey- University of Minnesota - Matthew Villalta; Amelia R. I. Lindsey
9:00 AM - 9:12 AM Pacific: Investigating host responses to the removal of a mutualistic fungal symbiont. Presenting Author: Austin Ashley Hendricks (she/her/hers)- University of New Mexico. Vincent Martinson- University of New Mexico - Austin Ashley Hendricks (she/her/hers); Vincent Martinson
9:12 AM - 9:24 AM Pacific: Not just a bystander: Culex tarsalis genes that fight West Nile virus. Presenting Author: Hieu Tran Nguyen Minh- Pennsylvania State University. Gerard Terradas- The Pennsylvania State University. Mario Novelo- The Pennsylvania State University. Ahmed Abdelgawad- Department of Biological Sciences, University of Delaware. Jaime Manzano-Alvarez- Pennsylvania State University. Abdul Wahaab- The Pennsylvania State University. Jovana Bozic- The Pennsylvania State University. Jason L. Rasgon- The Pennsylvania State University - Hieu Tran Nguyen Minh; Gerard Terradas; Mario Novelo; Ahmed Abdelgawad; Jaime Manzano-Alvarez; Abdul Wahaab; Jovana Bozic; Jason L. Rasgon
9:24 AM - 9:36 AM Pacific: Repurposed viruses in parasitism: Functional analysis of virus-like particle assembly in Venturia canescens. Presenting Author: Alexandra Nicole Morales (she/her/hers)- University of Georgia. Gaelen Burke- University of Georgia - Alexandra Nicole Morales (she/her/hers); Gaelen Burke
9:36 AM - 9:48 AM Pacific: SIGS solution of dsRNA insecticides against the sucking insect pests by nanoparticle formulation. Presenting Author: Falguni Khan- Gyeongkuk National University - Falguni Khan
9:48 AM - 10:00 AM Pacific: Single strand annealing DNA repair in the red flour beetle: A genetic method of pest control. Presenting Author: Collin Valentin (he/him/his)- Texas A&M University. Zach Adelman- Texas A&M University. Musa Isah- Texas A&M Department of Entomology - Collin Valentin (he/him/his); Zach Adelman; Musa Isah

Title: Grad 10-min Competition: PBT, Toxicology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, F151, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: A novel bioassay method for evaluating systemic insecticidal activity against Aphis gossypii. Presenting Author: Mingeun Son- Seoul National University. Jun-Hyung Tak- Seoul National University - Mingeun Son; Jun-Hyung Tak
8:12 AM - 8:24 AM Pacific: Comparative transcriptomic analysis of emamectin benzoate resistance in Spodoptera frugiperda (Lepidoptera: Noctuidae) from Puerto Rico. Presenting Author: Shatrughan Shiva (he/him/his)- Michigan State University. Michael Ozolins- Michigan State University. Omar Alejandro Posos-Parra, Sr.- Michigan State University. Christina DiFonzo- Michigan State University. Eric L. Patterson- Michigan State University. David Mota-Sanchez- Michigan State University - Shatrughan Shiva (he/him/his); Michael Ozolins; Omar Alejandro Posos-Parra, Sr.; Christina DiFonzo; Eric L. Patterson; David Mota-Sanchez
8:24 AM - 8:36 AM Pacific: Comparison of in vivo and in vitro toxicity of 27 insecticides in Plutella xylostella larvae and lepidopteran cell lines. Presenting Author: Hyoeun Jeon- Seoul National University. Jun-Hyung Tak- Seoul National University - Hyoeun Jeon; Jun-Hyung Tak
8:36 AM - 8:48 AM Pacific: Expression of squash bee cytochrome P450 detoxification enzymes in response to neonicotinoid insecticide exposure. Presenting Author: Adam Joseph Foster (he/him/his)- The Ohio State University. Reed Johnson- The Ohio State University - Adam Joseph Foster (he/him/his); Reed Johnson
8:48 AM - 9:00 AM Pacific: Impact of sorghum polyphenolics on the growth, development and on detoxification enzyme activities in the stored product pest Tribolium castaneum (Coleoptera: Tenebrionidae). Presenting Author: Rupinder Singh (he/him/his)- Kansas State University. Jaymi Peterson- USDA-ARS. Justin Castaldi, n/a- Lab Assistant. Kun Yan Zhu- Kansas State University. Kaliramesh Siliveru- Associate Professor. Dmitry Smolensky-

USDA-ARS. Erin Scully- USDA-ARS - Rupinder Singh (he/him/his); Jaymi Peterson; Justin Castaldi, n/a; Kun Yan Zhu; Kaliramesh Siliveru; Dmitry Smolensky; Erin Scully
9:00 AM - 9:12 AM Pacific: Residual efficacy of contact insecticides on wood and metal surfaces against stored product insects held in shipping containers in Arkansas. Presenting Author: Abhinash Boddepalli- Kansas State University. Kun Yan Zhu- Kansas State University. Tanja McKay- Arkansas State University. laura starkus- Arkansas State University. Deanna Scheff- USDA-ARS - Abhinash Boddepalli; Kun Yan Zhu; Tanja McKay; laura starkus; Deanna Scheff
9:12 AM - 9:24 AM Pacific: Spatiotemporal expression of ABC transporters linked to pyrethroid resistance in Anopheles stephensi. Presenting Author: Heather Marie Hernandez- University of Nebraska-Lincoln. Leslie Rault- University of Nebraska-Lincoln. Lise Pingault- University of Nebraska-Lincoln. Troy Anderson- University of Nebraska-Lincoln - Heather Marie Hernandez; Leslie Rault; Lise Pingault; Troy Anderson
9:24 AM - 9:36 AM Pacific: Targeting GABAergic signaling in mosquitoes: An alternative approach to inhibit malaria parasite development. Presenting Author: Ronald E. Bentil- University of Idaho. Kevin Ochwedo- University of Idaho. Nora Cespedes- University of Idaho. Yared Debebe- University of Idaho. Xiaodi Wang- University of Washington. Jyotishka Datta- Virginia Tech. Michael A. Robert- Virginia Tech. Edwin Lewis- University of Idaho. Jeff Riffell- University of Washington. Shirley Luckhart- University of Idaho - Ronald E. Bentil; Kevin Ochwedo; Nora Cespedes; Yared Debebe; Xiaodi Wang; Jyotishka Datta; Michael A. Robert; Edwin Lewis; Jeff Riffell; Shirley Luckhart
9:36 AM - 9:48 AM Pacific: Targeting mosquito-borne diseases: High-throughput evaluation of novel larval and adult insecticides. Presenting Author: Haley Fleetwood- University of Nebraska-Lincoln. Grey Smith- University of Nebraska-Lincoln. Leslie Rault- University of Nebraska-Lincoln. Troy Anderson- University of Nebraska-Lincoln - Haley Fleetwood; Grey Smith; Leslie Rault; Troy Anderson
9:48 AM - 10:00 AM Pacific: Zanthoxylum acanthopodiumDC: An Indigenous medicinal plant from northeast India with potential bio-pesticidal activity against insect pests. Presenting Author: Aquiny Befairlyne T Mawthoh (she/her/hers)- Lovely Professional University. Devina Seram- Lovely Professional University - Aquiny Befairlyne T Mawthoh (she/her/hers); Devina Seram

Title: Undergrad 10-min Competition: P-IE and SysEB, Biodiversity, Conservation, and Pollination

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, A106, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: An illustrated checklist of the bees (Hymenoptera: Apoidea) of Toco region, northeastern Trinidad. Presenting Author: Zoe BeDell- Texas A&M University. James Woolley- Texas A&M University - Zoe BeDell; James Woolley
8:12 AM - 8:24 AM Pacific: Assessing the availability of protected habitats for an imperiled Florida butterfly. Presenting Author: Ava Johnson- University of Florida. Rachel L. Walsh, M.S. (she/her/hers)- Florida Museum of Natural History. Bert Foquet- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Ava Johnson; Rachel L. Walsh, M.S. (she/her/hers); Bert Foquet; Akito Y. Kawahara, Ph.D.
8:24 AM - 8:36 AM Pacific: Characterizing buzz pollination provided to cranberry flowers by visiting bees in central Wisconsin cranberry marshes. Presenting Author: Jensen Thieren- University of Wisconsin. Laura Bertrang- University of Wisconsin. Olivia Marie Bernauer (she/her/hers)- University of Wisconsin - Jensen Thieren; Laura Bertrang; Olivia Marie Bernauer (she/her/hers)
8:36 AM - 8:48 AM Pacific: Comparing foraging behaviors of bumblebees and honeybees in central Wisconsin cranberry marshes. Presenting Author: Laura Bertrang- University of Wisconsin. Olivia Marie Bernauer (she/her/hers)- University of Wisconsin. Jensen Thieren- University of Wisconsin - Laura Bertrang; Olivia Marie Bernauer (she/her/hers); Jensen Thieren
8:48 AM - 9:00 AM Pacific: Do related alien and native trees provide similar habitat quality in urban vacant lots?. Presenting Author: Grace Burnham- The Ohio State University. Erika Wright- The Ohio State University. Chris Riley- Bartlett Tree Research Laboratories. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University - Grace Burnham; Erika Wright; Chris Riley; Mary M. Gardiner, M.S., Ph.D. (she/her/hers)
9:00 AM - 9:12 AM Pacific: Don't let these species butterfly away: How does land protection status and land cover influence the species richness of butterflies across Ohio, USA?. Presenting Author: Rex Harvey-Thurston-

The Ohio State University. Karen Goodell (she/her/hers)- The Ohio State University. MaLisa Spring- The Ohio State University - Rex Harvey-Thurston; Karen Goodell (she/her/hers); MaLisa Spring
9:12 AM - 9:24 AM Pacific: Effect of local floral density on bowl trap collection of pollinators in central Iowa. Presenting Author: Alexis Ulrich- Simpson College. Drew Engler- Simpson College. Maya Jolliffe- Simpson College. Kai Starr- Simpson College. Ryan Rehmeier- Simpson College. Timothy Luttermoser- Simpson College - Alexis Ulrich; Drew Engler; Maya Jolliffe; Kai Starr; Ryan Rehmeier; Timothy Luttermoser
9:24 AM - 9:36 AM Pacific: Historical soil management practices influence insect responses to conservation plantings. Presenting Author: Ryn Kreitz- University of Missouri. Kyle Paddock- University of Missouri. Leah Gastonguay (she/her/hers)- University of Missouri. Deborah Finke- University of Missouri - Ryn Kreitz; Kyle Paddock; Leah Gastonguay (she/her/hers); Deborah Finke
9:36 AM - 9:48 AM Pacific: Impact of non-native honey bees on wild pollinator reproduction. Presenting Author: Gweneth Voaklander- Iowa State University. Amy Toth- Iowa State University - Gweneth Voaklander; Amy Toth
9:48 AM - 10:00 AM Pacific: Lethal and sublethal effects of chlorpyrifos exposure on mason bee (Osmia cornifrons) larval development. Presenting Author: Kelly Bennett- Pennsylvania State University. Jaya S. Mokkapati- Penn State University. Natalie Boyle- Pennsylvania State University - Kelly Bennett; Jaya S. Mokkapati; Natalie Boyle

Title: Undergrad 10-min Competition: P-IE, Behavior, Biocontrol, and Ecology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, A105, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Analyzing ant aggression in an ant-treehopper mutualism. Presenting Author: Susana G. Martin- University of Illinois - Susana G. Martin
8:12 AM - 8:24 AM Pacific: Comparison of Aphidius ervi behavior on Medicago sativa stems with and without glandular trichomes. Presenting Author: Yasmine Helbling- University of Maryland. Bill Lamp- University of Maryland - Yasmine Helbling; Bill Lamp
8:24 AM - 8:36 AM Pacific: Diameter matters, but what about length? Host selection by bark beetles. Presenting Author: Aochi Mai- Tokyo Metropolitan University. Etsuro Takagi- Tokyo Metropolitan University - Aochi Mai; Etsuro Takagi
8:36 AM - 8:48 AM Pacific: Frightened feeding: Assessing the impact of parasitic wasps on aphid feeding using the electrical penetration graph technique. Presenting Author: Karli Brianna Gowen- Montana State University. Jessica Kansman (she/her/hers)- Montana State University - Karli Brianna Gowen; Jessica Kansman (she/her/hers)
8:48 AM - 9:00 AM Pacific: Lights, camera, action! Using cameras to evaluate cannibalism and predation of Chrysoperla rufilabrison egg cards. Presenting Author: Grace Michelle Douglas- Yakima Valley College. Rebecca Schmidt-Jeffris- USDA-ARS - Grace Michelle Douglas; Rebecca Schmidt-Jeffris
9:00 AM - 9:12 AM Pacific: To wash or not to wash: How variable washing methods impact the mycobiome present on ambrosia beetles (Curculionidae: Platypodinae and Scolytinae) prior to dilution plating. Presenting Author: Connor Biser- Brigham Young University. Jiri Hulcr- University of Florida - Connor Biser; Jiri Hulcr
9:12 AM - 9:24 AM Pacific: Using historical data to inform the future: A retrospective analysis of cabbage looper (Trichoplusia ni) activity in Oregon. Presenting Author: Kyleah Rabe- Oregon State University. Jessica Green- Oregon State University - Kyleah Rabe; Jessica Green
9:24 AM - 9:36 AM Pacific: Wood-boring insect communities in young, top-killed western larch (Larix occidentalis). Presenting Author: Emma Lianna Eakins (She/they)- University of Idaho. Katelyn Rau- University of Idaho. Brett Bohnert- University of Idaho. Stephen Cook- University of Idaho - Emma Lianna Eakins (She/they); Katelyn Rau; Brett Bohnert; Stephen Cook

Title: Undergrad 10-min Competition: SysEB, Systematics and Morphology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student

Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: A morphological analysis of visual system complexity in eusocial arthropods. Presenting Author: Kristina Camia- New Jersey Institute of Technology. Claire S. Bailey (she/her/hers)- New Jersey Institute of Technology. Phillip Barden (he/him/his)- New Jersey Institute of Technology - Kristina Camia; Claire S. Bailey (she/her/hers); Phillip Barden (he/him/his)
8:12 AM - 8:24 AM Pacific: A phylogenetic reanalysis of Heptageniidae (Ephemeroptera). Presenting Author: Andrew Budge- Utah Valley University. Heath Ogden- Utah Valley University - Andrew Budge; Heath Ogden
8:24 AM - 8:36 AM Pacific: Diverse material properties and morphology of moth proboscises relates to the feeding habits of some macromoth and other lepidopteran lineages. Presenting Author: Kendall Olivia Myers- Kent State University - Kendall Olivia Myers
8:36 AM - 8:48 AM Pacific: Estimating extinct ecological diversity with machine learning. Presenting Author: Luke Bitting- New Jersey Institute of Technology. Gianpiero Fiorentino- New Jersey Institute of Technology. Phillip Barden (he/him/his)- New Jersey Institute of Technology - Luke Bitting; Gianpiero Fiorentino; Phillip Barden (he/him/his)
8:48 AM - 9:00 AM Pacific: Morphological adaptations of silk glands across Lepidoptera. Presenting Author: Anastasia Garavaglia- University of Florida. Olivia Leigh van der Vlugt- University of Florida. Md Jahir Rayhan- University of Florida. Bert Foquet- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Anastasia Garavaglia; Olivia Leigh van der Vlugt; Md Jahir Rayhan; Bert Foquet; Akito Y. Kawahara, Ph.D.
9:00 AM - 9:12 AM Pacific: Silk gland structure in terrestrial and aquatic lepidopteran larvae. Presenting Author: Olivia Leigh van der Vlugt- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History. Bert Foquet- University of Florida. Anastasia Garavaglia- University of Florida. Md Jahir Rayhan- University of Florida - Olivia Leigh van der Vlugt; Akito Y. Kawahara, Ph.D.; Bert Foquet; Anastasia Garavaglia; Md Jahir Rayhan
9:12 AM - 9:24 AM Pacific: The mayflies of Utah. Presenting Author: Tabitha Weir- Utah Valley University. Heath Ogden- Utah Valley University - Tabitha Weir; Heath Ogden
9:24 AM - 9:36 AM Pacific: The systematics of ringtail dragonflies (Erpetogomphus selys1858). Presenting Author: Zack Stack- Lewis and Clark College. Ellie Gamett- American Museum of Natural History. Violet Onsongo- American Museum of Natural History. Jessica L. Ware (she/her/hers)- American Museum of Natural History - Zack Stack; Ellie Gamett; Violet Onsongo; Jessica L. Ware (she/her/hers)
9:36 AM - 9:48 AM Pacific: Wing venation reflects phylogenetic divergence and allometric scaling in bees. Presenting Author: Jorge A. De La Cruz (he/him/his)- University of California. Charles Thrift (he/him/his)- University of California. Madeleine Ostwald- University of California. Katja Seltmann- University of California - Jorge A. De La Cruz (he/him/his); Charles Thrift (he/him/his); Madeleine Ostwald; Katja Seltmann
9:48 AM - 10:00 AM Pacific: You are what you eat: Dissecting diets in plant bugs. Presenting Author: Indigo R. Talley (they/them/theirs)- University of California. Christiane Weirauch (she/her/hers)- University of California. Sarah Elise Schroeder- University of California - Indigo R. Talley (they/them/theirs); Christiane Weirauch (she/her/hers); Sarah Elise Schroeder

Title: Grad 10-min Competition: P-IE, IPM 1

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Ant communities as providers of ecosystem services in no-till cropping systems. Presenting Author: Adegboyega Oluwamayowa Fajemisin- Pennsylvania State University. John Tooker- Pennsylvania State University - Adegboyega Oluwamayowa Fajemisin; John Tooker
8:12 AM - 8:24 AM Pacific: Biochar suppresses growth, pupation and eclosion success of Lepidopteran pests. Presenting Author: Soumya Unnikrishnan- University of Arkansas. Nischal Wagle- Purdue University. Satinderpal Kaur (she/her/hers)- University of Illinois Urbana Champaign. Engil Pereira- University of Texas Rio Grande Valley. Rupesh Kariyat- University of Arkansas - Soumya Unnikrishnan; Nischal Wagle; Satinderpal Kaur (she/her/hers); Engil Pereira; Rupesh Kariyat

8:24 AM - 8:36 AM Pacific: Examining insect marking technologies for pear psylla. Presenting Author: Molly Sayles (she/her/hers)- Washington State University. Louis Nottingham- Washington State University. Rebecca Schmidt-Jeffris- USDA-ARS - Molly Sayles (she/her/hers); Louis Nottingham; Rebecca Schmidt-Jeffris
8:36 AM - 8:48 AM Pacific: Fueling flight: nutritional impacts on Amyelois transitella (Lepidoptera: Pyralidae) dispersal. Presenting Author: Joshua Eugene Reger- University of California. Kerry Mauck- University of California. Charles S. Burks (he/him/his)- USDA-ARS. Matthew Daugherty- University of California, Riverside. Houston Wilson (he/him/his)- University of California - Joshua Eugene Reger; Kerry Mauck; Charles S. Burks (he/him/his); Matthew Daugherty; Houston Wilson (he/him/his)
8:48 AM - 9:00 AM Pacific: How quickly do macromoth communities recover following aerial suppression programs against spongy moth in Minnesota?. Presenting Author: Sayesha Khanna- University of Minnesota. Brian Aukema- University of Minnesota - Sayesha Khanna; Brian Aukema
9:00 AM - 9:12 AM Pacific: Integrating chemical and spatial ecology to develop IPM strategies for striped cucumber beetle. Presenting Author: Demian A. Nunez- Virginia Polytechnic Institute and State University. Thomas Kuhar- Virginia Polytechnic Institute and State University - Demian A. Nunez; Thomas Kuhar
9:12 AM - 9:24 AM Pacific: Managing Diaphorina citri and Nipaecoccus viridis with individual protective covers (IPCs) and insecticides in young citrus. Presenting Author: Seth Tsatsu- University of Florida. Jawwad Qureshi- University of Florida - Seth Tsatsu; Jawwad Qureshi
9:24 AM - 9:36 AM Pacific: Evaluating the impact of winter cover cropping on management of insect pests in organic squash. Presenting Author: Sabina Parajuli- Clemson University. Tom Bilbo- Clemson University - Sabina Parajuli; Tom Bilbo
9:36 AM - 9:48 AM Pacific: Selection of spatial placements of insectary plants to manage arthropod pests in vegetable production. Presenting Author: Manju Yogi- Tennessee State University. Kaushalya Amarasekare- Tennessee State University. Binita Sigdel- Tennessee State University - Manju Yogi; Kaushalya Amarasekare; Binita Sigdel
9:48 AM - 10:00 AM Pacific: Understanding the spatiotemporal distribution of Frankliniella occidentalis (Thysanoptera: Thripidae) in a certified sweetpotato seed greenhouse. Presenting Author: April Lane- North Carolina State University. Anders Huseth- North Carolina State University - April Lane; Anders Huseth

Title: Grad 10-min Competition: P-IE, Agroecosystems

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D135, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Bumble bee colony density and foraging movement across an agricultural landscape-simplification gradient. Presenting Author: Jenna Melanson- University of British Columbia. Tyler Kelly- University of British Columbia. Natalia Clermont- University of British Columbia. Jonathan Koch- USDA-ARS-PWA-PIRU. Claire Kremen- University of British Columbia - Jenna Melanson; Tyler Kelly; Natalia Clermont; Jonathan Koch; Claire Kremen
8:12 AM - 8:24 AM Pacific: Can robust pollinator communities compensate for reduced pollen flow? Testing the interactive effects of pollenizers and insecticides on fruit production. Presenting Author: Amy Bagby- Purdue University. Ashley Leach- Ohio State University. Ian Kaplan- Purdue University - Amy Bagby; Ashley Leach; Ian Kaplan
8:24 AM - 8:36 AM Pacific: Effects of floral diversification on arthropod community composition and ecosystem services in an edamame agroecosystem. Presenting Author: Kathleen Ciola Evans- University of Maryland. Anah Espndola- University of Maryland. Cerruti Hooks- University of Maryland - Kathleen Ciola Evans; Anah Espndola; Cerruti Hooks
8:36 AM - 8:48 AM Pacific: Forecasting the beetle storm: Abiotic drivers of Japanese beetle phenology and abundance in Midwestern vineyards. Presenting Author: Elizabeth Hrycyna- University of Wisconsin. Christelle Guedot- University of Wisconsin - Elizabeth Hrycyna; Christelle Guedot
8:48 AM - 9:00 AM Pacific: Insect community response to cover crops and native plantings in soybean. Presenting Author: Leah Gastonguay (she/her/hers)- University of Missouri. Deborah Finke- University of Missouri. Tim Reinbott- University Of Missouri. Robert Pierce- University of Missouri - Leah Gastonguay (she/her/hers); Deborah Finke; Tim Reinbott; Robert Pierce

9:00 AM - 9:12 AM Pacific: Long-term trends in apple pest phenology and population variability across the eastern United States. Presenting Author: Caitlin Terry (she/her/hers)- Cornell University. Sara E. Emery (she/her/hers)- Cornell University - Caitlin Terry (she/her/hers); Sara E. Emery (she/her/hers)
9:12 AM - 9:24 AM Pacific: Seasonal dynamics of pest and beneficial arthropods in Georgia citrus production system. Presenting Author: Madhav Koirala- University of Georgia. Shivakumar Veerlapati (he/him/his)- University of Georgia. Rajendra Acharya (he/him/his)- University of Georgia. Apurba Barman- University of Georgia - Madhav Koirala; Shivakumar Veerlapati (he/him/his); Rajendra Acharya (he/him/his); Apurba Barman
9:24 AM - 9:36 AM Pacific: Semi-natural habitats adjacent to sorghum affect arthropod biodiversity within sorghum fields: Management implications for Melanaphis sorghi across sorghum growth stages. Presenting Author: Ivin Lam- Texas A&M University. Pius A. Bradicich- Texas A&M University. Stacy L. Hines- Texas A&M AgriLife Extension. Michael J. Brewer- Texas A&M University - Ivin Lam; Pius A. Bradicich; Stacy L. Hines; Michael J. Brewer
9:36 AM - 9:48 AM Pacific: Using clover in agriculture to improve bee forage and increase soybean yield. Presenting Author: Lillian H.P Johnson- The Ohio State University. Reed Johnson- The Ohio State University - Lillian H.P Johnson; Reed Johnson
9:48 AM - 10:00 AM Pacific: When dispersal kernels are uncertain, spatial data can be used to infer remote sources of pest and vector population in agroecosystems. Presenting Author: Timothy Martin- Texas A&M University. Thomas Chappell- Texas A&M University. Olufemi Alabi- Texas A&M University System. Mamoudou Setamou- Texas A&M University-Kingsville Citrus Center. Madhurababu Madhurababu- Texas A&M University - Kingsville - Timothy Martin; Thomas Chappell; Olufemi Alabi; Mamoudou Setamou; Madhurababu Madhurababu

Title: Grad 10-min Competition: P-IE, Biocontrol

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, E145, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Assessment of two commercially reared biological control agents for the control of the invasive Cydalima perspectalis (Lepidoptera: Crambidae). Presenting Author: David J. Rivera (he/him/his)- Virginia Polytechnic Institute and State University. Jason Bielski- Virginia Polytechnic Institute and State University. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University - David J. Rivera (he/him/his); Jason Bielski; Alejandro Del-Pozo
8:12 AM - 8:24 AM Pacific: Biological control of yellow toadflax: Interactions between Rhinusa pilosa and macroherbivores. Presenting Author: Jackson Strand- Montana State University. Robert Peterson- Montana State University. Sharlene Sing- USDA Forest Service Rocky Mountain Research Station. David Weaver (he/him/his)- Montana State University - Jackson Strand; Robert Peterson; Sharlene Sing; David Weaver (he/him/his)
8:24 AM - 8:36 AM Pacific: Combining synthetic predator and prey pheromones for integrated Colorado potato beetle management. Presenting Author: Laura K. Martinez (she/her/hers)- Cornell University. Jennifer Thaler- Cornell University - Laura K. Martinez (she/her/hers); Jennifer Thaler
8:36 AM - 8:48 AM Pacific: Evaluating the effect of biological control strategies against wheat stem sawfly (Cephus cinctus) in Colorado wheat. Presenting Author: Venkatesh Padimi- Colorado State University. Adam Osterholzer- Colorado State University. Erika Peirce- Colorado State University. Jeffrey Bradshaw- University of Nebraska. Pin-Chu Lai- University of Nebraska-Lincoln. Peter J.A. Kleinman- USDA-ARS Center for Agricultural Resources Research. Grace L. Miner- USDA-ARS Center for Agricultural Resources Research. Tatyana Rand- USDA-ARS. Punya Nachappa- Colorado State University - Venkatesh Padimi; Adam Osterholzer; Erika Peirce; Jeffrey Bradshaw; Pin-Chu Lai; Peter J.A. Kleinman; Grace L. Miner; Tatyana Rand; Punya Nachappa
8:48 AM - 9:00 AM Pacific: Novel pest management using bacterial metabolites in pecan. Presenting Author: Shane Moran (he/him/his)- The Ohio State University. Shaohui Wu- The Ohio State University. David Shapiro-Ilan (he/him/his)- USDA-ARS - Shane Moran (he/him/his); Shaohui Wu; David Shapiro-Ilan (he/him/his)
9:00 AM - 9:12 AM Pacific: Optimizing insectary plants selection for enhancing natural enemies in bean production. Presenting Author: Pragya Kiju (she/her/hers)- Clemson University. Tom Bilbo- Clemson University - Pragya Kiju (she/her/hers); Tom Bilbo
9:12 AM - 9:24 AM Pacific: Population dynamics and ecological drivers of the naturalized weevil Ochyromera ligustri: A potential biological control agent of invasive Ligustrum sinense. Presenting Author: Brandi Hazard Misiaszek- Louisiana State University. Rodrigo Diaz (he/him/his)- Louisiana State University. Amy Roda- USDA - Brandi Hazard Misiaszek; Rodrigo Diaz (he/him/his); Amy Roda

9:24 AM - 9:36 AM Pacific: Scented sentinels: Investigating the role of lady beetle odor cues in aphid pest management. Presenting Author: Mahendra Pawar- Pennsylvania State University. Sara Hermann- Pennsylvania State University. Jessica Kansman (she/her/hers)- Montana State University - Mahendra Pawar; Sara Hermann; Jessica Kansman (she/her/hers)
9:36 AM - 9:48 AM Pacific: The enemy of my enemy is my friend: A comparison of monitoring techniques for pear psylla natural enemies in Hood River pear orchards. Presenting Author: Jane Lilith O'Sullivan- Oregon State University. Christopher Adams- Oregon State University - Jane Lilith O'Sullivan; Christopher Adams
9:48 AM - 10:00 AM Pacific: The role of honeydew in ladybug (Coleoptera: Coccinellidae) attraction to Melanaphis sorghi. Presenting Author: Lily Margeson (they/them/theirs)- Texas A&M University. Raul Medina- Texas A&M University - Lily Margeson (they/them/theirs); Raul Medina

Title: Grad 10-min Competition: P-IE, Bumble Bees

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D136, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Comparing cognitive flexibility between queen and worker bumblebees. Presenting Author: Smruti Pimplikar- University of Texas. Jessica Buelow- University of Nevada, Reno. Felicity Muth- University of Nevada, Reno - Smruti Pimplikar; Jessica Buelow; Felicity Muth
8:12 AM - 8:24 AM Pacific: Detection and occupancy estimates for bumble bee species in urban and rural habitats of eastern Wisconsin. Presenting Author: Mary Powley- University of Minnesota. Elaine Evans (she/they)- University of Minnesota. Clint Otto (he/him/his)- US Geological Survey. Daniel P. Cariveau- University of Minnesota - Mary Powley; Elaine Evans (she/they); Clint Otto (he/him/his); Daniel P. Cariveau
8:24 AM - 8:36 AM Pacific: Diploid male frequencies of Bombus flavifrons across a gradient of habitat development in Anchorage, Alaska. Presenting Author: Blanca M. Guillen (she/her/hers)- University of California. Jonathan Koch- USDA-ARS-PWA-PIRU. Tien Lindsay- USDA ARS Pollinating Insect Systematic Biology Management System. Hollis Woodard (she/her/hers)- University of California - Blanca M. Guillen (she/her/hers); Jonathan Koch; Tien Lindsay; Hollis Woodard (she/her/hers)
8:36 AM - 8:48 AM Pacific: Floral arrangement influences components in the transmission of a bumble bee (Hymenoptera: Apidae) gut pathogen. Presenting Author: Emelia O. Kusi (she/her/hers)- University of Massachusetts. Lynn Adler- University of Massachusetts. Max Rubinstein- Wootton High School. Sunny Liu- Cornell University. Coco Xia- Stanford University. Joshua Chang- Philips Academy Andover - Emelia O. Kusi (she/her/hers); Lynn Adler; Max Rubinstein; Sunny Liu; Coco Xia; Joshua Chang
8:48 AM - 9:00 AM Pacific: Impact of pollen nutritional composition on Bombus impatiens health. Presenting Author: Ethan Dean- Pennsylvania State University. Heather Hines- Pennsylvania State University - Ethan Dean; Heather Hines
9:00 AM - 9:12 AM Pacific: Mechanisms of pathogen spillback in pollinating bees: Implications for disease spread. Presenting Author: Bianca Marie Jimenez (she/her/hers)- North Carolina State University. Rebecca E. Irwin- North Carolina State University - Bianca Marie Jimenez (she/her/hers); Rebecca E. Irwin
9:12 AM - 9:24 AM Pacific: Pollinators in a pickle: Assessing bumble bee resilience to extreme weather under pesticide exposure in cucumber fields. Presenting Author: Anupreksha Jain- University of Wisconsin. Rafael Salas- University of Wisconsin-Madison. Megan Humphrey- University of Wisconsin-Madison. Olivia Siebert- University of Wisconsin-Madison. Olivia Marie Bernauer (she/her/hers)- University of Wisconsin. Andrzej Affek- Institute of Geography and Spatial Organization, Polish Academy of Sciences. James Crall- University of Wisconsin-Madison - Anupreksha Jain; Rafael Salas; Megan Humphrey; Olivia Siebert; Olivia Marie Bernauer (she/her/hers); Andrzej Affek; James Crall
9:24 AM - 9:36 AM Pacific: Sunflower pollen diets reduce infection in closely related bumble bee species. Presenting Author: Elyse Christine McCormick- University of Massachusetts. Lynn Adler- University of Massachusetts - Elyse Christine McCormick; Lynn Adler
9:36 AM - 9:48 AM Pacific: Using ten years of plant-pollinator interactions to study microbial and viral communities in subalpine bumble bees. Presenting Author: Lincoln Nian Taylor (he/him/his)- University of Colorado. Julian Resasco- University of Colorado. Samuel D. Ramsey- University of Colorado - Lincoln Nian Taylor (he/him/his); Julian Resasco; Samuel D. Ramsey

Title: Grad 10-min Competition: P-IE, Chemical Ecology 1

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, E146, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Can drought and sequential herbivory alter soybean stress responses?. Presenting Author: Insha Shafi- University of Arkansas. Devi Balakrishnan (she/her/hers)- University of Arkansas. Rupesh Kariyat- University of Arkansas - Insha Shafi; Devi Balakrishnan (she/her/hers); Rupesh Kariyat
8:12 AM - 8:24 AM Pacific: Development of a monitoring tool for a phloem-feeding tortricid in western larch (Larix occidentalis). Presenting Author: Brett Bohnert- University of Idaho. Emma Lianna Eakins (She/they)- University of Idaho. Katelyn Rau- University of Idaho. Stephen Cook- University of Idaho - Brett Bohnert; Emma Lianna Eakins (She/they); Katelyn Rau; Stephen Cook
8:24 AM - 8:36 AM Pacific: Ento-phytoscreening: Using insect-induced plant galls to detect anthropogenic volatile organic compounds at urban community gardens. Presenting Author: Sarah M. Black (she/her/hers)- Wayne State University. Grace A. Szewc- Wayne State University. Andrew Ceely- Wayne State University. Bailey Gordon- Wayne State University. Glen Hood- Wayne State University - Sarah M. Black (she/her/hers); Grace A. Szewc; Andrew Ceely; Bailey Gordon; Glen Hood
8:36 AM - 8:48 AM Pacific: Evaluating the potential of three insect-derived soil amendments on plant glucosinolate production. Presenting Author: Milena Alejandra Agila- Purdue University. Laura Ingwell (she/her/hers)- Purdue University - Milena Alejandra Agila; Laura Ingwell (she/her/hers)
8:48 AM - 9:00 AM Pacific: Herbivore-induced chemical defense in aspen suppress spongy moth development and viral immune response. Presenting Author: Helen Oker- University of Wisconsin. Zoe Uihlein- University of Wisconsin-Madison. Celso Oliveira- University of Wisconsin-Madison. Angela Smilanich- University of Nevada, Reno. Amy Trowbridge- University of Wisconsin-Madison - Helen Oker; Zoe Uihlein; Celso Oliveira; Angela Smilanich; Amy Trowbridge
9:00 AM - 9:12 AM Pacific: Influence of floral traits on the behavior and development of Helicoverpa zea in hemp (Cannabis sativa). Presenting Author: Samikshya Pandey (she/her/hers)- Oregon State University. Govinda Shrestha, PhD- South Dakota State University. Vaughn M. Walton- Oregon State University - Samikshya Pandey (she/her/hers); Govinda Shrestha, PhD; Vaughn M. Walton
9:12 AM - 9:24 AM Pacific: Propolis chemical composition across landscapes. Presenting Author: Samantha Dubbs- University of Illinois. May R. Berenbaum (she/her/hers)- University of Illinois. Adam Dolezal- University of Illinois - Samantha Dubbs; May R. Berenbaum (she/her/hers); Adam Dolezal
9:24 AM - 9:36 AM Pacific: The influence of volatiles from rice panicles at different maturation stages on Oebalus pugnax behavior. Presenting Author: Laila Gabriella Araujo Santos (she/her/hers)- Louisiana State University. Michael Stout- Louisiana State University - Laila Gabriella Araujo Santos (she/her/hers); Michael Stout
9:36 AM - 9:48 AM Pacific: Underground influences: Cover crop legacies modulate corn defense hormones and herbivore success. Presenting Author: Anju Poudel- Pennsylvania State University. Kayleigh Hauri- Penn State University postdoc. Marcus Alexander Ortiz- Penn State University. Jared Ali- Pennsylvania State University - Anju Poudel; Kayleigh Hauri; Marcus Alexander Ortiz; Jared Ali
9:48 AM - 10:00 AM Pacific: What if a plant doesn't smell like a plant? Suppressing monoterpenes to enhance cotton pest resistance. Presenting Author: Yong-Sin Lo- Texas A&M University. Anjel M. Helms- Texas A&M University. Mason Clark- Texas A&M University. Gregory Sword- Texas A&M University - Yong-Sin Lo; Anjel M. Helms; Mason Clark; Gregory Sword

Title: Grad 10-min Competition: P-IE, Sampling

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Automating counting of Roseau cane scale using computer vision. Presenting Author: Joshua Broussard- Louisiana State University. Rodrigo Diaz (he/him/his)- Louisiana State University. Ivan Grijalva- Louisiana State University - Joshua Broussard; Rodrigo Diaz (he/him/his); Ivan Grijalva

8:12 AM - 8:24 AM Pacific: Benefit accrual: Quantifying the non-linear relationship between pollinator visits and seed production. Presenting Author: Christopher Anderson- University of Washington. Bucky Squier- UC Davis. Fernanda Valdovinos- UC Davis. Mark Novak- Oregon State University. Matthew Smith- UF/IFAS Extension Lake & Orange Counties. James Crall- University of Wisconsin-Madison. Berry Brosi- University of Washington - Christopher Anderson; Bucky Squier; Fernanda Valdovinos; Mark Novak; Matthew Smith; James Crall; Berry Brosi
8:24 AM - 8:36 AM Pacific: Development and performance of IoT-based non-sticky traps for real-time whitefly pest detection. Presenting Author: Denis Olgen kiobia- University of Georgia. Canicius Joseph Mwitta, n/a- University of Georgia. Shekhar J. Thapa, n/a- University of Georgia. Deus Joseph Kandamali, n/a- University of Georgia. Peter Joseph Ngimbwa, n/a- University of Georgia. Jason Schmidt- University of Georgia. Ally Joseph Travandasht- University of Georgia. Glen J. Rains, n/a- University of Georgia - Denis Olgen kiobia; Canicius Joseph Mwitta, n/a; Shekhar J. Thapa, n/a; Deus Joseph Kandamali, n/a; Peter Joseph Ngimbwa, n/a; Jason Schmidt; Ally Joseph Travandasht; Glen J. Rains, n/a
8:36 AM - 8:48 AM Pacific: Development of a sequential sampling plan for soybean gall midge. Presenting Author: Pheylan Alan Anderson- University of Minnesota. Sarah Von Gries- University of Minnesota. Erin W. Hodgson (she/her/hers)- Iowa State University. Anthony Justin McMechan- University of Nebraska-Lincoln. Gloria Melotto- GreenLight Biosciences, Inc.. Bruce Potter- University of Minnesota. Amelia R. I. Lindsey- University of Minnesota. Robert L. Koch (he/him/his)- University of Minnesota - Pheylan Alan Anderson; Sarah Von Gries; Erin W. Hodgson (she/her/hers); Anthony Justin McMechan; Gloria Melotto; Bruce Potter; Amelia R. I. Lindsey; Robert L. Koch (he/him/his)
8:48 AM - 9:00 AM Pacific: Enhancing giant salvinia (Salvinia molesta) biocontrol with real-time monitoring using Google Earth engine. Presenting Author: Victoria Ayala- Louisiana State University. David Kinsler- Rhodes University. Ivan Grijalva- Louisiana State University. Rodrigo Diaz (he/him/his)- Louisiana State University - Victoria Ayala; David Kinsler; Ivan Grijalva; Rodrigo Diaz (he/him/his)
9:00 AM - 9:12 AM Pacific: Impacts of earlier spring snowmelt on plant-pollinator interactions using a pollen metabarcoding approach. Presenting Author: Madeleine Strait- University of Washington. Connor Morozumi- University of Louisville. Loy Xingwen- Atlanta Botanical Garden. Kaysee Arrowsmith- University of Texas. Berry Brosi- University of Washington - Madeleine Strait; Connor Morozumi; Loy Xingwen; Kaysee Arrowsmith; Berry Brosi
9:12 AM - 9:24 AM Pacific: Linking bee species traits to detection probabilities in pan trap surveys. Presenting Author: Lizzy Sakulich- The Ohio State University. Karen Goodell (she/her/hers)- The Ohio State University. MaLisa Spring- The Ohio State University - Lizzy Sakulich; Karen Goodell (she/her/hers); MaLisa Spring
9:24 AM - 9:36 AM Pacific: Pollinator eDNA: Rates of deposition and decay. Presenting Author: Luke Settles- University of Illinois. Sara Merkelz- University of Illinois. Elena Gratton- University of Illinois. Mark Davis- University of Illinois. Adam Dolezal- University of Illinois - Luke Settles; Sara Merkelz; Elena Gratton; Mark Davis; Adam Dolezal
9:36 AM - 9:48 AM Pacific: Trapping techniques for ground and aerial insect communities associated with huckleberry stands in northern Idaho. Presenting Author: Nash Muckey- University of Idaho. Stephen Cook- University of Idaho - Nash Muckey; Stephen Cook
9:48 AM - 10:00 AM Pacific: Ultraviolet pan traps in the Valles caldera. Presenting Author: Esther Burton- University of New Mexico - Esther Burton

Title: Grad 10-min Competition: P-IE, Conservation

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, C124, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Butterfly host plants, a comprehensive review with new information and new tools for conservation. Presenting Author: Simon Doneski- Museum of Southwestern Biology - Simon Doneski
8:12 AM - 8:24 AM Pacific: Designing solitary bee hotels to support diverse species in anthropogenic landscapes. Presenting Author: Orion L. Pizzini- Pennsylvania State University. Harland Patch- Penn State University. Christina Grozinger- Pennsylvania State University - Orion L. Pizzini; Harland Patch; Christina Grozinger
8:24 AM - 8:36 AM Pacific: Enhancing conservation biological control through flowering plants. Presenting Author: Akriti Adhikari- Tennessee State University. Kaushalya Amarasekare- Tennessee State University. Manju Yogi- Tennessee State University - Akriti Adhikari; Kaushalya Amarasekare; Manju Yogi

8:36 AM - 8:48 AM Pacific: Investigating plant-pollinator interactions on conservation reserve program land using traditional and machine learning-based approaches. Presenting Author: Heather Poyner- Kansas State University. Brian Spiesman- Kansas State University - Heather Poyner; Brian Spiesman
8:48 AM - 9:00 AM Pacific: Investigating soils, host plants, and how their interaction mediates specialist bee abundance. Presenting Author: Nomada Scud Semler- The Ohio State University. Karen Goodell (she/her/hers)- The Ohio State University - Nomada Scud Semler; Karen Goodell (she/her/hers)
9:00 AM - 9:12 AM Pacific: Mow, till, combo, or nothing: Exploring best fall management practices for pollinator plantings. Presenting Author: Madelyn Thompson- Auburn University. Zachary Beneduci (he/him/his)- Auburn University. Geoffrey Williams- Auburn University. Anthony Abbate (he/him/his)- Auburn University - Madelyn Thompson; Zachary Beneduci (he/him/his); Geoffrey Williams; Anthony Abbate (he/him/his)
9:12 AM - 9:24 AM Pacific: Pollinator community response to tallgrass prairie restoration from varying seed mixes. Presenting Author: Joseph H. Cammarano- South Dakota State University. Nathan Donato- South Dakota State University. Alex Kovary- South Dakota State University. Lora Perkins- South Dakota State University. Diane Larson- U.S. Geological Survey - Joseph H. Cammarano; Nathan Donato; Alex Kovary; Lora Perkins; Diane Larson
9:24 AM - 9:36 AM Pacific: Role of non-bee flower visitors in a fragmented prairie ecosystem. Presenting Author: Anna Ray Hawse- University of Idaho. Stephen Cook- University of Idaho - Anna Ray Hawse; Stephen Cook
9:36 AM - 9:48 AM Pacific: Streamside management zones support wild bee and stinging wasp diversity within private, working forest landscapes. Presenting Author: Emma L. Briggs, M.S.- University of Georgia. Steven B. Castleberry- University of Georgia. Daniel U. Greene- Weyerhaeuser Company. Angela L. Larsen-Gray- National Council for Air and Stream Improvement, Inc. Holly L. Munro- National Council for Air and Stream Improvement, Inc. Roxanne Pourshoushtari- University of Georgia. Kamal J.K. Gandhi- University of Georgia - Emma L. Briggs, M.S.; Steven B. Castleberry; Daniel U. Greene; Angela L. Larsen-Gray; Holly L. Munro; Roxanne Pourshoushtari; Kamal J.K. Gandhi
9:48 AM - 10:00 AM Pacific: The role of grazing in shaping native bee communities: Comparing land management strategies in southern Oklahoma. Presenting Author: Benjamin David Turnley- University of Oklahoma. Sutton Spinner- University of Oklahoma. Gibson McElhaney- University of Oklahoma. Hamza Saeed- University of Oklahoma. Keng-Lou James Hung (he/him/his)- The University of Oklahoma - Benjamin David Turnley; Sutton Spinner; Gibson McElhaney; Hamza Saeed; Keng-Lou James Hung (he/him/his)

Title: Grad 10-min Competition: SysEB, Biodiversity

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, B116, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: An investigation of glyphosate residue effects on arthropod community diversity in northern British Columbia cut blocks. Presenting Author: Leah Swanson- University of Northern British Columbia - Leah Swanson
8:12 AM - 8:24 AM Pacific: Assessment of coastal sage scrub butterfly and bumble bee assemblages in San Diego County, CA, USA. Presenting Author: Emily A. Henderson- University of Central Missouri. Douglas H. Deutschman- Wilfrid Laurier University. Rachel E. Allingham- San Diego Natural History Museum. Daniel A. Marschalek- University of Central Missouri - Emily A. Henderson; Douglas H. Deutschman; Rachel E. Allingham; Daniel A. Marschalek
8:24 AM - 8:36 AM Pacific: Do Oklahoma's sand dunes harbor unique insect communities?. Presenting Author: Jackson Wingert- University of Oklahoma. Austin Hill- University of Oklahoma. Keng-Lou James Hung (he/him/his)- The University of Oklahoma - Jackson Wingert; Austin Hill; Keng-Lou James Hung (he/him/his)
8:36 AM - 8:48 AM Pacific: Fit to flutter: Species-specific models for alpine butterflies. Presenting Author: Heather Siart- University of Massachusetts. Toni Lyn Morelli- U.S. Geological Survey. Heidi Holman- New Hampshire Fish and Game - Heather Siart; Toni Lyn Morelli; Heidi Holman
8:48 AM - 9:00 AM Pacific: Interactive identification resources for North American ground beetles (Coleoptera: Carabidae): Examples from NEON. Presenting Author: Evan Waite (he/him/his)- Arizona State University - Evan Waite (he/him/his)

9:00 AM - 9:12 AM Pacific: Phylogenomics of the North American giant tiger beetleAmblycheila(Coleoptera: Cicindelidae). Presenting Author: Jamie Ramirez- Northern Arizona University. Grey Gustafson (he/him/his)- Northern Arizona University - Jamie Ramirez; Grey Gustafson (he/him/his)
9:12 AM - 9:24 AM Pacific: Preliminary observations of geographical, seasonal, and habitat preferences ofEutrombiculan chiggersin North Carolina. Presenting Author: Noah Holland- University of North Carolina. Gideon Wasserberg, PhD- University of North Carolina Greensboro - Noah Holland; Gideon Wasserberg, PhD
9:24 AM - 9:36 AM Pacific: Rediscovery of the greater chestnut weevil highlights the growing power of digital tools in biodiversity science. Presenting Author: Michael Alexander Charles (he/him/his)- University of Memphis. Duane McKenna- University of Memphis - Michael Alexander Charles (he/him/his); Duane McKenna
9:36 AM - 9:48 AM Pacific: Trait-based insights into arthropod community shifts following forest disturbance. Presenting Author: Cameron James Garland (he/him/his)- University of Minnesota. Matthew Petersen- University of Minnesota - Cameron James Garland (he/him/his); Matthew Petersen

Title: Grad 10-min Competition: P-IE, Ecology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: A time and place: Assessing the phenology of ambrosia beetles (Coleoptera: Curculionidae) to document and predict the occurrence of peaks of activity in nurseries. Presenting Author: Devin Barry Calpo (they/them/theirs)- Virginia Polytechnic Institute and State University. Julie Brindley- Virginia Polytechnic Institute and State University. Peter Schultz- Va Tech HRAREC. Christopher M. Ranger (he/him/his)- USDA-ARS. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University - Devin Barry Calpo (they/them/theirs); Julie Brindley; Peter Schultz; Christopher M. Ranger (he/him/his); Alejandro Del-Pozo
8:12 AM - 8:24 AM Pacific: An ecological niche modeling investigation of the causes ofFagitana litterararity despite host plant abundance. Presenting Author: Charlotte Jeanne Heinz Hohman- Sam Houston State University - Charlotte Jeanne Heinz Hohman
8:24 AM - 8:36 AM Pacific: Characterizing beetle communities associated with three species of Ash (Fraxinusspp.) in subtropical southeastern Louisiana. Presenting Author: Andrew P. Sanford- Louisiana State University. Todd Johnson- Louisiana State University. Crawford W. Johnson- Southern Region, Forest Health Protection. Ridley Graugnard (he/him/his)- Louisiana State University - Andrew P. Sanford; Todd Johnson; Crawford W. Johnson; Ridley Graugnard (he/him/his)
8:36 AM - 8:48 AM Pacific: Ground beetle community responses to prairie reconstruction age, Sericea lespedeza invasion, and invasive plant management. Presenting Author: Lillian Cruz Landre (they/them/theirs)- University of Missouri. Connor Crouch- USDA Forest Service. Robbie Doerhoff- Missouri Department of Conservation. Emily Althoff- University of Missouri - Lillian Cruz Landre (they/them/theirs); Connor Crouch; Robbie Doerhoff; Emily Althoff
8:48 AM - 9:00 AM Pacific: Impact of emerald ash borer (EAB) infestation on overwintering ash-associated insect communities. Presenting Author: Angela Saenz (she/her/hers)- University of Maryland. Daniel Gruner- University of Maryland - Angela Saenz (she/her/hers); Daniel Gruner
9:00 AM - 9:12 AM Pacific: Impact of hail damage on soybean gall midge (Resseliella maxima Gagne) infestation and larval abundance in eastern Nebraska. Presenting Author: Natasha Hiromi Umezu- University of Nebraska-Lincoln. Anthony Justin McMechan- University of Nebraska-Lincoln - Natasha Hiromi Umezu; Anthony Justin McMechan
9:12 AM - 9:24 AM Pacific: Megafauna schmegafauna: A comprehensive evaluation of protections for endangered insects and arachnids across the U.S.. Presenting Author: Wes Walsh (he/him/his)- University of Massachusetts. Laura Figueroa- University of Massachusetts - Wes Walsh (he/him/his); Laura Figueroa
9:24 AM - 9:36 AM Pacific: Phosphorus folly: Soil phosphorus rewires top-down control of herbivores in agroecosystems. Presenting Author: Carly Rae Sharp- University of Georgia. William Snyder- University of Georgia. Carmen Blubaugh- University of Illinois. Kate Cassity-Duffey- University of Georgia. Anny Chung- University of Georgia - Carly Rae Sharp; William Snyder; Carmen Blubaugh; Kate Cassity-Duffey; Anny Chung
9:36 AM - 9:48 AM Pacific: Plant phenology and landscape composition modulate the population dynamics of Spodoptera frugiperda (Smith) (Lepidoptera: Noctuidae) over space and time. Presenting Author: Daiane Dalla Nora- University of Puerto Rico. Ricardo Rubin Balardin (he/him/his)- University of Puerto Rico. Jose Carlos Verle

Rodrigues (he/him/his)- United States Department of Agriculture - Daiane Dalla Nora; Ricardo Rubin Balardin (he/him/his); Jose Carlos Verle Rodrigues (he/him/his)
9:48 AM - 10:00 AM Pacific: Wilting speed affects drought-herbivore interactions in soybean with consequences for fitness. Presenting Author: Jessica Ayala- University of Arkansas. Manish Gautam- University of Arkansas. Justin George- United States Department of Agriculture. Rupesh Kariyat- University of Arkansas - Jessica Ayala; Manish Gautam; Justin George; Rupesh Kariyat

Title: Grad 10-min Competition: SysEB, Biogeography

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, B114, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: A population genomic analysis of a widespread North American bumble bee, Bombus huntii. Presenting Author: Brandon Austin Meadows- University of Alabama. Jonathan Koch- USDA-ARS-PWA-PIRU. Remy Vandame (he/him/his)- El Colegio de la Frontera Sur. Michael Branstetter- USDA-ARS. Jeff Lozier (he/him/his)- University of Alabama - Brandon Austin Meadows; Jonathan Koch; Remy Vandame (he/him/his); Michael Branstetter; Jeff Lozier (he/him/his)
8:12 AM - 8:24 AM Pacific: Around the world in 4,100 species: Historical biogeography of Mirinae (Hemiptera: Miridae). Presenting Author: Veronica Tyts (she/her/hers)- University of California. Christiane Weirauch (she/her/hers)- University of California. Rochelle Hoey-Chamberlain- University of California, Riverside - Veronica Tyts (she/her/hers); Christiane Weirauch (she/her/hers); Rochelle Hoey-Chamberlain
8:24 AM - 8:36 AM Pacific: Custom phylogenomics pipeline elucidates the evolutionary history and biogeography of Simuliidae. Presenting Author: Jackson Hoehn Turner (he/him/his)- University of Tennessee. John Moulton- The University of Tennessee - Jackson Hoehn Turner (he/him/his); John Moulton
8:36 AM - 8:48 AM Pacific: Evolutionary and biogeographic history of bees from the tribe Emphorini (Hymenoptera: Apidae). Presenting Author: Nathalia Florez Gomez- Cornell University. Bryan Danforth- Cornell University - Nathalia Florez Gomez; Bryan Danforth
8:48 AM - 9:00 AM Pacific: Filling monitoring gaps for data-deficient species using annual occupancy predictions from co-occurrence models. Presenting Author: Hyun Yong Chung, M.A.- Cornell University. Dae-Kyung Lee- NA. John Losey, PhD- Cornell University, Department of Entomology - Hyun Yong Chung, M.A.; Dae-Kyung Lee; John Losey, PhD
9:00 AM - 9:12 AM Pacific: Islands in a sea of corn: Ants as a model system for island biogeography in isolated forest stands. Presenting Author: Layton Alexander Rosen- Purdue University. Grzegorz Buczkowski- Purdue University - Layton Alexander Rosen; Grzegorz Buczkowski
9:12 AM - 9:24 AM Pacific: Mapping what's missing: Estimating butterfly richness and sampling gaps in Kansas. Presenting Author: Anahi Quezada (she/her/hers)- University of Kansas - Anahi Quezada (she/her/hers)
9:24 AM - 9:36 AM Pacific: Past, present, and future: Distribution of North American Andrena(Hymenoptera: Andrenidae) subgenus Plastandrena. Presenting Author: Wyatt Zabinski- University of Kansas - Wyatt Zabinski
9:36 AM - 9:48 AM Pacific: Phylogenomics, biogeography, and host-plant evolution in Callandrena (Hymenoptera: Andrenidae), a group of specialist bees on Asteraceae. Presenting Author: Kayun Lim (she/her/hers)- Utah State University. Michael Branstetter- USDA-ARS - Kayun Lim (she/her/hers); Michael Branstetter
9:48 AM - 10:00 AM Pacific: The aquatic beetle genus Suphisellus (Coleoptera: Noteridae) as a system for understanding New World biogeography. Presenting Author: Jacob Bethin (he/him/his)- Louisiana State University. Stephen Baca- Louisiana State University - Jacob Bethin (he/him/his); Stephen Baca

Title: Grad 10-min Competition: P-IE, Entomopathogens

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, C123, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:

8:00 AM - 8:12 AM Pacific: Citrus mealybug management for ornamental plants using entomopathogenic nematodes. Presenting Author: Zachary Everson- North Carolina State University. Alanis Ramos-Rodriguez- NC State University. Steven Frank- North Carolina State University - Zachary Everson; Alanis Ramos-Rodriguez; Steven Frank
8:12 AM - 8:24 AM Pacific: Compatibility of entomopathogenic nematodes with Habrobracon hebetor against Plodia interpunctella. Presenting Author: Jamilatu Tiyumba Issah- Fort Valley State University. Sanower Warsi- Fort Valley State University. James Kofi Danso- Fort Valley State University. David Shapiro-Ilan (he/him/his)- USDA-ARS. George Mbata- Fort Valley State University - Jamilatu Tiyumba Issah; Sanower Warsi; James Kofi Danso; David Shapiro-Ilan (he/him/his); George Mbata
8:24 AM - 8:36 AM Pacific: Effects of entomopathic nematode exposure on squash root colonization by fungal mutualists. Presenting Author: Skai Peterson- Texas A&M University - Skai Peterson
8:36 AM - 8:48 AM Pacific: Efficacy of entomopathogenic fungi against Phthorimaea operculella eggs and larvae under glasshouse and storage conditions. Presenting Author: Setho Shimmy Sebitsang (he/him/his)- Agricultural Research Council. Abongile Nxitywa- Agricultural Research Council. Diedrich Visser- Agricultural Research Council. Nomakholwa Stokwe- Stellenbosch University - Setho Shimmy Sebitsang (he/him/his); Abongile Nxitywa; Diedrich Visser; Nomakholwa Stokwe
8:48 AM - 9:00 AM Pacific: Endophytic colonization and beauvericin production by Beauveria bassiana in peach (Prunus persica) seedlings : Implications for insect biocontrol. Presenting Author: Sabrina A. Elgar (she/her/hers)- University of Georgia. Brett Blaauw- University of Georgia. David Shapiro-Ilan (he/him/his)- USDA-ARS. Conor Fair- University of Georgia. Dario Chavez- University of Georgia. Caterina Villari- University of Georgia - Sabrina A. Elgar (she/her/hers); Brett Blaauw; David Shapiro-Ilan (he/him/his); Conor Fair; Dario Chavez; Caterina Villari
9:00 AM - 9:12 AM Pacific: Nematode allies? Investigating potential non-target effects of persistent entomopathogenic nematodes on pest and beneficial arthropods. Presenting Author: Pragya Gupta (she/her/hers)- Texas A&M University. Anjel M. Helms- Texas A&M University. Jose Santiago-Gonzalez- Texas A&M Agrilife. Dalton Ludwick- USDA-ARS. Earl Agpawa- Texas A&M University - Pragya Gupta (she/her/hers); Anjel M. Helms; Jose Santiago-Gonzalez; Dalton Ludwick; Earl Agpawa
9:12 AM - 9:24 AM Pacific: Survey and dose-response of Ovavesicula popilliae (Icrosporidia: Ovavesiculidae) as a biological control agent for Popillia japonica(Coleoptera: Scarabaeidae) in Wisconsin vineyards. Presenting Author: Emilie Parkanzky- University of Wisconsin. Christelle Guedot- University of Wisconsin - Emilie Parkanzky; Christelle Guedot
9:24 AM - 9:36 AM Pacific: The efficacy of field-collected pathogens against chewing and sucking insects. Presenting Author: Kimberly Okpah- University of Maryland. Tigist Tolosa- University of Maryland. Simon Zebelo- University of Maryland. Kayla Waters (she/her/hers)- University of Maryland. Jocelyn Elliott- University of Maryland - Kimberly Okpah; Tigist Tolosa; Simon Zebelo; Kayla Waters (she/her/hers); Jocelyn Elliott

Title: Grad 10-min Competition: SysEB, Ecology

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Ants in the city: How urban landscapes shape diversity in the southeast. Presenting Author: Luke William Edenborough- Auburn University. Samantha Michele Kennett- Clemson University. John Paul Hellenbrand- Kennesaw State University. Clint Penick- Auburn University - Luke William Edenborough; Samantha Michele Kennett; John Paul Hellenbrand; Clint Penick
8:12 AM - 8:24 AM Pacific: Balancing conservation and land management: The effects of herbicide and prescribed burns on native pollinator communities. Presenting Author: Nina Crawford- University of Wyoming. Lusha Tronstad, PhD- University of Wyoming - Nina Crawford; Lusha Tronstad, PhD
8:24 AM - 8:36 AM Pacific: Between a rock and a safe place: What makes a good nest for a rock-dwelling ant?. Presenting Author: Purbayan Ghosh- Arizona State University. Stephen Pratt- Arizona State University - Purbayan Ghosh; Stephen Pratt
8:36 AM - 8:48 AM Pacific: Floral associations of nectarivorous long-mouthed crane flies (Diptera: Limoniidae). Presenting Author: Maddie Worth- Cornell University. Jason Dombroskie- Cornell University. Patrick O'Grady- Cornell University - Maddie Worth; Jason Dombroskie; Patrick O'Grady

8:48 AM - 9:00 AM Pacific: Host specificity in palm weevils using species delimitation methods. Presenting Author: Abigail E. Magland- University of Chicago. DIEGO d S SOUZA- Field Museum. Aline Lira- Universidade Federal Rural de Pernambuco. Bruno de Medeiros- Field Museum - Abigail E. Magland; DIEGO d S SOUZA; Aline Lira; Bruno de Medeiros
9:00 AM - 9:12 AM Pacific: How does group size affect habituation in the eastern subterranean termite Reticulitermes flavipes(Blattodea: Rhinotermitidae)?. Presenting Author: Quanquan Liu, PhD- University of Illinois. Xuguo Zhou- University of Illinois Urbana-Champaign. Charles Abramson- Oklahoma State University - Quanquan Liu, PhD; Xuguo Zhou; Charles Abramson
9:12 AM - 9:24 AM Pacific: Local niche, geographic barriers, or both in structuring a tropical forest metacommunity of cockroaches (Blattodea non-Termitoidae)?. Presenting Author: Emmy Fiorella Medina Espinoza- University of Illinois. Dominic Evangelista- University of Illinois. Jason Bried- Illinois Natural History Survey, Prairie Research Institute, University of Illinois Urbana-Champaign - Emmy Fiorella Medina Espinoza; Dominic Evangelista; Jason Bried
9:24 AM - 9:36 AM Pacific: Social information overcomes diminished sensory information to drive collective thermoregulatory behavior. Presenting Author: Kerrigan Tobin- Marquette University. Zachary Nelson- Marquette University. Elsa Hahn- Marquette University. Chelsea Cook- Marquette University - Kerrigan Tobin; Zachary Nelson; Elsa Hahn; Chelsea Cook
9:36 AM - 9:48 AM Pacific: Symbiont-dependent insects and stressful temperatures using the pea aphid system (Acyrthosiphon pisum). Presenting Author: Abigail Williams (she/her/hers)- Drexel University - Abigail Williams (she/her/hers)

Title: Grad 10-min Competition: SysEB, Evolution 1

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, B113, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Biogeography and color evolution of jewel damselflies (Odonata: Chlorocyphidae). Presenting Author: Judical Fomekong-Lontchi- Brigham Young University. Vincent Kalkman- Naturalis Biodiversity Center. Seth Bybee- Brigham Young University - Judical Fomekong-Lontchi; Vincent Kalkman; Seth Bybee
8:12 AM - 8:24 AM Pacific: Classification and evolution within narrow-winged damselflies (Odonata: Coenagrionidae). Presenting Author: Laura Sutherland (she/her/hers)- Brigham Young University. Payton Carter- Brigham Young University. Seth Bybee- Brigham Young University - Laura Sutherland (she/her/hers); Payton Carter; Seth Bybee
8:24 AM - 8:36 AM Pacific: Convergent evolution of hindwing flight in beetles and cockroaches. Presenting Author: Johanna Schwartz (she/her/hers)- University of Illinois. Dominic Evangelista- University of Illinois - Johanna Schwartz (she/her/hers); Dominic Evangelista
8:36 AM - 8:48 AM Pacific: Eusocial behavior in arthropods: Patterns of convergent evolution. Presenting Author: Claire S. Bailey (she/her/hers)- New Jersey Institute of Technology. Solomon Chak- Denison University. Kristin Hultgren- Seattle University. Phillip Barden (he/him/his)- New Jersey Institute of Technology - Claire S. Bailey (she/her/hers); Solomon Chak; Kristin Hultgren; Phillip Barden (he/him/his)
8:48 AM - 9:00 AM Pacific: Exploring the evolutionary consequences of altitudinal expansion in Colias butterflies. Presenting Author: Clare Mikaela Dittemore- Great Basin Bug Laboratory. Zach Gompert, PhD- Utah State University. Matthew Forister (he/him/his)- University of Nevada - Clare Mikaela Dittemore; Zach Gompert, PhD; Matthew Forister (he/him/his)
9:00 AM - 9:12 AM Pacific: First UCE phylogenomic analysis of Sapygidae reveals widespread generic paraphyly. Presenting Author: Jeremy Jensen (he/him/his)- Utah State University. Michael Branstetter- USDA-ARS. James Pitts- Utah State University - Jeremy Jensen (he/him/his); Michael Branstetter; James Pitts
9:12 AM - 9:24 AM Pacific: Resolving the phylogeny of Odonata with comprehensive genomic sampling. Presenting Author: Payton Carter- Brigham Young University. Seth Bybee- Brigham Young University - Payton Carter; Seth Bybee
9:24 AM - 9:36 AM Pacific: The evolution of abdomen and flight style diversity within the dragonfly genus Erythemis Hagen, 1861 (Anisoptera: Odonata). Presenting Author: Kate Olivia Montana- American Museum of Natural History. John Abbott- University of Alabama. Kendra Abbott- University of Alabama. Jessica L. Ware

(she/her/hers)- American Museum of Natural History - Kate Olivia Montana; John Abbott; Kendra Abbott; Jessica L. Ware (she/her/hers)
9:36 AM - 9:48 AM Pacific: The systematics of clubtail dragonflies (family Gomphidae). Presenting Author: Violet Onsongo- American Museum of Natural History - Violet Onsongo

Title: Grad 10-min Competition: P-IE, Field Crops 1

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Evaluating biowrap as a barrier to soybean gall midge (Resseliella maxima Gagne) emergence. Presenting Author: Kristin Heinrichs Stark- University of Nebraska-Lincoln. Ana C. Gomez- University of Nebraska-Lincoln. Chris Proctor- University of Nebraska-Lincoln. Anthony Justin McMechan- University of Nebraska-Lincoln - Kristin Heinrichs Stark; Ana C. Gomez; Chris Proctor; Anthony Justin McMechan
8:12 AM - 8:24 AM Pacific: Evaluating drone applications for cotton insect control. Presenting Author: Emma Wingfield- Auburn University. Scott Graham- Auburn University. Steve Li- Auburn University - Emma Wingfield; Scott Graham; Steve Li
8:24 AM - 8:36 AM Pacific: Evaluating the impact and interactions of soybean gall midge, dectes stem borer, and plant diseases in soybean. Presenting Author: Thales Rodrigues da Silva- University of Nebraska-Lincoln. Dylan Mangel- Department of Plant Pathology, University of Nebraska - Lincoln. Ritika Lamichhane- University of Nebraska-Lincoln. John Nelson- University of Nebraska-Lincoln. Travis Prochaska- University of Nebraska-Lincoln. Matheus Pires de Mello Ribeiro- University of Nebraska-Lincoln. Aaron Nygren- University of Nebraska-Lincoln. Wayne Ohnesorg- University of Nebraska-Lincoln. Ron Seymour- University of Nebraska-Lincoln. Anthony Justin McMechan- University of Nebraska-Lincoln - Thales Rodrigues da Silva; Dylan Mangel; Ritika Lamichhane; John Nelson; Travis Prochaska; Matheus Pires de Mello Ribeiro; Aaron Nygren; Wayne Ohnesorg; Ron Seymour; Anthony Justin McMechan
8:36 AM - 8:48 AM Pacific: Evaluating the impact of planting date on dectes stem borer, Dectes texanus LeConte, (Coleoptera: Cerambycidae) infestations of South Dakota sunflowers. Presenting Author: Khuma Kumari Bhusal (she/her/hers)- South Dakota State University. Philip Rozeboom- South Dakota State University. Bradley L. McManus- South Dakota State University. Adam Varenhorst- South Dakota State University - Khuma Kumari Bhusal (she/her/hers); Philip Rozeboom; Bradley L. McManus; Adam Varenhorst
8:48 AM - 9:00 AM Pacific: Investigating the damage potential of clouded plant bugs (Neurocolpus nubilus (Say)) in ThryvOn cotton. Presenting Author: Nathan Curtis Arey- University of Tennessee. Sebe Brown- University of Tennessee - Nathan Curtis Arey; Sebe Brown
9:00 AM - 9:12 AM Pacific: Investigating the impact of soil-applied silicon on insect pests in soybean. Presenting Author: Jayvee Bruno (he/him/his)- Louisiana State University. James Villegas- LSU AgCenter. Michael Stout- Louisiana State University. Jeffrey Davis- Louisiana State University. Brenda Tubana- LSU AgCenter. Saurav Ranabhat (he/him/his)- Louisiana State University. Leroy Lopez- Texas A&M University. Oneal Edward- Louisiana State University - Jayvee Bruno (he/him/his); James Villegas; Michael Stout; Jeffrey Davis; Brenda Tubana; Saurav Ranabhat (he/him/his); Leroy Lopez; Oneal Edward
9:12 AM - 9:24 AM Pacific: Mapping the infestation: Spatial dynamics of Eoreuma loftini (Dyar) in sugarcane. Presenting Author: Schyler Thibodeaux- Louisiana State University. Blake Wilson- Louisiana State University - Schyler Thibodeaux; Blake Wilson
9:24 AM - 9:36 AM Pacific: Perennial cover crops in cotton to manage thrips and enhance arthropod diversity. Presenting Author: Raman Mohanpuria- Clemson University. Francis Reay-Jones- Clemson University. Eric Billman- Clemson University. Jeremy Greene- Clemson University. Igor Schardong- Clemson University - Raman Mohanpuria; Francis Reay-Jones; Eric Billman; Jeremy Greene; Igor Schardong
9:36 AM - 9:48 AM Pacific: Pesticide residues in corn: Impacts on non-target plants and pollinator interactions. Presenting Author: Suleima Yasmin Patt- Cornell University. Alexander Chauta- Cornell University. Alejandro Calixto- Cornell University. Christophe Duplais- Cornell University. Lucas Foster- Cornell University. Katja Poveda- Cornell University - Suleima Yasmin Patt; Alexander Chauta; Alejandro Calixto; Christophe Duplais; Lucas Foster; Katja Poveda
9:48 AM - 10:00 AM Pacific: Thrips species, population dynamics, and seed treatment effectiveness in dry beans. Presenting Author: Aarju Aryal- University of Nebraska-Lincoln. Jeffrey Bradshaw- University of Nebraska. Carlos

Urrea- University of Nebraska-Lincoln. Pin-Chu Lai- University of Nebraska-Lincoln - Aarju Aryal; Jeffrey Bradshaw; Carlos Urrea; Pin-Chu Lai

Title: Grad 10-min Competition: P-IE, Genetics

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Accusation success rate of X-disease by the leafhopper Euscelidius variegatus from positive sweet cherry trees. Presenting Author: Anders Wohler (he/him/his)- Oregon State University. Yan Yan- Oregon State University. kelsey galimba- Oregon State University. Adrian Marshall- USDA-ARS Temperate Tree Fruit and Vegetable Research Unit. Scott Harper- Washington State University. Christopher Adams- Oregon State University - Anders Wohler (he/him/his); Yan Yan; kelsey galimba; Adrian Marshall; Scott Harper; Christopher Adams
8:12 AM - 8:24 AM Pacific: Corn earworm (Helicoverpa zea) herbivory induces cannabinoid biosynthesis and defense gene expression in boax and berry hemp (Cannabis sativa L.) varieties. Presenting Author: Freweyni Michael Abrha- University of Maryland. Tigist Tolosa- University of Maryland. Simon Zebelo- University of Maryland - Freweyni Michael Abrha; Tigist Tolosa; Simon Zebelo
8:24 AM - 8:36 AM Pacific: Effects of flavonoid altered maize lines on plant volatiles, arthropod ecology, and genetic regulation in the field. Presenting Author: Faith Mihalick- Pennsylvania State University. Jared Ali- Pennsylvania State University. Surinder Chopra- Penn State University - Faith Mihalick; Jared Ali; Surinder Chopra
8:36 AM - 8:48 AM Pacific: Genetic characterization of invasive Dalbulus maidis(Hemiptera: Cicadellidae) populations in the U.S.. Presenting Author: Caden Pollock- Texas A&M University. Jose Santiago-Gonzalez- Texas A&M Agrilife. Raul Medina- Texas A&M University - Caden Pollock; Jose Santiago-Gonzalez; Raul Medina
8:48 AM - 9:00 AM Pacific: Genetic diversity and performance of Phragmites australis under biotic and abiotic stressors: Implications for coastal restoration in the Mississippi River Delta. Presenting Author: Karina Alejandra Nolasco- Louisiana State University. Josh Snook- Louisiana State University. Jonathan Richards- Louisiana State University. Rodrigo Diaz (he/him/his)- Louisiana State University. Tanner Sparks- Louisiana State University - Karina Alejandra Nolasco; Josh Snook; Jonathan Richards; Rodrigo Diaz (he/him/his); Tanner Sparks
9:00 AM - 9:12 AM Pacific: Identification and characterisation of waprin homologue in Tribolium castaneum: Journey from anti-microbials to embryonic development. Presenting Author: Chhavi Choudhary- Central University of Rajasthan. Jayendra Nath Shukla- Central University of Rajasthan Ajmer - Chhavi Choudhary; Jayendra Nath Shukla
9:12 AM - 9:24 AM Pacific: Mapping QTLs for resistance to Bemisia tabaci MEAM1 in melon accession PI 122847. Presenting Author: Benjamin B. van Raalte- University of California. Mei Tanaka- University of California-Riverside. Makayla Tjon- University of California-Riverside. Danelle Seymour- University of California-Riverside. James D. McCreight- USDA-ARS. Kerry Mauck- University of California - Benjamin B. van Raalte; Mei Tanaka; Makayla Tjon; Danelle Seymour; James D. McCreight; Kerry Mauck
9:24 AM - 9:36 AM Pacific: Temporal and species-specific patterns of mosquito phytophagy in urban pollinator gardens. Presenting Author: Gwenyth Coleman (she/her/hers)- University of Nebraska-Lincoln. Leslie Rault- University of Nebraska-Lincoln. Lise Pingault- University of Nebraska-Lincoln. Troy Anderson- University of Nebraska-Lincoln - Gwenyth Coleman (she/her/hers); Leslie Rault; Lise Pingault; Troy Anderson
9:36 AM - 9:48 AM Pacific: The implications of introgression on the cold tolerance threshold of native Helicoverpa zea moths. Presenting Author: Cooper John Phillips- Colorado State University. Frida Zink- Colorado State University. Luke Tembrock- Colorado State University. Micky Eubanks- Colorado State University - Cooper John Phillips; Frida Zink; Luke Tembrock; Micky Eubanks
9:48 AM - 10:00 AM Pacific: Utilizing nanopore sequencing to elucidate the foraging ecology of native solitary bees in museum collections. Presenting Author: Tanner M. Bland (he/him/his)- University of Arizona. Wendy Moore, PhD (she/her/hers)- University of Arizona - Tanner M. Bland (he/him/his); Wendy Moore, PhD (she/her/hers)

Title: Grad 10-min Competition: P-IE, Honey Bees

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, D137-138, OCC

Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Catch my drift: Using computer vision to study honey bee drifting's effect on pest and pathogen transmission. Presenting Author: Curtis Heath Coleman- Mississippi State University. Elizabeth Walsh (she/her/hers)- USDA-ARS. Garrett Street- Mississippi State University - Curtis Heath Coleman; Elizabeth Walsh (she/her/hers); Garrett Street
8:12 AM - 8:24 AM Pacific: European foulbrood in honey bees: Identifying potential relationship between infection and gene response. Presenting Author: Mckaela Whilden (she/her/hers)- Washington State University. Ramesh Sagili (he/him/his)- Oregon State University. Priya Chakrabarti Basu (she/her/hers)- Washington State University - Mckaela Whilden (she/her/hers); Ramesh Sagili (he/him/his); Priya Chakrabarti Basu (she/her/hers)
8:24 AM - 8:36 AM Pacific: Honey bees on public land: How experimentally-induced honey bee pressure in a public forest impacts native bee interactions. Presenting Author: Nicki Bailey (she/her/hers)- Colorado State University. John Mola- Colorado State University. Seth Davis- Colorado State University - Nicki Bailey (she/her/hers); John Mola; Seth Davis
8:36 AM - 8:48 AM Pacific: How honey bees process dead mice in the nest. Presenting Author: Erica Maul- Auburn University - Erica Maul
8:48 AM - 9:00 AM Pacific: Revamping current pest management tools to target Varroa destructor. Presenting Author: Petra Hafker (she/her/hers)- Cornell University. Christophe Duplais- Cornell University - Petra Hafker (she/her/hers); Christophe Duplais
9:00 AM - 9:12 AM Pacific: Survey of genetic diversity and pathogen prevalence in commercial beekeeping operations across southwest Saudi Arabia: Implications for management and selective breeding. Presenting Author: Keegan Nichols- Texas A&M University. Juliana Rangel- Texas A&M University. Tonya Shepherd- Texas A&M University - Keegan Nichols; Juliana Rangel; Tonya Shepherd
9:12 AM - 9:24 AM Pacific: Temporal and spatial distributions of pathogens in managed Florida honey bee (Apis mellifera) colonies. Presenting Author: Julia St Amant- University of Florida. Cameron Jack- University of Florida. James D. Ellis- University of Florida - Julia St Amant; Cameron Jack; James D. Ellis
9:24 AM - 9:36 AM Pacific: Viral transmission dynamics during pollination: A temporal assessment of RNA viral transmission associated with honey bees (Apis mellifera) and almond pollen during a mass monoculture bloom. Presenting Author: Sara Herrejon Chavez- University of California. Nina Ariadne Sokolov (she/her/hers)- University of California. Michael Boots- University of California - Sara Herrejon Chavez; Nina Ariadne Sokolov (she/her/hers); Michael Boots

Title: Grad 10-min Competition: P-IE, Host-Plant Resistance

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Above-ground impact of biofumigation: Soil biofumigation alters aphid host preference and reproduction through host-mediated mechanisms. Presenting Author: Usha Panta- Virginia Polytechnic Institute and State University. Arash Rashed- Virginia Tech - Usha Panta; Arash Rashed
8:12 AM - 8:24 AM Pacific: Assessing susceptibility of selected southern highbush blueberry cultivars to chilli thrips (Scirtothrips dorsalis). Presenting Author: Kendi Muthomi- University of Florida. Dakshina R. Seal, PhD University of Florida. Sriyanka Lahiri- University of Florida. Geoffrey M. Meru- University of Florida. Oscar Liburd- University of Florida - Kendi Muthomi; Dakshina R. Seal, PhD; Sriyanka Lahiri; Geoffrey M. Meru; Oscar Liburd
8:24 AM - 8:36 AM Pacific: Deciphering the role of the ferulate-5-hydroxylase (F5H) gene in sorghum defense against sugarcane aphids. Presenting Author: Kashish Verma (she/her/hers)- University of Nebraska-Lincoln. Kumar Shrestha- University of Nebraska-Lincoln. Scott Sattler- USDA-ARS Wheat, Sorghum and Forage Research Unit. Joe Louis- University of Nebraska-Lincoln - Kashish Verma (she/her/hers); Kumar Shrestha; Scott Sattler; Joe Louis
8:36 AM - 8:48 AM Pacific: Everything that kills me, makes me feel alive: The paradox of plant nutrition and defense. Presenting Author: Sujay Paranjape- Pennsylvania State University. Faith Mihalick- Pennsylvania State University. Sahil Vinod Pawar- Pennsylvania State University. Annett Richter- Boyce Thompson Institute for Plant

Research. Gary Felton- Pennsylvania State University. Georg Jander- Boyce Thompson Institute. Jared Ali- Pennsylvania State University - Sujay Paranjape; Faith Mihalick; Sahil Vinod Pawar; Annett Richter; Gary Felton; Georg Jander; Jared Ali
8:48 AM - 9:00 AM Pacific: Exploring resistance mechanisms of potato virus Y (PVY)-resistant potato varieties with aphid vectors. Presenting Author: Joshua Sulemana- Oregon State University. Josephine Antwi, n/a- Oregon State University, Corvallis - Joshua Sulemana; Josephine Antwi, n/a
9:00 AM - 9:12 AM Pacific: Exploring the mechanisms of plant resistance to insect pests in organic and conventional hemp systems. Presenting Author: Max R. Schmidtbauer- Nachappa Lab Colorado State University. Jessica Prenni- Colorado State University. Adrianna Szczepaniec- Colorado State University. Mark Uchanski- Colorado State University. Punya Nachappa- Colorado State University - Max R. Schmidtbauer; Jessica Prenni; Adrianna Szczepaniec; Mark Uchanski; Punya Nachappa
9:12 AM - 9:24 AM Pacific: Host plant acceptance and pea leaf weevil, Sitona lineatus(Coleoptera: Curculionidae) development in response to rhizobium-field pea symbiosis. Presenting Author: Olajide Ilesanmi Fatukasi- University of Alberta. Asha Wijerathna- University of Alberta. Malinda Thilakarathna- University of Alberta. Maya Evenden (she/her/hers)- University of Alberta - Olajide Ilesanmi Fatukasi; Asha Wijerathna; Malinda Thilakarathna; Maya Evenden (she/her/hers)
9:24 AM - 9:36 AM Pacific: Host selection and suitability of Clearfield wheat cultivars to wheat stem sawfly (Cephus cinctus). Presenting Author: Henrique V. Vieira- Colorado State University. Adam Osterholzer- Colorado State University. Jacob MacWilliams- Colorado State University. MJ Riches- Colorado State University. Esten Mason- Colorado State University. Punya Nachappa- Colorado State University - Henrique V. Vieira; Adam Osterholzer; Jacob MacWilliams; MJ Riches; Esten Mason; Punya Nachappa
9:36 AM - 9:48 AM Pacific: Population-level variation in resistance of wild and cultivated blueberries to spotted wing drosophila. Presenting Author: Jae E. Kerstetter (they/them/theirs)- Rutgers University. Toviah Bass- Rutgers University. Cesar Rodriguez-Saona (he/him/his)- Rutgers University - Jae E. Kerstetter (they/them/theirs); Toviah Bass; Cesar Rodriguez-Saona (he/him/his)
9:48 AM - 10:00 AM Pacific: Strengthening plant defenses: Microbial and micronutrient contributions from fertilizers. Presenting Author: Mellisa Musekwa- University of California. Elizabeth Rowen- University of California. Ember Morrissey- West Virginia University. Sara Zecca- West Virginia University. Eric Goddard- West Virginia University - Mellisa Musekwa; Elizabeth Rowen; Ember Morrissey; Sara Zecca; Eric Goddard

Title: Grad 10-min Competition: P-IE, Insecticides

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, E147-148, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Comparing early-season pest abundance and damage between neonicotinoid-treated and untreated (fungicide-only) seeds in field and vegetable crops in New York state. Presenting Author: Chloe Yi-Luo Cho (she/her/hers)- Cornell University. Mike Hunter- Cornell IPM. Mike Stanyard- Cornell CCE. Erik Smith- Cornell CCE. Janice Degni- Cornell CCE. Katelyn Miller- Cornell CCE. Julie Kikkert- Cornell CCE. Marion Zuefle- Cornell IPM. Alejandro Calixto- Cornell University. Katja Poveda- Cornell University - Chloe Yi-Luo Cho (she/her/hers); Mike Hunter; Mike Stanyard; Erik Smith; Janice Degni; Katelyn Miller; Julie Kikkert; Marion Zuefle; Alejandro Calixto; Katja Poveda
8:12 AM - 8:24 AM Pacific: Connecting stink bug pyrethroid resistance to landscape composition in eastern North Carolina. Presenting Author: Sujan Panta- North Carolina State University. James Colthier- North Carolina State University. Dominic Reisig- North Carolina State University. George Kennedy- North Carolina State University. Anders Huseth- North Carolina State University - Sujan Panta; James Colthier; Dominic Reisig; George Kennedy; Anders Huseth
8:24 AM - 8:36 AM Pacific: Do preventive fungicide and insecticide applications at the R3 growth stage provide a positive return on investment?. Presenting Author: Jeova Rafael Rafael Rodrigues da silva- University of Missouri. Adauto B. Rocha Junior, Jr.- University of Missouri. Lennis Afraire Rodrigues (she/her/hers)- University of Missouri. Lucas Bonum Severo- Federal University of Santa Maria. Alexandria Haafke- University of Missouri. Mandy Bish- University of Missouri. Ivair Valmorbida- University of Missouri - Jeova Rafael Rafael Rodrigues da silva; Adauto B. Rocha Junior, Jr.; Lennis Afraire Rodrigues (she/her/hers); Lucas Bonum Severo; Alexandria Haafke; Mandy Bish; Ivair Valmorbida

8:36 AM - 8:48 AM Pacific: Establishing an insecticide susceptibility baseline for rice stink bugs in Florida. Presenting Author: Carolina Tieppo Camarozano (she/her/hers)- University of Florida. Julien Beuzelin- University of Florida. Norman Leppla, BCE- University of Florida - Carolina Tieppo Camarozano (she/her/hers); Julien Beuzelin; Norman Leppla, BCE
8:48 AM - 9:00 AM Pacific: Evaluating botanical insecticides for control of Megalurothrips usitatus. Presenting Author: Mariana Monteiro de Souza Barros (she/her/hers)- University of Florida. Lukasz Stelinski- University of Florida. Hugh Smith- University of Florida - Mariana Monteiro de Souza Barros (she/her/hers); Lukasz Stelinski; Hugh Smith
9:00 AM - 9:12 AM Pacific: Evaluating seed treatments for economic return in Alabama soybeans. Presenting Author: Megan Woodall- Auburn University. Scott Graham- Auburn University - Megan Woodall; Scott Graham
9:12 AM - 9:24 AM Pacific: Evaluating the impact of selective insecticides on pest and beneficial insect populations in Mississippi soybean production. Presenting Author: Alejandra Velez- Mississippi State University. Fred R. Musser (he/him/his)- Mississippi State University. Natraj Krishnan- Mississippi State University - Alejandra Velez; Fred R. Musser (he/him/his); Natraj Krishnan
9:24 AM - 9:36 AM Pacific: Field-simulated rainfall impacts the efficacy of foliar insecticides against thrips in cotton. Presenting Author: Laissa Cavallini (she/her/hers)- North Carolina State University. Dominic Reisig- North Carolina State University. Anders Huseth- North Carolina State University - Laissa Cavallini (she/her/hers); Dominic Reisig; Anders Huseth
9:36 AM - 9:48 AM Pacific: Investigation of Plinazolin timing in southeastern cotton for stink bug control. Presenting Author: Sawyer Hopkins- Auburn University. Scott Graham- Auburn University. Phillip Roberts- University of Georgia. Jeremy Greene- Clemson University - Sawyer Hopkins; Scott Graham; Phillip Roberts; Jeremy Greene
9:48 AM - 10:00 AM Pacific: Resurgence of an old threat: Evolution of Diatraea grandiosella (Lepidoptera: Crambidae) resistance to Bacillus thuringiensis (Bacillales: Bacillaceae) proteins in New Mexico. Presenting Author: Fabio Miguel Fuhr (he/him/his)- Texas A&M University. Haley Kennedy- Texas A&M University. Jose Santiago-Gonzalez- Texas A&M Agrilife. Patrick Porter- Texas AgriLife Extension. Wenwei Xu- Texas A&M University. Dawson Kerns- Louisiana State University. Juan Luis Jurat-Fuentes- University of Tennessee. David Kerns- Texas A&M University - Fabio Miguel Fuhr (he/him/his); Haley Kennedy; Jose Santiago-Gonzalez; Patrick Porter; Wenwei Xu; Dawson Kerns; Juan Luis Jurat-Fuentes; David Kerns

Title: Grad 10-min Competition: SysEB, Hymenoptera

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: A matter of distance: Native bee lineages and diversity in fragmented landscapes. Presenting Author: Jessica Mullins- University of California. Silas Bossert (he/him/his)- Washington State University. Keng-Lou James Hung (he/him/his)- The University of Oklahoma. David Holway- University of California - Jessica Mullins; Silas Bossert (he/him/his); Keng-Lou James Hung (he/him/his); David Holway
8:12 AM - 8:24 AM Pacific: Brood parasitism reduces but does not prevent Bombus terrestris reproductive success. Presenting Author: Sofia K.P. Dartnell- University of Cambridge. Lynn V. Dicks, FRES- University of Cambridge - Sofia K.P. Dartnell; Lynn V. Dicks, FRES
8:24 AM - 8:36 AM Pacific: Environmental correlates of diversification within the bee genus Melissodes. Presenting Author: Christopher G. Wilson- University of Arkansas. Jeremy Beaulieu- University of Arkansas. Eric Hagen- University of Toronto - Christopher G. Wilson; Jeremy Beaulieu; Eric Hagen
8:36 AM - 8:48 AM Pacific: Features of agricultural landscapes that influence taxonomic and functional diversity of wild bees. Presenting Author: Anna Carson Loudermelt- California Polytechnic State University. Hamutahl Cohen- University of California. Elizabeth Scordato- California State Polytechnic University, Pomona. Adam Lambert- University of California, Santa Barbara - Anna Carson Loudermelt; Hamutahl Cohen; Elizabeth Scordato; Adam Lambert
8:48 AM - 9:00 AM Pacific: Host-symbiont interactions across a sociality continuum in halictid bees. Presenting Author: Charlotte Knopp- Princeton University. Maya Cabrera- Princeton University. Callum Kingwell- Princeton University. Eli Wyman- Princeton University. Andrea Graham- Princeton University. Sarah Kocher- Princeton

University. William Wcislo- Smithsonian Tropical Research Institute - Charlotte Knopp; Maya Cabrera; Callum Kingwell; Eli Wyman; Andrea Graham; Sarah Kocher; William Wcislo
9:00 AM - 9:12 AM Pacific: Integrating behavioral observations with stable isotopic data to clarify ant trophic ecology. Presenting Author: Eleanor M. Fausett- University of California. David Holway- University of California - Eleanor M. Fausett; David Holway
9:12 AM - 9:24 AM Pacific: Narrow niches, narrow ranges: Linking floral specialization to geographic vulnerability in bees. Presenting Author: Charles Thrift (he/him/his)- University of California. Thomas Wood- Naturalis Biodiversity Center. Katja Seltmann- University of California - Charles Thrift (he/him/his); Thomas Wood; Katja Seltmann
9:24 AM - 9:36 AM Pacific: The influence of age on antennal sensitivity and perfume making in male orchid bees. Presenting Author: Janosch Dohrs- Ruhr University Bochum. Lars Wller- Ruhr University Bochum. Thomas Eltz- Ruhr University Bochum - Janosch Dohrs; Lars Wller; Thomas Eltz
9:36 AM - 9:48 AM Pacific: The queen's gambit: Future queens in Polistes utilize an alternative to the starvation response pathway to induce reproductive diapause. Presenting Author: Laura Elizabeth Miller (she/her/hers)- Drexel University. Sean O'Donnell- Drexel University. Kari Lenhart- Drexel University, Biology Department - Laura Elizabeth Miller (she/her/hers); Sean O'Donnell; Kari Lenhart
9:48 AM - 10:00 AM Pacific: To what degree does elk abundance alter the ground-nesting bee community of sagebrush steppe ecosystems?. Presenting Author: Walker Bensch- University of Wyoming. Lusha Tronstad, PhDUniversity of Wyoming - Walker Bensch; Lusha Tronstad, PhD

Title: Grad 10-min Competition: SysEB, Sampling and Models

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, B115, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: Gall inducers, inquilines, and agasto parasites, oh my! Illuminating the evolution of Diastrophini (Cynipidae) through UCE phylogenomics. Presenting Author: Charles Kelley Davis- Pennsylvania State University. Louis Nastasi- Penn State University. Yuanmeng Zhang- USDA-ARS: USDA Pacific Basin Agricultural Research Center. Stephanie Eskew (she/her/hers)- Colorado State University. Andrew Deans- Pennsylvania State University. John Tooker- Pennsylvania State University. Heather Hines- Pennsylvania State University - Charles Kelley Davis; Louis Nastasi; Yuanmeng Zhang; Stephanie Eskew (she/her/hers); Andrew Deans; John Tooker; Heather Hines
8:12 AM - 8:24 AM Pacific: Leafhopper population dynamics in Canadian prairies: Towards AI-based forecasting tools. Presenting Author: Brianne M A Symak (she/her/hers)- University of Saskatchewan. Sean Prager- University of Saskatchewan - Brianne M A Symak (she/her/hers); Sean Prager
8:24 AM - 8:36 AM Pacific: Longitudinal and spatial population dynamics of the small hive beetle (Aethina tumida) in Mississippi. Presenting Author: Julie Marie Hardy- Mississippi State University. Omar Martinez- Texas A&M University. Donald Cook- Mississippi State University. Natraj Krishnan- Mississippi State University. Jian Chen- Biological Control of Pests Research Unit, USDA-ARS, Stoneville, MS. Arathi Seshadri- USDA. Narayanan Kannan- Pollinator Health in Southern Crop Ecosystems Research Unit, USDA - ARS. Esmaeil Amiri- Mississippi State University - Julie Marie Hardy; Omar Martinez; Donald Cook; Natraj Krishnan; Jian Chen; Arathi Seshadri; Narayanan Kannan; Esmaeil Amiri
8:36 AM - 8:48 AM Pacific: Modeling ecological niches in disjunct populations of an at-risk butterfly under global change. Presenting Author: Rachel L. Walsh, M.S. (she/her/hers)- Florida Museum of Natural History. Robert P. Guralnick, Ph.D.- Florida Museum of Natural History. Jaret C. Daniels, Ph.D.- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Rachel L. Walsh, M.S. (she/her/hers); Robert P. Guralnick, Ph.D.; Jaret C. Daniels, Ph.D.; Akito Y. Kawahara, Ph.D.
8:48 AM - 9:00 AM Pacific: Nectar metabolomes contribute to pollination syndromes. Presenting Author: Fiona MacNeill- University of Texas. Brian Sedio, PhD- University of Texas at Austin. Sarah Hunter, PhD- University of Texas at Austin. Felicity Muth- University of Nevada, Reno - Fiona MacNeill; Brian Sedio, PhD; Sarah Hunter, PhD; Felicity Muth
9:00 AM - 9:12 AM Pacific: Optimizing airborne environmental DNA storage for monitoring terrestrial insects. Presenting Author: Caine G. DeWitt- Virginia Polytechnic Institute and State University. Nicolas Gustafson- Virginia Polytechnic Institute and State University. Margaret Couvillon- Associate Professor of Entomology,

Virginia Tech. Shallon Jozi- Virginia Tech. Gabriel Isaacman-VanWertz- Virginia Tech. Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University. Roger Schurch- Virginia Tech - Caine G. DeWitt; Nicolas Gustafson; Margaret Couvillon; Shallon Jozi; Gabriel Isaacman-VanWertz; Chin-Cheng Scotty Yang; Roger Schurch
9:12 AM - 9:24 AM Pacific: Using species distribution modelling to illuminate niche variation in lesser known crane fly genera of the Nearctic. Presenting Author: Sarah Marie Akulin- North Carolina State University. Gareth Powell- North Carolina State University. Brian Wiegmann- North Carolina State University - Sarah Marie Akulin; Gareth Powell; Brian Wiegmann

Title: Grad 10-min Competition: P-IE, Climate Change

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 254, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
8:00 AM - 8:12 AM Pacific: 500 years of hemlock defoliator outbreaks in the Tongass National Forest. Presenting Author: Marlee Theil- University of Washington. Elizabeth Graham- USDA Forest Service, Forest Health Protection. Michael Howe- Utah State University. Kellen Nelson- USDA Forest Service, Pacific Northwest Research Station. Patrick Tobin- University of Washington - Marlee Theil; Elizabeth Graham; Michael Howe; Kellen Nelson; Patrick Tobin
8:12 AM - 8:24 AM Pacific: Better together? Diverse microbial communities promote stable soybean resistance to simultaneous drought and herbivore stress. Presenting Author: Brendan Randall (he/him/his)- University of Maryland. Kimberly Komatsu (she/her/hers)- University of North Carolina, Greensboro. John Parker- Smithsonian Environmental Research Center. Kelsey McGurrin- University of Maryland. Nicole Rieger-Erwin- University of Maryland. Karin Burghardt- University of Maryland - Brendan Randall (he/him/his); Kimberly Komatsu (she/her/hers); John Parker; Kelsey McGurrin; Nicole Rieger-Erwin; Karin Burghardt
8:24 AM - 8:36 AM Pacific: Climate manipulation alters the role of pollinators in floral microbiome assembly of two subalpine wildflowers. Presenting Author: Emily Burgess- Utah State University. Moria Robinson- Utah State University. Robert Schaeffer- Utah State University - Emily Burgess; Moria Robinson; Robert Schaeffer
8:36 AM - 8:48 AM Pacific: Influence of drought-induced changes in host tree quality on spotted lanternfly performance. Presenting Author: Elisabeth Joll- Purdue University. Matthew Ginzel- Purdue University. John Couture- Purdue University - Elisabeth Joll; Matthew Ginzel; John Couture
8:48 AM - 9:00 AM Pacific: Inheriting parental stress: Insect herbivory and drought effects transcend generations in soybeans. Presenting Author: Manish Gautam- University of Arkansas. Rupesh Kariyat- University of Arkansas - Manish Gautam; Rupesh Kariyat
9:00 AM - 9:12 AM Pacific: Investigating interactions between invasive host plant use, heat waves, and drought on dormant larvae of a declining butterfly, the Baltimore checkerspot (Euphydryas phaeton). Presenting Author: Anngely Leeds- Georgetown University - Anngely Leeds
9:12 AM - 9:24 AM Pacific: The impact of climate change on insect-mediated nutrient cycling in the Arctic tundra. Presenting Author: Isobel Mifsud- Columbia University. Duncan Menge- Columbia University - Isobel Mifsud; Duncan Menge
9:24 AM - 9:36 AM Pacific: Thermal performance drifts between the egg-parasitoid Telenomus remus and the fall armyworm may threaten the efficacy of biological control under climate change. Presenting Author: Macdonald Mubayiwa- Botswana International University of Science and Technology. Honest Machekano- University of Pretoria. Mvumi Brighton- University of Zimbabwe. Winnifred Opio Aool (she/her/hers)- University of California. Bame Segaiso- Botswana University of Agriculture and Natural Sciences. Frank Chidawanyika- ICIPE and the University of Witwatersrand South Africa - Macdonald Mubayiwa; Honest Machekano; Mvumi Brighton; Winnifred Opio Aool (she/her/hers); Bame Segaiso; Frank Chidawanyika
9:36 AM - 9:48 AM Pacific: Using a diagnostic molecular approach to uncover altered oak gall wasp-parasitoid interactions under range expansion. Presenting Author: Aly K. Milks- Binghamton University. Kathy Fridrich- Binghamton University, SUNY. Thomas H.Q. Powell- Binghamton University. Kirsten M. Prior- Binghamton University - Aly K. Milks; Kathy Fridrich; Thomas H.Q. Powell; Kirsten M. Prior

Title: Speaker Practice Room

Time: **8:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, A107, OCC

Organizers:
Categories: General; Speaker Practice Room
Abstract: Looking to practice your presentation in a quiet session room? Visit the Speaker Practice Room Saturday through Tuesday to rehearse at a podium. Sign-up online for your preferred practice time. Sign-ups are available on a first-come, first-served basis.
Tracks: General; Speaker Practice Room

Title: Diversity, Equity, and Inclusion Committee Meeting
Time: **9:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Stacie East, Esq., CAE- Entomological Society of America; Meaghan-Li Mcardle- Entomological Society of America
Categories: Meetings & Events; Committee Meeting; Diversity, Equity, and Inclusion
Tracks: Meetings & Events; Committee Meeting; Diversity, Equity, and Inclusion

Title: Antlion Pit Demonstration Day
Time: **9:00 AM - 11:30 AM** Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers: Marianne Alleyne- University of Illinois
Categories: Meetings & Events; Exhibit Hall
Abstract: Antlion Pit is designed to empower ESA members to develop and present their innovative ideas for entomology-related products and services. The competition encourages the development of the entrepreneurial spirit through idea leadership, innovation, teamwork, and mentorship. The venture idea may focus on a technology, product, process, service, or social venture. Teams will be available in the Exhibit Hall for a two-hour informal interactive event where they will present their ideas and prototypes to judges and interested meeting registrants. View the list of products in this year's competition.
Tracks: Meetings & Events; Exhibit Hall

Title: Exhibit Hall
Time: **9:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers:
Categories: General; Exhibit Hall
Abstract: The Exhibit Hall will feature exhibitors, poster display presentations, student club tables, and Artisan Row. Our exhibitors have the latest entomological equipment, supplies, gifts, and reference materials. Be sure to check out The Hive -- an interactive networking space in the Exhibit Hall where attendees can connect, collaborate, and spark new ideas. Join us for conversation starters and creative exchanges! Don't miss the Exhibitor Demonstration Stage, where industry leaders will showcase the latest technologies and innovations shaping the future. Check the program to see when your favorite exhibitor will be. Presenting. Daily Exhibit Hall Hours: Sunday, November 9: **7:30**-**9:30** p.m. Monday, November 10: 9 a.m. - 5 p.m. Tuesday, November 11: 9 a.m. - 5 p.m. Wednesday, November 12: 9 a.m. - 12 p.m.
Tracks: General; Exhibit Hall

Title: Grad Poster Competition: FIT, General
Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Formal and Informal Teaching; Student Competition; Student
Tracks: Student Poster Display Competition; Formal and Informal Teaching; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: A demonstration of waste upcycling using black soldier fly larvae. Presenting Author: Destiny Nicole Mann (she/her/hers)- University of Delaware. Michael Crossley (he/him/his)- University of Delaware - Destiny Nicole Mann (she/her/hers); Michael Crossley (he/him/his)
9:00 AM - 5:00 PM Pacific: Critter knitting: An offline approach to science communication. Presenting Author: Meredith June Willmott (she/her/hers)- University of Arizona - Meredith June Willmott (she/her/hers)
9:00 AM - 5:00 PM Pacific: Developing the digital decision support platform for managing red sunflower seed weevil in sunflower production system. Presenting Author: Dristy Bajimaya- South Dakota State University. Bikesh

Bade- ESRI. Govinda Shrestha, PhD- South Dakota State University - Dristy Bajimaya; Bikesh Bade; Govinda Shrestha, PhD
9:00 AM - 5:00 PM Pacific: Golden years, golden discoveries: Pollinator outreach at senior centers. Presenting Author: Sabrina White- University of Wyoming. Karagh Brummond- University of Wyoming. Erin Klauk- University of Wyoming. Michael Dillon- University of Wyoming - Sabrina White; Karagh Brummond; Erin Klauk; Michael Dillon
9:00 AM - 5:00 PM Pacific: Life, death, and a little paint! Introducing insect life cycles, behavior, and ecological roles through maggot art. Presenting Author: Hannah Chu (she/her/hers)- University of California - Hannah Chu (she/her/hers)
9:00 AM - 5:00 PM Pacific: Outcomes of a new entomology summer youth enrichment program in a university setting. Presenting Author: Shelby Kilpatrick- Texas A&M University. Jay Woodward- Texas A&M University. Adrienne L. Brundage (she/her/hers)- Texas A&M University - Shelby Kilpatrick; Jay Woodward; Adrienne L. Brundage (she/her/hers)
9:00 AM - 5:00 PM Pacific: Rolling out the facts: Ranchers' perception of dung beetles and their dirty work. Presenting Author: Rodrigo Martins Soares- Oklahoma State University. Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University. Jonathan Cammack- Oklahoma State University. Michael Cavallaro- Oklahoma State University - Rodrigo Martins Soares; Wyatt Wyatt Hoback (he/him/his); Jonathan Cammack; Michael Cavallaro
9:00 AM - 5:00 PM Pacific: Science for everyone: Making bioinspired design more accessible. Presenting Author: Elizabeth Bello- University of Illinois. Marianne Alleyne- University of Illinois Urbana-Champaign - Elizabeth Bello; Marianne Alleyne
9:00 AM - 5:00 PM Pacific: Targeting the "pupal" stage! Entomology camp curriculum for high school students. Presenting Author: Ashley Y. Bui- University of California - Ashley Y. Bui
9:00 AM - 5:00 PM Pacific: Understanding beekeeper decision making in the management ofVarroa destructor. Presenting Author: Marie Taylor Yanchak- University of Florida. Cameron Jack- University of Florida - Marie Taylor Yanchak; Cameron Jack

Title: Grad Poster Competition: MUVE, General

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student Poster Display Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: A risk assessment of alpha-gal syndrome in Louisiana. Presenting Author: Madeline Phillips- Louisiana State University. Kristen Healy- Louisiana State University. Giselle Cole- Louisiana State University - Madeline Phillips; Kristen Healy; Giselle Cole
9:00 AM - 5:00 PM Pacific: Application of novel Bayesian approach for species differentiation and assessment of sexual dimorphism in Culicoides (Diptera: Ceratopogonidae). Presenting Author: Nabanita Banerjee, II- University of Burdwan. Abhijit Mazumdar- The University of Burdwan - Nabanita Banerjee, II; Abhijit Mazumdar
9:00 AM - 5:00 PM Pacific: Do female and male cat fleas (Ctenocephalides felis) differ in the relative strength of their immune responses to bacterial infection?. Presenting Author: Ashley Lynch- Georgia Southern University. Lisa D. Brown- Georgia Southern University - Ashley Lynch; Lisa D. Brown
9:00 AM - 5:00 PM Pacific: Optimization of feed combinations for the growth of axenic Ae. Aegypti mosquitoes. Presenting Author: Esinam Abla Akorli- Texas Tech University. Mark Lavin- Texas Tech University. Joseph Sinski- Texas Tech University. Corey Brelsfoard- Texas Tech University. Joseph McMillan- Texas Tech University - Esinam Abla Akorli; Mark Lavin; Joseph Sinski; Corey Brelsfoard; Joseph McMillan
9:00 AM - 5:00 PM Pacific: Predictive classification of peridomiciles to identify high-risk areas for Triatoma dimidiata colonization using machine learning. Presenting Author: Daniel Eduardo Chan-Espinoza- Universidad Autnoma de Yucatn. Hugo Ruiz-Pina- Centro de Investigaciones Regionales "Dr. Hideyo Noguchi", Universidad Autnoma de Yucatn. Elsy Canche-Pool- Centro de Investigaciones Regionales "Dr. Hideyo Noguchi", Universidad Autnoma de Yucatn. Enrique Reyes-Novelo- Centro de Investigaciones Regionales "Dr. Hideyo Noguchi", Universidad Autnoma de Yucatn - Daniel Eduardo Chan-Espinoza; Hugo Ruiz-Pina; Elsy Canche-Pool; Enrique Reyes-Novelo
9:00 AM - 5:00 PM Pacific: Red imported fire ant (Solenopsis invicta) foraging belowground and efficacy of varying trap parameters. Presenting Author: Tammy Lee Bouldin (she/her/hers)- Texas A&M University. Nadya Kandel- Texas A&M University. Aaron Tarone- Texas A&M. Micky Eubanks- Colorado State University. Robert

Puckett- Texas A&M University. Edward Vargo- Texas A&M University - Tammy Lee Bouldin (she/her/hers); Nadya Kandel; Aaron Tarone; Micky Eubanks; Robert Puckett; Edward Vargo
9:00 AM - 5:00 PM Pacific: SkitoSnack 2.0 - a bloodmeal alternative for Anopheles and Aedes mosquitoes. Presenting Author: Anjali Karki- New Mexico State University. Hailey Luker- New Mexico State University. Naga N.R. potlapalli, n/a- New Mexico State University. F.Omar A. Holguin- New Mexico State University-Main Campus. Meenakshi Berwal- Texas A&M University. Patricia V. Pietrantonio- Texas A & M university. Immo Alex Hansen, PhD- New Mexico State University - Anjali Karki; Hailey Luker; Naga N.R. potlapalli, n/a; F.Omar A. Holguin; Meenakshi Berwal; Patricia V. Pietrantonio; Immo Alex Hansen, PhD
9:00 AM - 5:00 PM Pacific: The development of a lethal harborage: A low-impact management tool for German cockroach (Blattodea: Ectobiidae). Presenting Author: Rattanan Chungsawat (he/him/his)- University of California. Dong-Hwan Choe, BCE- University of California. Michael Rust- University of California. Chow-Yang Lee, BCE (he/him/his)- University of California - Rattanan Chungsawat (he/him/his); Dong-Hwan Choe, BCE; Michael Rust; Chow-Yang Lee, BCE (he/him/his)
9:00 AM - 5:00 PM Pacific: Tick surveillance and pathogen testing in 41 rural counties in Kentucky. Presenting Author: Jun Seok Ryoo- University of Kentucky. S. Reddy Palli (he/him/his)- University of Kentucky - Jun Seok Ryoo; S. Reddy Palli (he/him/his)
9:00 AM - 5:00 PM Pacific: To drink or not to drink before getting blasted with 50 grays - effects of hormetic ethanol treatment in X-ray irradiated Aedes aegypti. Presenting Author: Gabriel Borg- New Mexico State University. Immo Alex Hansen, PhD- New Mexico State University - Gabriel Borg; Immo Alex Hansen, PhD
9:00 AM - 5:00 PM Pacific: Transgenerational decline in Wolbachia density inCulex pipiensafter thermal stress. Presenting Author: Jovany Barajas, Sr.- University of California. Andrea Joyce- University of California - Jovany Barajas, Sr.; Andrea Joyce

Title: Grad Poster Competition: PBT, Behavior, Molecular and Cellular

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Comprehensive annotation and phylogenetic analysis of chemosensory genes in Plodia interpunctella (Lepidoptera: Pyralidae). Presenting Author: Jacqueline Maille- Kansas State University. Robert Mitchell- Pennsylvania State University. Kun Yan Zhu- Kansas State University. William Morrison- USDA-ARS. Erin Scully- USDA-ARS - Jacqueline Maille; Robert Mitchell; Kun Yan Zhu; William Morrison; Erin Scully
9:00 AM - 5:00 PM Pacific: Disrupting halotyrosine metabolism: Investigating the function of iodotyrosine deiodinase in Anopheles gambiae. Presenting Author: Stella Matutina Ikuzwe- Johns Hopkins University. Josh I. Raji- Johns Hopkins University. Christopher Potter (he/him/his)- Johns Hopkins University School of Medicine. Steven E. Rokita- Johns Hopkins University - Stella Matutina Ikuzwe; Josh I. Raji; Christopher Potter (he/him/his); Steven E. Rokita
9:00 AM - 5:00 PM Pacific: Multi-functional roles of an antenna-specific odorant binding protein in Leptinotarsa decemlineata. Presenting Author: James A. Abendroth- Pennsylvania State University. Casey Cruse- USDA-ARS. Mike Wolfin (he/him/his)- Penn State University. Timothy Moural- Pennsylvania State University. Fang Zhu- Pennsylvania State University. Joe Casadei- Penn State University - James A. Abendroth; Casey Cruse; Mike Wolfin (he/him/his); Timothy Moural; Fang Zhu; Joe Casadei
9:00 AM - 5:00 PM Pacific: Paperclip RNA induces lethal gene silencing in fall armyworm (Spodoptera frugiperda). Presenting Author: Stefanie Menezes de Moura- University of Tennessee. Nazanin Amanat- University of Manitoba. Ibrahim A. El-Shesheny- University of Tennessee, USA & Tanta University, Egypt. Leonardo Lima Pepino Macedo- Embrapa Genetic Resources and Biotechnology. Maria fatima Grossi-de-Sa- Embrapa Genetic Resources and Biotechnology. Steve Whyard- University of Manitoba. Juan Luis Jurat-Fuentes- University of Tennessee - Stefanie Menezes de Moura; Nazanin Amanat; Ibrahim A. El-Shesheny; Leonardo Lima Pepino Macedo; Maria fatima Grossi-de-Sa; Steve Whyard; Juan Luis Jurat-Fuentes
9:00 AM - 5:00 PM Pacific: Peptide-mediated enhancement of bacterial pesticidal protein toxicity against Diaphorina citri. Presenting Author: Morgana De Souza Miranda- University of Florida. Clebson Dos Santos Tavares (he/him/his)- University of Florida. Ruchir Mishra- University of Florida. Bryony Bonning (she/her/hers)- University of Florida - Morgana De Souza Miranda; Clebson Dos Santos Tavares (he/him/his); Ruchir Mishra; Bryony Bonning (she/her/hers)

9:00 AM - 5:00 PM Pacific: Plants strike back: HIGS in the battle against RNA-resistant Colorado potato beetle (Leptinotarsa decemlineata Say). Presenting Author: Marissa Ilene Nufer- University of Tennessee. Juan Luis Jurat-Fuentes- University of Tennessee. Scott Lenaghan- University of Tennessee Knoxville, Department of Food Sciences. Andrew Reed- University of Tennessee Knoxville, Department of Food Sciences. Alessandro Occhialini- University of Tennessee Knoxville, Department of Plant Sciences - Marissa Ilene Nufer; Juan Luis Jurat-Fuentes; Scott Lenaghan; Andrew Reed; Alessandro Occhialini
9:00 AM - 5:00 PM Pacific: Social insects under environmental stress: Consequences for behavior and fitness. Presenting Author: Antonia Smolic- Ruder Boskovic Institute. Laurent Boualit- Agroscope. Antica Culina- Ruder Boskovic Institute. Anita Tarandek- Ruder Boskovic Institute. Jelena Bujan- Ruder Boskovic Institute - Antonia Smolic; Laurent Boualit; Antica Culina; Anita Tarandek; Jelena Bujan
9:00 AM - 5:00 PM Pacific: Unraveling the synergistic effects of phospholipase A2 on Drosophila melanogaster immune response under entomopathogenic bacterial infection. Presenting Author: Sanchita Das- University of Missouri. Joseph Ringbauer- USDA-ARS. David Stanley- USDA-ARS. David kang- USDA ARS Biological Control of Insects Research Lab - Sanchita Das; Joseph Ringbauer; David Stanley; David kang

Title: Grad Poster Competition: PBT, Evolution, Genetics, and Physiology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: F screening for Cry1A.105 resistance in European corn borer (Ostrinia nubilalis) field populations from Ohio. Presenting Author: Yamikani Maya Ng'ona- The Ohio State University. Andy Michel- Ohio State University - Yamikani Maya Ng'ona; Andy Michel
9:00 AM - 5:00 PM Pacific: Identification of novel antifeedant aphicides through in silico screening of inward rectifier potassium channel inhibitors. Presenting Author: Alexandra Cremades- University of Florida. Flinn O'Hara- University of Florida. Daniel Swale- University of Florida - Alexandra Cremades; Flinn O'Hara; Daniel Swale
9:00 AM - 5:00 PM Pacific: Insecticide efficacy and residuality on alfalfa plants and fall armyworm larval stage. Presenting Author: Danna Judith Vera- The Ohio State University. Andy Michel- Ohio State University - Danna Judith Vera; Andy Michel
9:00 AM - 5:00 PM Pacific: Not all that glitters is gold: SEM insights into the scabrous mutant ofTribolium. Presenting Author: Morgan Leigh Olmstead (she/her/hers)- North Carolina State University. Marc Lorenzen- North Carolina State University - Morgan Leigh Olmstead (she/her/hers); Marc Lorenzen
9:00 AM - 5:00 PM Pacific: Physiological and environmental determinants of discontinuous gas exchange in the Turkestan cockroach (Blatta lateralis). Presenting Author: Ashmita Sapkota- Auburn University - Ashmita Sapkota
9:00 AM - 5:00 PM Pacific: Surviving the long winter sleep in a changing world: Linking temperature and metabolic rate in larvae of the endangered Hine's emerald dragonfly (Somatochlora hineana). Presenting Author: Devin M. McGinley- University of South Dakota. Omera B. Matoo, PhD- University of South Dakota. David L. Swanson, PhD- University of South Dakota. Daniel A. Soluk, PhD- University of South Dakota - Devin M. McGinley; Omera B. Matoo, PhD; David L. Swanson, PhD; Daniel A. Soluk, PhD
9:00 AM - 5:00 PM Pacific: Tick bite-induced alpha-gal syndrome development in aged alpha-gal deficient murine model. Presenting Author: Olaoluwa Oyediran- University of Southern Mississippi. Shailesh Choudhary- The University of North Carolina at Chapel Hill, Chapel Hill, United States.. Scott P. Commins- The University of North Carolina at Chapel Hill, Chapel Hill, United States.. shahid Karim- The University of Southern Mississippi - Olaoluwa Oyediran; Shailesh Choudhary; Scott P. Commins; shahid Karim
9:00 AM - 5:00 PM Pacific: Variation in the cold physiology of Tetanops myopaeformis between fields in North Dakota. Presenting Author: Madison A. Floden (she/her/hers)- North Dakota State University. Isaac Mills- North Dakota State University. Aaron Watland- North Dakota State University. Arun Rajamohan- USDA-ARS. Alex S. Torson (he/him/his)- North Dakota State University. Kendra J. Greenlee (she/her/hers)- North Dakota State University - Madison A. Floden (she/her/hers); Isaac Mills; Aaron Watland; Arun Rajamohan; Alex S. Torson (he/him/his); Kendra J. Greenlee (she/her/hers)

Title: Grad Poster Competition: PBT, Honey Bees and Pollinators

Time: **9:00 AM - 5:00** PM Pacific

Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Characterizing the effects of trypsin on fresh and previously frozen butterfly sperm cell motility. Presenting Author: Korie Michelle DeBardlabon- North Dakota State University. Caedmon Benson- North Dakota State University. Parker Ehrman- North Dakota State University. Arun Rajamohan- USDA-ARS. Joseph Rinehart- USDA-ARS. Kendra J. Greenlee (she/her/hers)- North Dakota State University - Korie Michelle DeBardlabon; Caedmon Benson; Parker Ehrman; Arun Rajamohan; Joseph Rinehart; Kendra J. Greenlee (she/her/hers)
9:00 AM - 5:00 PM Pacific: Comparison of miticide toxicity between nurse bees and forager bees inApis mellifera. Presenting Author: HeeJin Kim (she/her/hers)- Kyungpook National University. Hyemin Kim- Kyungpook National University. Young Ho Kim- Kyungpook National University - HeeJin Kim (she/her/hers); Hyemin Kim; Young Ho Kim
9:00 AM - 5:00 PM Pacific: Effects of dietary exposure to pesticide-contaminated pollen on Apis mellifera queen performance. Presenting Author: Wen-Yen Wu (he/him/his)- University of Illinois. Ling-Hsiu Liao- University of Illinois Urbana-Champaign. May R. Berenbaum (she/her/hers)- University of Illinois Urbana-Champaign - Wen-Yen Wu (he/him/his); Ling-Hsiu Liao; May R. Berenbaum (she/her/hers)
9:00 AM - 5:00 PM Pacific: Impact of hive and cage environments on age-dependent innate immunity in honeybees (Apis mellifera). Presenting Author: Nazifa Tasnia- University of Southern Mississippi. Michael Edward Oeth- University of Southern Mississippi. Deepak Kumar- BEES, The University of Southern Mississippi. Fernanda Gonzalez- The University of Southern Mississippi. Mohamed Alburaki, USDA-ARS Research Entoologist- USDA-ARS. Michael Goblirsch, USDA-ARS Research Entoologist- USDA-ARS Poplarville. John adamczyk, USDA-ARS Research Entoologist- USDA-ARS Poplarville. shahid Karim- The University of Southern Mississippi - Nazifa Tasnia; Michael Edward Oeth; Deepak Kumar; Fernanda Gonzalez; Mohamed Alburaki, USDA-ARS Research Entoologist; Michael Goblirsch, USDA-ARS Research Entoologist; John adamczyk, USDA-ARS Research Entoologist; shahid Karim
9:00 AM - 5:00 PM Pacific: Monitoring of honey bee pathogens and evalutaion of potential miticide toxicity to Aethina tumida in South Korea. Presenting Author: Heejin Jung- Chungnam National University. Keon Mook Seong- Chungnam National University - Heejin Jung; Keon Mook Seong
9:00 AM - 5:00 PM Pacific: The effects of putrescine on diapause incidence in the alfalfa leafcutting bee, Megachile rotundata. Presenting Author: Ava G. DeMars- North Dakota State University. Kendra J. Greenlee (she/her/hers)- North Dakota State University. Joseph Rinehart- USDA-ARS - Ava G. DeMars; Kendra J. Greenlee (she/her/hers); Joseph Rinehart
9:00 AM - 5:00 PM Pacific: The impact of exposure to multiple pesticide residues in beeswax on adult honey bee longevity in vitro. Presenting Author: Louise Petit- University of Florida. Cameron Jack- University of Florida. James D. Ellis- University of Florida - Louise Petit; Cameron Jack; James D. Ellis
9:00 AM - 5:00 PM Pacific: Uncovering vitellogenin diversity across managed U.S. honey bee stocks. Presenting Author: Hasim Hakanoglu- Louisiana State University. Garett Slater- Texas A&M AgriLife Research & Extension Center. Qian Sun- Louisiana State University. Kate Ihle- USDA-ARS Honey Bee Breeding, Genetics and Physiology Lab. Arian Avalos- USDA-ARS - Hasim Hakanoglu; Garett Slater; Qian Sun; Kate Ihle; Arian Avalos

Title: Grad Poster Competition: P-IE, Behavior and Chemical Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Aristolochic acid sequestration in Battus philenor: The effects of geographic isolation, larval food source, and differing environmental pressures on population toxicity. Presenting Author: Clara Lucas- California State University - Clara Lucas
9:00 AM - 5:00 PM Pacific: Assessing damage by borer pests on the marketability of hemp in the Upper Midwest. Presenting Author: Sophie Perry (she/her/hers)- University of Wisconsin - Sophie Perry (she/her/hers)

9:00 AM - 5:00 PM Pacific: Effects of hazelnut cultivar and phenology on Halyomorpha halys, a key hemipteran pest. Presenting Author: Edwin T. Harris- Oregon State University. Serhan Mermer- Oregon State University. Vaughn M. Walton- Oregon State University - Edwin T. Harris; Serhan Mermer; Vaughn M. Walton
9:00 AM - 5:00 PM Pacific: Evaluating fruit protection and mortality outcomes of attract-and-kill disruptors for managing Drosophila suzukii (Diptera: Drosophilidae). Presenting Author: Chisom Irene Molokwu- Oregon State University. Kyoo Park- Oregon State University. Alexis Shobe- Oregon State University. Serhan Mermer- Oregon State University. Vaughn M. Walton- Oregon State University - Chisom Irene Molokwu; Kyoo Park; Alexis Shobe; Serhan Mermer; Vaughn M. Walton
9:00 AM - 5:00 PM Pacific: Nutrient inputs alter host-pathogen-herbivore interactions in cranberry. Presenting Author: Haotian Liu- Rutgers University. Cesar Rodriguez-Saona (he/him/his)- Rutgers University - Haotian Liu; Cesar Rodriguez-Saona (he/him/his)
9:00 AM - 5:00 PM Pacific: Population dynamics of larger grain borer, a biosecurity threat to stored products in the USA. Presenting Author: Joana Schroeder de Souza- Kansas State University. Alison Gerken- USDA-ARS. Thomas Phillips- Kansas State University. William Morrison- USDA-ARS - Joana Schroeder de Souza; Alison Gerken; Thomas Phillips; William Morrison
9:00 AM - 5:00 PM Pacific: Push-pull systems: An integrated approach to whitefly management using repellents, trap crops, and mulches. Presenting Author: Joseph Gonsiorek (they/them/theirs)- University of Florida. Xavier Martini- University of Florida. Rajagopalbabu Srinivasan (he/him/his)- University of Georgia. Oscar Liburd- University of Florida - Joseph Gonsiorek (they/them/theirs); Xavier Martini; Rajagopalbabu Srinivasan (he/him/his); Oscar Liburd
9:00 AM - 5:00 PM Pacific: Volatile-mediated interactions: Assessing the role of volatiles in sorghum and soybean intercropping for Japanese beetle management. Presenting Author: Nicole Kucherov- Kansas State University. Matthew Hetherington- Kansas State University. Alison Gerken- USDA-ARS. William Morrison- USDA-ARS. Tania Kim- Kansas State University - Nicole Kucherov; Matthew Hetherington; Alison Gerken; William Morrison; Tania Kim

Title: Grad Poster Competition: P-IE, Biocontrol - Pathogens

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Characterization and insecticidal potential of Metarhizium anisopliae isolates against Spodoptera litura(Fabricius) in laboratory and greenhouse trials. Presenting Author: Muhammad Riaz- National Pingtung University of Science and Technology. Wen Hua Chen- National Pingtung University of Science and Technology, Taiwan - Muhammad Riaz; Wen Hua Chen
9:00 AM - 5:00 PM Pacific: Comparative infectivity of entomopathogenic nematodes against key stored-product insect pests. Presenting Author: Emediong Enobong- Fort Valley State University. James Kofi Danso- Fort Valley State University. David Shapiro-Ilan (he/him/his)- USDA-ARS. George Mbata- Fort Valley State University - Emediong Enobong; James Kofi Danso; David Shapiro-Ilan (he/him/his); George Mbata
9:00 AM - 5:00 PM Pacific: Entomopathogenic fungi as endophytes: A dual strategy for growth promotion and defense against fall armyworm in maize. Presenting Author: Neetu Khanal- Pennsylvania State University. Flor Acevedo- The Pennsylvania State University - Neetu Khanal; Flor Acevedo
9:00 AM - 5:00 PM Pacific: Evaluating the persistence and effectiveness of entomopathogenic nematodes under laboratory conditions. Presenting Author: Md Mizanur Rahman- University of Nebraska-Lincoln. Ana Paula Lima (she/her/hers)- University of Nebraska-Lincoln. Abigail Lyons (she/her/hers)- University of Nebraska-Lincoln. Priscila Maria Colombo Da Luz- University of Nebraska-Lincoln. Thomas Powers- UNL. Julie Peterson- University of Nebraska-Lincoln - Md Mizanur Rahman; Ana Paula Lima (she/her/hers); Abigail Lyons (she/her/hers); Priscila Maria Colombo Da Luz; Thomas Powers; Julie Peterson
9:00 AM - 5:00 PM Pacific: Evaluation of the efficacy of an endophytic entomopathogenic fungus, Beauveria bassiana against a stem-boring pest of quinoa, Amauromyza karliHendel (Diptera: Agromyzidae). Presenting Author: Neha Panwar- Colorado State University. Adrianna Szczepaniec- Colorado State University. Jorge Ibarra Caballero- Colorado State University. Jane Stewart- Colorado State University - Neha Panwar; Adrianna Szczepaniec; Jorge Ibarra Caballero; Jane Stewart
9:00 AM - 5:00 PM Pacific: Signals across trophic levels: Can different species of entomopathogenic nematodes protect plants from aboveground insect herbivores?. Presenting Author: Adriane Fifield (she/her/hers)- Texas A&M University. Anjel M. Helms- Texas A&M University - Adriane Fifield (she/her/hers); Anjel M. Helms

9:00 AM - 5:00 PM Pacific: Soil type does not influence the efficacy of entomopathogenic nematodes against Asiatic garden beetle larvae in peppermint greenhouse trials. Presenting Author: Cristian Camilo Cabrera Castellanos- Purdue University. Elizabeth Y. Long- Purdue University. Douglas Richmond- Purdue University - Cristian Camilo Cabrera Castellanos; Elizabeth Y. Long; Douglas Richmond

Title: Grad Poster Competition: P-IE, Community Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Ant-seed interactions of viola in tallgrass prairies. Presenting Author: Nathan Donato- South Dakota State University. Abigail P. Martens (she/her/hers)- South Dakota State University. Lora Perkins- South Dakota State University - Nathan Donato; Abigail P. Martens (she/her/hers); Lora Perkins
9:00 AM - 5:00 PM Pacific: Body size and resource availability along an urbanization gradient in bumble bees. Presenting Author: Yadira Romero Diaz- University of California - Yadira Romero Diaz
9:00 AM - 5:00 PM Pacific: Effects of plant community composition on epigeal arthropods. Presenting Author: Keiran Roy Hyte- North Dakota State University. Deirdre Prischmann-Voldseth- North Dakota State University - Keiran Roy Hyte; Deirdre Prischmann-Voldseth
9:00 AM - 5:00 PM Pacific: Immunity in the field - how microclimate affects the immune response of Lepidopteran herbivores in the Sierra Nevada. Presenting Author: Victoria Peechatt- University of Nevada. Christian Joseph Connors- University of Nevada. Matthew Forister (he/him/his)- University of Nevada. Angela Smilanich- University of Nevada, Reno - Victoria Peechatt; Christian Joseph Connors; Matthew Forister (he/him/his); Angela Smilanich
9:00 AM - 5:00 PM Pacific: Insect communities living on coastal sage scrub mallows. Presenting Author: Molly Ann May Barber (she/her/hers)- University of California. Erin Wilson-Rankin- University of California, Riverside - Molly Ann May Barber (she/her/hers); Erin Wilson-Rankin
9:00 AM - 5:00 PM Pacific: Island biogeography in the city: How urban park characteristics shape Lepidoptera communities in metropolitan landscapes. Presenting Author: Yan Yin Jenny Cheung- Cornell University. Jens Ulrich- The University of British Columbia. Chris Cosma, Ph.D.- Conservation Biology Institute. Melissa Guzman, Ph.D.- Cornell University - Yan Yin Jenny Cheung; Jens Ulrich; Chris Cosma, Ph.D.; Melissa Guzman, Ph.D.
9:00 AM - 5:00 PM Pacific: Light and exhaust: Interactive effects of artificial light at night and vehicle pollution on insect richness and abundance. Presenting Author: Marielle S. Hansel Friedman (she/her/hers)- University of California. Emily K. Meineke- UC Davis, Department of Entomology and Nematology. Elizeth Cinto Mejia- UC Davis, Department of Entomology and Nematology - Marielle S. Hansel Friedman (she/her/hers); Emily K. Meineke; Elizeth Cinto Mejia
9:00 AM - 5:00 PM Pacific: Nectar on tap: Fermentation time and bumble bee preference. Presenting Author: Valerie Martin- Utah State University. Austen Grizzell- Bellarmine University. Daniel Souto-Vilaros- University of Utah. Robert Schaeffer- Utah State University. Rebecca E. Irwin- North Carolina State University - Valerie Martin; Austen Grizzell; Daniel Souto-Vilaros; Robert Schaeffer; Rebecca E. Irwin
9:00 AM - 5:00 PM Pacific: Tongue length predicts phenological patterns in coexisting Bombus species. Presenting Author: Haylie Ryan Wilcox- University of California. Sylvana Finn (she/her/hers)- University of California. Elizabeth Crone- University of California - Haylie Ryan Wilcox; Sylvana Finn (she/her/hers); Elizabeth Crone

Title: Grad Poster Competition: P-IE, Forestry and Agroecosystems

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Digital identification tool for ambrosia and bark beetles of agriculture and forestry importance in Florida. Presenting Author: Sandreika Osheika Laird (she/her/hers)- Florida Agricultural and Mechanical University. Ann Marie Shanae Robinson-Baker (she/her/hers)- Florida Agricultural and Mechanical University. Paul Skelley- Florida Department of Agriculture and Consumer Services. Muhammad Haseeb (he/him/his)- Florida Agricultural and Mechanical University - Sandreika Osheika Laird (she/her/hers); Ann Marie Shanae Robinson-Baker (she/her/hers); Paul Skelley; Muhammad Haseeb (he/him/his)

9:00 AM - 5:00 PM Pacific: Diversity and distribution of xylophagous beetles from Pinus thunbergii Parl. And Pinus massoniana Lamb. infected by pine wood nematode. Presenting Author: Xu Chu, PhD- Fujian Agriculture and Forestry University - Xu Chu, PhD
9:00 AM - 5:00 PM Pacific: Effects of climate-smart agriculture on pest and beneficial soil arthropod communities. Presenting Author: Rakshya Aryal- University of Idaho. Sanford Eigenbrode- University of Idaho. Kamal K. Khadka- University of Idaho. Subodh Adhikari- Utah State University - Rakshya Aryal; Sanford Eigenbrode; Kamal K. Khadka; Subodh Adhikari
9:00 AM - 5:00 PM Pacific: Effects of prescribed fire on mediating coexistence between grasshoppers. Presenting Author: Lucia Alejandra Navia Salvatierra- University of Florida. Phillip G. Hahn, Dr- University of Florida - Lucia Alejandra Navia Salvatierra; Phillip G. Hahn, Dr
9:00 AM - 5:00 PM Pacific: How does forest management impact Collembola abundance and leaf litter decomposition?. Presenting Author: Meghan Jerke- The Ohio State University. Kayla I. Perry- The Ohio State University - Meghan Jerke; Kayla I. Perry
9:00 AM - 5:00 PM Pacific: Impacts of urban tree mulching on soil springtail communities. Presenting Author: Brendan Thomas Cramphorn- Cornell University. Kyle Wickings- Cornell University. Aron Katz- US Army. Chris Riley- Bartlett Tree Research Laboratories - Brendan Thomas Cramphorn; Kyle Wickings; Aron Katz; Chris Riley
9:00 AM - 5:00 PM Pacific: Improved characterization of thelps paraconfusus Lanier (Coleoptera: Curculionidae) outbreak in Washington: Determining the role of drought and host resin defense. Presenting Author: Savannah Lee Swanson- Washington State University. Henry Adams- Washington State University. Todd Murray- Washington State University - Savannah Lee Swanson; Henry Adams; Todd Murray
9:00 AM - 5:00 PM Pacific: Infestation potential and abundance of invasive and native ambrosia beetles across apple orchards in Michigan. Presenting Author: Jenna Byrne- Michigan State University. Julianna Wilson- Michigan State University - Jenna Byrne; Julianna Wilson
9:00 AM - 5:00 PM Pacific: Michigan's Cerambycidae: Unraveling diversity, richness and species assemblages in the Mitten State. Presenting Author: Paige Payter (she/her/hers)- Michigan State University. Deborah McCullough- Michigan State University - Paige Payter (she/her/hers); Deborah McCullough
9:00 AM - 5:00 PM Pacific: Validating phenology models to optimize management of box tree moth in North America. Presenting Author: Emmanelle Cuasay- The Ohio State University. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University. Kayla I. Perry- The Ohio State University - Emmanelle Cuasay; Samuel F. Ward, M.S., Ph.D. (he/him/his); Kayla I. Perry

Title: Grad Poster Competition: P-IE, Genetics

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Aphids and sugarcane: Understanding infestation trends and species composition in Florida. Presenting Author: Juan Sebastian Angel-Salazar- University of Florida. De-Fen Mou (she/her/hers)- University of Florida. Hardev Sandhu- University of Florida. Julien Beuzelin- University of Florida - Juan Sebastian Angel-Salazar; De-Fen Mou (she/her/hers); Hardev Sandhu; Julien Beuzelin
9:00 AM - 5:00 PM Pacific: Bugs in the spuds: The temporal distribution of disease-vectoring aphids in Montana seed potato. Presenting Author: Natalie Brennan- Montana State University. Aritra Roy Choudhury- Montana State University. Jessica Kansman (she/her/hers)- Montana State University - Natalie Brennan; Aritra Roy Choudhury; Jessica Kansman (she/her/hers)
9:00 AM - 5:00 PM Pacific: Function of tryptophan 2,3-dioxygenase in Monochamus alternatus Hope revealed by RNA interference. Presenting Author: Liangjing Sheng, PhD- Fujian Agriculture and Forestry University - Liangjing Sheng, PhD
9:00 AM - 5:00 PM Pacific: Genetic diversity and insect virus prevalence of the corn leafhopper (Dalbulus maidis) across four states of the United States. Presenting Author: Hia Kalita- Iowa State University. Juliana Osse de Souza- Iowa State University. Carter Casey- Iowa State University. Adriana Larrea-Sarmiento- Iowa State University. Olufemi Alabi- Texas A&M University System. Maira Rodrigues Duffeck- Department of Entomology and Plant Pathology, Oklahoma State University. Ivair Valmorbida- University of Missouri. Alejandro Olmedo-Velarde- Iowa State University - Hia Kalita; Juliana Osse de Souza; Carter Casey; Adriana Larrea-Sarmiento; Olufemi Alabi; Maira Rodrigues Duffeck; Ivair Valmorbida; Alejandro Olmedo-Velarde
9:00 AM - 5:00 PM Pacific: Improving surveillance of resistance in grain: ARMS-qPCR for detection of phosphine resistance in the red flour beetle. Presenting Author: Jacqueline Duran- Kansas State University. Melanie Kessler-

Mathieu- USDA/ARS. Jennifer Abshire- USDA-ARS. Kun Yan Zhu- Kansas State University. Cetin Mutlu- University of Nebraska-Lincoln. Georgina Bingham- University of Nebraska-Lincoln. laura starkus- Arkansas State University. Tanja McKay- Arkansas State University. Erin Scully- USDA-ARS. William Morrison- USDA-ARS - Jacqueline Duran; Melanie Kessler-Mathieu; Jennifer Abshire; Kun Yan Zhu; Cetin Mutlu; Georgina Bingham; laura starkus; Tanja McKay; Erin Scully; William Morrison
9:00 AM - 5:00 PM Pacific: Integrated genomic and transcriptomic profiling provide insights into silicon-mediated resistance to the fall armyworm. Presenting Author: Jyoti Sharma (she/her/hers)- Louisiana State University. Chanderkant Chaudhary- LOUISIANA STATE UNIVERSITY. Rajat Pruthi- USDA-ARS Horticultural crops production and genetic improvement reserch unit. Thomas Tai- Department of Plant Sciences. Michael Stout- Louisiana State University - Jyoti Sharma (she/her/hers); Chanderkant Chaudhary; Rajat Pruthi; Thomas Tai; Michael Stout
9:00 AM - 5:00 PM Pacific: Laboratory selection of Bt-resistant fall armyworm (Spodoptera frugiperda): Investigating epigenetic mechanisms and their role in resistance development and management. Presenting Author: Tiago Silva- Louisiana State University. Shucong Lin- Louisiana State University. Bhavana Patla- Louisiana State University. Honglin Feng- Louisiana State University. Graham Head- Bayer Crop Science. Fangneng Huang- Louisiana State University - Tiago Silva; Shucong Lin; Bhavana Patla; Honglin Feng; Graham Head; Fangneng Huang
9:00 AM - 5:00 PM Pacific: Uncovering plant hosts from stink bug guts throughout the cotton growing season in the Brazos River bottom, Texas. Presenting Author: Kiley Stout- Texas A&M University. Lindsey Perkin- USDA-ARS SPARC ICCDRU. Jayda Arriaga- Texas A&M University. Charles Suh- USDA-ARS, ICCDRU - Kiley Stout; Lindsey Perkin; Jayda Arriaga; Charles Suh
9:00 AM - 5:00 PM Pacific: Understanding population dynamics of western flower thrips Frankliniella occidentalis in the Texas panhandle. Presenting Author: Johnathan David McDougal- AgriLife Entomology Research. Kristen Tatro- Texas A&M AgriLife Research. Bethany Martinek- Texas A&M AgriLife Research. Arinder Arora- Texas A&M University. Kevin Crosby- Texas A&M AgriLife Research. Nolan Anderson- Texas A&M AgriLife Research. Kiran Gadhave- Texas A&M University - Johnathan David McDougal; Kristen Tatro; Bethany Martinek; Arinder Arora; Kevin Crosby; Nolan Anderson; Kiran Gadhave
9:00 AM - 5:00 PM Pacific: Vector-driven transmission patterns of novel tomato spotted wilt virus strains by Frankliniella occidentalis. Presenting Author: Udvashika Puri- Texas A&M University. Senthilraja Chinnaiah- Middle Tennessee State University. Arinder Arora- Texas A&M University. Kiran Gadhave- Texas A&M University - Udvashika Puri; Senthilraja Chinnaiah; Arinder Arora; Kiran Gadhave

Title: Grad Poster Competition: P-IE, Honey Bee and Native Pollinator Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Assessing climate-driven shifts in floral resource availability for bees on barrier islands in the southeastern U.S.. Presenting Author: Hannah Brown- Georgia Southern University. Isaac Park- Georgia Southern University - Hannah Brown; Isaac Park
9:00 AM - 5:00 PM Pacific: Assessing pollinator health in urban and rural areas in Louisiana: Using honeybees as bioindicators. Presenting Author: Cynthia Chekwube Ogbu- Southern University and A&M College. Veronica Manrique (she/her/hers)- Southern University. Kate Ihle- USDA-ARS Honey Bee Breeding, Genetics and Physiology Lab - Cynthia Chekwube Ogbu; Veronica Manrique (she/her/hers); Kate Ihle
9:00 AM - 5:00 PM Pacific: Characterizing the pollinator community of the decimated Ozark chinquapin toward promoting its reproductive success. Presenting Author: Olivia Cole Burdine- University of Arkansas. Maggie Herrmann- University of Arkansas Department of Entomology. Natalie A. Clay- University of Arkansas - Olivia Cole Burdine; Maggie Herrmann; Natalie A. Clay
9:00 AM - 5:00 PM Pacific: Comparative foraging behaviors of honey bees and squash bees while visiting male and female zucchini flowers at a southern California suburban farm. Presenting Author: Sara Witt (she/her/hers)- California Polytechnic State University. Joan Leong- California Polytechnic University, Pomona - Sara Witt (she/her/hers); Joan Leong
9:00 AM - 5:00 PM Pacific: Evaluating taxonomic and morphological relationships between pollen and medicinal effects in bumble bees. Presenting Author: April E. Sharp (she/her/hers)- North Carolina State University. Emily Trentham- North Carolina State University. Michely Coimbra- North Carolina State University. Lynn Adler-

University of Massachusetts. Rebecca E. Irwin- North Carolina State University - April E. Sharp (she/her/hers); Emily Trentham; Michely Coimbra; Lynn Adler; Rebecca E. Irwin
9:00 AM - 5:00 PM Pacific: How do microclimates of Medicago sativa(alfalfa) influence the foraging preference of Megachile rotundate (alfalfa leafcutting bees)?. Presenting Author: Lukas John Sokalski- North Dakota State University. Meredith G. Johnson (she/her/hers)- North Dakota State University. Joseph Rinehart- USDA-ARS. Kendra J. Greenlee (she/her/hers)- North Dakota State University - Lukas John Sokalski; Meredith G. Johnson (she/her/hers); Joseph Rinehart; Kendra J. Greenlee (she/her/hers)
9:00 AM - 5:00 PM Pacific: How habitat structure and management shape Bombus spp. abundance in East Texas prairies and forests. Presenting Author: Kimberly Birrer- Stephen F. Austin State University. Daniel Bennett- Stephen F. Austin State University - Kimberly Birrer; Daniel Bennett
9:00 AM - 5:00 PM Pacific: Pollinators in practice: Bee community diversity across seedless watermelon management systems. Presenting Author: Breh Ruger (she/her/hers)- The Ohio State University. Ashley Leach- Ohio State University. Ian Kaplan- Purdue University - Breh Ruger (she/her/hers); Ashley Leach; Ian Kaplan
9:00 AM - 5:00 PM Pacific: The buzz around ecovoltaics: Co-locating pollinator habitat with solar energy infrastructure. Presenting Author: Tristan A. Barley- University of Illinois. Ben Campbell- UIC. Laura Fox- Argonne National Laboratory. Elena Gratton- University of Illinois. Heidi Hartmann- Argonne National Laboratory. Jordan Martin- National Renewable Energy Laboratory. James McCall (he/him/his)- National Renewable Energy Laboratory. Lily Reynolds- Miami University. Leroy Walston (he/him/his)- Argonne National Laboratory. Adam Dolezal- University of Illinois - Tristan A. Barley; Ben Campbell; Laura Fox; Elena Gratton; Heidi Hartmann; Jordan Martin; James McCall (he/him/his); Lily Reynolds; Leroy Walston (he/him/his); Adam Dolezal
9:00 AM - 5:00 PM Pacific: Vascular plant flora of Pacific Northwest pollinator gardens. Presenting Author: Taylor John Janecek- Oregon State University. Gail A. Langellotto- Oregon State University - Taylor John Janecek; Gail A. Langellotto

Title: Grad Poster Competition: P-IE, IPM 1

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Backcrossed populations reduced confound effects of heterosis on the measurements of fitness costs and dominance levels of Bt resistance in Helicoverpa zea. Presenting Author: Shucong Lin- Louisiana State University. Graham Head- Bayer Crop Science. Tiago Silva- Louisiana State University. Bhavana Patla- Louisiana State University. Fangneng Huang- Louisiana State University - Shucong Lin; Graham Head; Tiago Silva; Bhavana Patla; Fangneng Huang
9:00 AM - 5:00 PM Pacific: Can computers effectively detect crop pests? Evaluating a deep-learning model for watermelon pest detection on sticky cards. Presenting Author: Kudzai Mafuwe- University of Delaware. Michael Crossley (he/him/his)- University of Delaware - Kudzai Mafuwe; Michael Crossley (he/him/his)
9:00 AM - 5:00 PM Pacific: Evaluating canola and mustard cultivar responses to flea beetle damage. Presenting Author: Gifty Kwakyewaa Bempong- University of Idaho. Subodh Adhikari- Utah State University. Sanford Eigenbrode- University of Idaho. Caitlyn Horsch- University of Idaho. James Uhlenkott- University of Idaho. Kamal K. Khadka- University of Idaho - Gifty Kwakyewaa Bempong; Subodh Adhikari; Sanford Eigenbrode; Caitlyn Horsch; James Uhlenkott; Kamal K. Khadka
9:00 AM - 5:00 PM Pacific: Evaluating larval movement of soybean gall midge (Resseliella maxima Gagne) in soil: Potential insights for research and management. Presenting Author: Thalia Ramos-Rodrigues- University of Nebraska-Lincoln. Anthony Justin McMechan- University of Nebraska-Lincoln - Thalia Ramos-Rodrigues; Anthony Justin McMechan
9:00 AM - 5:00 PM Pacific: Exploring resistance traits of Prunusroot stocks for management of peach tree borer (Synanthedon exitiosa) in peach. Presenting Author: Adam Schacherer- University of Georgia. Brett Blaauw- University of Georgia. Ted Cottrell- USDA, ARS. Dario Chavez- University of Georgia - Adam Schacherer; Brett Blaauw; Ted Cottrell; Dario Chavez
9:00 AM - 5:00 PM Pacific: Monitoring the black fig fly (Silba adipata): Evaluating alternative monitoring techniques for a new fig pest in California. Presenting Author: Melissa Rae Thayer- University of California. Houston Wilson (he/him/his)- University of California - Melissa Rae Thayer; Houston Wilson (he/him/his)
9:00 AM - 5:00 PM Pacific: Population dynamics and management of apple snails (Pomacea maculata) in Louisiana crawfish (Procambarus clarkii) aquaculture.. Presenting Author: Carlos Jose Rivera (he/him/his)-

Louisiana State University. Blake Wilson- Louisiana State University - Carlos Jose Rivera (he/him/his); Blake Wilson
9:00 AM - 5:00 PM Pacific: Rethinking biofix: Cold events and codling moth emergence in Michigan apple orchards. Presenting Author: Claire Schregardus- Michigan State University. Julianna Wilson- Michigan State University - Claire Schregardus; Julianna Wilson

Title: Grad Poster Competition: P-IE, IPM 2

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Effects of ecological intensification on the populations of Coleoptera, Hemiptera, and Hymenoptera in organic soybean and corn fields. Presenting Author: Sophia Yager-Motl- Purdue University. Young-gyun Park- University of Florida. Hira Poudel (she/her/hers)- Purdue University. Samuel Treminio- Purdue University. Christian Krupke- Purdue University - Sophia Yager-Motl; Young-gyun Park; Hira Poudel (she/her/hers); Samuel Treminio; Christian Krupke
9:00 AM - 5:00 PM Pacific: Effects of pesticide drift on caterpillars in an agricultural landscape. Presenting Author: Alexa Rojas- University of Illinois. Thomas J. Benson- University of Illinois Urbana-Champaign - Alexa Rojas; Thomas J. Benson
9:00 AM - 5:00 PM Pacific: Exploring seasonal population dynamics and potential chemical control of invasive Bulimulus snails in Florida citrus. Presenting Author: Sankara Ganesh- University of Florida. Lauren Diepenbrock- University of Florida - Sankara Ganesh; Lauren Diepenbrock
9:00 AM - 5:00 PM Pacific: From larvae to livelihoods: Examining the realities of black soldier fly (Hermetia illucens) farming in Malawi. Presenting Author: Emily Lynn Herriott- School for International Training Graduate Institute. Joseph Lanning- School for International Training Graduate Institute. Gift Chawanda- Mwimba College of Agriculture, Kasungu, Malawi - Emily Lynn Herriott; Joseph Lanning; Gift Chawanda
9:00 AM - 5:00 PM Pacific: Impact of seeding rates on whitehead incidence and yield loss caused by the Mexican rice borer in rice. Presenting Author: Maria Osako (she/her/hers)- Texas A&M University. Rebecca Pearson- Texas A&M AgriLife Research. Lina Bernaola- Texas A&M University - Maria Osako (she/her/hers); Rebecca Pearson; Lina Bernaola
9:00 AM - 5:00 PM Pacific: Influence of maturity groups and planting dates on soybean insect pests in Missouri. Presenting Author: Pedro Henrique Campos Pinho Costa- University of Missouri. Jeova Rafael Rafael Rodrigues da silva- University of Missouri. Lennis Afraire Rodrigues (she/her/hers)- University of Missouri. Luan Carlo Bosetti- University of Missouri. Bruno Cocco Lago- University of Missouri. Andre Froes de Borja Reis- University of Missouri. Ivair Valmorbida- University of Missouri - Pedro Henrique Campos Pinho Costa; Jeova Rafael Rafael Rodrigues da silva; Lennis Afraire Rodrigues (she/her/hers); Luan Carlo Bosetti; Bruno Cocco Lago; Andre Froes de Borja Reis; Ivair Valmorbida
9:00 AM - 5:00 PM Pacific: Monitoring and detection of sweet corn pests using smart trap technology. Presenting Author: Grace Tiwari- Pennsylvania State University. Heather Grab (she/her/hers)- Pennsylvania State University - Grace Tiwari; Heather Grab (she/her/hers)
9:00 AM - 5:00 PM Pacific: Susceptibility of Helicoverpa zea to eight common chemical insecticides in the southeastern United States. Presenting Author: Bhavana Patla- Louisiana State University. Tiago Silva- Louisiana State University. Shucong Lin- Louisiana State University. Graham Head- Bayer Crop Science. Francis Reay-Jones- Clemson University. Xinzhi Ni- Crop Genetics and Breeding Research Unit, USDA-ARS. Lina Bernaola- Texas A&M University. Sebe Brown- University of Tennessee. Donald Cook- Mississippi State University. James Villegas- LSU AgCenter - Bhavana Patla; Tiago Silva; Shucong Lin; Graham Head; Francis Reay-Jones; Xinzhi Ni; Lina Bernaola; Sebe Brown; Donald Cook; James Villegas

Title: Grad Poster Competition: P-IE, Parasitoids, Parasites, and Predators

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:

9:00 AM - 5:00 PM Pacific: A new avocado pest (Lepidoptera: Gracillariidae: Caloptilia) on the move: Genetic confirmation and parasitoid associations across southern California. Presenting Author: Alejandra Rocha- University of California. Bodil Cass- University of California - Alejandra Rocha; Bodil Cass
9:00 AM - 5:00 PM Pacific: Bumble bee macroparasites. Presenting Author: Liam Bennet Whiteman (he/him/his)- The Ohio State University. James P. Strange, PhD- The Ohio State University - Liam Bennet Whiteman (he/him/his); James P. Strange, PhD
9:00 AM - 5:00 PM Pacific: Comparison of the parasitism ofT. Chilonis against eggs of C. cephalonica, S. frugiperda and C. partellus. Presenting Author: Bhawana Regmi (she/her/hers)- University of California. Sundar Tiwari- Agriculture and Forestry University Nepal. Rangaswamy Muniappan (he/him/his)- Virginia Tech. Min Pokhrel- Agriculture and Forestry University Nepal - Bhawana Regmi (she/her/hers); Sundar Tiwari; Rangaswamy Muniappan (he/him/his); Min Pokhrel
9:00 AM - 5:00 PM Pacific: Discovery of seven potential predators of Asian hornet (Vespa velutina) in South Korea. Presenting Author: Jaehee Kim- Kyungpook National University. Moon Bo Choi- Kyungpook National University. Ohseok Kwon- Kyungpook National University - Jaehee Kim; Moon Bo Choi; Ohseok Kwon
9:00 AM - 5:00 PM Pacific: Egg parasitoid complex of Leptoglossus zonatus (Hemiptera: Coreidae) in Florida. Presenting Author: Md Tafsir Nur Nabi Rashed (he/him/his)- University of Florida. Elijah Talamas- Florida State Collection of Arthropods. Adam G. Dale- University of Florida. Nicole Benda- Florida Dept of Ag & Consumer Services- Div. Plant Industry. Simon Riley- Statistical Consulting Unit, University of Florida. Amanda Hodges- University of Florida - Md Tafsir Nur Nabi Rashed (he/him/his); Elijah Talamas; Adam G. Dale; Nicole Benda; Simon Riley; Amanda Hodges
9:00 AM - 5:00 PM Pacific: Host specialization and virulence of an OE-like parasite of Asian Danaus chrysippus butterflies. Presenting Author: Emily E. Jones- University of Hong Kong. Emily E. Jones- University of Hong Kong. Jaap de Roode- Emory University. Chun Hoi Law- The University of Hong Kong. Timothy C. Bonebrake- University of Hong Kong - Emily E. Jones; Emily E. Jones; Jaap de Roode; Chun Hoi Law; Timothy C. Bonebrake
9:00 AM - 5:00 PM Pacific: Pastured poultry impacts on the arthropod and weed community. Presenting Author: Avery Ryan- University of Georgia. Sofia Varriano- University of Georgia. Kariana Colon- University of Georgia. Pedro Augusto Da Pos Rodrigues- University of Georgia. William Snyder- University of Georgia - Avery Ryan; Sofia Varriano; Kariana Colon; Pedro Augusto Da Pos Rodrigues; William Snyder
9:00 AM - 5:00 PM Pacific: Potential of native perennial flowering plants to enhance conservation biological control in agriculture. Presenting Author: Sambriddhi Subedi- Kentucky State University. Katherine Kamminga- Kentucky State University. John Galvin- Kentucky State University. Paul Baker- Kentucky State University - Sambriddhi Subedi; Katherine Kamminga; John Galvin; Paul Baker
9:00 AM - 5:00 PM Pacific: Re-evaluation of biocontrol agents released for Schinus terebinthfolia (Anacardiaceae) in Hawaii: 70 years later. Presenting Author: Michelle G. Au- University of Hawaii. Erin Patterson- University of Hawaii at Mnoa. Mark Wright- University of Hawaii - Michelle G. Au; Erin Patterson; Mark Wright
9:00 AM - 5:00 PM Pacific: The impact of salinity on plant-insect interactions. Presenting Author: Sahil Vinod Pawar- Pennsylvania State University. Rorri Mueller- Penn state university. Bijay Subedi- Pennsylvania State University. Michelle Peiffer- Penn state university. Gary Felton- Pennsylvania State University - Sahil Vinod Pawar; Rorri Mueller; Bijay Subedi; Michelle Peiffer; Gary Felton

Title: Grad Poster Competition: SysEB, Biodiversity and Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student Poster Display Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Carrion preferences of necrophagous dipterans in Missouri's grassland and woodland vegetation communities. Presenting Author: Kyra Lynn Lathrop- University of Central Missouri. Daniel A. Marschalek- University of Central Missouri - Kyra Lynn Lathrop; Daniel A. Marschalek
9:00 AM - 5:00 PM Pacific: Management for urban aquatic ecosystem health: Leveraging spatially and temporally extensive public biomonitoring datasets. Presenting Author: Claire Bass- University of Minnesota. Christy Dolph- University of Minnesota, Twin-Cities. Sarah Hobbie- University of Minnesota, Twin-Cities. Jacques Finlay- University of Minnesota, Twin-Cities - Claire Bass; Christy Dolph; Sarah Hobbie; Jacques Finlay

9:00 AM - 5:00 PM Pacific: Not all mosquitoes are bloodsuckers: Assessing the western limits of the range of Wyeomyia smithii, the non-biting pitcher plant mosquito. Presenting Author: Tiffany Pan (they/them/theirs)- University of Calgary. John Soghigian- University of Calgary - Tiffany Pan (they/them/theirs); John Soghigian
9:00 AM - 5:00 PM Pacific: Population and behavior effects of temperature within an ant-aphid mutualism on common milkweed (Asclepias syriaca) in northeast Ohio. Presenting Author: Stephanie Petrycki- Kent State University. Thomas P. Franzem- Kent State University. Christie Bahlai (she/her/hers)- Kent State University - Stephanie Petrycki; Thomas P. Franzem; Christie Bahlai (she/her/hers)
9:00 AM - 5:00 PM Pacific: Relationships between benthic and hyporheic insect communities across environmental gradients in Texas rivers. Presenting Author: Erika Frandsen- Texas State University. Benjamin Schwartz- Texas State University Department of Biology/Edwards Aquifer Research and Data Center. Benjamin Hutchins- Texas State University Edwards Aquifer Research and Data Center. Weston Nowlin- Aquatic Station, Department of Biology, Texas State University. Miranda Sams- Aquatic Station, Department of Biology, Texas State University. Kierra Determan- Aquatic Station, Department of Biology, Texas State University. Kirby Wright- Aquatic Station, Department of Biology, Texas State University. Jessica Kittridge- Aquatic Station, Department of Biology, Texas State University. Catherine Cline- Aquatic Station, Department of Biology, Texas State University - Erika Frandsen; Benjamin Schwartz; Benjamin Hutchins; Weston Nowlin; Miranda Sams; Kierra Determan; Kirby Wright; Jessica Kittridge; Catherine Cline
9:00 AM - 5:00 PM Pacific: Stylops kirby, 1802 (Strepsiptera: Stylopidae) parasitizing bees in the Andrena fabricius, 1775 subgenus Callandrena cockerell, 1898 (Hymenoptera: Andrenidae), with description of a new species. Presenting Author: Natalie Diane Herbison- University of Kansas. Wyatt Zabinski- University of Kansas - Natalie Diane Herbison; Wyatt Zabinski
9:00 AM - 5:00 PM Pacific: Thermal sensitivity in dormancy regulation is key to predicting population vulnerability to climate change. Presenting Author: Stephanie Nguyen- Binghamton University. Thomas H.Q. Powell- Binghamton University - Stephanie Nguyen; Thomas H.Q. Powell
9:00 AM - 5:00 PM Pacific: Towards better biological control: A checklist of green lacewings (Neuroptera: Chrysopidae) in California, United States of America. Presenting Author: Jenni Daniela Garca Quiceno (she/her/hers)- University of California. Bodil Cass- University of California - Jenni Daniela Garca Quiceno (she/her/hers); Bodil Cass

Title: Grad Poster Competition: SysEB, Evolution and Systematics

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student Poster Display Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: De novo whole genome assembly of the mosquito Aedes grossbecki. Presenting Author: Peyton Insley Easton- University of Delaware. Vincenzo Ellis- University of Delaware. Charles Bartlett- University of Delaware. Madolyn MacDonald- University of Delaware. Wil Winter, BCE- Delaware Division of Fish and Wildlife: Mosquito Control. Thomas Moran- State of Delaware Division of Fish and Wildlife - Mosquito Control, Department of Natural Resources and Environmental Control. William Meredith- State of Delaware Division of Fish and Wildlife - Mosquito Control, Department of Natural Resources and Environmental Control. Shawn Polson- University of Delaware - Peyton Insley Easton; Vincenzo Ellis; Charles Bartlett; Madolyn MacDonald; Wil Winter, BCE; Thomas Moran; William Meredith; Shawn Polson
9:00 AM - 5:00 PM Pacific: dsDNA viruses in the genus Sphenarium(Orthoptera: Pyrgomorphidae): Their identification using genome-scale data. Presenting Author: Diana A. Mil-Salazar (she/her/hers)- Universidad Nacional Autonma de Mexico. Ruben Castaneda-Osorio, n/a- Instituto de Biologia, Universidad Nacional Autonoma de Mexico. Alejandro Zaldvar-Rivern- Universidad Nacional Autnoma de Mexico. Isabela M. Watanabe- Universidad Nacional Autnoma de Mexico. Jovana Jasso-Martinez, n/a- Instituto de Biologia, Universidad Nacional Autonoma de Mexico - Diana A. Mil-Salazar (she/her/hers); Ruben Castaneda-Osorio, n/a; Alejandro Zaldvar-Rivern; Isabela M. Watanabe; Jovana Jasso-Martinez, n/a
9:00 AM - 5:00 PM Pacific: Exploring the consequence of phenological variation on fitness in the European corn borer. Presenting Author: Alyssa Murray- Tufts University. Erik Dopman (he/him/his)- Tufts University. Brittany S. Barker, PhD- Oregon State University - Alyssa Murray; Erik Dopman (he/him/his); Brittany S. Barker, PhD
9:00 AM - 5:00 PM Pacific: Morphological marvels: Evolutionary origins and developmental repatterning of the treehopper helmet. Presenting Author: Savanna R. Brown- University of Connecticut. Cera R. Fisher

(she/her/hers)- Velsera. Elizabeth L. Jockusch (she/her/hers)- University of Connecticut - Savanna R. Brown; Cera R. Fisher (she/her/hers); Elizabeth L. Jockusch (she/her/hers)
9:00 AM - 5:00 PM Pacific: Phylogenetics of the Nearctic inquiline genus, Periclistus(Hymenoptera: Cynipidae): Insights and challenges. Presenting Author: Stephanie Eskew (she/her/hers)- Colorado State University. Marek Borowiec (he/him/his)- Colorado State University. Vilas Brown (they/them/theirs)- Colorado State University. Zachary Griebenow (he/him/his)- Colorado State University - Stephanie Eskew (she/her/hers); Marek Borowiec (he/him/his); Vilas Brown (they/them/theirs); Zachary Griebenow (he/him/his)
9:00 AM - 5:00 PM Pacific: The soothsayer far afield: Population dynamics and ecological niche of the invasive European mantis, Mantis religiosa (Mantodea: Mantidae). Presenting Author: Lohitashwa Garikipati- American Museum of Natural History. Yucheol Shin- American Museum of Natural History. Jessica L. Ware (she/her/hers)- American Museum of Natural History. Julio Rivera, PhD- University of Montreal - Lohitashwa Garikipati; Yucheol Shin; Jessica L. Ware (she/her/hers); Julio Rivera, PhD
9:00 AM - 5:00 PM Pacific: Unravelling the effects of sex, genotype and temperature in aging of house flies (Musca domestica). Presenting Author: Sohana Al Sanjee (she/her/hers)- University of Houston. Yesbol Manat- Post-Doc. Richard Meisel- University of Houston - Sohana Al Sanjee (she/her/hers); Yesbol Manat; Richard Meisel
9:00 AM - 5:00 PM Pacific: Untangling the evolutionary history of the hydrophilid subfamily Enochrinae. Presenting Author: Peter Willadsen- University of Kansas. Andrew E. Short- University of Florida. Rob Moyle- University of Kansas - Peter Willadsen; Andrew E. Short; Rob Moyle

Title: Undergrad Poster Competition: FIT, P-IE, and SysEB, Education and Biodiversity

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Formal and Informal Teaching; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student Poster Display Competition; Formal and Informal Teaching; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Community scientists uncover the status of native lady beetles in Ohio gardens. Presenting Author: Harlem Staples- The Ohio State University. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University. Ellen Danford- The Ohio State Univeristy - Harlem Staples; Mary M. Gardiner, M.S., Ph.D. (she/her/hers); Ellen Danford
9:00 AM - 5:00 PM Pacific: Comparing butterfly assemblages along Missouri roadsides and in remnant prairies. Presenting Author: Leah Landon- University of Central Missouri. Daniel A. Marschalek- University of Central Missouri - Leah Landon; Daniel A. Marschalek
9:00 AM - 5:00 PM Pacific: Creating a table top role playing game to teach about ant tending in an IPM context. Presenting Author: Alexandra F. Nyers- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Alexandra F. Nyers; Alexander Maxwell Butcher
9:00 AM - 5:00 PM Pacific: Creating accessible resources for insect identification: The Lepidoptera case study. Presenting Author: Anna Janowski- Oregon State University. Silvia I. Rondon (she/her/hers)- Oregon State University - Anna Janowski; Silvia I. Rondon (she/her/hers)
9:00 AM - 5:00 PM Pacific: Exploring ecological influences on ant communication genetics through course-based undergraduate research (CURE). Presenting Author: Ryan Antalek- University of Florida. Athena Conde- University of Florida. Maria Fiorta- University of Florida. Anthony Auletta- University of Florida. Elizabeth Cash- University of Florida - Ryan Antalek; Athena Conde; Maria Fiorta; Anthony Auletta; Elizabeth Cash
9:00 AM - 5:00 PM Pacific: Quantifying insect biodiversity at the Lumbee Tribe Cultural Center. Presenting Author: Erika Christine Rivera- University of North Carolina. Kaitlin U. Campbell (she/her/hers)- University of North Carolina - Erika Christine Rivera; Kaitlin U. Campbell (she/her/hers)
9:00 AM - 5:00 PM Pacific: Snug as a bug: Enhancing overwintering habitat for non-hymenopteran pollinators at Northern Michigan University. Presenting Author: Mollie Haremza- Northern Michigan University. Ahva Potticary- Northern Michigan University - Mollie Haremza; Ahva Potticary
9:00 AM - 5:00 PM Pacific: Springtail biodiversity following introduction of cultural burning by the Lumbee Tribe. Presenting Author: Perseus Dailey- University of North Carolina. Kaitlin U. Campbell (she/her/hers)- University of North Carolina - Perseus Dailey; Kaitlin U. Campbell (she/her/hers)
9:00 AM - 5:00 PM Pacific: The opportunities and challenges for dual majoring students in entomological studies. Presenting Author: Gillian Struble- Oklahoma State University. Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University - Gillian Struble; Wyatt Wyatt Hoback (he/him/his)

9:00 AM - 5:00 PM Pacific: Weed or hidden treasure? How common purslane affects garden food webs. Presenting Author: Sophia Ranes- University of Illinois. Joseph Caya- University of Illinois. Carmen Blubaugh- University of Illinois. Mitzi Milojkovic- University of Illinois Urbana-Champaign. Emily Ma- University of Illinois Urbana-Champaign. Rose Hou- University of Illinois Urbana-Champaign - Sophia Ranes; Joseph Caya; Carmen Blubaugh; Mitzi Milojkovic; Emily Ma; Rose Hou

Title: Undergrad Poster Competition: MUVE and PBT, General

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Medical, Urban, and Veterinary Entomology; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student Poster Display Competition; Medical, Urban, and Veterinary Entomology; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: A comparative analysis of life tables and morphological differences between parthenogenetic and bisexual Haemaphysalis longicornis. Presenting Author: Jaeuk Park- Kyungpook National University. Jiseok Kim- Kyungpook National University. Seoyul Hawng- Kyungpook National University. Donghun Kim- Kyungpook National University - Jaeuk Park; Jiseok Kim; Seoyul Hawng; Donghun Kim
9:00 AM - 5:00 PM Pacific: An assessment of the antimicrobial potential of propolis collected by Apis mellifera in southwest Virginia. Presenting Author: Thomas Ausburne- Radford University. Binuk Samarasinghe- Radford University. Chet P. Bhatta- Radford University - Thomas Ausburne; Binuk Samarasinghe; Chet P. Bhatta
9:00 AM - 5:00 PM Pacific: Dirofilaria immitis and Plasmodium relictum DNA detection in populations of Culex quinquefasciatus sampled across Florida. Presenting Author: Milani Villa- University of Florida. Mba-tihssommah mosore- University of Florida. Edwin Burgess- University of Florida - Milani Villa; Mba-tihssommah mosore; Edwin Burgess
9:00 AM - 5:00 PM Pacific: Dual action lethal ovitraps: The use of pyriproxyfen and permethrin to control Aedes aegypti. Presenting Author: Jennifer Elizabeth Martocci- University of Florida. Luke Davis- University of Florida. Roberto Pereira- Univ. of Florida, Entomology & Nematology Dept.. Rebecca W. Baldwin, BCE- University of Florida. Tae Young Lee- University of Florida. Philip Koehler- University Of Florida - Jennifer Elizabeth Martocci; Luke Davis; Roberto Pereira; Rebecca W. Baldwin, BCE; Tae Young Lee; Philip Koehler
9:00 AM - 5:00 PM Pacific: From city to canyon: A survey of blow fly biodiversity across Utah ecoregions. Presenting Author: Haylee Beck (she/her/hers)- Utah Valley University. Bailey Jannuzzi- Utah Valley University. Lauren M. Weidner (she/her/hers)- Arizona State University. Carl E. Hjelmen- Utah Valley University - Haylee Beck (she/her/hers); Bailey Jannuzzi; Lauren M. Weidner (she/her/hers); Carl E. Hjelmen
9:00 AM - 5:00 PM Pacific: Investigating phenotypic and genomic cross-resistance in the Colorado potato beetle, Leptinotarsa decemlineata (Coleoptera: Chrysomelidae). Presenting Author: Ariel Maurer- University of Wisconsin. Emma Terris- University of Wisconsin. Russell L. Groves, Ph.D.- University of Wisconsin. Sean Dennis Schoville- University of Wisconsin - Ariel Maurer; Emma Terris; Russell L. Groves, Ph.D.; Sean Dennis Schoville
9:00 AM - 5:00 PM Pacific: Investigating the impacts of acetaminophen on the growth and development of Phormia regina (Meigen). Presenting Author: Eliana Busch-Hebert- University of Tennessee. Marilee Crabtree- University of Tennessee, Knoxville - Eliana Busch-Hebert; Marilee Crabtree
9:00 AM - 5:00 PM Pacific: Minimizing bee bycatch in Japanese beetle traps. Presenting Author: Spencer Allen Alefteras- North Dakota State University. Deirdre Prischmann-Voldseth- North Dakota State University. Charles Elhard- North Dakota Department of Agriculture. Scott Opatril- North Dakota Department of Agriculture - Spencer Allen Alefteras; Deirdre Prischmann-Voldseth; Charles Elhard; Scott Opatril
9:00 AM - 5:00 PM Pacific: Performance of bed bug control products against a pyrethroid-resistant strain of Cimex lectularius L.. Presenting Author: Willa Ralston- University of California. Gregory Kund- University of California, Riverside. Shao-Hung Lee- University of California, Riverside. Chow-Yang Lee, BCE (he/him/his)- University of California - Willa Ralston; Gregory Kund; Shao-Hung Lee; Chow-Yang Lee, BCE (he/him/his)
9:00 AM - 5:00 PM Pacific: The role of the metapleural gland in reducing behavioral and physiological effects of Metarhizium anisopliae on Camponotus floridanus and Pheidole dentata. Presenting Author: Rebecca Doyle- University of Scranton. Marc Seid- University of Scranton - Rebecca Doyle; Marc Seid

Title: Undergrad Poster Competition: PBT and P-IE: Behavior, Ecology, and Physiology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC

Organizers:
Categories: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: An essential oil-based pesticide. Presenting Author: Isabel Lykken- Utah Valley University. Katharina Wingard- Utah Valley University. Tyler Wilson- D. Gary Young Research Institute. Michael Rotter- Utah Valley University - Isabel Lykken; Katharina Wingard; Tyler Wilson; Michael Rotter
9:00 AM - 5:00 PM Pacific: Cross-species movement of Bt resistance in Helicoverpa and implications for transgenic crop protection. Presenting Author: Millie Sethi- Johnston High School. Relanie Humpal- Corteva Agriscience. Benchie Ortegon- Corteva Agriscience. Sefriyani Johan- Corteva Agriscience. Matt Wihlm- Corteva Agriscience. Margit Ross- Corteva Agriscience. Amit Sethi- Corteva Agriscience - Millie Sethi; Relanie Humpal; Benchie Ortegon; Sefriyani Johan; Matt Wihlm; Margit Ross; Amit Sethi
9:00 AM - 5:00 PM Pacific: Heatwave impacts on physiology of black swallowtails (Papilio polyxenes). Presenting Author: Jenaya Nicole Wilder- University of Illinois. Alexandra Harmon-Threatt- University of Illinois Urbana-Champaign. Annaliese Wargin- University of Illinois - Jenaya Nicole Wilder; Alexandra Harmon-Threatt; Annaliese Wargin
9:00 AM - 5:00 PM Pacific: Hop latent viroid: First report of vector transmission in hemp (Cannabis sativa). Presenting Author: Raiyaa Huntress- Colorado State University. Jinlong Han- Colorado State University. Jacob MacWilliams- Colorado State University. Punya Nachappa- Colorado State University - Raiyaa Huntress; Jinlong Han; Jacob MacWilliams; Punya Nachappa
9:00 AM - 5:00 PM Pacific: Increases in temperature have varying effects on different aphid species' population growth. Presenting Author: Michelle Jin- Lewis and Clark College. Julia Thompson- Lewis and Clark College. Suzie Myles- Lewis & Clark College. Heidi Liere- Lewis and Clark College - Michelle Jin; Julia Thompson; Suzie Myles; Heidi Liere
9:00 AM - 5:00 PM Pacific: Metal incorporation in Centruroides sculpturatus cuticle. Presenting Author: Elise Jaremko- University of Oregon. Robert MS Schofield, n/a- University of Oregon - Elise Jaremko; Robert MS Schofield, n/a
9:00 AM - 5:00 PM Pacific: Nosema ceranae infection alters honey bee (Apis mellifera) queen behavior and reproductive capacity. Presenting Author: Sam Gracia- University of Texas. Keegan Nichols- Texas A&M University. Haley Olvera- University of Texas. Tonya Shepherd- Texas A&M University. Juliana Rangel- Texas A&M University - Sam Gracia; Keegan Nichols; Haley Olvera; Tonya Shepherd; Juliana Rangel
9:00 AM - 5:00 PM Pacific: Role of octopamine in the behavioral stress response of the Colorado potato beetle (Leptinotarsa decemlineata). Presenting Author: Lamija Semic- University of Vermont. Joe Gunn (he/him/his)- University of Vermont. Blair Christensen (she/her/hers)- University of Vermont. Yolanda Chen (she/her/hers)- University of Vermont - Lamija Semic; Joe Gunn (he/him/his); Blair Christensen (she/her/hers); Yolanda Chen (she/her/hers)
9:00 AM - 5:00 PM Pacific: Seasonal timing and nutritional influences on cuticular hydrocarbon (CHCs) profiles in seed-dispersing Aphaenogaster ants. Presenting Author: Sarah K. Groh- Binghamton University. Christopher A. DeAngelis- Binghamton University. Diego Salazar Amoretti- Binghamton University. Thomas H.Q. Powell- Binghamton University. Kirsten M. Prior- Binghamton University - Sarah K. Groh; Christopher A. DeAngelis; Diego Salazar Amoretti; Thomas H.Q. Powell; Kirsten M. Prior

Title: Undergrad Poster Competition: P-IE and SysEB, Biodiversity, Behavior, and Conservation

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Butterfly diversity in a unique cropping system. Presenting Author: McKayla Hiatt- Utah Valley University. Michael Rotter- Utah Valley University - McKayla Hiatt; Michael Rotter
9:00 AM - 5:00 PM Pacific: Can light pollution color impact melatonin in mallows or metamorphosis?. Presenting Author: Jo E. Schultz- University of Texas - Jo E. Schultz

9:00 AM - 5:00 PM Pacific: Developing a species distribution model for the western range extent of the Florida harvester ant (Pogonomyrmex badius). Presenting Author: Noah Williamson- University of Southern Mississippi. Kayla Stan- University of Southern Mississippi. Kristin M. Robinson (she/her/hers)- University of Southern Mississippi. Kaitlin M. Baudier- University of Southern Mississippi - Noah Williamson; Kayla Stan; Kristin M. Robinson (she/her/hers); Kaitlin M. Baudier
9:00 AM - 5:00 PM Pacific: Impacts of selective logging as a habitat restoration tool on invertebrate communities in an oak (Quercus garryana) woodland. Presenting Author: Ella June Herb- Western Oregon University. Ava R. Howard- Western Oregon University. Gareth R. Hopkins, PhD- Western Oregon University - Ella June Herb; Ava R. Howard; Gareth R. Hopkins, PhD
9:00 AM - 5:00 PM Pacific: Novel report of reproductive diapause in a Neotropical butterfly. Presenting Author: Kyri A. Forman- Utah Valley University - Kyri A. Forman
9:00 AM - 5:00 PM Pacific: Short- and long-term responses of forest ant communities to a tornado and subsequent salvage logging. Presenting Author: Cesia Nazaret Cerrato, Jr.- The Ohio State University. Kayla I. Perry- The Ohio State University. Andrea Kautz (she/her/hers)- Carnegie Museum of Natural History - Cesia Nazaret Cerrato, Jr.; Kayla I. Perry; Andrea Kautz (she/her/hers)
9:00 AM - 5:00 PM Pacific: Waking up at the right time: Using temperature to time Taylor's checkerspot releases. Presenting Author: Taylor Lee Green- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Taylor Lee Green; Alexander Maxwell Butcher

Title: Undergrad Poster Competition: P-IE, IPM

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: A novel method for augmentative biological control for wheat stem sawfly management in Nebraska wheat. Presenting Author: Tanaka Murambi- University of Nebraska-Lincoln. Alaida Mumba- University of Nebraska-Lincoln. Maeve Cavanaugh- University of Nebraska-Lincoln. Jeffrey Bradshaw- University of Nebraska. Cody Creech- University of Nebraska-Lincoln. Amanda Easterly- University of Nebraska-Lincoln. Peter J.A. Kleinman- USDA-ARS Center for Agricultural Resources Research. Punya Nachappa- Colorado State University. Adam Osterholzer- Colorado State University. Pin-Chu Lai- University of Nebraska-Lincoln - Tanaka Murambi; Alaida Mumba; Maeve Cavanaugh; Jeffrey Bradshaw; Cody Creech; Amanda Easterly; Peter J.A. Kleinman; Punya Nachappa; Adam Osterholzer; Pin-Chu Lai
9:00 AM - 5:00 PM Pacific: An initial model to automatically identify stored product Lepidoptera in next generation traps using artificial intelligence. Presenting Author: Rhian Alastrine Collins- Kansas State University. Jennifer Abshire- USDA-ARS. Melanie Kessler-Mathieu- USDA/ARS. Ronnie Opone Serfa Juan, PhD (he/him/his)- USDA-ARS. Erin Scully- USDA-ARS. Alison Gerken- USDA-ARS. William Morrison- USDA-ARS - Rhian Alastrine Collins; Jennifer Abshire; Melanie Kessler-Mathieu; Ronnie Opone Serfa Juan, PhD (he/him/his); Erin Scully; Alison Gerken; William Morrison
9:00 AM - 5:00 PM Pacific: Competition and predation by ladybird beetles (Coleoptera: Coccinellidae) native and non-native to the Pacific Northwest at various temperature conditions. Presenting Author: Julia Thompson- Lewis and Clark College. Michelle Jin- Lewis and Clark College. Suzie Myles- Lewis & Clark College. Heidi Liere- Lewis and Clark College - Julia Thompson; Michelle Jin; Suzie Myles; Heidi Liere
9:00 AM - 5:00 PM Pacific: Design and implementation of a sustainable IPM program for commercial tomato production. Presenting Author: Kennedy Marie White- University of California. Gregory Kund- University of California, Riverside. Chow-Yang Lee, BCE (he/him/his)- University of California - Kennedy Marie White; Gregory Kund; Chow-Yang Lee, BCE (he/him/his)
9:00 AM - 5:00 PM Pacific: Impact of entomopathogenic nematodes on mortality of the western corn rootworm under laboratory conditions. Presenting Author: Vojin Milosevic- University of Nebraska-Lincoln. Ana Paula Lima (she/her/hers)- University of Nebraska-Lincoln. Priscila Maria Colombo Da Luz- University of Nebraska-Lincoln. Abigail Lyons (she/her/hers)- University of Nebraska-Lincoln. Adrian Pekarcik- USDA-ARS. Thomas Powers- UNL. Julie Peterson- University of Nebraska-Lincoln - Vojin Milosevic; Ana Paula Lima (she/her/hers); Priscila Maria Colombo Da Luz; Abigail Lyons (she/her/hers); Adrian Pekarcik; Thomas Powers; Julie Peterson
9:00 AM - 5:00 PM Pacific: Leveraging microbiome function for precision control of the coffee berry borer (Hypothenemus hampei) (Coleoptera: Curculionidae: Scolytinae). Presenting Author: William Wagner- Northern Arizona University. Lynn J. Bonomo- Northern Arizona University. Dishant Patel- Northern Arizona University.

Javier Ceja-Navarro- Northern Arizona University - William Wagner; Lynn J. Bonomo; Dishant Patel; Javier Ceja-Navarro
9:00 AM - 5:00 PM Pacific: Limitations of mating disruption for vine mealybug, Planococcus ficus (Ben-Dov) management in vineyards: Biological and spatial considerations. Presenting Author: Sophia Reindl- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Sophia Reindl; Alexander Maxwell Butcher
9:00 AM - 5:00 PM Pacific: Population structure and fitness consequences of phosphine resistance in stored product insects in Nebraska. Presenting Author: Desiree Rousseau- University of Nebraska-Lincoln. Sabita Ranabhat- Kansas State University. Jennifer Abshire- USDA-ARS. Cetin Mutlu- University of Nebraska-Lincoln. Jacqueline Duran- Kansas State University. Daniel Brabec- USDA-ARS. William Morrison- USDA-ARS. Kun Yan Zhu- Kansas State University. Georgina Bingham- University of Nebraska-Lincoln - Desiree Rousseau; Sabita Ranabhat; Jennifer Abshire; Cetin Mutlu; Jacqueline Duran; Daniel Brabec; William Morrison; Kun Yan Zhu; Georgina Bingham
9:00 AM - 5:00 PM Pacific: Potential for acoustic mating disruption: Noise-masking affects the courtship behavior of Indian meal moth, Plodia interpunctella (Lepidoptera: Pyralidae). Presenting Author: Avery James- Kansas State University. Jennifer Abshire- USDA-ARS. Mia E. Phillips- USDA-ARS. Alison Gerken- USDA-ARS. William Morrison- USDA-ARS - Avery James; Jennifer Abshire; Mia E. Phillips; Alison Gerken; William Morrison
9:00 AM - 5:00 PM Pacific: Using entomopathogenic fungi and the predatory mite Anystis baccarum as an integrated pest management tactic against aphids. Presenting Author: Lucy Yvonne Lannan- University of Vermont - Lucy Yvonne Lannan

Title: Undergrad Poster Competition: SysEB, General

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student Poster Display Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Ant near-infrared reflectivity responds to climatic conditions. Presenting Author: Cassandra Bennett- California State University. Terry McGlynn (he/him/his)- California State University Dominguez Hills. Meghan Barrett- Indiana University. Allison Shultz- Natural History Museum of Los Angeles County. Megan Barkdull- Natural History Museum of Los Angeles County. Clint Penick- Auburn University - Cassandra Bennett; Terry McGlynn (he/him/his); Meghan Barrett; Allison Shultz; Megan Barkdull; Clint Penick
9:00 AM - 5:00 PM Pacific: Baseline survey of aquatic Coleoptera and other arthropods in urban lakes undergoing restoration in Louisiana. Presenting Author: Rylea Breann Norton- Louisiana State University. Stephen Baca- Louisiana State University - Rylea Breann Norton; Stephen Baca
9:00 AM - 5:00 PM Pacific: Characterizing symbiont-mediated detoxification of phenethyl isothiocyanate in the American bird grasshopper. Presenting Author: Jaden Rankin- University of Texas. Rachel C. Vargas (she/her/hers)- University of Texas. Aidan Mitchell Skinner- University of Texas. Alison Ravenscraft (she/her/hers)- University of Texas at Arlington - Jaden Rankin; Rachel C. Vargas (she/her/hers); Aidan Mitchell Skinner; Alison Ravenscraft (she/her/hers)
9:00 AM - 5:00 PM Pacific: Cockroaches of the Amazon: New species of Blaberidae found in Peru. Presenting Author: Katharine Vanker- University of Illinois. Dominic Evangelista- University of Illinois. Emmy Fiorella Medina Espinoza- University of Illinois - Katharine Vanker; Dominic Evangelista; Emmy Fiorella Medina Espinoza
9:00 AM - 5:00 PM Pacific: Diversification of plant elicitor peptide receptors (PEPRs) in soybean and its potential impacts on defense signaling. Presenting Author: Kallahan Minor- University of Arkansas. Fiona Goggin- University of Arkansas - Kallahan Minor; Fiona Goggin
9:00 AM - 5:00 PM Pacific: Effect of urban noise pollution on ant communication. Presenting Author: Tim Hine- Quinnipiac University. Sarah P. Lawson, PhD- Quinnipiac University - Tim Hine; Sarah P. Lawson, PhD
9:00 AM - 5:00 PM Pacific: Gall things considered: The taxonomy of gall wasp parasitoids in genusOrmyrus. Presenting Author: Robin P. Marquez (he/him/his)- University of Central Florida. Sofia Sheikh- Univ ersity of Chicago. Guerin Brown (he/him/his)- University of Iowa. Louis Nastasi- Penn State University. MaKella Steffensen- University of Iowa. Andrew Forbes- University of Iowa - Robin P. Marquez (he/him/his); Sofia Sheikh; Guerin Brown (he/him/his); Louis Nastasi; MaKella Steffensen; Andrew Forbes
9:00 AM - 5:00 PM Pacific: Larval growing conditions affect the daily rhythms and thermal preferences of adult Aedes japonicus. Presenting Author: Sydney Luff- Virginia Polytechnic Institute and State University. Nicole Wynne- Virginia Tech. Clement Vinauger- Virginia Polytechnic Institute and State University. Chloe Lahondere-

Virginia Polytechnic Institute and State University. Helle Aronson- Virginia Tech - Sydney Luff; Nicole Wynne; Clement Vinauger; Chloe Lahondere; Helle Aronson
9:00 AM - 5:00 PM Pacific: Mitochondrial phylogeny of Odonata created from target enrichment bycatch. Presenting Author: Ian A. Hunsaker- Brigham Young University. Payton Carter- Brigham Young University. Seth Bybee- Brigham Young University - Ian A. Hunsaker; Payton Carter; Seth Bybee
9:00 AM - 5:00 PM Pacific: Spatial expression of silk genes in aquatic moths. Presenting Author: Skyla Sheehy- Florida Museum of Natural History. Bert Foquet- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History. Anastasia Garavaglia- University of Florida. Andrew Hong- Florida Museum of Natural History - Skyla Sheehy; Bert Foquet; Akito Y. Kawahara, Ph.D.; Anastasia Garavaglia; Andrew Hong

Title: Undergrad Poster Competiton: P-IE and SysEB, Honey Bees and Native Pollinators

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Poster Display Competition; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student Poster Display Competition; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Assessment of the native bee community in 1st, 2nd and 3rd year restoration of grassland prairie. Presenting Author: Leif Marsh- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Leif Marsh; Alexander Maxwell Butcher
9:00 AM - 5:00 PM Pacific: Bee traits across grassland grazing regimes. Presenting Author: America Lizbeth Zarate- Kansas State University. Emma Greenlee- Kansas State University. Ellen Welti (she/her/hers)- Smithsonian Institute - America Lizbeth Zarate; Emma Greenlee; Ellen Welti (she/her/hers)
9:00 AM - 5:00 PM Pacific: Comparing passive trapping methods for sampling forest pollinators. Presenting Author: Christoph Alexander Anderson- Oregon State University. Jim Rivers, Associate Professor- Oregon State University - Christoph Alexander Anderson; Jim Rivers, Associate Professor
9:00 AM - 5:00 PM Pacific: Ecosystem impacts on pollinator communities and pollination services in North Florida. Presenting Author: Helen Tarrau- University of Florida. Rosemary Murray- University of Florida. Rachel Mallinger- University of Florida - Helen Tarrau; Rosemary Murray; Rachel Mallinger
9:00 AM - 5:00 PM Pacific: Habitat matters: Exploring bee communities and pollinator networks in meadows and forest edges of Selu Nature Conservancy. Presenting Author: Timothy Damankah- Radford University. Chet P. Bhatta- Radford University - Timothy Damankah; Chet P. Bhatta
9:00 AM - 5:00 PM Pacific: Love me or feed me: A carnivorous plant dilemma. Presenting Author: Trey Michael Johnson- The Ohio State University - Trey Michael Johnson
9:00 AM - 5:00 PM Pacific: Using pollen load diversity to evaluate native bee specialization and pollination potential. Presenting Author: Savannah Bowman- Oregon State University - Savannah Bowman
9:00 AM - 5:00 PM Pacific: Which bumble bees (Bombusspp.) are in Eau Claire, WI and what do they eat?. Presenting Author: Kinsley Faith Bush- University of Wisconsin. Orlean Alam- University of Wisconsin-Eau Claire. Olivia Marie Bernauer (she/her/hers)- University of Wisconsin - Kinsley Faith Bush; Orlean Alam; Olivia Marie Bernauer (she/her/hers)
9:00 AM - 5:00 PM Pacific: Wild bee foraging and movement behavior in urban gardens. Presenting Author: Claire Crowther- Providence College. Rachael Bonoan- Providence College - Claire Crowther; Rachael Bonoan

Title: Early Career Professionals (ECP) Committee Meeting

Time: **10:00 AM - 11:00 AM** Pacific
Location: Oregon Convention Center, G130, OCC
Organizers: Meaghan-Li Mcardle- Entomological Society of America; Stacie East, Esq., CAE- Entomological Society of America
Categories: Meetings & Events; Committee Meeting; Early Career
Tracks: Meetings & Events; Committee Meeting; Early Career

Title: Grad 10-min Competition: FIT, General

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C125-126, OCC

Organizers:
Categories: Student 10-Minute Presentation Competition; Formal and Informal Teaching; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Formal and Informal Teaching; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Bridging formal and informal education pathways to strengthen entomology recruitment. Presenting Author: Alexander Maxwell Butcher- Oregon State University - Alexander Maxwell Butcher
10:42 AM - 10:54 AM Pacific: Earthworms versus apple worms: Assessing college student misconceptions and growth in an introductory entomology course. Presenting Author: Samantha Hittson- Oklahoma State University. Melissa Lynn Reed- Oklahoma State University. Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University - Samantha Hittson; Melissa Lynn Reed; Wyatt Wyatt Hoback (he/him/his)
10:54 AM - 11:06 AM Pacific: From practice to insight: Evaluating impacts of student-led fit activities without the red tape. Presenting Author: Victoria Pickens (she/her/hers)- Kansas State University. Cassandra Olds- Kansas State University. Brenna L. Decker- Purdue University - Victoria Pickens (she/her/hers); Cassandra Olds; Brenna L. Decker
11:06 AM - 11:18 AM Pacific: Learning with leps: Igniting curiosity with real science in the classroom. Presenting Author: Christopher Brown (he/him/his)- Michigan State University. Peter White- Michigan State University. Eva Conley- Michigan State University - Christopher Brown (he/him/his); Peter White; Eva Conley
11:18 AM - 11:30 AM Pacific: Lessons in leadership: How graduate student leadership opportunities prepare future faculty members. Presenting Author: Rachel Leigh Johnson (she/her/hers)- Kansas State University - Rachel Leigh Johnson (she/her/hers)
11:30 AM - 11:42 AM Pacific: Precision entomology education: Using AI to engineer individualized learning experiences. Presenting Author: Rebecca P. Barone (she/her/they/them/o ia)- University of Hawaii - Rebecca P. Barone (she/her/they/them/o ia)
11:42 AM - 11:54 AM Pacific: The beetle project: Transforming student perceptions through insect-based science education. Presenting Author: Simran Bawa- University of California. Caroline Williams- UC Berkeley. Karen Draney- UC Berkeley. Anastasia Thanukos- UC Museum of Palentology. Nicoline Chambers- Torrance High School - Simran Bawa; Caroline Williams; Karen Draney; Anastasia Thanukos; Nicoline Chambers

Title: Grad 10-min Competition: PBT, Behavior

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, F149, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Bugged by bacteria: Factors influencing Schistocerca locust and grasshopper microbiome composition. Presenting Author: Serena Farrell- Texas A&M University. Gregory Sword- Texas A&M University. Spencer Behmer- Texas A&M University - Serena Farrell; Gregory Sword; Spencer Behmer
10:42 AM - 10:54 AM Pacific: Chemical mechanisms of mate choice copying in Drosophila melanogaster. Presenting Author: Bloo F. Mitchell (they/them/theirs)- University of Memphis. Osaretin Asemota- The University of Memphis. Daja Key- The University of Memphis. Nicolette Luna- The University of Memphis. Riddhi Patel- Christian Brothers University. Philip Kohlmeier- University of Memphis - Bloo F. Mitchell (they/them/theirs); Osaretin Asemota; Daja Key; Nicolette Luna; Riddhi Patel; Philip Kohlmeier
10:54 AM - 11:06 AM Pacific: Decision making on the go: Directional group decision-making amid navigational challenges in Oecophylla smaragdina. Presenting Author: Anoushka Dasgupta- Arizona State University. Theodore Pavlic (he/him/his)- Arizona State University - Anoushka Dasgupta; Theodore Pavlic (he/him/his)
11:06 AM - 11:18 AM Pacific: Diapause in Brazilian Tetranychus urticae populations: Morphological, behavioral, and metabolic markers. Presenting Author: Julia Ferla- University of So Paulo. Francisco Silva- University of So Paulo. Raphael Castilho- University of So Paulo. Fernando L. Cnsoli- University of So Paulo - Julia Ferla; Francisco Silva; Raphael Castilho; Fernando L. Cnsoli
11:18 AM - 11:30 AM Pacific: Experimental evaluation of metarhizium-treated baits as a biological control strategy against locusts. Presenting Author: Neema John- Arizona State University. Mario Poot- Yucatan Plant Health. Roberth peniche- Yucatan Plant Health. Rick Overson- Arizona State University. Sydney Millerwise

(she/her/hers)- Arizona State University. Stefan Jaronski- United States Department of Agriculture. Arianne Cease- Arizona State University - Neema John; Mario Poot; Roberth peniche; Rick Overson; Sydney Millerwise (she/her/hers); Stefan Jaronski; Arianne Cease
11:30 AM - 11:42 AM Pacific: Investigating the influence of fruit dwelling microbes on mosquito attraction. Presenting Author: Melissa Leon Norena- University of Washington. Jeff Riffell- University of Washington - Melissa Leon Norena; Jeff Riffell
11:42 AM - 11:54 AM Pacific: Laboratory optimization of attractive targeted sugar baits for sustainable mosquito population reduction. Presenting Author: Xixian Ng- University of Nebraska-Lincoln. Ellis Johnson- Eurofins Agroscience Services. Leslie Rault- University of Nebraska-Lincoln. Troy Anderson- University of Nebraska-Lincoln - Xixian Ng; Ellis Johnson; Leslie Rault; Troy Anderson
11:54 AM - 12:06 PM Pacific: Mechanisms underlying the repellent efficacy of 20 essential oils against Anopheles mosquitoes. Presenting Author: Minh Nguyet Nguyen- Johns Hopkins University. Julia Johnson- Johns Hopkins University. Inioluwa Olaleye- Towson University. Christopher Potter (he/him/his)- Johns Hopkins University School of Medicine - Minh Nguyet Nguyen; Julia Johnson; Inioluwa Olaleye; Christopher Potter (he/him/his)
12:06 PM - 12:18 PM Pacific: The weight of royal jelly: Understanding the role of major royal jelly proteins as regulators of geotaxis. Presenting Author: Stephanie Renee Hathaway- Purdue University. Vikki Weake- Purdue University. Brock Harpur- Purdue University - Stephanie Renee Hathaway; Vikki Weake; Brock Harpur
12:18 PM - 12:30 PM Pacific: Tissue-specific expression of NPC genes in response to dietary sterols in the desert locust. Presenting Author: Ruixin Wei- Texas A&M University. Spencer Behmer- Texas A&M University. Keyan Zhu Salzman- Texas A&M University. Gregory Sword- Texas A&M University. Hojun Song- Texas A&M University - Ruixin Wei; Spencer Behmer; Keyan Zhu Salzman; Gregory Sword; Hojun Song

Title: Grad 10-min Competition: PBT, General

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, F152, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Adaptive biomass breakdown in the leafcutter ant-fungus symbiosis. Presenting Author: Julianne Dessert- University of Texas - Julianne Dessert
10:42 AM - 10:54 AM Pacific: Characterising amino acid transporters in aphid endosymbiosis. Presenting Author: Veronika Pavlasova- Newcastle University - Veronika Pavlasova
10:54 AM - 11:06 AM Pacific: Gossypol detoxification by UDP-glycosyltransferase in Helicoverpa zea. Presenting Author: Sujin Lee- Mississippi State University - Sujin Lee
11:06 AM - 11:18 AM Pacific: Metal accumulation in benthic macroinvertebrates from watersheds affected by the 2021 Dixie Fire. Presenting Author: William Askea- California State University. Donald G. Miller, III, Ph.D.- California State University - William Askea; Donald G. Miller, III, Ph.D.
11:18 AM - 11:30 AM Pacific: Rearing conditions alter host and microbial detoxification pathways in the coffee berry borer (Hypothenemus hampei) (Coleoptera: Curculionidae: Scolytinae). Presenting Author: Lynn J. Bonomo- Northern Arizona University. Dishant Patel- Northern Arizona University. William Wagner- Northern Arizona University. Adam Vannett- Northern Arizona University. Matthew Heidenblut- Northern Arizona University. Marie Fredenberg- Northern Arizona University. Mark Wright- University of Hawaii. Javier Ceja-Navarro- Northern Arizona University - Lynn J. Bonomo; Dishant Patel; William Wagner; Adam Vannett; Matthew Heidenblut; Marie Fredenberg; Mark Wright; Javier Ceja-Navarro
11:30 AM - 11:42 AM Pacific: Some like it hot: Facultative endothermy augments symbiont-mediated antiparasitic activity in honey bees. Presenting Author: Lindsey Marie Markowitz- University of Maryland. Jessica Garbarczyk, n/a- USDA-ARS Bee Research Laboratory. Evan Palmer-Young- USDA-ARS Bee Research Laboratory. Jay Evans- USDA-ARS - Lindsey Marie Markowitz; Jessica Garbarczyk, n/a; Evan Palmer-Young; Jay Evans
11:42 AM - 11:54 AM Pacific: The influence of a juvenile hormone analog on a major royal jelly gene inApis mellifera. Presenting Author: Jumana Hayat- Rutgers University. Chloe Hawkings- Rutgers University - Jumana Hayat; Chloe Hawkings
11:54 AM - 12:06 PM Pacific: Volcanic glass, a new active for the control of tobacco thrips, Frankliniella fusca. Presenting Author: Gabriel B. Olawuyi- North Carolina State University. Reuben Garshong (he/him/his)- North Carolina State University. Grayson Cave- North Carolina State University. George Kennedy- North Carolina State University. Dominic Reisig- North Carolina State University. Loganathan Ponnusamy (he/him/his)- NC State

University. R. Michael Roe- North Carolina State University - Gabriel B. Olawuyi; Reuben Garshong (he/him/his); Grayson Cave; George Kennedy; Dominic Reisig; Loganathan Ponnusamy (he/him/his); R. Michael Roe
12:06 PM - 12:18 PM Pacific: Wolbachia-supplemented B-vitamins are essential for blood protein catabolism in the common bed bug, Cimex lectularius (Hemiptera: Cimicidae). Presenting Author: Elizabeth Wiles (she/her/hers)- North Carolina State University. Madhavi Kakumanu- North Carolina State University. Coby Schal- North Carolina State University - Elizabeth Wiles (she/her/hers); Madhavi Kakumanu; Coby Schal

Title: Grad 10-min Competition: PBT, Insecticides

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, F151, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Besides genetics and bioecological factors: Life-stage and insecticide persistence contribute to the Dalbulus maidis resistance to insecticides. Presenting Author: Pedro Vitor Camargo (he/him/his)- Luiz de Queiroz College of Agriculture (ESALQ/USP). Matheus Gerage Sacilotto- Luiz de Queiroz College of Agriculture (ESALQ/USP). Carolina Pacchioni Monteiro (she/her/hers)- University of So Paulo. Olavo Silva Braga- Luiz de Queiroz College of Agriculture (ESALQ/USP) - Pedro Vitor Camargo (he/him/his); Matheus Gerage Sacilotto; Carolina Pacchioni Monteiro (she/her/hers); Olavo Silva Braga
10:42 AM - 10:54 AM Pacific: Comparative transcriptomic analysis of pyrethroid-resistant Hypera postica (Coleoptera: Curculionidade) populations from the west USA. Presenting Author: Muhammad Umer Masood- Montana State University. Erika Rodbell- Montana State University - Muhammad Umer Masood; Erika Rodbell
10:54 AM - 11:06 AM Pacific: Enhanced toxicity of GABA-gated chloride chB36tors against resistant Drosophila melanogaster. Presenting Author: William L. Long- Virginia Polytechnic Institute and State University. Thomas Kuhar- Virginia Polytechnic Institute and State University. Aaron Gross- Virginia Polytechnic Institute and State University - William L. Long; Thomas Kuhar; Aaron Gross
11:06 AM - 11:18 AM Pacific: Molecular basis of spinosyn resistance in Spodoptera frugiperda (Lepidoptera: Noctuidae): Implications for resistance monitoring and management. Presenting Author: Carolina Pacchioni Monteiro (she/her/hers)- University of So Paulo. Antonio Rogerio Bezerra do Nascimento- University of So Paulo. Celso Omoto- University of So Paulo - Carolina Pacchioni Monteiro (she/her/hers); Antonio Rogerio Bezerra do Nascimento; Celso Omoto
11:18 AM - 11:30 AM Pacific: Quantitative trait loci linked to survival of western corn rootworm on maize producing Bacillus thuringiensis toxin Gpp34/Tpp35ab1. Presenting Author: Eliott Smith- Iowa State University. Aaron Gassmann- Iowa State University. Brad Coates- USDA-ARS - Eliott Smith; Aaron Gassmann; Brad Coates
11:30 AM - 11:42 AM Pacific: Resistance assessment of the black salt marsh mosquito throughout the state of Florida. Presenting Author: Miles McCollum- University of Florida. Daniel Perez-Ramos, PhD (he/him/his)- University of Florida. Alexandra Bauer- University of Florida. Leena Salama- University of Florida. Morgan Rockwell (she/her/hers)- University of Florida. Mattea Potter- FMEL. Eva Buckner (she/her/hers)- University of Florida. Nathan Burkett-Cadena- University of Florida. Eric Caragata, PhD- The University of Florida. Alexander reisinger- University of Florida - Miles McCollum; Daniel Perez-Ramos, PhD (he/him/his); Alexandra Bauer; Leena Salama; Morgan Rockwell (she/her/hers); Mattea Potter; Eva Buckner (she/her/hers); Nathan Burkett-Cadena; Eric Caragata, PhD; Alexander reisinger
11:42 AM - 11:54 AM Pacific: Resistance of Dalbulus maidis (Hemiptera: Cicadellidae) to methomyl: Inheritance, cross-resistance and stability. Presenting Author: Matheus Gerage Sacilotto- Luiz de Queiroz College of Agriculture (ESALQ/USP). Eduardo Perkovski Machado- Luiz de Queiroz College of Agriculture (ESALQ/USP). Gabriel Silva Dias- Luiz de Queiroz College of Agriculture (ESALQ/USP). Pedro Vitor Camargo (he/him/his)- Luiz de Queiroz College of Agriculture (ESALQ/USP). Olavo Silva Braga- Luiz de Queiroz College of Agriculture (ESALQ/USP). Celso Omoto- University of So Paulo - Matheus Gerage Sacilotto; Eduardo Perkovski Machado; Gabriel Silva Dias; Pedro Vitor Camargo (he/him/his); Olavo Silva Braga; Celso Omoto
11:54 AM - 12:06 PM Pacific: Susceptibility of the black pecan aphid populations to commonly used insecticides in Georgia. Presenting Author: Shivakumar Veerlapati (he/him/his)- University of Georgia. Rajendra Acharya (he/him/his)- University of Georgia. Madhav Koirala- University of Georgia. Apurba Barman- University of Georgia - Shivakumar Veerlapati (he/him/his); Rajendra Acharya (he/him/his); Madhav Koirala; Apurba Barman

12:06 PM - 12:18 PM Pacific: Transgenerational effects of a dsRNA-based insecticide on the Colorado potato beetle. Presenting Author: Morgan Weissner (she/her/hers)- University of Wisconsin. Russell L. Groves, PhD University of Wisconsin - Morgan Weissner (she/her/hers); Russell L. Groves, PhD
12:18 PM - 12:30 PM Pacific: Variations in target site mutation frequencies of diamondback moth ryanodine receptor in Florida and Georgia, USA, over time. Presenting Author: Thomas P. Dunn- University of Georgia. Donald Champagne- University of Georgia. David Riley- University of Georgia - Thomas P. Dunn; Donald Champagne; David Riley

Title: Grad 10-min Competition: PBT, Physiology

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, F150, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Physiology, Biochemistry, and Toxicology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Ablation of phagocytic hemocytes reduces immune responses on the heart and ameliorates the infection-induced reduction of the heart rate of mosquitoes. Presenting Author: Shabbir Ahmed (he/him/his)- Vanderbilt University. Cole Meier- Johns Hopkins University. Tania Y. Estevez-Lao- Vanderbilt University. Julin F. Hillyer- Vanderbilt University - Shabbir Ahmed (he/him/his); Cole Meier; Tania Y. Estevez-Lao; Julin F. Hillyer
10:42 AM - 10:54 AM Pacific: An exploration of uncharacterized neuropeptides in the Colorado potato beetle using RNAi. Presenting Author: Emma Terris- University of Wisconsin. Sophie Verkoulen- University of Wisconsin-Madison. Umut Toprak (he/him/his)- Ankara University. Sean Dennis Schoville- University of Wisconsin. Russell L. Groves, PhD- University of Wisconsin - Emma Terris; Sophie Verkoulen; Umut Toprak (he/him/his); Sean Dennis Schoville; Russell L. Groves, PhD
10:54 AM - 11:06 AM Pacific: Comparative analysis of olfactory adaptation in Drosophila melanogaster and Drosophila suzukii. Presenting Author: Hyemin Kim- Kyungpook National University. YeongHo Kim- Insect molecular physiolgy. Gwang Hyun Roh- Department of Plant Medicine, Gyeongsang National University. Kye Chung Park- New Zealand Institute for Plant and Food Research. Young Ho Kim- Kyungpook National University - Hyemin Kim; YeongHo Kim; Gwang Hyun Roh; Kye Chung Park; Young Ho Kim
11:06 AM - 11:18 AM Pacific: Context-dependent benefits of venom in a parasitoid-host system. Presenting Author: Shannon Rollins- University of New Mexico. Ellen Martinson- University of New Mexico - Shannon Rollins; Ellen Martinson
11:18 AM - 11:30 AM Pacific: Effects of salinity stress from de-icers on the osmoregulation of Chironomus riparius. Presenting Author: Amber Reinsborough- York University - Amber Reinsborough
11:30 AM - 11:42 AM Pacific: Identification of bioactive peptides targeting CAPA and diuretic hormone GPCRs in Drosophila suzukii using an insect cell expression system. Presenting Author: Sonu Poudel- Oregon State University. Ryssa Parks (she/her/hers)- USDA-ARS. Man-Yeon Choi- United States Department of Agriculture - Sonu Poudel; Ryssa Parks (she/her/hers); Man-Yeon Choi
11:42 AM - 11:54 AM Pacific: Manipulating vitamin B5 levels in the mosquito Anopheles stephensi to starve malaria parasites of this essential nutrient. Presenting Author: Ava Magdalyn Bartlett- Miller- University of Arizona. Brendan Riske- University of Arizona. Jun Isoe- University of Arizona. Yared Debebe- University of Idaho. Sydney Pruett- University of Idaho. Shirley Luckhart- University of Idaho. Michael Riehle- University of Arizona - Ava Magdalyn Bartlett- Miller; Brendan Riske; Jun Isoe; Yared Debebe; Sydney Pruett; Shirley Luckhart; Michael Riehle
11:54 AM - 12:06 PM Pacific: Molecular characterization of Amblyomma maculatumhema topoietic regulators in hemocyte biology. Presenting Author: Musa Rabiu, DVM- University of Southern Mississppi. Deepak Kumar- BEES, The University of Southern Mississippi. Abdulsalaam Adegoke- University of Michigan. shahid Karim- The University of Southern Mississippi - Musa Rabiu, DVM; Deepak Kumar; Abdulsalaam Adegoke; shahid Karim
12:06 PM - 12:18 PM Pacific: Understanding the significance of cuticular chitin remodeling in ticks. Presenting Author: Claire Garman- University of Nebraska. Savannah Leigh Armendariz- University of Nebraska. Faith Kozisek- University of Nebraska Medical Center. Vinai C. Thomas- University of Nebraska Medical Center. Sujata S. Chaudhari- University of Nebraska Medical Center - Claire Garman; Savannah Leigh Armendariz; Faith Kozisek; Vinai C. Thomas; Sujata S. Chaudhari

12:18 PM - 12:30 PM Pacific: What pedals the "mycangial cycle"? Evaluating hypotheses of mycangial function in ambrosia beetles and their fungi. Presenting Author: Miranda Guinevere Barnes- University of Florida. Jiri Hulcr- University of Florida - Miranda Guinevere Barnes; Jiri Hulcr

Title: Undergrad 10-min Competition: FIT, MUVE, and SysEB: Education and Outreach

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, A106, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Formal and Informal Teaching; Medical, Urban, and Veterinary Entomology; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Formal and Informal Teaching; Medical, Urban, and Veterinary Entomology; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Advocating for bees in New York City: An educational initiative. Presenting Author: Kathryn Juliet Marra- Rutgers University. Jumana Hayat- Rutgers University. Chloe Hawkings- Rutgers University - Kathryn Juliet Marra; Jumana Hayat; Chloe Hawkings
10:42 AM - 10:54 AM Pacific: Bug2School: Community research as a catalyst for environmental stewardship. Presenting Author: Joseph Caya- University of Illinois. Rose Hou- University of Illinois Urbana-Champaign. Emily Ma- University of Illinois Urbana-Champaign. Mitzi Milojkovic- University of Illinois Urbana-Champaign. Sophia Ranes- University of Illinois. Carmen Blubaugh- University of Illinois - Joseph Caya; Rose Hou; Emily Ma; Mitzi Milojkovic; Sophia Ranes; Carmen Blubaugh
10:54 AM - 11:06 AM Pacific: Enhancing entomology education by creating online resources and upgrading a teaching collection. Presenting Author: Cyrus Nielsen- Utah Valley University. Michael Rotter- Utah Valley University. Carl E. Hjelmen- Utah Valley University - Cyrus Nielsen; Michael Rotter; Carl E. Hjelmen
11:06 AM - 11:18 AM Pacific: Impacts of inclusion rates of black soldier fly, Hermetia illucens (Linnaeus), larva on the timing of thermophilic stage composting in dairy solids. Presenting Author: Grayson Stephens- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Grayson Stephens; Alexander Maxwell Butcher
11:18 AM - 11:30 AM Pacific: Insect macrophotography: Generating dynamic resources. Presenting Author: Lauren Campbell Wilson- Texas A&M University - Lauren Campbell Wilson
11:30 AM - 11:42 AM Pacific: New species of the Aphanogmus fumipennis group from New Hampshire (Hymenoptera: Ceraphronoidea). Presenting Author: Joseph Novotny- UNH. Monique Raymond (she/her/hers)- UNH. Joseph Faherty- UNH. Tobias Salden- UNH. Istvan Miko- University of New Hampshire. Owen Bastille- UNH - Joseph Novotny; Monique Raymond (she/her/hers); Joseph Faherty; Tobias Salden; Istvan Miko; Owen Bastille
11:42 AM - 11:54 AM Pacific: Outreach material to teach general audiences about insects. Presenting Author: Sydney M. Morris- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Sydney M. Morris; Alexander Maxwell Butcher
11:54 AM - 12:06 PM Pacific: Synergy for science: Teachers as effective partners. Presenting Author: Eva Conley- Michigan State University. Peter White- Michigan State University. Christopher Brown (he/him/his)- Michigan State University - Eva Conley; Peter White; Christopher Brown (he/him/his)
12:06 PM - 12:18 PM Pacific: Undergraduate opportunities in veterinary entomology and extension: REEVES REEU. Presenting Author: Jared Saufley- Oklahoma State University. Sonja Swiger- Texas A&M University. Caycen Ratliff- Mississippi State University. Emily Spaar- Texas A&M AgriLife Extension - Jared Saufley; Sonja Swiger; Caycen Ratliff; Emily Spaar
12:18 PM - 12:30 PM Pacific: Upstairs/downstairs, live and dead: Enhancing entomological science and education through integrative collections collaborations. Presenting Author: Joshua B. Kulak- Franklin & Marshall College - Joshua B. Kulak

Title: Undergrad 10-min Competition: P-IE, IPM

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Aphid attraction by aroma: The chemical ecology of crape myrtle (Lagerstroemia spp.) and crape myrtle aphid (Tinocallis kahawaluokalani). Presenting Author: Jaelyn Noel Palmer- Ashland

University. Cynthia Perkovich- Ashland University. Karla M. Addesso- Tennessee State University - Jaelyn Noel Palmer; Cynthia Perkovich; Karla M. Addesso
10:42 AM - 10:54 AM Pacific: Assessment of pyrethroid susceptibility, parasitism, and biotype variation in alfalfa weevil populations in Nebraska. Presenting Author: Alaida Mumba- University of Nebraska-Lincoln. Tanaka Murambi- University of Nebraska-Lincoln. Maeve Cavanaugh- University of Nebraska-Lincoln. Pin-Chu Lai- University of Nebraska-Lincoln - Alaida Mumba; Tanaka Murambi; Maeve Cavanaugh; Pin-Chu Lai
10:54 AM - 11:06 AM Pacific: Characterizing the inheritance of Cry2Ab2 resistance in a European corn borer (Lepidoptera: Crambidae) population from southern Minnesota. Presenting Author: Avery Witherbee- University of Minnesota. Tatum Dwyer- University of Minnesota. Fei Yang- University of Minnesota - Avery Witherbee; Tatum Dwyer; Fei Yang
11:06 AM - 11:18 AM Pacific: Estimating age through female reproductive status of southern green stink bug, Nezara viridula, for timing pest management practices. Presenting Author: Autumn Ellis- University of Florida. Lillie Rooney- University of Florida. Norman Leppla, BCE- University of Florida - Autumn Ellis; Lillie Rooney; Norman Leppla, BCE
11:18 AM - 11:30 AM Pacific: Improving beneficial insect behavior by reducing cannibalism in green lacewing larvae using operant conditioning at multiple life stages in various social settings. Presenting Author: Aidan P. Wong- Manhasset Secondary School. Leijun Chou- Manhasset Secondary School, Science Research Program - Aidan P. Wong; Leijun Chou
11:30 AM - 11:42 AM Pacific: Integration of YOLO11 into scale insect detection and quantification. Presenting Author: Lillian J. Shoemaker- University of Florida. Minor V. Solano Gutierrez- University of Florida. Adam G. Dale- University of Florida - Lillian J. Shoemaker; Minor V. Solano Gutierrez; Adam G. Dale
11:42 AM - 11:54 AM Pacific: Methyl benzoate as oviposition deterrent & repellent against spotted wing drosophila in California cherry orchards. Presenting Author: Flint Richard McGrath- University of California. Aijun Zhang- USDA-ARS IIBBL. Jhalendra Rijal (he/him/his)- University of California. Samaneh Sakaki (she/her/hers)- UC Agriculture and Natural Resources - Flint Richard McGrath; Aijun Zhang; Jhalendra Rijal (he/him/his); Samaneh Sakaki (she/her/hers)
11:54 AM - 12:06 PM Pacific: Testing Lygus hesperus color preference for use of monitoring in California strawberries. Presenting Author: Karina X. Li- California Polytechnic State University. Mohammed Aghaee- Cal Poly Strawberry Center - Karina X. Li; Mohammed Aghaee

Title: Grad 10-min Competition: P-IE, IPM 2

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Bioprospecting and characterization of bacterial extracts from Steinernema pakistanense for microbicidal and insecticidal assessment in arid agroecosystems of Rajasthan. Presenting Author: Parul Chauhan. Istkhar Rao- Assistant Professor - Parul Chauhan; Istkhar Rao
10:42 AM - 10:54 AM Pacific: Comparative efficacy of aerial and chemigation insecticide applications for managing western bean cutworm based on a two-year on-farm study. Presenting Author: Andrea Rilakovic (she/her/hers)- University of Nebraska-Lincoln. Jeffrey Golus- University of Nebraska-Lincoln. Abia Katimbo- Assistant Professor. Daran Rudnick. Breadley Fritz- Agricultural Engineer. Milo Zari- Assistant Professor. Julie Peterson- University of Nebraska-Lincoln - Andrea Rilakovic (she/her/hers); Jeffrey Golus; Abia Katimbo; Daran Rudnick; Breadley Fritz; Milo Zari; Julie Peterson
10:54 AM - 11:06 AM Pacific: Host plant resistance/tolerance to annual bluegrass weevil (Listronotus maculicolis) in turfgrass. Presenting Author: Henry Kilburn Rice- The Ohio State University. Shaohui Wu- The Ohio State University - Henry Kilburn Rice; Shaohui Wu
11:06 AM - 11:18 AM Pacific: Judicious cultivar selection and exogenous exposure to the spatial elicitor cis-jasmone improves Solanum lycopersicum deterrence to Tuta absoluta. Presenting Author: Julius Okwomi Olumeh- Newcastle University. Kevin Ochwedo- University of Idaho. Wilfred Otambo- Maseno University. Samuel Apori- Newcastle University. Richard Mukabana- University of Nairobi. Dave George- Newcastle University. Roy Sanderson- Newcastle University. Beth Clark- Newcastle University. David kang- USDA ARS Biological Control of Insects Research Lab. Jona Ochika- Newcastle University - Julius Okwomi Olumeh; Kevin Ochwedo; Wilfred Otambo; Samuel Apori; Richard Mukabana; Dave George; Roy Sanderson; Beth Clark; David kang; Jona Ochika

11:18 AM - 11:30 AM Pacific: Lettuce germplasm resistance to western flower thrips vectors of Impatiens necrotic spot virus. Presenting Author: Tennyson Bilinkhinyu Nkhoma (he/him/his)- University of Florida. Julien Beuzelin- University of Florida. Germn Sandoya- University of Florida. De-Fen Mou (she/her/hers)- University of Florida - Tennyson Bilinkhinyu Nkhoma (he/him/his); Julien Beuzelin; Germn Sandoya; De-Fen Mou (she/her/hers)
11:30 AM - 11:42 AM Pacific: Multi-state evaluation of the performance of non-neonicotinoid management programs for potato virus Y in seed potato. Presenting Author: Claire Schloemer (she/her/hers)- University of Wisconsin. Scott Chapman- University of Wisconsin-Madison. Benjamin Bradford- University of Wisconsin. Tim Waters- Washington State University. Brian Nault- Cornell University. Andrei Alyokhin- University of Maine. Zsofia Szendrei- Michigan State University. Russell L. Groves, PhD- University of Wisconsin - Claire Schloemer (she/her/hers); Scott Chapman; Benjamin Bradford; Tim Waters; Brian Nault; Andrei Alyokhin; Zsofia Szendrei; Russell L. Groves, PhD
11:42 AM - 11:54 AM Pacific: Performance of non-neonicotinoid insecticide seed treatments for managing seedcorn maggot (Diptera: Anthomyiidae) in large-seeded vegetable crops. Presenting Author: Leonardo David Salgado (he/him/his)- Cornell University. Russell L. Groves, PhD- University of Wisconsin. David Owens- University of Delaware. Tim Waters- Washington State University. William Hutchison- University of Minnesota. Eric C. Burkness- MInnesota Dept. of Agriculture. Fei Yang- University of Minnesota. Brian Nault- Cornell University - Leonardo David Salgado (he/him/his); Russell L. Groves, PhD; David Owens; Tim Waters; William Hutchison; Eric C. Burkness; Fei Yang; Brian Nault
11:54 AM - 12:06 PM Pacific: Reevaluating filbertworm (Cydia latiferreana) phenology: Implications for management in Willamette Valley orchards. Presenting Author: Natalie Renee Lareau- Oregon State University. Nik Wiman- Oregon State University. Erica Rudolph- FMC Corporation. Abby Dhone- Oregon State University. Austin Carey- Oregon State University - Natalie Renee Lareau; Nik Wiman; Erica Rudolph; Abby Dhone; Austin Carey
12:06 PM - 12:18 PM Pacific: Seasonal dynamics of Systena frontalis in container ornamental nurseries in Georgia. Presenting Author: Rajesh Vavilapalli- University of Georgia. Shimat Joseph- University of Georgia - Rajesh Vavilapalli; Shimat Joseph
12:18 PM - 12:30 PM Pacific: Understanding of flexibility of symbiont acquisition timing by host insect, Riptortus pedestris (Hemiptera: Alydidae), laboratory conditions. Presenting Author: Joo-Young Kim- Gachon University. Doo-Hyung Lee- Department of Life Sciences, Gachon University, South Korea. Jung-Wook Kho - Joo-Young Kim; Doo-Hyung Lee; Jung-Wook Kho

Title: Grad 10-min Competition: P-IE, Parasitoids

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E145, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: A natural remedy: The parasitoid complex of outbreaking introduced satin moth (Leucoma salicis(L.)) (Lepidoptera: Erebidae) in Isle Royale National Park. Presenting Author: Emma Hans- University of Minnesota. Abigail Brett- University of Minnesota. Jessica Rootes- University of Minnesota. Brian Aukema- University of Minnesota - Emma Hans; Abigail Brett; Jessica Rootes; Brian Aukema
10:42 AM - 10:54 AM Pacific: Evaluation of a North American dryinid for biocontrol of spotted lanternfly. Presenting Author: Alexandra Johnson (she/her/hers)- University of Rhode Island. Lisa Tewksbury- University of Rhode Island. Dan Farnworth- URI Biocontrol Lab. Nick Durinzi- SUNY Syracuse. Carly M. Tribull- Farmingdale State College - Alexandra Johnson (she/her/hers); Lisa Tewksbury; Dan Farnworth; Nick Durinzi; Carly M. Tribull
10:54 AM - 11:06 AM Pacific: Exploring the abiotic and biotic factors that impact parasitism of soybean gall midge. Presenting Author: Sarah Von Gries- University of Minnesota. Amelia R. I. Lindsey- University of Minnesota. Erin W. Hodgson (she/her/hers)- Iowa State University. Anthony Justin McMechan- University of Nebraska-Lincoln. Robert L. Koch (he/him/his)- University of Minnesota - Sarah Von Gries; Amelia R. I. Lindsey; Erin W. Hodgson (she/her/hers); Anthony Justin McMechan; Robert L. Koch (he/him/his)
11:06 AM - 11:18 AM Pacific: Field surveys for native Minnesota stink bugs and dynamic host acceptance in the stink bug egg parasitoid, Trissolcus japonicus. Presenting Author: Sabrina Lascano Celis- University of Minnesota. Angie Ambourn- Minnesota Department of Agriculture-Plant Protection. George Heimpel- University Of Minnesota - Sabrina Lascano Celis; Angie Ambourn; George Heimpel
11:18 AM - 11:30 AM Pacific: Influence of host plant variety and pest management practices on diamondback moth abundance and parasitism in Florida. Presenting Author: Amanda Mei Furuya (she/her/hers)- University of

Florida. Hugh Smith- University of Florida. Julien Beuzelin- University of Florida. Silvana Moraes- University of Florida. Shinsuke Agehara- University of Florida - Amanda Mei Furuya (she/her/hers); Hugh Smith; Julien Beuzelin; Silvana Moraes; Shinsuke Agehara
11:30 AM - 11:42 AM Pacific: Non-target effects of attract and kill strategies targeting Drosophila suzukii on its parasitoid Leptopilina japonica. Presenting Author: Ryan David Baily Chave- Oregon State University. Kyoo Park- Oregon State University. Vaughn M. Walton- Oregon State University - Ryan David Baily Chave; Kyoo Park; Vaughn M. Walton
11:42 AM - 11:54 AM Pacific: Reproductive and behavioral consequences of nutritional stress on two Braconid classical biological control agents of the emerald ash borer. Presenting Author: Vanshika Jindal- Louisiana State University. Rodrigo Diaz (he/him/his)- Louisiana State University. Todd Johnson- Louisiana State University - Vanshika Jindal; Rodrigo Diaz (he/him/his); Todd Johnson
11:54 AM - 12:06 PM Pacific: Temperature and relative humidity affect the emergence and longevity of Anagyrus dactylopiid Howard (Hymenoptera: Encyrtidae). Presenting Author: Hyojin Jeong- University of Florida. Nicole Quinn- University of Florida - Hyojin Jeong; Nicole Quinn
12:06 PM - 12:18 PM Pacific: The impact of host fruit on parasitism of spotted wing drosophila (Drosophila suzukii) by Ganaspis kimorum. Presenting Author: Jay DeLacy- University of Minnesota. Mary Rogers- University of Minnesota. Eric C. Burkness- MInnesota Dept. of Agriculture - Jay DeLacy; Mary Rogers; Eric C. Burkness
12:18 PM - 12:30 PM Pacific: Under pressure: Investigating how plant water stress impacts parasitoid-host interactions. Presenting Author: Abigail Noel- Montana State University. Jessica Kansman (she/her/hers)- Montana State University - Abigail Noel; Jessica Kansman (she/her/hers)

Title: Grad 10-min Competition: P-IE, Behavior

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Biotremology for pest management: New solutions for stink bugs. Presenting Author: Samah El Moussaoui- University of Trento. Valerio Mazzoni- Fondazione Edmund Mach (Edmund Mach Foundation). Gianfranco Anfora- C3A - University of Trento - Samah El Moussaoui; Valerio Mazzoni; Gianfranco Anfora
10:42 AM - 10:54 AM Pacific: Can the attraction of D. simplex to seudenol be interrupted by MCH?. Presenting Author: Ian Dean Grossenbacher-McGlamery- University of Minnesota. Brian Aukema- University of Minnesota. Brian Sullivan- USDA Forest Service - Ian Dean Grossenbacher-McGlamery; Brian Aukema; Brian Sullivan
10:54 AM - 11:06 AM Pacific: Comparing mushroom fly responses to spawned compost volatiles of different ages. Presenting Author: Sarah Kathryne Spence- Pennsylvania State University. Malachi Brought- Pennsylvania State University. Maddie Cunningham- Penn State University. Mike Wolfin (he/him/his)- Penn State University - Sarah Kathryne Spence; Malachi Brought; Maddie Cunningham; Mike Wolfin (he/him/his)
11:06 AM - 11:18 AM Pacific: Comparing pheromone trap types for stink bug monitoring in soybean. Presenting Author: Taynara Possebom (she/her/hers)- North Carolina State University. Dominic Reisig- North Carolina State University - Taynara Possebom (she/her/hers); Dominic Reisig
11:18 AM - 11:30 AM Pacific: Impact of trap type, fluon treatment, and lure on the collection of longhorned beetles (Coleoptera: Cerambycidae) in two forest ecosystems in subtropical southeastern Louisiana. Presenting Author: Chiranjivi Sharma- Louisiana State University. Winter Sheline- Louisiana State University. Elise Grossman (she/her/hers)- USDA ARS, Beneficial Insects Introduction Research Unit. jorge Macias- Synergy Semiochemicals Corp.. Bob Setter- Synergy Semiochemicals Corp.. Todd Johnson- Louisiana State University - Chiranjivi Sharma; Winter Sheline; Elise Grossman (she/her/hers); jorge Macias; Bob Setter; Todd Johnson
11:30 AM - 11:42 AM Pacific: Influence of intrinsic and extrinsic factors on Hemipteran feeding behavior measured using electropenetrography. Presenting Author: Ashley Zavala- Texas A&M University. Thomas Chappell- Texas A&M University. Timothy Martin- Texas A&M University. Annette Sauceda Padron- Texas A&M University - Ashley Zavala; Thomas Chappell; Timothy Martin; Annette Sauceda Padron
11:42 AM - 11:54 AM Pacific: Spectral preferences of arthropods: Behavioral responses to led lighting. Presenting Author: Yuna Gaire- University of Georgia. Erich Schoeller- University of Georgia. Rhuanito S. Ferrarezi- University of Georgia - Yuna Gaire; Erich Schoeller; Rhuanito S. Ferrarezi
11:54 AM - 12:06 PM Pacific: Testing repellents on the striped cucumber beetle Acalymma vittatum. Presenting Author: Rowda Altamimi (she/her/hers)- Pennsylvania State University. Michael Wolfin- Pennsylvania State

University. Monica Kersch-Becker- Pennsylvania State University - Rowda Altamimi (she/her/hers); Michael Wolfin; Monica Kersch-Becker
12:06 PM - 12:18 PM Pacific: Tracking Mormon crickets: A multi-scale study of behavior and control. Presenting Author: Li Murphy- Yale School of the Environment - Li Murphy
12:18 PM - 12:30 PM Pacific: Using QR-tracking and a vibrometry device to explore sublethal effects of thiamethoxam on bumble bee foraging behavior. Presenting Author: Marie Muniz- Pennsylvania State University. Kelly Bennett- Pennsylvania State University. Rebekah H. Whiteman- Pennsylvania State University. Laurence Still- University of Wisconsin. Alex Arovas- University of Wisconsin. Emily Bick- University of Wisconsin. Margarita Lopez-Uribe- Pennsylvania State University. Heather Grab (she/her/hers)- Pennsylvania State University - Marie Muniz; Kelly Bennett; Rebekah H. Whiteman; Laurence Still; Alex Arovas; Emily Bick; Margarita Lopez-Uribe; Heather Grab (she/her/hers)

Title: Grad 10-min Competition: P-IE, Pollinators 1

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Assessing local and landscape drivers of pesticide risk to a native ground-nesting bee (Xenoglossa pruinosa). Presenting Author: Leeah I. Richardson- University of Texas. Hannah Gray- Texas Parks and Wildlife Department. Nicholas Ivers- University of Texas Rio Grande Valley. Felicity Muth- University of Nevada, Reno. Shalene Jha (she/her/hers)- University of Texas - Leeah I. Richardson; Hannah Gray; Nicholas Ivers; Felicity Muth; Shalene Jha (she/her/hers)
10:42 AM - 10:54 AM Pacific: Cost-power tradeoffs in pollinator resource methodology: A simulation-based assessment. Presenting Author: Virginia E. Roberts (she/her/hers)- University of Minnesota. Daniel P. Cariveau- University of Minnesota - Virginia E. Roberts (she/her/hers); Daniel P. Cariveau
10:54 AM - 11:06 AM Pacific: Differential responses of fly and bee communities to restoration status, floral density, and grasshopper density in northeastern Montana. Presenting Author: Malia Miliani Naumchik- Montana State University. Sarah Lane- Montana State University. Justin Runyon- Rocky Mountain Research Station, USDA Forest Service. Laura Burkle- Montana State University - Malia Miliani Naumchik; Sarah Lane; Justin Runyon; Laura Burkle
11:06 AM - 11:18 AM Pacific: Modeling wild bee functional trait responses to landscape structure in agricultural landscapes. Presenting Author: Emily A. Pearson- University of California. Eric Lonsdorf- Emory University. Neal M. Williams- University of California - Emily A. Pearson; Eric Lonsdorf; Neal M. Williams
11:18 AM - 11:30 AM Pacific: Native bee presence, abundance, and phenology in Georgia sod production farms. Presenting Author: Zia Valerie Williamson- University of Georgia. Shimat Joseph- University of Georgia - Zia Valerie Williamson; Shimat Joseph
11:30 AM - 11:42 AM Pacific: Pollinators need not apply: Arthropods contribute little to pollination of American elderberry (Sambucus nigra subsp.canadensis). Presenting Author: Jenny Kate Burrow- Missouri State University. Katelin Meek- Missouri State University. Anthony Moth T. Castagna- Missouri State University. James Bynum- Missouri State University. Caleb O'Neal- University of Missouri. Andrew Thomas- University of Missouri. Avery Russell- Missouri State University - Jenny Kate Burrow; Katelin Meek; Anthony Moth T. Castagna; James Bynum; Caleb O'Neal; Andrew Thomas; Avery Russell
11:42 AM - 11:54 AM Pacific: Spatiotemporal dynamics of flower-visitor networks in the southern Western Ghats. Presenting Author: Manish Ravi- Indian Institute of Science Education and Research. Sachin Bhaskar- School of Biology, Indian Institute of Science Education and Research Thiruvananthapuram. Ingolf Steffan-Dewenter- Biocenter, Julius-Maximilians-University Wuerzburg. Ricarda Scheiner- Biocenter, Julius-Maximilians-University Wuerzburg. Hema Somanathan- Indian Institute of Science Education and Research - Manish Ravi; Sachin Bhaskar; Ingolf Steffan-Dewenter; Ricarda Scheiner; Hema Somanathan
11:54 AM - 12:06 PM Pacific: The effects of herbivory on the reproduction of a solitary bee. Presenting Author: Anna Goates- Utah State University. Lindsie McCabe- USDA-ARS. Moria Robinson- Utah State University - Anna Goates; Lindsie McCabe; Moria Robinson
12:06 PM - 12:18 PM Pacific: The effects of Indigenous intercropping on pollinator visitation and floral volatiles inCucurbita pepo. Presenting Author: Nina Garcia Devine (she/her/hers)- Pennsylvania State University. Monica Kersch-Becker- Pennsylvania State University - Nina Garcia Devine (she/her/hers); Monica Kersch-Becker

12:18 PM - 12:30 PM Pacific: The impact of Quebec cranberry agricultural practices on wild pollinator diversity. Presenting Author: Samantha Dizon (she/her/hers)- McGill University. Jessica Gillung (she/her/hers)- McGill University - Samantha Dizon (she/her/hers); Jessica Gillung (she/her/hers)

Title: Grad 10-min Competition: P-IE, Biodiversity

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: A blow-by-blow account of blow fly diversity in agricultural Windsor-Essex. Presenting Author: Anna K. Monson- University of Windsor. Sherah VanLaerhoven, BCE- University of Windsor - Anna K. Monson; Sherah VanLaerhoven, BCE
10:42 AM - 10:54 AM Pacific: Bridging biosecurity and biodiversity: Enhancing psyllid (Hemiptera: Psylloidea) surveillance across Australian citrus landscapes. Presenting Author: Michael Louis Edwards, PhD- La Trobe University. Mark Blacket- La Trobe University / Agriculture Victoria Research. Brendan Rodoni- Agriculture Victoria Research. Jessica Lye- Citrus Australia Ltd.. Francesco Martoni- Agriculture Victoria Research - Michael Louis Edwards, PhD; Mark Blacket; Brendan Rodoni; Jessica Lye; Francesco Martoni
10:54 AM - 11:06 AM Pacific: Evaluating impacts of management practices on soil-associated arthropods in northwestern Washington potato-based systems. Presenting Author: Adriana Barsan (they/them/theirs)- Washington State University. Deirdre Griffin LaHue- Washington State University. Gabriel LaHue- Washington State University. Gina Marie Angelella- USDA-ARS. Elizabeth Murray- Washington State University. Louis Nottingham- Washington State University - Adriana Barsan (they/them/theirs); Deirdre Griffin LaHue; Gabriel LaHue; Gina Marie Angelella; Elizabeth Murray; Louis Nottingham
11:06 AM - 11:18 AM Pacific: Evaluating the influences of straw mulch on the biodiversity of ground beetle (Coleoptera: Carabidae) communities in potato fields across Idaho. Presenting Author: Andreas Vargas- University of Idaho. Armando Falcon-Brindis (he/him/his)- University of Idaho - Andreas Vargas; Armando Falcon-Brindis (he/him/his)
11:18 AM - 11:30 AM Pacific: Evaluating the role of cut flowers in shaping insect abundance and distribution in high tunnels. Presenting Author: Mst Salma Akter- University of Illinois. Kacie Athey- University of Illinois - Mst Salma Akter; Kacie Athey
11:30 AM - 11:42 AM Pacific: Hoverflies in high tunnel systems: Species richness, seasonal patterns, and landscape influence. Presenting Author: Allison Jihad Zablah- Purdue University. Laura Ingwell (she/her/hers)- Purdue University - Allison Jihad Zablah; Laura Ingwell (she/her/hers)
11:42 AM - 11:54 AM Pacific: Insect biodiversity assessment in organic orchards using taxonomy and metabarcoding. Presenting Author: Phillip Callahan- University of California. Andrea Joyce- University of California. Toxtli Huitzilopochtli- UC Merced. Michael Gates (he/him/his)- USDA, ARS, SEL - Phillip Callahan; Andrea Joyce; Toxtli Huitzilopochtli; Michael Gates (he/him/his)
11:54 AM - 12:06 PM Pacific: Non-target responses to Mormon cricket control measures in southwestern Idaho. Presenting Author: Calla Sopko- Smithsonian Institute. Olivia Lucas- Colorado State University. Laura Burkle- Montana State University. Ellen Welti (she/her/hers)- Smithsonian Institute - Calla Sopko; Olivia Lucas; Laura Burkle; Ellen Welti (she/her/hers)
12:06 PM - 12:18 PM Pacific: Recruiting beneficial insects to high tunnel tomatoes using supplemental floral resources. Presenting Author: Robert Grosdidier- Purdue University. Laura Ingwell (she/her/hers)- Purdue University - Robert Grosdidier; Laura Ingwell (she/her/hers)
12:18 PM - 12:30 PM Pacific: Supporting natural pest control in hemp with native wildflowers. Presenting Author: Ivy Nicola Thweatt- Alabama State University. Junhuan Xu- Alabama State University. Muhammad Saleem- Alabama State Univeristy. Olufemi Ajayi (he/him/his)- Alabama State University - Ivy Nicola Thweatt; Junhuan Xu; Muhammad Saleem; Olufemi Ajayi (he/him/his)

Title: Grad 10-min Competition: P-IE, Pollinators 2

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student

Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: An "audit" of mason bee shipments for quality and potential contaminants. Presenting Author: Dante J. Centuori (he/him/his)- The Ohio State University. James P. Strange, PhD- The Ohio State University - Dante J. Centuori (he/him/his); James P. Strange, PhD
10:42 AM - 10:54 AM Pacific: Evaluating the response of native sagebrush bee communities to invasive grasses. Presenting Author: Lauren Gramberg- Oregon State University. Jim Rivers- Oregon State University. Jon Dinkins- Oregon State University - Lauren Gramberg; Jim Rivers; Jon Dinkins
10:54 AM - 11:06 AM Pacific: Examining the impacts of climate change on floral nutritional quality for pollinators. Presenting Author: Lauren Baugus- Mississippi State University. Priya Chakrabarti Basu (she/her/hers)- Washington State University. Raju Bheemanahalli- Mississippi State University - Lauren Baugus; Priya Chakrabarti Basu (she/her/hers); Raju Bheemanahalli
11:06 AM - 11:18 AM Pacific: Grazing for pollinators: The effects of grazing management on plant-pollinator networks and bee nesting habitat. Presenting Author: Emma Greenlee- Kansas State University. Ellen Welti (she/her/hers)- Smithsonian Institute. Zak Ratajczak- Kansas State University. Joshua Campbell- USDA-ARS - Emma Greenlee; Ellen Welti (she/her/hers); Zak Ratajczak; Joshua Campbell
11:18 AM - 11:30 AM Pacific: Insect pollinator population response to bobwhite habitat management in Kansas and Missouri. Presenting Author: Skylar Gillies- University of Kentucky. Codey Mathis (she/they)- Pennsylvania State University. Jess McGuire- Pheasants Forever and Quail Forever. Sybil Gotsch- University of Kentucky. Nathan Haan- University of Kentucky. Steven Price- University of Kentucky. Darin J. McNeil, Jr. (he/him/his)- University of Kentucky - Skylar Gillies; Codey Mathis (she/they); Jess McGuire; Sybil Gotsch; Nathan Haan; Steven Price; Darin J. McNeil, Jr. (he/him/his)
11:30 AM - 11:42 AM Pacific: Native bees forage extensively on nonnative plants in fragmented wetlands. Presenting Author: Jen Schlauch Saiyawong (she/her/hers)- University of California. Tobin Hammer- University of California, Irvine. Kristal M. Watrous (she/her/hers)- University of California Irvine - Jen Schlauch Saiyawong (she/her/hers); Tobin Hammer; Kristal M. Watrous (she/her/hers)
11:42 AM - 11:54 AM Pacific: Plant and insect traits jointly mediate flower visitation patterns. Presenting Author: Hunter Messick- University of North Texas. Elinor Lichtenberg- University of North Texas - Hunter Messick; Elinor Lichtenberg
11:54 AM - 12:06 PM Pacific: Poking pollination networks: A process-driven approach to investigating network rewiring. Presenting Author: Anne Colgan- University of Washington. Kaysee Arrowsmith- University of Texas. Manogya Chandar- University of Washington. Sabine Dritz- University of California Davis. Enya Guzman- California State University Monterey Bay. Peyton Jones- University of Washington. Mark Novak- Oregon State University. Berry Brosi- University of Washington - Anne Colgan; Kaysee Arrowsmith; Manogya Chandar; Sabine Dritz; Enya Guzman; Peyton Jones; Mark Novak; Berry Brosi
12:06 PM - 12:18 PM Pacific: Pollinator attraction and efficacy vary among chili pepper varieties. Presenting Author: James Franklin Haas- Colorado State University. Micky Eubanks- Colorado State University - James Franklin Haas; Micky Eubanks
12:18 PM - 12:30 PM Pacific: Seasonal variation in nutritional preference in a ground nesting bee. Presenting Author: Elizabeth Reyes Gallegos (she/her/hers)- University of California. Red Chang- University of California, Davis. Neal M. Williams- University of California. Lucia Weinman (she/her/hers)- University of California - Elizabeth Reyes Gallegos (she/her/hers); Red Chang; Neal M. Williams; Lucia Weinman (she/her/hers)

Title: Grad 10-min Competition: P-IE, Predators

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D137-138, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Oxycarenus hyalinipennis: Newly described cotton seed bug predators. Presenting Author: Theodore L. Adams- University of California. Mark Hoddle, Ph.D. D.Sc. (he/him/his)- University of California. Christina Hoddle (she/her/hers)- University Of California Riverside - Theodore L. Adams; Mark Hoddle, Ph.D. D.Sc. (he/him/his); Christina Hoddle (she/her/hers)
10:42 AM - 10:54 AM Pacific: Developing management strategies for Bulimulus bonariensis using predatory snails and row crop natural enemies. Presenting Author: Kathi Lorraine Malfa- University of Florida - Kathi Lorraine Malfa

10:54 AM - 11:06 AM Pacific: Environmental factors shaping generalist ground beetle communities and populations of associated slug prey. Presenting Author: Thabu Mugala- University of Delaware. David Owens- University of Delaware. Michael Crossley (he/him/his)- University of Delaware - Thabu Mugala; David Owens; Michael Crossley (he/him/his)
11:06 AM - 11:18 AM Pacific: Integrated disease and vector management of alfalfa mosaic virus in Chile peppers. Presenting Author: Lara Maria Amiri-Kazaz- Colorado State University. Adrianna Szczepaniec- Colorado State University. Punya Nachappa- Colorado State University. Michael Bartolo- Colorado State University. Ana Pastrana- UC Agriculture and Natural Resources. Oleg Daugovish- UC Agriculture and Natural Resources - Lara Maria Amiri-Kazaz; Adrianna Szczepaniec; Punya Nachappa; Michael Bartolo; Ana Pastrana; Oleg Daugovish
11:18 AM - 11:30 AM Pacific: It's not just aphids that get nervous: The effects of predator odor cues on aphid parasitism. Presenting Author: Ayax Del Valle (he/him/his)- Montana State University. Jessica Kansman (she/her/hers)- Montana State University. Sara Hermann- Pennsylvania State University - Ayax Del Valle (he/him/his); Jessica Kansman (she/her/hers); Sara Hermann
11:30 AM - 11:42 AM Pacific: Life-stage specific predatory efficiency of two generalist predators ofBemisia tabaci(Gennadius) on contrasting vegetable host plants. Presenting Author: Itohan Aigbedion-Atalor (she/her/hers)- University of Georgia. Alvin Simmons- USDA-ARS. Jason Schmidt- University of Georgia - Itohan Aigbedion-Atalor (she/her/hers); Alvin Simmons; Jason Schmidt
11:42 AM - 11:54 AM Pacific: Podisus maculiventris Say pest age-specific predator preference. Presenting Author: Anjana Duwal (she/her/hers)- Louisiana State University. Jeffrey Davis- Louisiana State University - Anjana Duwal (she/her/hers); Jeffrey Davis
11:54 AM - 12:06 PM Pacific: Predator-prey interactions between Pterostichus melanarius and Sitona lineatus: Implications for conservation biological control. Presenting Author: Maggie MacDonald- University of Alberta. Chulantha Diyes- University of Alberta. Maya Evenden (she/her/hers)- University of Alberta. Boyd Mori- University of Alberta - Maggie MacDonald; Chulantha Diyes; Maya Evenden (she/her/hers); Boyd Mori
12:06 PM - 12:18 PM Pacific: The impact of predator diversity and phenology on alfalfa weevil suppression. Presenting Author: Luis Alberto Ochoa Cadena (he/him/his)- New Mexico State University. Ricardo Ramirez (he/him/his)- New Mexico State University - Luis Alberto Ochoa Cadena (he/him/his); Ricardo Ramirez (he/him/his)
12:18 PM - 12:30 PM Pacific: The influence of prey availability on predator-prey food webs in high tunnels. Presenting Author: Eleanor L. Meys- University of Illinois. Kacie Athey- University of Illinois - Eleanor L. Meys; Kacie Athey

Title: Grad 10-min Competition: P-IE, Vectors

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Endoplasmic reticulum (ER)-associated interactions between Candidatus Liberibacter solanacearum and its carrot psyllid vector Bactericera trigonica. Presenting Author: Ola Jassar- Hebrew University of Jerusalem. Murad Ghanim- Agricultural Research Organization - Ola Jassar; Murad Ghanim
10:42 AM - 10:54 AM Pacific: Evaluation of trunk-injected antibiotics for huanglongbing management in citrus. Presenting Author: Esmeralda Martinez (she/her/hers)- University of Florida. Erik Roldan (he/him/his)- Corteva Agriscience. Kirsten Pelz-Stelinski (she/her/hers)- University of Florida. Lauren Diepenbrock- University of Florida. Lukasz Stelinski- University of Florida - Esmeralda Martinez (she/her/hers); Erik Roldan (he/him/his); Kirsten Pelz-Stelinski (she/her/hers); Lauren Diepenbrock; Lukasz Stelinski
10:54 AM - 11:06 AM Pacific: Identification and characterization of animal-infecting Bunyavirales members within an herbivorous thrips species. Presenting Author: Vamsidhar Reddy Netla- University of Georgia. Mark Abney- University of Georgia. Sudeep Bag- University of Georgia. Rajagopalbabu Srinivasan (he/him/his)- University of Georgia - Vamsidhar Reddy Netla; Mark Abney; Sudeep Bag; Rajagopalbabu Srinivasan (he/him/his)
11:06 AM - 11:18 AM Pacific: Interference of potato virus Y transmission by aphids using small peptide inhibitors. Presenting Author: Josie Nicole Weese- Colorado State University. Vamsi Nalam- Colorado State University. Jinlong Han- Colorado State University - Josie Nicole Weese; Vamsi Nalam; Jinlong Han
11:18 AM - 11:30 AM Pacific: Malvastrum bright yellow mosaic virus is transmitted by Bemisia tabaci MEAM1 and it infects cotton and tomato in addition to Malvastrum. Presenting Author: Ghislaine Bourjolly- Texas A&M University. Mamoudou Setamou- Texas A&M University-Kingsville Citrus Center. Jodi Scheffler- USDA-ARS.

Olufemi Alabi- Texas A&M University System - Ghislaine Bourjolly; Mamoudou Setamou; Jodi Scheffler; Olufemi Alabi
11:30 AM - 11:42 AM Pacific: Microbial endosymbionts in wheat curl mites: Are they critical for mite survival and virus transmission?. Presenting Author: Nikhitha Gangavarapu- University of Nebraska-Lincoln. Shaonpius Mondal- University of Nebraska-Lincoln - Nikhitha Gangavarapu; Shaonpius Mondal
11:42 AM - 11:54 AM Pacific: Molli-CUTES vs. microbiota: Rewilding maize to resist corn stunt disease. Presenting Author: Rashmi Singla- Texas A&M University. Claire Sasaki- Texas A&M University. Dmitry Kurouski- Texas A&M University. Julio Bernal- Texas A&M University. Sanjay Antony-Babu- Texas A&M University - Rashmi Singla; Claire Sasaki; Dmitry Kurouski; Julio Bernal; Sanjay Antony-Babu
11:54 AM - 12:06 PM Pacific: Pour some sugar on me: Mosquito sugar-feeding on endemic plants of Puerto Rico. Presenting Author: Ella Branham- University of Southern Mississippi. Mary Beard- UGA Savannah River Ecology Laboratory. Mac H. Alford- University of Southern Mississippi. Dan Peach- University of Georgia. Danica M. Shannon- University of Georgia. Donald A. Yee (he/him/his)- University of Southern Mississippi - Ella Branham; Mary Beard; Mac H. Alford; Dan Peach; Danica M. Shannon; Donald A. Yee (he/him/his)
12:06 PM - 12:18 PM Pacific: The effect of iris yellow spot virus on onion thrips abundance and fecundity. Presenting Author: Eileen Froshiesar- Oregon State University - Eileen Froshiesar

Title: Grad 10-min Competition: P-IE, Chemical Ecology 2

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E146, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Determining the active space of verbenone as a repellent for the management of non-native ambrosia beetles. Presenting Author: Delaney Jones- Purdue University. Matthew Ginzel- Purdue University - Delaney Jones; Matthew Ginzel
10:42 AM - 10:54 AM Pacific: Disrupting fruit-damaging behavior of spotted-wing drosophila (Diptera: Drosophilidae) in blueberry with volatile blends. Presenting Author: Ho Jung Yoon (she/her/hers)- Oregon State University. Serhan Mermer- Oregon State University. xinyu Li- Oregon State University. Lan Xue- Oregon State University. Ryan David Baily Chave- Oregon State University. Ryan Turner (he/him/his)- Oregon State University. Chisom Irene Molokwu- Oregon State University. Vaughn M. Walton- Oregon State University - Ho Jung Yoon (she/her/hers); Serhan Mermer; xinyu Li; Lan Xue; Ryan David Baily Chave; Ryan Turner (he/him/his); Chisom Irene Molokwu; Vaughn M. Walton
10:54 AM - 11:06 AM Pacific: Feeding under the radar: A gall-inducing pest of brassica vegetables may reprogram host transcriptomes to manipulate defense. Presenting Author: Robert Witkowski- Pennsylvania State University. Yolanda Chen (she/her/hers)- University of Vermont. Tanya Renner- The Pennsylvania State University. John Tooker- Pennsylvania State University - Robert Witkowski; Yolanda Chen (she/her/hers); Tanya Renner; John Tooker
11:06 AM - 11:18 AM Pacific: Forever chemicals influence on plant chemistry and herbivore performance. Presenting Author: Peiyun Chen- Pennsylvania State University. Jared Ali- Pennsylvania State University. Elizabeth Wagner- Pennsylvania State University - Peiyun Chen; Jared Ali; Elizabeth Wagner
11:18 AM - 11:30 AM Pacific: Identifying chemical repellents for wheat stem sawfly: Insights from host plant volatile analysis. Presenting Author: Kaelin Smith (she/her/hers)- Montana State University. Megan Hofland- Montana State University. David Weaver (he/him/his)- Montana State University. Jason Cook- Montana State University. Jessica Kansman (she/her/hers)- Montana State University. Tiziana Oppedisano (she/her/hers)- Montana State University - Kaelin Smith (she/her/hers); Megan Hofland; David Weaver (he/him/his); Jason Cook; Jessica Kansman (she/her/hers); Tiziana Oppedisano (she/her/hers)
11:30 AM - 11:42 AM Pacific: Spotted lanternfly herbivory activates grapevine defense responses. Presenting Author: Sukhman Singh- Pennsylvania State University. Flor Acevedo- The Pennsylvania State University - Sukhman Singh; Flor Acevedo
11:42 AM - 11:54 AM Pacific: Thebmr-12mutation in sorghum (Sorghum bicolor) differentially affects plant defense traits and decreases establishment and activity of sugarcane aphid (Melanaphis sacchari). Presenting Author: Alejandro Rafael Vasquez Marcano, M.S.- University of Arkansas. Rupesh Kariyat- University of Arkansas. Joe Louis- University of Nebraska-Lincoln - Alejandro Rafael Vasquez Marcano, M.S.; Rupesh Kariyat; Joe Louis

11:54 AM - 12:06 PM Pacific: The fly effect: A volatile cue from the gall fly Eurosta solidaginis can induce season long changes in insect communities associated with Solidago altissima. Presenting Author: Alexela Hoyt (she/her/hers)- Pennsylvania State University. John Tooker- Pennsylvania State University - Alexela Hoyt (she/her/hers); John Tooker
12:06 PM - 12:18 PM Pacific: Using semiochemicals, trap crop and visual cues in a push-pull strategy to control whiteflies on tomato. Presenting Author: Hellenah Khunga- University of Florida. Xavier Martini- University of Florida. Oscar Liburd- University of Florida - Hellenah Khunga; Xavier Martini; Oscar Liburd
12:18 PM - 12:30 PM Pacific: Volatile organic compounds as behavioural modifiers in Hypera nigrirostris reproductive ecology. Presenting Author: Jeremy Irvine (he/him/his)- University of Saskatchewan. Sean Prager- University of Saskatchewan - Jeremy Irvine (he/him/his); Sean Prager

Title: Grad 10-min Competition: SysEB, Behavior, Genetics, and Morphology

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: A comparative analysis of transposable element diversity and evolution across 75 bee genomes. Presenting Author: Hannah Cook (she/her/hers)- Washington State University. John Sproul- Brigham Young University. Elizabeth Murray- Washington State University. Silas Bossert (he/him/his)- Washington State University - Hannah Cook (she/her/hers); John Sproul; Elizabeth Murray; Silas Bossert (he/him/his)
10:42 AM - 10:54 AM Pacific: Applied conservation genomics informs population management of the frosted elfin butterfly. Presenting Author: Taylor Pierson (she/her/hers)- University of Florida. Ivone de Bem Oliveira (she/her/hers)- University of Florida. Jaret C. Daniels, Ph.D.- University of Florida - Taylor Pierson (she/her/hers); Ivone de Bem Oliveira (she/her/hers); Jaret C. Daniels, Ph.D.
10:54 AM - 11:06 AM Pacific: Exploring the role of morphological traits in habitat selection and community assembly of aquatic insects. Presenting Author: Julia M. Renfrow- University of North Texas. Jason R. Bohenek, PhDUniversity of North Texas - Julia M. Renfrow; Jason R. Bohenek, PhD
11:06 AM - 11:18 AM Pacific: Genomic analyses of hybrids indicate chromosomal inversions reinforce structural genomic differences between fire ant species Solenopsis invicta and S. richteri. Presenting Author: Allyson Marie Dekovich- University of Tennessee. Sydney Eriksson, n/a- Hamilton College. Lydia Uptain, n/a- Unviersity of North Alabama. Margaret Staton, n/a- University of Tennessee, Knoxville. Sean Ryan- Exponent. Kenneth Ross, n/a- University of Georgia. Dewayne Shoemaker- University of Tennessee - Allyson Marie Dekovich; Sydney Eriksson, n/a; Lydia Uptain, n/a; Margaret Staton, n/a; Sean Ryan; Kenneth Ross, n/a; Dewayne Shoemaker
11:18 AM - 11:30 AM Pacific: Modulating defense: Linking threat-specific behavioral and neurogenomic responses in the paper wasp Polistes dominula. Presenting Author: Yareli Alvarez- Cornell University. Corrie Moreau- Cornell University. Michael Sheehan- Cornell University - Yareli Alvarez; Corrie Moreau; Michael Sheehan
11:30 AM - 11:42 AM Pacific: Plasticity of head width across life stages in the burying beetle Nicrophorus vespilloides. Presenting Author: Jordan A. Johnson- Harvard University. Eleanor K. Bladon- University of Cambridge. Rebecca M. Kilner- University of Cambridge - Jordan A. Johnson; Eleanor K. Bladon; Rebecca M. Kilner
11:42 AM - 11:54 AM Pacific: Silk gene expression and silk gland morphology across Rhyacophila brunnea larval instars. Presenting Author: Maria Gabriela Jijon (she/her/hers)- Brigham Young University. Danyon Gedris- Brigham Young University. Janey G. Cress- Brigham Young University. Heidi Snyder- Brigham Young University. Taden Lemmon- Brigham Young University. C. Riley Nelson- Brigham Young University. Paul Frandsen- Brigham Young University - Maria Gabriela Jijon (she/her/hers); Danyon Gedris; Janey G. Cress; Heidi Snyder; Taden Lemmon; C. Riley Nelson; Paul Frandsen
11:54 AM - 12:06 PM Pacific: Spectral variation and predator avoidance behavior of North American Deilelater with notes on natural history. Presenting Author: Anna Marie Blight Parker- North Carolina State University. Alexandra G. Duffy- North Carolina State University. Gareth Powell- North Carolina State University - Anna Marie Blight Parker; Alexandra G. Duffy; Gareth Powell
12:06 PM - 12:18 PM Pacific: The effect of interspecific interaction and environmental conditions on blow fly (Diptera: Calliphoridae) oviposition choice. Presenting Author: Leila Shinas- University of Windsor - Leila Shinas

Title: Grad 10-min Competition: P-IE, Field Crops 2

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Biological control o fDrosophila suzukii: Testing the interactions between Steinernema feltiae and Ganaspis kimorum. Presenting Author: Arden R. Lambert- University of Florida. Oscar Liburd- University of Florida. Jana Lee- USDA-ARS. Philip Fanning- University of Maine - Arden R. Lambert; Oscar Liburd; Jana Lee; Philip Fanning
10:42 AM - 10:54 AM Pacific: Early-season soil insect pest pressure and IST efficacy against corn rootworm in Minnesota. Presenting Author: Hunter Daniel Ness (he/him/his)- University of Minnesota. Fei Yang- University of Minnesota. Robert L. Koch (he/him/his)- University of Minnesota - Hunter Daniel Ness (he/him/his); Fei Yang; Robert L. Koch (he/him/his)
10:54 AM - 11:06 AM Pacific: Effects of Arbuscular mycorrhizal fungi on rice (Oryza sativa) growth, yield performance, and resistance against the rice stink bug (Oebalus pugnax). Presenting Author: Earl Agpawa- Texas A&M University. Rebecca Pearson- Texas A&M AgriLife Research. Lina Bernaola- Texas A&M University - Earl Agpawa; Rebecca Pearson; Lina Bernaola
11:06 AM - 11:18 AM Pacific: Evaluating the host-plant selection of tobacco thrips (Frankliniella fusca) on peanut and cotton. Presenting Author: Manisha Yadav- University of Florida. Isaac Esquivel- University of Florida - Manisha Yadav; Isaac Esquivel
11:18 AM - 11:30 AM Pacific: Evaluating the impact of Surround WP on blueberry aphid colonization, pollinator abundance, and photosynthesis in western Washington blueberries. Presenting Author: Claire Marie Winslow- Washington State University. Louis Nottingham- Washington State University - Claire Marie Winslow; Louis Nottingham
11:30 AM - 11:42 AM Pacific: Field evaluation of drone-based insecticide applications against redbanded stink bug (Piezodorus guildinii) in soybean. Presenting Author: Saurav Ranabhat (he/him/his)- Louisiana State University. James Villegas- LSU AgCenter. Randy Price- LSU AgCenter. Jayvee Bruno (he/him/his)- Louisiana State University. Oneal Edward- Louisiana State University. Daniel Barbosa- Louisiana State University - Saurav Ranabhat (he/him/his); James Villegas; Randy Price; Jayvee Bruno (he/him/his); Oneal Edward; Daniel Barbosa
11:42 AM - 11:54 AM Pacific: Genetic basis of Cry2Ab2 resistance in European corn borer (Lepidoptera: Crambidae) populations derived from multiple locations in the Upper Midwest. Presenting Author: Tatum Dwyer- University of Minnesota. Yucheng Wang- University of Minnesota. Graham Head- Bayer Crop Science. Fei Yang- University of Minnesota - Tatum Dwyer; Yucheng Wang; Graham Head; Fei Yang
11:54 AM - 12:06 PM Pacific: Influence of plant ontogeny on rice susceptibility to Lepidopteran stem borers. Presenting Author: Muhammad Danyal Khan- Louisiana State University. Michael Stout- Louisiana State University. Blake Wilson- Louisiana State University - Muhammad Danyal Khan; Michael Stout; Blake Wilson
12:06 PM - 12:18 PM Pacific: Life-table analysis of Lygus bugs (Hemiptera: Miridae) on pulse crops. Presenting Author: Maya J. Clark- Montana State University. Tiziana Oppedisano (she/her/hers)- Montana State University - Maya J. Clark; Tiziana Oppedisano (she/her/hers)
12:18 PM - 12:30 PM Pacific: Sucrose non-fermenting related protein kinase 1 (SnRK1) provides limited protection against fall armyworm (FAW), Spodoptera frugiperda in rice. Presenting Author: Devi Balakrishnan (she/her/hers)- University of Arkansas. Vibha Srivastava- University of Arkansas. Rupesh Kariyat- University of Arkansas - Devi Balakrishnan (she/her/hers); Vibha Srivastava; Rupesh Kariyat

Title: Grad 10-min Competition: SysEB, Evolution 2

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B113, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:

10:30 AM - 10:42 AM Pacific: Beyond locust color: Disentangling behavior and color traits in desert locust hatchlings. Presenting Author: Vivian Amelia Peralta Santana (she/her/hers)- Texas A&M University. Hojun Song- Texas A&M University - Vivian Amelia Peralta Santana (she/her/hers); Hojun Song
10:42 AM - 10:54 AM Pacific: Desiccation adaptations in army ants: How worker subcaste and rain shadows influence desiccation resistance. Presenting Author: Karen Y. Robles Lopez (she/her/hers)- University of Southern Mississippi. Kaitlin M. Baudier- University of Southern Mississippi - Karen Y. Robles Lopez (she/her/hers); Kaitlin M. Baudier
10:54 AM - 11:06 AM Pacific: Emerging voices: Ensifera (Orthoptera) as a model for the evolution of acoustic communication. Presenting Author: Jackson B. Linde- Texas A&M University. Austin Baker (he/him/his)- Natural History Museum of Los Angeles County. Seunggwan Shin- Seoul National University. Andre Nel- Museum national d'histoire naturelle. Nathan W. Bailey- St. Andrews University. Fernando Montealegre-Z- University of Lincoln. Hojun Song- Texas A&M University - Jackson B. Linde; Austin Baker (he/him/his); Seunggwan Shin; Andre Nel; Nathan W. Bailey; Fernando Montealegre-Z; Hojun Song
11:06 AM - 11:18 AM Pacific: Eusociality evolved at a much higher rate in haplodiploid insects. Presenting Author: Sachin Suresh- Arizona State University - Sachin Suresh
11:18 AM - 11:30 AM Pacific: How adaptive evolution could enable habitat transitions of alpine ground beetles (Carabidae: Nebria) during glacial-interglacial climate cycles. Presenting Author: Zachery Farrand- University of Wisconsin. Sean Dennis Schoville- University of Wisconsin - Zachery Farrand; Sean Dennis Schoville
11:30 AM - 11:42 AM Pacific: Longitudinal sampling reveals a dynamic behavioral and genetic landscape in the Argentine ant large supercolony. Presenting Author: Rachel B. Weinberg- University of California. Neil Tsutsui- University of California, Berkeley - Rachel B. Weinberg; Neil Tsutsui
11:42 AM - 11:54 AM Pacific: Phylogeny and evolution of an endemic radiation of longhorn beetles (Cerambycidae: Dorcasomini) in Madagascar. Presenting Author: Soohyun Jeong- University of Memphis. Duane McKenna- University of Memphis - Soohyun Jeong; Duane McKenna
11:54 AM - 12:06 PM Pacific: The cospeciation of global Reticulitermes species and their protist symbionts. Presenting Author: Kali Layne Swichtenberg (she/her/hers)- Arizona State University. Gillian Gile (she/her/hers)- Arizona State University - Kali Layne Swichtenberg (she/her/hers); Gillian Gile (she/her/hers)
12:06 PM - 12:18 PM Pacific: Using concordance factors to inform ancestral character state reconstruction in Eucerini bees. Presenting Author: Remington Ribail Motte (he/him/his)- University of Arkansas. Christopher G. Wilson- University of Arkansas. Jeremy Beaulieu- University of Arkansas - Remington Ribail Motte (he/him/his); Christopher G. Wilson; Jeremy Beaulieu

Title: Grad 10-min Competition: P-IE, Horticulture

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E147-148, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: A conceptual pathway to sustainable adoption of integrated pest management: Predicting farmers' behavioural responses in the context of brassica pest management in Fiji. Presenting Author: Mani Mua- University of Queensland. Michael J. Furlong- The University of Queensland. Caroline Smith- The University of Tasmania - Mani Mua; Michael J. Furlong; Caroline Smith
10:42 AM - 10:54 AM Pacific: Assessment of the damage caused by dual presence of two invasive drosophilids (Drosophila suzukiiand Zaprionus indianus) in raspberries and blackberries. Presenting Author: Ellie McCabe- University of Kentucky. Nicholas Teets- University of Kentucky - Ellie McCabe; Nicholas Teets
10:54 AM - 11:06 AM Pacific: Do mothers know best? Testing the preference-performance hypothesis of beet armyworm (Spodoptera exigua) in post-flooded tomato plants. Presenting Author: Minxing Zhu- University of Illinois. Esther Ngumbi- University of Illinois - Minxing Zhu; Esther Ngumbi
11:06 AM - 11:18 AM Pacific: Environmental effects on populations of spotted wing drosophila across Missouri's small fruit farms. Presenting Author: Bishal Pandey- Lincoln University of Missouri. Waana Kaluwasha (she/her/hers)- Lincoln University of Missouri. Tianqi Yao- University of Missouri. Jianfeng Zhou- University of Missouri. Maciej Pszczolkowski- Missouri State University - Bishal Pandey; Waana Kaluwasha (she/her/hers); Tianqi Yao; Jianfeng Zhou; Maciej Pszczolkowski
11:18 AM - 11:30 AM Pacific: Feeding vibrations of Liriomyza trifolii on tomato plants and Diglyphus isaea host searching behavior. Presenting Author: Stefano Galvagni- University of Trento. Rachele Nieri (she/her/hers)- University of Trento. Michele Perazzolli- University of Trento. Valerio Mazzoni- Fondazione Edmund Mach

(Edmund Mach Foundation). Giacomo Moretti- University of Trento - Stefano Galvagni; Rachele Nieri (she/her/hers); Michele Perazzolli; Valerio Mazzoni; Giacomo Moretti
11:30 AM - 11:42 AM Pacific: Improving ipm strategies by monitoring and identifying Plum curculio strains in Illinois. Presenting Author: Karuna Kafle (she/her/hers)- University of Illinois. Kacie Athey- University of Illinois - Karuna Kafle (she/her/hers); Kacie Athey
11:42 AM - 11:54 AM Pacific: Monitoring an invasive species, Thrips parvispinus population in southern Florida pepper. Presenting Author: Adrian I. Chavez- University of Florida. De-Fen Mou (she/her/hers)- University of Florida. Anna Meszaros- University of Florida. Julien Beuzelin- University of Florida - Adrian I. Chavez; De-Fen Mou (she/her/hers); Anna Meszaros; Julien Beuzelin
11:54 AM - 12:06 PM Pacific: Resistance of ornamental lilies to feeding by the invasive lily leaf beetle, Lilioceris lilii (Coleoptera: Chrysomelidae) in Michigan. Presenting Author: Mikaela Shutter-Trexell- Michigan State University. Marianna Szucs- Michigan State University - Mikaela Shutter-Trexell; Marianna Szucs
12:06 PM - 12:18 PM Pacific: Seasonal population patterns of the invasive crape myrtle bark scale (Acanthococcus lagerstroemiae) in South Carolina. Presenting Author: Samantha Michele Kennett- Clemson University. Emily Mueller- Architect of the Capitol, Capitol Grounds and Arboretum. Nilesh Timilsina- Clemson University. David Coyle- Clemson University - Samantha Michele Kennett; Emily Mueller; Nilesh Timilsina; David Coyle
12:18 PM - 12:30 PM Pacific: Sniffing out stress: Behavioral responses of Xylosandrus germanus to stressed apple trees. Presenting Author: Sandra Lizarraga- Cornell University. Monique Rivera- Cornell University - Sandra Lizarraga; Monique Rivera

Title: Grad 10-min Competition: P-IE, Invasive Species

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Determining the seasonal incidence and abundance of spotted lanternfly (Lycorma delicately) in Tennessee. Presenting Author: Rebekka Joelle Horn- University of Tennessee. Midhula Gireesh- University of Tennessee - Rebekka Joelle Horn; Midhula Gireesh
10:42 AM - 10:54 AM Pacific: Evaluating the effectiveness of long-lasting insecticide nets (LLINs) as a management tool for chilli thrips. Presenting Author: Zahra Torkaman (she/her/hers)- University of Florida. Megan Dewdney- Citrus Research and Education Center, University of Florida. Lauren Diepenbrock- University of Florida - Zahra Torkaman (she/her/hers); Megan Dewdney; Lauren Diepenbrock
10:54 AM - 11:06 AM Pacific: Life table parameters of Thrips parvispinus under different temperatures experienced in south Florida conditions. Presenting Author: Isamar Sofia Reyes-Arauz (she/her/hers)- University of Florida. De-Fen Mou (she/her/hers)- University of Florida. Yisell Velazquez-Hernandez- University of Florida. Alexandra Revynthi- University of Florida - Isamar Sofia Reyes-Arauz (she/her/hers); De-Fen Mou (she/her/hers); Yisell Velazquez-Hernandez; Alexandra Revynthi
11:06 AM - 11:18 AM Pacific: Modeling the potential distribution of Diabrotica virgifera virgifera(Coleoptera: Chrysomelidae) in western Oregon. Presenting Author: Kalli Schoening- Oregon State University. Kyleah Rabe- Oregon State University. Brittany S. Barker, PhD- Oregon State University. Jessica Green- Oregon State University. Silvia I. Rondon (she/her/hers)- Oregon State University - Kalli Schoening; Kyleah Rabe; Brittany S. Barker, PhD; Jessica Green; Silvia I. Rondon (she/her/hers)
11:18 AM - 11:30 AM Pacific: Quantifying ash tree health using drone: Comparison of aerial and ground rating for emerald ash borer infestation. Presenting Author: Kushal Naharki (he/him/his)- West Virginia University. Kathleen Knight- USDA Forest Service Northern Research Station. Jason Kilgore- Washington & Jefferson College. Yong-Lak Park- West Virginia University - Kushal Naharki (he/him/his); Kathleen Knight; Jason Kilgore; Yong-Lak Park
11:30 AM - 11:42 AM Pacific: Screening and evaluation for varietal resistance against the invasive rice delphacid (Tagosodes orizicolus Muir) in greenhouse studies. Presenting Author: Leroy Lopez- Texas A&M University. Rebecca Pearson- Texas A&M AgriLife Research. Lina Bernaola- Texas A&M University - Leroy Lopez; Rebecca Pearson; Lina Bernaola
11:42 AM - 11:54 AM Pacific: Spotted lanternfly surveillance: Comparing visual surveys and two trap designs. Presenting Author: Timothy Ryan Harrison (he/him/his)- Michigan State University. Deborah McCullough- Michigan State University. Phillip Lewis- USDA-PPQ. Amy Stone- Ohio State University Extension. Matthew

Ginzel- Purdue University - Timothy Ryan Harrison (he/him/his); Deborah McCullough; Phillip Lewis; Amy Stone; Matthew Ginzel
11:54 AM - 12:06 PM Pacific: The incidence of the two-spot cotton leaf hopper, Amrasca biguttula (Typhlocybinae: Cicadellidae) in eggplant and okra crops in Florida. Presenting Author: Monalisa Seaton- University of Florida - Monalisa Seaton
12:06 PM - 12:18 PM Pacific: Weevil infestation and floral scent changes of native Cirsium pitcheri. Presenting Author: Rina Talaba- Chicago Botanic Gardens. Kay Havens- Chicago Botanic Gardens - Rina Talaba; Kay Havens

Title: Grad 10-min Competition: SysEB, General

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Characterizing bacteriome variation on tri-trophic interaction across Puerto Rican coffee farms. Presenting Author: Ricardo Rubin Balardin (he/him/his)- University of Puerto Rico. Filipa Godoy Vitorino- University of Puerto Rico. Jose Carlos Verle Rodrigues (he/him/his)- United States Department of Agriculture. Daiane Dalla Nora- University of Puerto Rico - Ricardo Rubin Balardin (he/him/his); Filipa Godoy Vitorino; Jose Carlos Verle Rodrigues (he/him/his); Daiane Dalla Nora
10:42 AM - 10:54 AM Pacific: Comparing the efficacy and danger in using fipronil, boric acid, and chlorantraniliprole as a small hive beetle control method in in-hive traps. Presenting Author: Ian Rafael Collins- University of Georgia. Jack Garrison- University Of Georgia. Olivia Menard, n/a- Georgia Beekeeping Association. Patricia Moore- University of Georgia. Brett Blaauw- University of Georgia. Lewis Bartlett- University of Georgia - Ian Rafael Collins; Jack Garrison; Olivia Menard, n/a; Patricia Moore; Brett Blaauw; Lewis Bartlett
10:54 AM - 11:06 AM Pacific: How does symbiont metabolism match B-vitamin dietary needs across the world's insects?. Presenting Author: Hannah Marie Smith- Drexel University - Hannah Marie Smith
11:06 AM - 11:18 AM Pacific: Infection dynamics and growth determined by host community context in a bee multi-host pathogen. Presenting Author: Sonja Glasser (she/her/hers)- University of Massachusetts. Katherine Borchardt (she/her/hers)- University of Massachusetts, Amherst. Lynn Adler- University of Massachusetts. Benjamin Sadd- Illinois State University. Emma Piedade- University of Massachusetts, Amherst - Sonja Glasser (she/her/hers); Katherine Borchardt (she/her/hers); Lynn Adler; Benjamin Sadd; Emma Piedade
11:18 AM - 11:30 AM Pacific: Mapping a bacterium's cryptic journey across animal hosts. Presenting Author: Alphaxand Kaimba Njogu- Lehigh University. Dylan Shropshire- Lehigh University. Callum Shutack- Lehigh University. Helene Hartman- Lehigh University - Alphaxand Kaimba Njogu; Dylan Shropshire; Callum Shutack; Helene Hartman
11:30 AM - 11:42 AM Pacific: Morphological adaptations shape interactions between a kleptoparasitic cricket and its social insect hosts. Presenting Author: Charly Taryn Hartle (they/them/theirs)- Virginia Polytechnic Institute and State University. Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University. Jon Eisenback- School of Plant and Environmental Sciences, Virginia Tech - Charly Taryn Hartle (they/them/theirs); Chin-Cheng Scotty Yang; Jon Eisenback
11:42 AM - 11:54 AM Pacific: Pay-to-stay or parasite load: What limits myrmecophile abundance in ant nests?. Presenting Author: Ethan R. Wright- University of Central Florida. Christina Kwapich, PhD- University of Central Florida - Ethan R. Wright; Christina Kwapich, PhD
11:54 AM - 12:06 PM Pacific: The effect of prey size structure on density-dependent cannibalism in the dragonfly, Tramea lacerata. Presenting Author: Dylan T. Powell- University of Arkansas. Adam Siepielski- University of Arkansas - Dylan T. Powell; Adam Siepielski
12:06 PM - 12:18 PM Pacific: The genus Stomis Clairville and the convergent evolution of millipede predation in ground beetles (Carabidae). Presenting Author: Yihang Li, PhD- University of Memphis. Duane McKenna- University of Memphis - Yihang Li, PhD; Duane McKenna
12:18 PM - 12:30 PM Pacific: Vampires fight back: Host defense by the avian vampire fly with implications for biological control. Presenting Author: Alyssa Gooding- University of Minnesota. Maria Beatriz Perez- Charles Darwin Foundation. Paolo Piedrahita- Escuela Superior Politecnica del Litoral. Charlotte Causton- Charles Darwin Foundation. George Heimpel- University Of Minnesota - Alyssa Gooding; Maria Beatriz Perez; Paolo Piedrahita; Charlotte Causton; George Heimpel

Title: Grad 10-min Competition: SysEB, Honey Bees and Native Bees

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Ant threat detection and defense specialization in a stingless bee, Tetragonisca angustula. Presenting Author: Kristin M. Robinson (she/her/hers)- University of Southern Mississippi. Kaitlin M. Baudier- University of Southern Mississippi - Kristin M. Robinson (she/her/hers); Kaitlin M. Baudier
10:42 AM - 10:54 AM Pacific: Assessing the impact of solar installations on solitary bee foraging and in-nest behavior. Presenting Author: Victoria Salerno (she/her/hers)- University of Wisconsin. James Crall- University of Wisconsin-Madison. Russell L. Groves, PhD- University of Wisconsin. Acacia Tang- UW Madison - Victoria Salerno (she/her/hers); James Crall; Russell L. Groves, PhD; Acacia Tang
10:54 AM - 11:06 AM Pacific: Cell repair processes in Apis mellifera honeycombs. Presenting Author: Nicole Balog- Purdue University. Eshan Ganju- Purdue University. j Krispn Given- Purdue University. Brock Harpur- Purdue University. Nikhilesh Chawla- Purdue University - Nicole Balog; Eshan Ganju; j Krispn Given; Brock Harpur; Nikhilesh Chawla
11:06 AM - 11:18 AM Pacific: Community formation increases social efficiency of collective fanning behavior in the European honeybee (Apis mellifera). Presenting Author: Casey E. Lambert- Marquette University. Jordan L. Dubeck- Marquette University. Zachary Nelson- Marquette University. Chelsea Cook- Marquette University - Casey E. Lambert; Jordan L. Dubeck; Zachary Nelson; Chelsea Cook
11:18 AM - 11:30 AM Pacific: Conservation genomics of Perdita meconis: An exemplary study for rare desert specialist bees. Presenting Author: Colleen Meidt- Utah State University. Rena Schweizer- US Department of Agriculture, Agricultural Research Service. Michael Branstetter- USDA-ARS - Colleen Meidt; Rena Schweizer; Michael Branstetter
11:30 AM - 11:42 AM Pacific: Exploratory non-floral resource surveys: A novel approach for contemporary bee monitoring with implications for site specific conservation and management. Presenting Author: Joshua Paul Klostermann- University of Missouri. Lisa Webb- USGS. Deborah Finke- University of Missouri - Joshua Paul Klostermann; Lisa Webb; Deborah Finke
11:42 AM - 11:54 AM Pacific: Influence of entrance on pollen patterns in the honey bee nest. Presenting Author: Prathibha Prasanna Chandran- Auburn University. Michael Smith- Cornell University - Prathibha Prasanna Chandran; Michael Smith
11:54 AM - 12:06 PM Pacific: Perfume pockets: How male orchid bees craft a sexual signal. Presenting Author: Marissa Celine Sandoval (she/her/hers)- University of California. Santiago Ramirez- University of California, Davis - Marissa Celine Sandoval (she/her/hers); Santiago Ramirez
12:06 PM - 12:18 PM Pacific: Slow/fast differences of behavior and life-history in the honeybee (Apis mellifera). Presenting Author: Kord Dicke- Colorado State University. Dhruba Naug- Colorado State University - Kord Dicke; Dhruba Naug
12:18 PM - 12:30 PM Pacific: Worker-drone interactions in honey bee colonies. Presenting Author: Izaak Gilchrist (she/her/hers)- Purdue University. Brock Harpur- Purdue University. Mathew Dittmann (he/him/his)- Purdue University - Izaak Gilchrist (she/her/hers); Brock Harpur; Mathew Dittmann (he/him/his)

Title: Grad 10-min Competition: SysEB, Phylogenetics

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: A phylogenetics and morphology-based investigation of tymbal evolution in Arctiinae (Lepidoptera: Erebidae). Presenting Author: Aubrey A. Rogers (she/her/hers)- University of North Dakota. Rebecca Simmons- University of North Dakota - Aubrey A. Rogers (she/her/hers); Rebecca Simmons

10:42 AM - 10:54 AM Pacific: Comparing nuclear and mitochondrial phylogenies in waterbird lice (Phthiraptera: Ischnocera). Presenting Author: Dale Robert Traficante, Jr. (he/him/his)- Purdue University. Andrew Sweet- Arkansas State University. Kevin Johnson- Illinois Natural History Survey. Jorge Dona- University of Granada. Stephen Cameron- Purdue University - Dale Robert Traficante, Jr. (he/him/his); Andrew Sweet; Kevin Johnson; Jorge Dona; Stephen Cameron
10:54 AM - 11:06 AM Pacific: Continent-wide phylogenomics of Australian dung beetles (Scarabaeinae: Mentophilini) aligns with east Gondwanan geology and provides insight into habitat evolution. Presenting Author: Saxton Anne Natalie- Case Western Reserve University. Nicole Gunter- Queensland Museum - Saxton Anne Natalie; Nicole Gunter
11:06 AM - 11:18 AM Pacific: Ct scanning provides 3D visualization of Manduca sexta silk glands. Presenting Author: Md Jahir Rayhan- University of Florida. Olivia Leigh van der Vlugt- University of Florida. Anastasia Baluk Garavaglia- University of Florida. Bert Foquet- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Md Jahir Rayhan; Olivia Leigh van der Vlugt; Anastasia Baluk Garavaglia; Bert Foquet; Akito Y. Kawahara, Ph.D.
11:18 AM - 11:30 AM Pacific: DNA-based phylogeny of Parcoblatta cockroaches indicates the presence of cryptic diversity. Presenting Author: Nathaniel Howder- Michigan State University. Anthony Cognato- Michigan State University - Nathaniel Howder; Anthony Cognato
11:30 AM - 11:42 AM Pacific: Mitochondrial phylogenetics of the family Scelionidae (Hymenoptera: Platygastroidea). Presenting Author: Sunggum Sul- Seoul National University. Seunghwan Lee- Div. of Entomology, Seoul National University - Sunggum Sul; Seunghwan Lee
11:42 AM - 11:54 AM Pacific: Phylogeny of bagworms (Lepidoptera: Psychidae): A preliminary result from anchored hybrid enrichment data. Presenting Author: Chung-Te Cheng- University of Florida. David Plotkin- University of Florida. Paul Masonick- Florida Museum of Natural History. Andrew Mongue- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Chung-Te Cheng; David Plotkin; Paul Masonick; Andrew Mongue; Akito Y. Kawahara, Ph.D.
12:06 PM - 12:18 PM Pacific: Recovery of associated fungal DNA from ambrosia beetle museum specimens (Curculionidae: Scolytinae: Xyleborini). Presenting Author: Alexus Bobak- Michigan State University. Patrick Gorring- Florida State Collection of Arthropods. Anthony Cognato- Michigan State University - Alexus Bobak; Patrick Gorring; Anthony Cognato
11:54 PM - 12:06 PM Pacific: Phylogeography of Camponotus modoc and its Blochmannia endosymbiont in western North America and characterization of a tri-lineage hybrid zone. Presenting Author: Swapnil S. Boyane- Texas Tech University. Joseph D. Manthey- Texas Tech University - Swapnil S. Boyane; Joseph D. Manthey

Title: Grad 10-min Competition: SysEB, Taxonomy

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B115, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: A revision of the Ulomini (Coleoptera: Tenebrionidae) of the West Indies. Presenting Author: Benjamin Patterson- Montana State University. Michael Ivie- Montana State University - Benjamin Patterson; Michael Ivie
10:42 AM - 10:54 AM Pacific: A taxonomic review of North American Scolopendra (Scolopendromorpha: Scolopendridae). Presenting Author: Junkai Wang- Michigan State University. Anthony Cognato- Michigan State University - Junkai Wang; Anthony Cognato
10:54 AM - 11:06 AM Pacific: Exploring the phylogeny of the parasitic Neolarrini, with a focus on the North American Biastes (Hymenoptera: Apidae). Presenting Author: Tatiana Nicole Bush- Washington State University. Silas Bossert (he/him/his)- Washington State University. Elizabeth Murray- Washington State University - Tatiana Nicole Bush; Silas Bossert (he/him/his); Elizabeth Murray
11:06 AM - 11:18 AM Pacific: Genus and species-group revision of Myrmeleontini (Neuroptera: Myrmeleontidae) using morphological characters. Presenting Author: Yu-Hsiu Lin- Texas A&M University. John Oswald- Texas A&M University - Yu-Hsiu Lin; John Oswald
11:18 AM - 11:30 AM Pacific: Integrative taxonomy reaffirms generic boundaries in the seven genera of the Prenolepis genus group ants (Hymenoptera: Formicidae). Presenting Author: Aswaj Punnath (he/him/his)-

University of Florida. Andrea Lucky- University of Florida. Jason Williams- University of Florida. John LaPolla- Towson University - Aswaj Punnath (he/him/his); Andrea Lucky; Jason Williams; John LaPolla
11:30 AM - 11:42 AM Pacific: New data, old groups: Molecular insights into the species-group system of Australian Onthophagus (Coleoptera: Scarabaeidae: Scarabaeinae). Presenting Author: Rachel Stone- Case Western Reserve University. Saxton Anne Natalie- Case Western Reserve University. Nicole Gunter- Queensland Museum - Rachel Stone; Saxton Anne Natalie; Nicole Gunter
11:42 AM - 11:54 AM Pacific: Revision of the flat bark beetle genus Ahasverus gozis, 1881: The foreign grain beetle and its relatives (Coleoptera: Silvanidae). Presenting Author: Nina Imara Codrington-White- Purdue University. M. Andrew Johnston- Purdue University - Nina Imara Codrington-White; M. Andrew Johnston
11:54 AM - 12:06 PM Pacific: Revision of the genus Bolitonaeus Lewis, 1894 (Coleoptera: Tenebrionidae). Presenting Author: Charla Renee Replogle (they/them/theirs)- Purdue University. Aaron Smith- Purdue University - Charla Renee Replogle (they/them/theirs); Aaron Smith
12:06 PM - 12:18 PM Pacific: Spiders of the spiny forest - fifteen new species and seven new genera of Dictynidae O. Pickard-Cambridge, 1871 (Araneae: Dictynoidea) from Madagascar and southeastern Africa. Presenting Author: Amin Muhammad al-Jamal- California Academy of Sciences. Franklyn Cala-Riquelme, PhD- California Academy of Sciences. Jacob Gorneau, M.S.- California Academy of Sciences. Sarah Crews, PhD- California Academy of Sciences. Julia Van Orman- Macalester College. Lauren Esposito, PhD- California Academy of Sciences - Amin Muhammad al-Jamal; Franklyn Cala-Riquelme, PhD; Jacob Gorneau, M.S.; Sarah Crews, PhD; Julia Van Orman; Lauren Esposito, PhD
12:18 PM - 12:30 PM Pacific: Whole genome sequencing and assembly of an Alaskan endemic snow scorpionfly species (Mecoptera: Boreidae). Presenting Author: Taylor Kane- University of Alaska - Taylor Kane

Title: Grad 10-min Competition: MUVE, Behavior

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 256, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Bed bugs and birds: Developing monitoring and management tools. Presenting Author: Valeria Lee (she/her/hers)- Pennsylvania State University. Erika Machtinger- Pennsylvania State University - Valeria Lee (she/her/hers); Erika Machtinger
10:42 AM - 10:54 AM Pacific: Comparison of two subterranean termite species in southern California (Blattodea: Heterotermitidae). Presenting Author: Joanne Tzu-Chia Chen- University of California. Dong-Hwan Choe, BCEUniversity of California. Michael Rust- University of California. Chow-Yang Lee, BCE (he/him/his)- University of California - Joanne Tzu-Chia Chen; Dong-Hwan Choe, BCE; Michael Rust; Chow-Yang Lee, BCE (he/him/his)
10:54 AM - 11:06 AM Pacific: Effect of urbanization on ant community dynamics on the urban campus of Salisbury University, Salisbury, Maryland. Presenting Author: Isabella Rose Garrison- Salisbury University. Dana Leigh Price (she/her/hers)- Salisbury University - Isabella Rose Garrison; Dana Leigh Price (she/her/hers)
11:06 AM - 11:18 AM Pacific: Evaluation of the life cycle, behavior, and nutritional value of black soldier fly (Hermetia illucens) on varied diets. Presenting Author: Jacquez Robert Daniels (he/him/his)- Florida Agricultural and Mechanical University. Anamika Sharma (she/her/hers)- Florida A & M University. Alexander Gaffke- USDA-ARS. Ayodeji Aderibigbe- Florida Agricultural and Mechanical University. lambert Kanga- Florida A&M University - Jacquez Robert Daniels (he/him/his); Anamika Sharma (she/her/hers); Alexander Gaffke; Ayodeji Aderibigbe; lambert Kanga
11:18 AM - 11:30 AM Pacific: Gustatory associative learning behavior of German cockroaches (Blattodea: Ectobiidae). Presenting Author: Emily L. Ta (she/her/hers)- University of California. Dong-Hwan Choe, BCEUniversity of California. Michael Rust- University of California. Chow-Yang Lee, BCE (he/him/his)- University of California - Emily L. Ta (she/her/hers); Dong-Hwan Choe, BCE; Michael Rust; Chow-Yang Lee, BCE (he/him/his)
11:30 AM - 11:42 AM Pacific: Hemolymph feeders of the silkworm: Untold association with small Dipterans. Presenting Author: Shuddhasattwa Maitra Mazumdar, Jr.- Central Silk Board - Shuddhasattwa Maitra Mazumdar, Jr.
11:42 AM - 11:54 AM Pacific: Investigating bed bug (Cimex lectularius) behavior in response to common insecticides using arrestment and live-tracking assays. Presenting Author: Benjamin Ronald Grady- University of

Kentucky. Zachary C. C. DeVries- Department of Entomology, University of Kentucky - Benjamin Ronald Grady; Zachary C. C. DeVries
11:54 AM - 12:06 PM Pacific: Physiological and behavioral resistance of the German cockroach (Blattella germanica) populations from New Jersey. Presenting Author: Jesse Baker- Rutgers University - Jesse Baker
12:06 PM - 12:18 PM Pacific: Ticks fighting ticks: Investigating co-feeding dynamics and host responses to native and regionally invasive tick species. Presenting Author: Mia Isabella Esoldo- Pennsylvania State University. Erika Machtinger- Pennsylvania State University - Mia Isabella Esoldo; Erika Machtinger
12:18 PM - 12:30 PM Pacific: Using collection bottle rotator traps and stable isotopes to elucidate Culicoides movement across an ecotone habitat. Presenting Author: Cassandra Steele- University of Arkansas. Emily McDermott- University of Arkansas - Cassandra Steele; Emily McDermott

Title: Grad 10-min Competition: MUVE, Ecology

Time: **10:30 AM - 12:45** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 254, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Are urban conservation practices unintentionally increasing the prevalence of nuisance and vector mosquitoes?. Presenting Author: Hannah Dehus, M.S.- The Ohio State University. Caralee Shepard- The Ohio State University. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University. Megan E. Meuti, PhD (she/her/hers)- The Ohio State University - Hannah Dehus, M.S.; Caralee Shepard; Samuel F. Ward, M.S., Ph.D. (he/him/his); Mary M. Gardiner, M.S., Ph.D. (she/her/hers); Megan E. Meuti, PhD (she/her/hers)
10:42 AM - 10:54 AM Pacific: Effects of environmental conditions on German cockroach (Blattella germanica) survival. Presenting Author: Allison Lopina- University of Kentucky. Zachary DeVries- University of Kentucky - Allison Lopina; Zachary DeVries
10:54 AM - 11:06 AM Pacific: Effects of micronutrient supplementation on the life-history traits and thermal responses of the black soldier fly (Hermetia illucens). Presenting Author: Tara McNeil- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University - Tara McNeil; Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)
11:06 AM - 11:18 AM Pacific: Geometric difference between shelter tubes and tunnels of the Asian subterranean termite, Coptotermes gestroi (Wasmann) (Blattodea: Heterotermitidae). Presenting Author: Kukhyun Lim- University of Florida. Nan-Yao Su- University of Florida - Kukhyun Lim; Nan-Yao Su
11:18 AM - 11:30 AM Pacific: Impact of the prescribed burning on tick-borne pathogen dynamics in Amblyomma americanum. Presenting Author: Andrea Salazar- Kansas State University. Cassandra Olds- Kansas State University - Andrea Salazar; Cassandra Olds
11:30 AM - 11:42 AM Pacific: Investigations into the comparative role of hydrogen peroxide in social bees and links to nutritional stress. Presenting Author: Audrey Harrod (she/her/hers)- University of Georgia. Lewis Bartlett- University of Georgia - Audrey Harrod (she/her/hers); Lewis Bartlett
11:42 AM - 11:54 AM Pacific: Life history of Turkestan cockroaches (Periplaneta lateralis). Presenting Author: Isha Budha Budha Magar (she/her/hers)- New Mexico State University - Isha Budha Budha Magar (she/her/hers)
11:54 AM - 12:06 PM Pacific: Pathogen dynamics and the introduction of invasive mosquito Culex pipiens (Diptera: Culicidae): investigating the link between phylogenetic diversity and the dilution effect. Presenting Author: Michaela Seal- University of Calgary. Suemy Flores- University of Calgary. Andrei Vasile- University of Calgary. Alexandra Coker- City of Calgary. John Soghigian- University of Calgary - Michaela Seal; Suemy Flores; Andrei Vasile; Alexandra Coker; John Soghigian
12:06 PM - 12:18 PM Pacific: Patterns of tick infestation on songbirds: Implications for niche partitioning and pathogen transmission. Presenting Author: Ningzhu Bai- The Ohio State University. Risa Pesapane- The Ohio State University - Ningzhu Bai; Risa Pesapane
12:18 PM - 12:30 PM Pacific: Population genetics of the Gulf Coast tick. Presenting Author: Afsoon Sabet- The Ohio State University. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University. Michael G. Sovic- Freedom Genomics LLC. Gulf Coast Tick Consortium on Population Genetics- The Ohio State University. Risa Pesapane- The Ohio State University - Afsoon Sabet; Samuel F. Ward, M.S., Ph.D. (he/him/his); Michael G. Sovic; Gulf Coast Tick Consortium on Population Genetics; Risa Pesapane

12:30 PM - 12:42 PM Pacific: Quantifying ecological niche requirements for Amblyomma maculatum morphotypes. Presenting Author: Taylor Jo Chapman- Texas A&M University. Geoff Lynn- Texas A&M AgriLife Research. Taylor Donaldson (he/him/his)- Texas A&M AgriLife Research. Pete Teel- Texas A&M AgriLife Research. Tammi Lynne Johnson- Texas A&M University - Taylor Jo Chapman; Geoff Lynn; Taylor Donaldson (he/him/his); Pete Teel; Tammi Lynne Johnson

Title: Grad 10-min Competition: MUVE, General

Time: **10:30 AM - 12:45** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: An entomological perspective: Detailed review of 150 delusional parasitosis case reports. Presenting Author: Grace Kolb- Purdue University. Ameya Gondhalekar- Department of Entomology, Purdue University - Grace Kolb; Ameya Gondhalekar
10:42 AM - 10:54 AM Pacific: Assessing the potential economic impact of a mosquito-borne disease outbreak on the tourism industry in the New Orleans metropolitan area. Presenting Author: Gerardo Jose Guevara- Louisiana State University. Aaron Ashbrook- Louisiana State University. Jerrod Penn (he/him/his)- Louisiana State University-Agricultural Economics. Claudia Riegel- New Orleans Mosquito, Termite and Rodent Control Board - Gerardo Jose Guevara; Aaron Ashbrook; Jerrod Penn (he/him/his); Claudia Riegel
10:54 AM - 11:06 AM Pacific: Exploring the epidemic potential of ross river virus in the United States through vectorial capacity and qualitative risk assessment. Presenting Author: Joseph Spina- Illinois Natural History Survey. Chris Stone- Illinois Natural History Survey. Chang-Hyun Kim- Illinois Natural History Survey. Donghyun Seo- University of Illinois - Joseph Spina; Chris Stone; Chang-Hyun Kim; Donghyun Seo
11:06 AM - 11:18 AM Pacific: From infestation to intervention: Insights into mitigating German cockroach allergens. Presenting Author: Olivia Katz- University of Kentucky. Julia Andrade- University of Kentucky. Johnalyn Gordon (she/her/hers)- University of Florida. Zachary DeVries- University of Kentucky - Olivia Katz; Julia Andrade; Johnalyn Gordon (she/her/hers); Zachary DeVries
11:18 AM - 11:30 AM Pacific: Impacts of a hitchhiking predatory mite on stable fly activity. Presenting Author: Elissa Ballman-Whitman- University of Maine. Allison Gardner (she/her/hers)- University of Maine - Elissa Ballman-Whitman; Allison Gardner (she/her/hers)
11:30 AM - 11:42 AM Pacific: Invasive Parthenium hysterophorus in Kenya: A silent driver of mosquito abundance and arboviral evolution. Presenting Author: Tasneem Moawia Abdalla Osman, Jr.- University of Bonn. Tatenda chiuya- University of Bonn. Eric Fvre,- International Livestock Research Institute (ILRI). Sandra Junglen- Institute of Virology Charite - Universittsmedizin Berlin. Christian FDR Borgemeister- University of Bonn - Tasneem Moawia Abdalla Osman, Jr.; Tatenda chiuya; Eric Fvre,; Sandra Junglen; Christian FDR Borgemeister
11:42 AM - 11:54 AM Pacific: Laboratory rearing of phlebotomine sandflies using novel 3D-printed techniques. Presenting Author: Millicent Sifuna- Texas Tech University. Corey Brelsfoard- Texas Tech University - Millicent Sifuna; Corey Brelsfoard
11:54 AM - 12:06 PM Pacific: Optimization of detection of Ixodiphagus spp. infection in Rhipicephalus sanguineus S.L.. Presenting Author: Abbey Abalos- University of Texas. Sarah Maestas, Professor- University of Texas Rio Grande Valley. Lauren Maestas, Ecologist- USDA-ARS - Abbey Abalos; Sarah Maestas, Professor; Lauren Maestas, Ecologist
12:06 PM - 12:18 PM Pacific: Shared spaces and coexistence: Understanding human - bee relationships across India's changing landscapes. Presenting Author: Jintu Sundaram Vijayan- Ashoka Trust For Research In Ecology And The Environment. Siddappa R Setty- Ashoka Trust For Research In Ecology And The Environment. Soubadra Devy- Ashoka Trust For Research In Ecology And The Environment - Jintu Sundaram Vijayan; Siddappa R Setty; Soubadra Devy
12:18 PM - 12:30 PM Pacific: The relationship between Alphitobious diaperines and poultry litter. Presenting Author: Raymond Fitzpatrick- University of Georgia. Nancy C. Hinkle- University of Georgia - Raymond Fitzpatrick; Nancy C. Hinkle
12:30 PM - 12:42 PM Pacific: Two roads to recovery: Comparing fumagillin and a natural grape seed treatment againstNosemain honey bees. Presenting Author: Mark P. Swenson- University of California. Boris Baer- University of California - Mark P. Swenson; Boris Baer

Title: Grad 10-min Competition: MUVE, Vector Biology

Time: **10:30 AM - 12:45** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: Bed bugs: Health risks and control. Presenting Author: Simona Principato- University of Kentucky. Hollie I. Swanson- Department of Pharmacology and Nutritional Sciences, University of Kentucky. Hong Huang- Division of Pediatric Research, Department of Pediatrics College of Medicine, University of Kentucky. John A. Bauer- Division of Pediatric Research, Department of Pediatrics College of Medicine, University of Kentucky. Wayne T. Sanderson- Biosystems and Agricultural Engineering, Martin Gatton College of Agriculture, Food, and Environment, University of Kentucky. S. Reddy Palli (he/him/his)- University of Kentucky. Zachary C. C. DeVries- Department of Entomology, University of Kentucky - Simona Principato; Hollie I. Swanson; Hong Huang; John A. Bauer; Wayne T. Sanderson; S. Reddy Palli (he/him/his); Zachary C. C. DeVries
10:42 AM - 10:54 AM Pacific: Degrees of separation: Validation of blow fly (Diptera: Calliphoridae) development across seasons in central Texas, USA. Presenting Author: Sienna Noelle McPeek- Texas A&M University. Amber E. MacInnis (she/her/hers)- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University - Sienna Noelle McPeek; Amber E. MacInnis (she/her/hers); Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)
10:54 AM - 11:06 AM Pacific: Exploiting biology for management: Haemaphysalis longicornisand fermenting forage. Presenting Author: Syd Wilson- The Ohio State University. Risa Pesapane- The Ohio State University - Syd Wilson; Risa Pesapane
11:06 AM - 11:18 AM Pacific: Exploring the role of triglycerides during arboviral infection in theAedes aegyptimosquito vector. Presenting Author: Oshani Chathurangika Ratnayake- Colorado State University. Samantha Marie Pinto- Center for Vector-borne Infectious Diseases, Dept. of Microbiology, Immunology and Pathology, Colorado State University. Irma Sanchez Sanchez Vargas- Center for Vector-borne Infectious Diseases, Dept. of Microbiology, Immunology and Pathology, Colorado State University. Paul Scott Soma- Center for Vector-borne Infectious Diseases, Dept. of Microbiology, Immunology and Pathology, Colorado State University. Barbara Graham- Center for Vector-borne Infectious Diseases, Dept. of Microbiology, Immunology and Pathology, Colorado State University. Suad Elmegerhi- Center for Vector-borne Infectious Diseases, Dept. of Microbiology, Immunology and Pathology, Colorado State University. Nunya Chotiwan- Chakri Naruebodindra Medical Institute, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand. Elizabeth A. McGraw- Biology Department and Huck Institutes of the Life Sciences, Penn State University. Rushika Perera- Colorado State University - Oshani Chathurangika Ratnayake; Samantha Marie Pinto; Irma Sanchez Sanchez Vargas; Paul Scott Soma; Barbara Graham; Suad Elmegerhi; Nunya Chotiwan; Elizabeth A. McGraw; Rushika Perera
11:18 AM - 11:30 AM Pacific: Feeding the resistance: Responses to repeat infestations of regionally native and invasive ticks on white-tailed deer. Presenting Author: Paige S. Alexander- Pennsylvania State University. Erika Machtinger- Pennsylvania State University. Don Wagner- The Pennsylvania State University - Paige S. Alexander; Erika Machtinger; Don Wagner
11:30 AM - 11:42 AM Pacific: Flying under the radar: How livestock antibiotics influence house fly development. Presenting Author: Herman Austin Griese (he/him/his)- Kansas State University. Cassandra Olds- Kansas State University - Herman Austin Griese (he/him/his); Cassandra Olds
11:42 AM - 11:54 AM Pacific: Kissing bugs in Delaware: Parasite prevalence and human blood feeding of Triatoma sanguisuga. Presenting Author: Alexander Kelley- University of Delaware. Jennifer K. Peterson- University of Delaware - Alexander Kelley; Jennifer K. Peterson
11:54 AM - 12:06 PM Pacific: Mosquito-plant interactions: New perspectives. Presenting Author: Danica M. Shannon- University of Georgia. Dan Peach- University of Georgia. Gonzalo Vazquez-Prokopec- Emory University. Stacey Scroggs- USDA. Azael Che-Mendoza- Autonomous University of Yucatan. Pablo Manrique-Saide- Autonomous University of Yucatan. Abdiel Martin-Park- Autonomous University of Yucatan. Yamili Contreras-Perera- Autonomous University of Yucatan - Danica M. Shannon; Dan Peach; Gonzalo Vazquez-Prokopec; Stacey Scroggs; Azael Che-Mendoza; Pablo Manrique-Saide; Abdiel Martin-Park; Yamili Contreras-Perera
12:06 PM - 12:18 PM Pacific: Pantothenate manipulation in the malaria vector Anopheles stephensi and its effects on Plasmodium infection. Presenting Author: Sydney Pruett- University of Idaho. Nora Cespedes- University of Idaho. Jessica Brady- University of Idaho. Megan Dobson- University of Idaho. Kayla Savioe-

Penton- University of Idaho. Yared Debebe- University of Idaho. Jun Isoe- University of Arizona. Brendan Riske- University of Arizona. Michael Riehle- University of Arizona. Shirley Luckhart- University of Idaho - Sydney Pruett; Nora Cespedes; Jessica Brady; Megan Dobson; Kayla Savioe-Penton; Yared Debebe; Jun Isoe; Brendan Riske; Michael Riehle; Shirley Luckhart
12:18 PM - 12:30 PM Pacific: Quantifying Aedes aegypti hydrothermal performance. Presenting Author: Annika June Avery- Arizona State University. Morgan G. Goodwin- Arizona State University. Suyash Malepati- Arizona State University. Krijn Paaijmans- Arizona State University - Annika June Avery; Morgan G. Goodwin; Suyash Malepati; Krijn Paaijmans
12:30 PM - 12:42 PM Pacific: The influence of land cover on risk of human exposure to tick-associated disease in Belize. Presenting Author: Morgan T. Maggine- University of Notre Dame. Nicole Achee- University of Notre Dame. John Grieco- University of Notre Dame. Benedicte Fustec- University of Notre Dame. Michele Adams- University of Notre Dame. Alvaro Cruz- Belize Vector and Ecology Center - Morgan T. Maggine; Nicole Achee; John Grieco; Benedicte Fustec; Michele Adams; Alvaro Cruz

Title: Grad 10-min Competition: MUVE, Vectors

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Medical, Urban, and Veterinary Entomology; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: An old pathway in a new context: The role Salvador/Warts/Hippo pathway in Aedes aegypti reproduction. Presenting Author: April Lopez- New Mexico State University. Francisco D. Plenge- New Mexico State University. Immo Alex Hansen, PhD- New Mexico State University - April Lopez; Francisco D. Plenge; Immo Alex Hansen, PhD
10:42 AM - 10:54 AM Pacific: Assembly pheromone efficacy as a brown dog tick lure. Presenting Author: Mara Short (they/them/theirs)- University of Arizona. Wendy Moore, PhD (she/her/hers)- University of Arizona - Mara Short (they/them/theirs); Wendy Moore, PhD (she/her/hers)
10:54 AM - 11:06 AM Pacific: Carryover effects of soil on mosquito blood feeding and fecundity. Presenting Author: Kellen Pautzke (she/her/hers)- Washington State University - Kellen Pautzke (she/her/hers)
11:06 AM - 11:18 AM Pacific: Effectiveness of various dust insecticides and their impact on the locomotor responses of Rhodnius prolixus (Hemiptera: Reduviidae). Presenting Author: Kavita Adhikari- New Mexico State University. Scott Bundy- New Mexico State University. John Agnew (he/him/his)- New Mexico State University. Alvaro Romero- Envu. Akash Bajagain- North Carolina State University - Kavita Adhikari; Scott Bundy; John Agnew (he/him/his); Alvaro Romero; Akash Bajagain
11:18 AM - 11:30 AM Pacific: Environmental influences on soft tick populations and Borrelia presence in burrow habitats of South Texas. Presenting Author: Joshua Michael Morris- University of Texas. Christopher Vitek- University of Texas. Bradley Christoffersen- University of Texas Rio Grande Valley. Sarah Maestas, Professor- University of Texas Rio Grande Valley - Joshua Michael Morris; Christopher Vitek; Bradley Christoffersen; Sarah Maestas, Professor
11:30 AM - 11:42 AM Pacific: Factors influencing gonotrophic discordance and its impact on Aedes aegypti vectorial capacity for dengue virus. Presenting Author: Sergio Mendez-Cardona- University of Florida. Zachary McGuire- Florida Medical Entomology Laboratory. Nathan Burkett-Cadena- University of Florida. Matthew Thomas- University of Florida. Barry Alto- Florida Medical Entomology Laboratory. Panpim Thongsripong- Florida Medical Entomology Laboratory - Sergio Mendez-Cardona; Zachary McGuire; Nathan Burkett-Cadena; Matthew Thomas; Barry Alto; Panpim Thongsripong
11:42 AM - 11:54 AM Pacific: Permethrin susceptibility in Culicoides biting midges from Florida. Presenting Author: Vilma M. Cooper (Montenegro)- University of Florida. Nathan Burkett-Cadena- University of Florida. Eva Buckner (she/her/hers)- University of Florida - Vilma M. Cooper (Montenegro); Nathan Burkett-Cadena; Eva Buckner (she/her/hers)
11:54 AM - 12:06 PM Pacific: Target and non-target effects of reservoir-targeted acaricide treatments. Presenting Author: Grace Oram- San Francisco State University. Maxwell Newton- San Francisco State University. Andrea Swei (she/her/hers)- San Francisco State University - Grace Oram; Maxwell Newton; Andrea Swei (she/her/hers)
12:06 PM - 12:18 PM Pacific: The rise of outdoor feeding in an Anopheles mosquitoes: Deciphering the shift from endophilic to exophilic feeding. Presenting Author: Mark Mattine- Texas A&M University. Giridhar Athrey- Texas A&M University. Guillermo Garcia- MCD Global Health - Mark Mattine; Giridhar Athrey; Guillermo Garcia

12:18 PM - 12:30 PM Pacific: Vector-borne diseases in South Texas: Pathogen prevalence in Amblyomma species. Presenting Author: Madison Nicole Buenrostro- University of Texas. Sarah Mays Maestas- University of Texas Rio Grande Valley - Madison Nicole Buenrostro; Sarah Mays Maestas

Title: Undergrad 10-min Competition: SysEB, Behavior and Biodiversity

Time: **10:30 AM - 12:45** PM Pacific
Location: Oregon Convention Center, B114, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Systematics, Evolution, and Biodiversity; Student Competition; Student
Presentations:
10:30 AM - 10:42 AM Pacific: 3D printed trap and device viability for entomological research. Presenting Author: Kai Starr- Simpson College. Drew Engler- Simpson College. Maya Jolliffe- Simpson College. Alexis Ulrich- Simpson College. Ryan Rehmeier- Simpson College. Timothy Luttermoser- Simpson College - Kai Starr; Drew Engler; Maya Jolliffe; Alexis Ulrich; Ryan Rehmeier; Timothy Luttermoser
10:42 AM - 10:54 AM Pacific: Developing tools to study TRPA1 in rove beetles. Presenting Author: Jenasis Campbell- Georgia Institute of Technology. Hayley Smihula- California Institue of Technology. Joseph Parker- California Institue of Technology - Jenasis Campbell; Hayley Smihula; Joseph Parker
10:54 AM - 11:06 AM Pacific: Effect of odor on prey pattern aversion in jumping spiders. Presenting Author: Aditi Persad- University of Florida. Laurel Lietzenmayer (she/her/hers)- University of Florida/Researcher. Lisa Taylor- University of Florida - Aditi Persad; Laurel Lietzenmayer (she/her/hers); Lisa Taylor
11:06 AM - 11:18 AM Pacific: Impact of fine sediment pollution due to grazing on aquatic macroinvertebrate diversity in Utah streams. Presenting Author: Janey G. Cress- Brigham Young University. C. Riley Nelson- Brigham Young University. Paul Frandsen- Brigham Young University - Janey G. Cress; C. Riley Nelson; Paul Frandsen
11:18 AM - 11:30 AM Pacific: Mayfly wing wonders: Uncovering genetic threads. Presenting Author: Melissa A. Rangel (she/her/hers)- Utah Valley University - Melissa A. Rangel (she/her/hers)
11:30 AM - 11:42 AM Pacific: Optimizing bioinformatic pipeline for profiling blow fly diets. Presenting Author: Bailey Jannuzzi- Utah Valley University. Andrew Meeds- Arizona State University. Lauren M. Weidner (she/her/hers)- Arizona State University. Carl E. Hjelmen- Utah Valley University - Bailey Jannuzzi; Andrew Meeds; Lauren M. Weidner (she/her/hers); Carl E. Hjelmen
11:42 AM - 11:54 AM Pacific: Seasonal gene expression of the ManhattAnt underlies adaptations to changing climates and extreme urbanization. Presenting Author: Liliana Hopkins- Rutgers University. Grayson Tung- Rutgers University Department of Entomology. Benjamin Lintner- Rutgers University. Chloe Hawkings- Rutgers University - Liliana Hopkins; Grayson Tung; Benjamin Lintner; Chloe Hawkings
11:54 AM - 12:06 PM Pacific: Systematics of the dragonfly genus Gomphus (Mofopefoluwa Akanni). Presenting Author: Mofopefoluwa Victoria Akanni- American Museum of Natural History. Jessica L. Ware (she/her/hers)- American Museum of Natural History. Ellie Gamett- American Museum of Natural History. Violet Onsongo- American Museum of Natural History - Mofopefoluwa Victoria Akanni; Jessica L. Ware (she/her/hers); Ellie Gamett; Violet Onsongo
12:06 PM - 12:18 PM Pacific: Systematics of the dragonfly genus Progomphus. Presenting Author: Avery Graycen Pennington- American Museum of Natural History - Avery Graycen Pennington
12:18 PM - 12:30 PM Pacific: Taxonomy and identification of the Pedaliodes pollonia/asconia species group (Lepidoptera: Nymphalidae: Satyrinae: Pronophilina). Presenting Author: Aidan David Kowalski Bloch- Florida Museum of Natural History. Keith Willmott, PhD- Florida Museum of Natural History, University of Florida - Aidan David Kowalski Bloch; Keith Willmott, PhD
12:30 PM - 12:42 PM Pacific: Taxonomy of gall-assocoated Torymus. Presenting Author: Jacky Chitty- Rowan University. Andrew Forbes- University of Iowa - Jacky Chitty; Andrew Forbes

Title: Grad 10-min Competition: P-IE, Forestry

Time: **10:30 AM - 12:45** PM Pacific
Location: Oregon Convention Center, D135, OCC
Organizers:
Categories: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student
Tracks: Student 10-Minute Presentation Competition; Plant-Insect Ecosystems; Student Competition; Student

Presentations:
10:30 AM - 10:42 AM Pacific: Development of detection, monitoring, and management strategies for the pine bark beetles (Coleoptera: Scolytinae) in Florida. Presenting Author: Ann Marie Shanae Robinson-Baker (she/her/hers)- Florida Agricultural and Mechanical University. Muhammad Haseeb (he/him/his)- Florida Agricultural and Mechanical University. Paul Skelley- Florida Department of Agriculture and Consumer Services. lambert Kanga- Florida A&M University - Ann Marie Shanae Robinson-Baker (she/her/hers); Muhammad Haseeb (he/him/his); Paul Skelley; lambert Kanga
10:42 AM - 10:54 AM Pacific: Drifted dinner: Investigating herbicide drift's impacts on herbivorous insects in arboreal ecosystems. Presenting Author: Elizabeth Lumley- University of Missouri. Emily Althoff- University of Missouri - Elizabeth Lumley; Emily Althoff
10:54 AM - 11:06 AM Pacific: Effects of temperature on the development of two ambrosia beetle species frequently moved via international trade. Presenting Author: Thomas G. Paul, M.S.- The Ohio State University. Christopher M. Ranger (he/him/his)- USDA-ARS. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University - Thomas G. Paul, M.S.; Christopher M. Ranger (he/him/his); Samuel F. Ward, M.S., Ph.D. (he/him/his)
11:06 AM - 11:18 AM Pacific: Exploiting a fungal associate for gene silencing in southern pine beetle (Dendroctonus frontalis). Presenting Author: Morgan Christine Knutsen (she/her/hers)- University of Kentucky. Lynne K. Rieske-Kinney (she/her/hers)- University of Kentucky - Morgan Christine Knutsen (she/her/hers); Lynne K. Rieske-Kinney (she/her/hers)
11:18 AM - 11:30 AM Pacific: Fungi associated with wilting sassafras in the Central Hardwood Region. Presenting Author: Olivia Bigham- Purdue University. Tyler Dreaden- US Forest Service. Matthew Ginzel- Purdue University. James Jacobs- US Forest Service. Anna Conrad- US Forest Service - Olivia Bigham; Tyler Dreaden; Matthew Ginzel; James Jacobs; Anna Conrad
11:30 AM - 11:42 AM Pacific: Investigating thermal buffering from ambrosia beetle fungal symbionts during heat treatments: Implications for the wood packaging pathway. Presenting Author: Jessi Raubenolt (she/her/hers)- The Ohio State University. Christopher M. Ranger (he/him/his)- USDA-ARS. Kayla I. Perry- The Ohio State University. Samuel F. Ward, M.S., Ph.D. (he/him/his)- The Ohio State University - Jessi Raubenolt (she/her/hers); Christopher M. Ranger (he/him/his); Kayla I. Perry; Samuel F. Ward, M.S., Ph.D. (he/him/his)
11:42 AM - 11:54 AM Pacific: Larval development and feeding patterns of the invasive Asian longhorned beetle (Anoplophora glabripennis) in South Carolina. Presenting Author: Lindsey A. Stone (she/her/hers)- Clemson University. Lena Schmitt- Clemson University. Talbot Trotter- USDA Forest Service. David Coyle- Clemson University - Lindsey A. Stone (she/her/hers); Lena Schmitt; Talbot Trotter; David Coyle
11:54 AM - 12:06 PM Pacific: Thinning, burning, and bees: Evaluating pollinator responses to forest management in Utah's Uinta Mountains. Presenting Author: Kirstie Kandaris (she/her/hers)- USDA-ARS. Kelsey Graham- USDA-ARS. Larissa Yocom- Utah State University - Kirstie Kandaris (she/her/hers); Kelsey Graham; Larissa Yocom
12:06 PM - 12:18 PM Pacific: Using species distribution modeling to predict range expansion and preferred habitat of Dendroctonus frontalis. Presenting Author: Travis Henry Rhodes- Sam Houston State University. Charlotte Jeanne Heinz Hohman- Sam Houston State University - Travis Henry Rhodes; Charlotte Jeanne Heinz Hohman
12:18 PM - 12:30 PM Pacific: Wild bee responses to timber harvests depend on species habitat associations. Presenting Author: Joanna Wren Greenwood- Rutgers University. Katherine J. Turo, PhD- Fordham University. Rachael Winfree, PhD- Rutgers University - Joanna Wren Greenwood; Katherine J. Turo, PhD; Rachael Winfree, PhD

Title: Awards and Honors Canvassing Committee Meeting
Time: **11:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Stacie East, Esq., CAE- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Antlion Pit Presentation Session
Time: **12:30 PM - 2:30** PM Pacific
Location: Oregon Convention Center, Oregon Ballroom, OCC
Organizers: Marianne Alleyne- University of Illinois
Categories: Meetings & Events
Abstract: Antlion Pit is designed to empower ESA members to develop and present their innovative ideas for entomology-related products and services. The competition encourages the development of the entrepreneurial

spirit through idea leadership, innovation, teamwork, and mentorship. The venture idea may focus on a technology, product, process, service, or social venture. Teams are given five minutes to present their pitch, followed by eight minutes of questions from judges and the audience.
Tracks: Meetings & Events
Presentations:
12:30 PM - 2:30 PM Pacific: Insect Impact Initiative. Presenting Author: Madison Sankovitz- University of Colorado - Madison Sankovitz
12:30 PM - 2:30 PM Pacific: Local Critters for Local Knitters. Presenting Author: Meredith June Willmott (she/her/hers)- University of Arizona - Meredith June Willmott (she/her/hers)
12:30 PM - 2:30 PM Pacific: SmartOrchard Ant Monitoring. Presenting Author: Santosh Bhandari- UC Agriculture and Natural Resources - Santosh Bhandari
12:30 PM - 2:30 PM Pacific: Team Shuddha-Nabanita. Presenting Author: Shuddhasattwa Maitra Mazumdar, Jr.- Central Silk Board - Shuddhasattwa Maitra Mazumdar, Jr.
12:30 PM - 2:30 PM Pacific: VectorGuard. Presenting Author: Eleanor M. Fausett- University of California - Eleanor M. Fausett

Title: Q&A with Poster Presenters
Time: **1:00 PM - 2:00** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers:
Categories: Meetings & Events; Exhibit Hall
Abstract: Poster Display Presentation Times: Because the Exhibit Hall becomes quite congested during presentation hours, presenters of poster displays with odd and even numbers are assigned specific times to be present at their posters. Presenters are expected to be available at their displays during the "Authors Present" time slot for questions and discussion.Monday, November 10 (Student Competition Poster DIsplays)Setup: Monday, 8-9 a.m. Viewing: Monday, 9 a.m. - 5 p.m. Authors Present: Posters with odd numbers: 1-**1:30** p.m. ; Posters with even numbers: **1:30**-2 p.m. Takedown: Monday, 5-**5:30** p.m.
Tracks: Meetings & Events; Exhibit Hall

Title: 68th National Insect Photographic Exhibition
Time: **1:00 PM - 2:00** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Thomas V. Myers, BCE- All-Rite Pest Control
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Certification Board Orientation
Time: **1:00 PM - 2:00** PM Pacific
Location: Oregon Convention Center, G130, OCC
Organizers: Willet Hossfeld, ICE-CCP (he/him/his)- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Branch Leaders Meeting
Time: **1:00 PM - 2:30** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Tour: Discover Portland's Urban Wilderness: Forest Park to Pittock Mansion
Time: **1:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: This guided hike offers a quintessential Portland experience, weaving through the lush greenery of Forest Park along the scenic Wildwood Trail. The journey begins at the Lower MacLeay Trailhead, leading to the

charming Witch's Hut, a local favorite nestled in the woods, approximately one mile in. From there, the hike continues south with a steady 450-foot elevation gain over 2.5 miles to Pittock Mansion, where sweeping views of the Portland skyline and surrounding mountains await. The total hiking distance is about 3.5 miles and typically takes 2.5 hours, depending on group pace and stops for photos. Along the way, guests will have opportunities to take in the natural beauty, capture stunning photos, and enjoy a well-paced outdoor adventure. The trail winds through a temperate rainforest ecosystem teeming with life, including an impressive array of insects and other invertebrates for those inclined to notice. Forest Park is home to native pollinators like bumble bees and hoverflies, leaf litter dwellers such as ground beetles and springtails, and the occasional sighting of dragonflies near creek crossings. With so much biodiversity packed into this urban wilderness, curious eyes will have no shortage of tiny wonders to observe. This tour is designed for those looking to explore Portland's rich natural environment while enjoying a seamless and expertly guided experience. Cost: $110 per person (minimum 14 participants, maximum 28 participants)Includes: Transportation, tour guides, and bottled water.
Tracks: Meetings & Events

Title: Certification Board Meeting
Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, G130, OCC
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Willet Hossfeld, ICE-CCP (he/him/his)- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: FIT Business Meeting
Time: **2:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers: Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University; Carly M. Tribull- Farmingdale State College
Categories: Section Symposium; Formal and Informal Teaching
Abstract: Business meeting.
Tracks: Section Symposium; Formal and Informal Teaching
Presentations:
2:30 PM - 3:00 PM Pacific: Reception -
3:00 PM - 3:05 PM Pacific: Welcome & introductory remarks. Presenting Author: Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University - Wyatt Wyatt Hoback (he/him/his)
3:05 PM - 3:20 PM Pacific: FIT updates: Milestones met. Presenting Author: Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University - Wyatt Wyatt Hoback (he/him/his)
3:20 PM - 3:25 PM Pacific: ESA President remarks and updates. Presenting Author: Lina Bernaola- Texas A&M University - Lina Bernaola
3:25 PM - 3:40 PM Pacific: Subcommittee updates. Presenting Author: Carly M. Tribull- Farmingdale State College - Carly M. Tribull
3:40 PM - 4:10 PM Pacific: Phase II brainstorming -
4:10 PM - 4:25 PM Pacific: Committee breakouts and opportunities -
4:25 PM - 4:30 PM Pacific: Closing remarks and meeting wrap-up. Presenting Author: Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University - Wyatt Wyatt Hoback (he/him/his)

Title: Plant-Insect Ecosystems Section Networking Session and Awards Celebration
Time: **2:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers: Anjel M. Helms- Texas A&M University; Lauren Diepenbrock- University of Florida; Katelyn Kesheimer (she/her/hers)- Bayer Crop Science
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: Will cover P-IE business and leadership updates from the past year, plans for coming year, celebrate award winners.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
2:30 PM - 2:40 PM Pacific: Welcome remarks and volunteer recognitions. Presenting Author: Anjel M. Helms- Texas A&M University - Anjel M. Helms

2:40 PM - 3:40 PM Pacific: P-IE Section awards presentation. Presenting Author: Katelyn Kesheimer (she/her/hers)- Bayer Crop Science - Katelyn Kesheimer (she/her/hers)
3:40 PM - 3:50 PM Pacific: ESA President remarks and updates. Presenting Author: Lina Bernaola- Texas A&M University - Lina Bernaola
3:50 PM - 4:10 PM Pacific: P-IE Section updates. Presenting Author: Lauren Diepenbrock- University of Florida - Lauren Diepenbrock
4:10 PM - 5:30 PM Pacific: Networking and refreshments -

Title: SysEB Business Meeting

Time: **2:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers: Marek Borowiec (he/him/his)- Colorado State University; JoVonn Hill- Mississippi Entomological Museum
Categories: Section Symposium; Systematics, Evolution, and Biodiversity
Abstract: The Business Meeting provides SysEB section members with an opportunity to network over drinks and food. It also presents updates on current section initiatives, awards, publications, funding opportunities, and the section budget. There is usually an opportunity to donate to SysEB endowment and support student awards.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity
Presentations:
2:30 PM - 3:15 PM Pacific: Opening reception -
3:15 PM - 3:20 PM Pacific: Presidential introductory remarks. Presenting Author: Marek Borowiec (he/him/his)- Colorado State University - Marek Borowiec (he/him/his)
3:20 PM - 3:25 PM Pacific: Student introduction to the Business Meeting and SysEB. Presenting Author: Anna Eichert- American Museum of Natural History - Anna Eichert
3:25 PM - 3:50 PM Pacific: Honoring SysEB award winners. Presenting Author: Andrea Lucky- University of Florida - Andrea Lucky
3:50 PM - 4:10 PM Pacific: Updates from NSF. Presenting Author: Patrick Abbot, Ph.D.- National Science Foundation - Patrick Abbot, Ph.D.
4:10 PM - 4:20 PM Pacific: ESA President remarks and updates. Presenting Author: Lina Bernaola- Texas A&M University - Lina Bernaola
4:20 PM - 5:10 PM Pacific: SysEB Section updates and committee reports -
5:10 PM - 5:20 PM Pacific: ECN and ECN workshop updates. Presenting Author: Floyd W. Shockley- Smithsonian Institute - Floyd W. Shockley
5:20 PM - 5:30 PM Pacific: Closing remarks and meeting wrap-up. Presenting Author: Marek Borowiec (he/him/his)- Colorado State University - Marek Borowiec (he/him/his)

Title: PBT Business Meeting

Time: **2:30 PM - 6:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers: Edmund Norris- United States Department of Agriculture; Ana Velez (she/her/hers)- University of Nebraska-Lincoln
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology
Abstract: Join us for the PBT Business Meeting, where we highlight major section updates, celebrate groundbreaking research, and foster networking among members. This interactive session will showcase key advancements, honor awardees, and provide opportunities for collaboration and professional growth within the PBT community.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology
Presentations:
2:30 PM - 2:40 PM Pacific: Opening remarks. Presenting Author: Edmund Norris- United States Department of Agriculture - Edmund Norris
2:40 PM - 2:50 PM Pacific: Committee updates -
2:50 PM - 2:55 PM Pacific: PBT award recognitions. Presenting Author: Kristopher Silver (he/him/his)- Kansas State University - Kristopher Silver (he/him/his)
2:55 PM - 3:25 PM Pacific: PBT Recognition Award in Insect Physiology, Biochemistry and Toxicology winner presentation. Presenting Author: Kun Yan Zhu- Kansas State University - Kun Yan Zhu
3:25 PM - 3:45 PM Pacific: Lillian and Alex Feir Graduate Student Travel Award in Insect Physiology, Biochemistry, or Molecular Biology award winner presentation. Presenting Author: Flinn O'Hara- University of Florida - Flinn O'Hara

3:45 PM - 3:55 PM Pacific: Break -
3:55 PM - 4:05 PM Pacific: ESA President remarks and updates. Presenting Author: Lina Bernaola- Texas A&M University - Lina Bernaola
4:05 PM - 4:35 PM Pacific: Listening session: Women in PBT. Presenting Author: Priya Chakrabarti Basu (she/her/hers)- Washington State University - Priya Chakrabarti Basu (she/her/hers)
4:35 PM - 5:05 PM Pacific: Future symposia & wildly important goals. Presenting Author: Ana Velez (she/her/hers)- University of Nebraska-Lincoln - Ana Velez (she/her/hers)
5:05 PM - 6:30 PM Pacific: Networking and social –

Title: MUVE Business Meeting with Highlights of Medical, Urban, and Veterinary Entomology

Time: **2:30 PM - 6:30** PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers: Ary Faraji, BCE (he/him/his)- Salt Lake City Mosquito Abatement District
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: This session will feature selected speakers who will share 2024/2025 research highlights in Medical, Urban, Veterinary, and Forensic Entomology. After recognizing MUVE/ESA award winners, the session will serve as a business meeting for the MUVE section, followed by networking/social time.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
2:30 PM - 2:40 PM Pacific: Introductory remarks. Presenting Author: Ary Faraji, BCE (he/him/his)- Salt Lake City Mosquito Abatement District - Ary Faraji, BCE (he/him/his)
2:40 PM - 3:10 PM Pacific: Highlights of medical entomology. Presenting Author: Nathan Burkett-Cadena- University of Florida - Nathan Burkett-Cadena
3:10 PM - 3:40 PM Pacific: Highlights of urban entomology. Presenting Author: Andrew Mason Sutherland, BCEUniversity of California - Andrew Mason Sutherland, BCE
3:40 PM - 3:50 PM Pacific: Break -
3:50 PM - 4:20 PM Pacific: Highlights of veterinary entomology. Presenting Author: Bethany McGregor- United States Department of Agriculture - Bethany McGregor
4:20 PM - 4:50 PM Pacific: Highlights of forensic entomology. Presenting Author: Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University - Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)
4:50 PM - 5:00 PM Pacific: Break -
5:00 PM - 5:10 PM Pacific: ESA President remarks and updates. Presenting Author: Lina Bernaola- Texas A&M University - Lina Bernaola
5:10 PM - 5:40 PM Pacific: Award winner recognition -
5:40 PM - 6:10 PM Pacific: Business meeting -
6:10 PM - 6:30 PM Pacific: Reception/social –

Title: Innovative African Entomologists: Strengthening Networks for Sustainable Pest Control

Time: **5:00 PM - 7:00** PM Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Chisom Irene Molokwu- Oregon State University; Vaughn M. Walton- Oregon State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Illinois Mixer

Time: **6:00 PM - 7:30** PM Pacific
Location: Hyatt Regency Portland, Columbia 3, Hyatt
Organizers: Kimberly Leigh- University of Illinois; May R. Berenbaum (she/her/hers)- University of Illinois
Categories: Meetings & Events
Tracks: Meetings & Events

Title: University of Wisconsin and University of Minnesota Mixer

Time: **6:00 PM - 8:00** PM Pacific
Location: Hyatt Regency Portland, Multnomah Room, Hyatt

Organizers: Russell L. Groves, PhD- University of Wisconsin; Sean Dennis Schoville- University of Wisconsin; Sujaya Rao- University of Minnesota
Categories: Meetings & Events
Tracks: Meetings & Events

Title: International Branch Mixer
Time: **6:00 PM - 8:00** PM Pacific
Location: Hyatt Regency Portland, Willamette 8, Hyatt
Organizers: Rory Mc Donnell- Oregon State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Syngenta Mixer (Invitation Only)
Time: **6:00 PM - 8:00** PM Pacific
Location: Hyatt Regency Portland, Deschutes Ballroom B, Hyatt
Organizers: Dariane Souza- Syngenta; Christoph Zimmer- Syngenta
Categories: Meetings & Events
Tracks: Meetings & Events

Title: International Association of Black Entomologists (IABE) Annual Business Meeting
Time: **7:00 PM - 8:00** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers: Tara-Kay Lencola Jones (she/her/hers)- Corteva Agriscience; Tolulope Agunbiade (she/her/hers)- Texas A&M University; Blessing Ademokoya- Corteva Agriscience; Olufemi Ajayi (he/him/his)- Alabama State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Purdue Entomology Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Willamette 5, Hyatt
Organizers: Mardelle N. Lorton- Purdue University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Universities of Florida (UF), Georgia (UGA), and North Carolina (NCSU) Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom A, Hyatt
Organizers: Andrew E. Short- University of Florida
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Mid-Atlantic Mixer: University of Maryland, University of Delaware, Rutgers University, and Virginia Tech
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom B, Hyatt
Organizers: Timothy J. Kring- Virginia Polytechnic Institute and State University; Marlaina Marvin- Virginia Polytechnic Institute and State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Pacific Northwest Mixer: Oregon State University, University of Idaho, Montana State University, and Washington State University
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Deschutes Ballroom A, Hyatt

Organizers: Laura Corley Lavine (she/her/hers)- Washington State University; Silvia I. Rondon (she/her/hers)- Oregon State University; Robert Peterson- Montana State University; Stephen Cook- University of Idaho
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Penn State Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Willamette 3, Hyatt
Organizers: Susan Bass (he/him/his)- Pennsylvania State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Texas A&M University, Oklahoma State University, Society of Southwestern Entomologists, Southwestern Branch, and New Mexico State University Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom D, Hyatt
Organizers: Teresa Gold- Texas A&M University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: University of California Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Regency Ballroom C, Hyatt
Organizers: Joanna C. Chiu- University of California
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Auburn, Arkansas, Kentucky, and Tennessee Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Willamette 1, Hyatt
Organizers: David W. Held- Auburn University; S. Reddy Palli (he/him/his)- University of Kentucky; Emily McDermott- University of Arkansas; Dewayne Shoemaker- University of Tennessee
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Prairie States Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Oregon Convention Center, Lobby B, OCC
Organizers: Steven Harris- Iowa State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: The Ohio State University Mixer
Time: **7:30 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Deschutes Ballroom C, Hyatt
Organizers: James P. Strange, PhD- The Ohio State University; Sarah DeVilbiss- The Ohio State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Rainbow Mixer
Time: **8:00 PM - 11:00** PM Pacific
Location: The Avenue, The Avenue, The Avenue
Organizers: Jessica L. Ware (she/her/hers)- American Museum of Natural History; Lauren Esposito, PhDCalifornia Academy of Sciences; Thomas Sheehan (he/him/his)- University of Georgia; Kyle Jordan, BCE-BASF; Lewis Bartlett- University of Georgia
Categories: Meetings & Events; Diversity, Equity, and Inclusion

Abstract: General Admission: $5 (standing room only)VIP Ticket: $50 (includes access to VIP seating area and drink ticket)Our Rainbow Mixer remains one of the most attended (and late running!) networking events; this year we'll be holding it at "The Avenue" entertainment space, immediately across the street from the convention center. We'll have food trucks, alcoholic and soft drinks, and plenty of floor space to mix and mingle with your peers in the first part of the evening, before we transition into our performance showcase! Following on from the popular events in Vancouver and Phoenix, we're going and bigger and better with full AV support, LED screens and visual effects to elevate your performers (new and old!) like never before. Tickets for this one are limited, with a maximum capacity of 500 people, so register for this as part of your conference programming and we'll see you there (with or without glitter).If you feel like performing, reach out to get yourself committed to stretching your performance elytra.
Tracks: Meetings & Events; Diversity, Equity, and Inclusion

Tuesday, November 11, 2025

Title: Moderator Training
Time: **7:00 AM - 7:30 AM** Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America
Categories: General; Moderator Training
Abstract: All moderators and session organizers are required to attend one of the moderator training sessions. Here you will receive details on equipment operation, light controls, and other responsibilities. Training sessions will be held during the following times: Saturday, November 8 4-**4:30** p.m. Sunday, November 9 7-**7:30** a.m. and **12:30**-1 p.m. Monday, November 10 7-**7:30** a.m. Tuesday, November 11 7-**7:30** a.m. and **12:30**-1 p.m.
Tracks: General; Moderator Training

Title: SomosEnto Community Affairs Breakfast & Recognition Mixer
Time: **7:00 AM - 8:00 AM** Pacific
Location: Oregon Convention Center, C123, OCC
Organizers: Ricky Lara- California Department of Food and Agriculture; Carlos Esquivel- Bayer Crop Science; Ana Cabrera (she/her/hers)- Bayer Crop Science; Steven Reyna (he/him/his)- Bayer Crop Science; Rosa Lozano- Corteva Agriscience; Leslie Alejandra Aviles Lopez- Purdue University; Arani Cuevas-Sanchez- University of Western Ontario
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Michigan State University Alumni and Friends Breakfast
Time: **7:00 AM - 8:00 AM** Pacific
Location: Hyatt Regency Portland, Multnomah Room, Hyatt
Organizers: Heather Lenartson-Kluge- Michigan State University; Hannah Burrack- Michigan State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Presentation Preview Room (PPR)
Time: **7:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, A108-109, OCC
Organizers:
Categories: General; Presentation Preview Room (PPR)
Abstract: The Presentation Preview Room (PPR) is located in A108-109 of the Oregon Convention Center. Presenters are expected to upload their presentation the day before their scheduled talk. Operating hours are as follows: Saturday, November 8 3-6 p.m. Sunday, November 9 7 a.m. - 5 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m.
Tracks: General; Presentation Preview Room (PPR)

Title: Registration and Information Center
Time: **7:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC

Organizers:
Categories: General; Registration and Information Center
Abstract: Registration will be held in Pre-Function Lobby A of the Oregon Convention Center, during the following times: Saturday, November 8 2-6 p.m Sunday, November 9 7 a.m. - 8 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m. Phone number to the Registration and Information Center: + 1 (301) 731-4535 x3512
Tracks: General; Registration and Information Center

Title: Self Service Coat and Bag Check
Time: **7:00 AM - 8:00** PM Pacific
Location: Oregon Convention Center, A102, OCC
Organizers:
Categories: General; Self Service Coat and Bag Check
Abstract: Self Service coat and bag check can be found in A102 during the following times. This is an unattended, self-service coat and bag check area. Use at your own risk. ESA is not responsible for any lost, stolen, or damaged items.Sunday, November 9 7 a.m. - 10 p.m. Monday, November 10 7 a.m. - 8 p.m. Tuesday, November 11 7 a.m. - 8 p.m. Wednesday, November 12 7 a.m. - 6 p.m. The OCC has locker rentals available for short-term storage of personal items through their partners at LocketGo. These salmon-colored lockers are reservable with your mobile device and a credit card. There are three convenient locations throughout the building: MLK Lobby (near main entrance), Holladay Lobby (north end of the building), and Ginkoberry Concourse (south end of the building).
Tracks: General; Self Service Coat and Bag Check

Title: Lactation Room
Time: **7:00 AM - 8:00** PM Pacific
Location: Oregon Convention Center, C127, OCC
Organizers:
Categories: General; Lactation Room
Abstract: ESA is happy to provide a private and secure space for all nursing parents. ESA supports all nursing parents to nurse as needed in all general meeting spaces and nursing in public is protected by Oregon law. The ESA dedicated Lactation Room is located in C127 of the Oregon Convention Center. The room is equipped with a mini fridge for storage. OCC also provides two Mamava nursing suites. These private and secure suites are located near the A and E meeting rooms on Level 1.
Tracks: General; Lactation Room

Title: Relaxation Retreat
Time: **7:00 AM - 8:00** PM Pacific
Location: Oregon Convention Center, C128, OCC
Organizers:
Categories: General; Relaxation Retreat
Abstract: Take a break from the conference environment, improve your focus, reduce stress and anxiety, and relax. This room is a designated space designed to provide a calming and soothing environment for attendees.
Tracks: General; Relaxation Retreat

Title: Engaging All In the World of Entomology: Inclusive Design Strategies and Tools
Time: **8:00 AM - 9:00 AM** Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Madeline Elizabeth Potter (she/her/hers)- University of Maryland; Angela Saenz (she/her/hers)- University of Maryland
Categories: Mini Workshop; Diversity, Equity, and Inclusion; Professional Development
Abstract: Discover how to design science education and outreach that engages all learners using evidence-based strategies and the Universal Design for Learning (UDL) framework. This interactive workshop features hands-on activities and case studies, offering free tools and a collaborative space to develop strategies for creating flexible, accessible, and inclusive learning environments.
Tracks: Mini Workshop; Diversity, Equity, and Inclusion; Professional Development

Title: Insect Pest Pandemics: Bridging Industry and Academia for Global Solutions

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, E145, OCC
Organizers: Amanda Mei Furuya (she/her/hers)- University of Florida; Carolina Tieppo Camarozano (she/her/hers)- University of Florida; Mariana Monteiro de Souza Barros (she/her/hers)- University of Florida; Erik Roldan (he/him/his)- Corteva Agriscience
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: Join leading experts from academia and industry as we tackle the growing challenge of insect pest pandemics. Explore real-world case studies, cutting-edge research, and collaborative strategies to combat emerging threats in agriculture. Gain insights, network with specialists, and leave with actionable solutions to global food security.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Carolina Tieppo Camarozano (she/her/hers)- University of Florida - Carolina Tieppo Camarozano (she/her/hers)
8:05 AM - 8:15 AM Pacific: Assessing thrips diversity and diagnosis in leguminous crops across South Florida, Central America, and the Caribbean. Presenting Author: Felipe Barreto Da Silva- University of Florida. Bruno Rossitto De Marchi- BASF. Rafaela Ruschel- Eurofins. Paul Rugman-Jones- University of California Riverside. Hugh Smith- University of Florida - Felipe Barreto Da Silva; Bruno Rossitto De Marchi; Rafaela Ruschel; Paul Rugman-Jones; Hugh Smith
8:15 AM - 8:25 AM Pacific: After ten generations of spotted lanternfly in the US, what have we learned about its management?. Presenting Author: Julie Urban- Pennsylvania State University - Julie Urban
8:25 AM - 8:35 AM Pacific: Assessing IPM tools for sugarcane aphid management in sorghum in Haiti. Presenting Author: Wilfrid Calvin- University of Arizona. Romain Exilien, PhD- University of Florida - Wilfrid Calvin; Romain Exilien, PhD
8:35 AM - 8:45 AM Pacific: Partnerships for the protection of South Florida's agriculture: Tackling threats to sugarcane and rice. Presenting Author: Julien Beuzelin- University of Florida. Matthew VanWeelden- University of Florida. De-Fen Mou (she/her/hers)- University of Florida - Julien Beuzelin; Matthew VanWeelden; De-Fen Mou (she/her/hers)
8:45 AM - 8:55 AM Pacific: Break -
8:55 AM - 9:05 AM Pacific: Learning to manage emerging and invasive pests together: On-farm trials with growers. Presenting Author: Anna Meszaros- University of Florida. De-Fen Mou (she/her/hers)- University of Florida. Julien Beuzelin- University of Florida - Anna Meszaros; De-Fen Mou (she/her/hers); Julien Beuzelin
9:05 AM - 9:15 AM Pacific: From invasive crisis to IPM success: Industry-academic partnerships in managing the sweetpotato whitefly pandemic. Presenting Author: Jesse Richardson- Corteva Agriscience. Peter Ellsworth- University of Arizona - Jesse Richardson; Peter Ellsworth
9:15 AM - 9:25 AM Pacific: Bridging gaps: Success stories of BASF's Sefinainsecticide in addressing insect pest breakouts. Presenting Author: Bruno Rossitto De Marchi- BASF. Jurith Montag- BASF Agricultural Solutions. Siddhart Tiwari- BASF Agricultural Solutions - Bruno Rossitto De Marchi; Jurith Montag; Siddhart Tiwari
9:25 AM - 9:45 AM Pacific: Panel discussion -
9:45 AM - 9:50 AM Pacific: Closing remarks. Presenting Author: Amanda Mei Furuya (she/her/hers)- University of Florida - Amanda Mei Furuya (she/her/hers)

Title: Unlocking Hemipteran Genomes: An Interesting Puzzle Full of Rearrangements

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers: Anna-Maria Botha-Oberholster (she/her/hers)- University of Stellenbosch
Categories: Member Symposium; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity
Abstract: Understanding how genomic rearrangements potentially gives rise to pest virulence.
Tracks: Member Symposium; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity
Presentations:
8:00 AM - 8:02 AM Pacific: Introductory remarks. Presenting Author: Anna-Maria Botha-Oberholster (she/her/hers)- University of Stellenbosch - Anna-Maria Botha-Oberholster (she/her/hers)
8:02 AM - 8:20 AM Pacific: Genomic rearrangement in clonal and wild aphid biotypes as means of adaptation. Presenting Author: N. Francois V. Burger (he/him/his)- Stellenbosch University. Anna-Maria Botha-Oberholster (she/her/hers)- University of Stellenbosch - N. Francois V. Burger (he/him/his); Anna-Maria Botha-Oberholster (she/her/hers)

8:20 AM - 8:38 AM Pacific: What can multi-omics data of social hemipteran tell us about insect sociality and adaptation. Presenting Author: Xiaolei HUANG,- Fujian Agriculture and Forestry University. Hui Zhang- State Key Laboratory of Agricultural and Forestry Biosecurity, Fujian Agriculture and Forestry University, Fuzhou 350002, China. Qian Liu- State Key Laboratory of Agricultural and Forestry Biosecurity, Fujian Agriculture and Forestry University, Fuzhou 350002, China, China (People's Republic), Fujian, China (People's Republic), Fujian, China (People's Republic). Jianjun Lu- State Key Laboratory of Agricultural and Forestry Biosecurity, Fujian Agriculture and Forestry University, Fuzhou 350002, China, China (People's Republic). Zhixiang Liu- State Key Laboratory of Agricultural and Forestry Biosecurity, Fujian Agriculture and Forestry University, Fuzhou 350002, China. Fenglan Li- State Key Laboratory of Agricultural and Forestry Biosecurity, Fujian Agriculture and Forestry University, Fuzhou 350002, China, Fujian, China (People's Republic) - Xiaolei HUANG,; Hui Zhang; Qian Liu; Jianjun Lu; Zhixiang Liu; Fenglan Li
8:38 AM - 8:56 AM Pacific: The role of non-coding RNAs found in aphid genomes. Presenting Author: Eduard Venter (he/him/his)- University of Johannesburg - Eduard Venter (he/him/his)
8:56 AM - 9:14 AM Pacific: Bacteria associated with Russian wheat aphid honeydew modulate defense response gene pathways in barley. Presenting Author: Emily Luna (she/her/hers)- Colorado State University - Emily Luna (she/her/hers)
9:14 AM - 9:32 AM Pacific: Transcriptomic insights into Russian wheat aphid virulence and wheat defence modulation. Presenting Author: Hendrik Swiegers (he/him/his)- Stellenbosch University. Christine Foyer- University of Leeds. Anna-Maria Botha-Oberholster (she/her/hers)- University of Stellenbosch - Hendrik Swiegers (he/him/his); Christine Foyer; Anna-Maria Botha-Oberholster (she/her/hers)
9:32 AM - 9:45 AM Pacific: Closing remarks. Presenting Author: Anna-Maria Botha-Oberholster (she/her/hers)- University of Stellenbosch - Anna-Maria Botha-Oberholster (she/her/hers)

Title: How to Approach Polarized Topics in Science Communication

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Emily Clare Kraus, PhD (she/her/hers)- University of California
Categories: Workshop; Early Career; Professional Development; Student
Abstract: As educators and Extension professionals important knowledge should be properly disseminated to serve stakeholders' needs. This becomes difficult when vocabulary can cause negative responses, resulting in stakeholders shutting out information. There are strategies to teach challenging topics to all stakeholders. Here participants learn and develop these strategies with hands-on practice.
Tracks: Workshop; Early Career; Professional Development; Student

Title: Skills for Student and Early Career Success

Time: **8:00 AM - 10:00 AM** Pacific
Location: Oregon Convention Center, A106, OCC
Organizers: Beth Ferguson (she/her/hers)- Rutgers University; Hannah Levenson- North Carolina State University; Deena Wael Husein, PhD- USDA-ARS; Tristan A. Barley- University of Illinois
Categories: Workshop; Early Career; Professional Development; Student
Abstract: Learn crucial skills for career development for students and early-career members. In the 'speed networking' style, attendees will interact with experienced professionals to learn about Hatch Projects & Working Groups, Leadership in Professional Societies, Grant Panels, How to Be a Good Reviewer, Research Coordination, and Employment Outside of Academia.
Tracks: Workshop; Early Career; Professional Development; Student

Title: Buzzing with Knowledge: Supercharging K-12 Outreach by Empowering Educators

Time: **8:00 AM - 11:00 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers: Anupreksha Jain- University of Wisconsin
Categories: Section Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems; Professional Development
Abstract: Empowering K-12 educators to use entomology lessons in their classrooms and afterschool programs can be a powerful outreach strategy. Join us to learn from outreach practitioners who will share ideas, funding sources, takeaways, and impacts from developing teacher engagement programs and resources, as well as teachers who have utilized them.

Tracks: Section Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems; Professional Development
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Anupreksha Jain- University of Wisconsin - Anupreksha Jain
8:05 AM - 8:20 AM Pacific: Ewww! Engaging with entomology for educators. Presenting Author: Kelly Carruthers- University of Georgia - Kelly Carruthers
8:20 AM - 8:35 AM Pacific: Engaging K-12 teachers as partners in STEAM curriculum development and education research. Presenting Author: Kaitlin U. Campbell (she/her/hers)- University of North Carolina. Kathy Trundle- University of Utah. Rita Hagevik- University of North Carolina. Katherine Vela- Utah Valley University. Aurora Villa- University of Utah. William Boone- Miami University - Kaitlin U. Campbell (she/her/hers); Kathy Trundle; Rita Hagevik; Katherine Vela; Aurora Villa; William Boone
8:35 AM - 8:50 AM Pacific: Monarchs and more - A kaleidoscope of connections in the classroom. Presenting Author: Katie-Lyn Puffer- Monarch Joint Venture - Katie-Lyn Puffer
8:50 AM - 9:00 AM Pacific: Break -
9:00 AM - 9:15 AM Pacific: Lessons learned partnering with PK-12 educators to incorporate arthropod science into their classrooms. Presenting Author: Doug Alan Golick- University of Nebraska-Lincoln - Doug Alan Golick
9:15 AM - 9:30 AM Pacific: Pollinators in the science classroom: Inquiry and conservation with high school science teachers. Presenting Author: Elaine Evans (she/they)- University of Minnesota. Rob Blair- University of Minnesota. Jen Schultz- University of Minnesota. Lisa Curtis- University of Minnesota. Katie-Lyn Puffer- Monarch Joint Venture - Elaine Evans (she/they); Rob Blair; Jen Schultz; Lisa Curtis; Katie-Lyn Puffer
9:30 AM - 9:45 AM Pacific: Museums in miniature: From clutter to curiosity. Presenting Author: Caitlin Silva- Dallas Zoo. Patricia Louise Wooden (she/her/hers)- Mississippi State University. Niko Artley- Clemson University. Michael L. Ferro- Clemson University Arthropod Collection - Caitlin Silva; Patricia Louise Wooden (she/her/hers); Niko Artley; Michael L. Ferro
9:45 AM - 10:00 AM Pacific: Beyond taxonomy and morphology: Deep incorporation of entomology into the high school classroom. Presenting Author: Ted Snyder, BCE- Kradwell School - Ted Snyder, BCE
10:00 AM - 10:30 AM Pacific: Poster session -
10:00 AM - 10:30 AM Pacific: Equipping educators: Using pollinator education toolkits and training to reach broad audiences. Presenting Author: Elise Bernstein- University of Minnesota. Elaine Evans (she/they)- University of Minnesota. Anne Turnham- University of Minnesota. Katie-Lyn Puffer- Monarch Joint Venture - Elise Bernstein; Elaine Evans (she/they); Anne Turnham; Katie-Lyn Puffer
10:00 AM - 10:30 AM Pacific: From needs to knowledge: Using a needs analysis to improve STEM outreach. Presenting Author: Emily Justus- Purdue University - Emily Justus
10:00 AM - 10:30 AM Pacific: Insects in the classroom: Developing a workshop series for elementary teachers. Presenting Author: Amanda Lorenz- Michigan State University - Amanda Lorenz
10:00 AM - 10:30 AM Pacific: Meeting teachers where they are: Piloting an entomology workshop at a State Science Teachers' Conference. Presenting Author: Anupreksha Jain- University of Wisconsin. Emilie Parkanzky- University of Wisconsin. Patrick (PJ) Liesch- University of Wisconsin-Madison - Anupreksha Jain; Emilie Parkanzky; Patrick (PJ) Liesch
10:30 AM - 11:00 AM Pacific: Panel discussion –

Title: Fire and Its Influence on the Ecology and Conservation of Insect Pollinators

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers: Jim Rivers- Oregon State University; Clayton Traylor- Temple University; Megan Sampognaro- Oregon State University; Michael Ulyshen- USDA-Forest Service
Categories: Member Symposium
Abstract: Climate change and land management activities have led to increased wildfire activity worldwide, raising concerns about how fire impacts insect pollinators. This symposium will explore research that investigates interactions between fire and insect pollinators across diverse ecosystems, including grasslands, shrublands, and forests, and will cover a range of diverse topics.
Tracks: Member Symposium
Presentations:
8:00 AM - 8:20 AM Pacific: Interactions between butterfly activity and fire characteristics over 17 years in a grassland landscape. Presenting Author: Clayton Traylor- Temple University. Gabriela Cano- Temple University. Mark Swartz- The Pennsylvania State University. Matthew Banks- Temple University. Shannon Henry- Pennsylvania Department of Military and Veterans Affairs. Christopher LeClair- Temple University. Erika McKinney- Pennsylvania Department of Military and Veterans Affairs. Kayli Thomas- Pennsylvania Department of

Military and Veterans Affairs. Virginia Tilden- Pennsylvania Department of Military and Veterans Affairs. Brent Sewall- Temple University - Clayton Traylor; Gabriela Cano; Mark Swartz; Matthew Banks; Shannon Henry; Christopher LeClair; Erika McKinney; Kayli Thomas; Virginia Tilden; Brent Sewall
8:20 AM - 8:40 AM Pacific: Prescribed fire increases plant-pollinator network robustness and ameliorates secondary impacts of losing rare native forbs. Presenting Author: Susan Waters- Quamash EcoResearch. Rachel Mitchell- University of Arizona. Emily Brown- Quamash EcoResearch. Ethan Taber- University of Arizona - Susan Waters; Rachel Mitchell; Emily Brown; Ethan Taber
8:40 AM - 9:00 AM Pacific: Assessing native bee use of shaded fuel breaks in managed conifer forests of northern California. Presenting Author: Megan Sampognaro- Oregon State University. Skyler Burrows- Utah State University. Katie Moriarty- NCASI. Jake Verschuyl- National Council for Air and Stream Improvement. Jim Rivers- Oregon State University - Megan Sampognaro; Skyler Burrows; Katie Moriarty; Jake Verschuyl; Jim Rivers
9:00 AM - 9:20 AM Pacific: Comparison of early seral forest bee communities following clearcutting or wildfire depends on stand age and nesting guild. Presenting Author: Graham Frank- Oregon State University. Jim Rivers- Oregon State University. Jake Verschuyl- National Council for Air and Stream Improvement. Lincoln Best- Oregon State University. Matthew Betts- Oregon State University. Andrew Kroll- Weyerhaeuser. Mark Swanson- Oregon State University. Meg Krawchuk- Oregon State University - Graham Frank; Jim Rivers; Jake Verschuyl; Lincoln Best; Matthew Betts; Andrew Kroll; Mark Swanson; Meg Krawchuk
9:20 AM - 9:40 AM Pacific: Exploring the relationship between pyrodiversity and pollinator diversity in the Southern Appalachians. Presenting Author: Michael Ulyshen- USDA-Forest Service. Clayton Traylor- Temple University. Scott Horn- Southern Forestry Sci Lab. Jonathan Stober- USDA Forest Service. Emily Forrester- University of Guelph. Samm Reynolds- University of Guelph. Andrew Young- University of Guelph - Michael Ulyshen; Clayton Traylor; Scott Horn; Jonathan Stober; Emily Forrester; Samm Reynolds; Andrew Young
9:40 AM - 10:00 AM Pacific: The effects of prescribed fire in the Great Lakes Basin on native bees over 20 years. Presenting Author: Michael Cunningham-Minnick- Hiram College. Joan Milam- University of Massachusetts. Aliza Fassler- University of Massachusetts. David King- USDA-Forest Service - Michael Cunningham-Minnick; Joan Milam; Aliza Fassler; David King
10:00 AM - 10:20 AM Pacific: Break -
10:20 AM - 10:40 AM Pacific: The effects of prescribed fire and livestock grazing on native bees in an interior Pacific Northwest bunchgrass prairie. Presenting Author: Sandra Debano- Oregon State University. Scott Mitchell- Oregon State University. Heidi Schmalz- The Nature Conservancy. Skyler Burrows- Utah State University. Lesley Morris- University of Nevada. Scott Lukas- Oregon State University North Willamette Research and Extension Center - Sandra Debano; Scott Mitchell; Heidi Schmalz; Skyler Burrows; Lesley Morris; Scott Lukas
10:40 AM - 11:00 AM Pacific: The efficacy of floral enhancements for supporting pollinator populations in logged post-fire forests. Presenting Author: Lauren Ponisio- University of Oregon. Rose McDonald- University of Oregon - Lauren Ponisio; Rose McDonald
11:00 AM - 11:20 AM Pacific: The influence of floral enhancements on solitary bee reproduction in intensively managed, salvage-logged conifer forests. Presenting Author: Lily Bright- Oregon State University - Lily Bright
11:20 AM - 11:40 AM Pacific: Using the pollen of cavity nesting bees to assess post-fire aerial re-seeding success. Presenting Author: Seth Davis- Colorado State University - Seth Davis
11:40 AM - 12:00 PM Pacific: Evaluating native bee community response to forest restoration treatments in dry coniferous forests. Presenting Author: Ashley Mertens- Oregon State University - Ashley Mertens

Title: Tiny Couriers, Big Impact: How Extracellular Vesicles Orchestrate Inter-Species Communication

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B113, OCC
Organizers: Xiufeng Zhang- Kansas State University; Kristopher Silver (he/him/his)- Kansas State University; Dana Mitzel- National Agro and Bio-defense Facility; Ana Velez (she/her/hers)- University of Nebraska-Lincoln; Hameeda Sultana- University of Tennessee; Marija Milosevic- University of Nebraska-Lincoln
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology; Physiology, Biochemistry, and Toxicology
Abstract: Join us for an exciting symposium exploring the role of extracellular vesicles in arthropods! Unveil how these tiny wonders impact disease transmission, immunity, development and pest control. Engage with leading experts, enjoy interactive sessions, participate in a session-ending roundtable discussion, and experience the hidden world of arthropods through innovative research!
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology; Physiology, Biochemistry, and Toxicology

Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Xiufeng Zhang- Kansas State University - Xiufeng Zhang
8:05 AM - 8:20 AM Pacific: Selective incorporation of viral nucleocapsid into extracellular vesicles determines interspecies specificity of mosquitoes to flaviviruses. Presenting Author: Gong Cheng- Tsinghua University. Jichen Niu- Tsinghua University. Jun Ma- Shenzhen Bay Laboratory. Yibin Zhu- Tsinghua University. Penghua Wang- University of Connecticut Health Center - Gong Cheng; Jichen Niu; Jun Ma; Yibin Zhu; Penghua Wang
8:20 AM - 8:35 AM Pacific: A detailed view of EV cargoes from Culex tarsalis cells with West Nile virus. Presenting Author: Xiufeng Zhang- Kansas State University. Dana Mitzel- National Agro and Bio-defense Facility. Kristopher Silver (he/him/his)- Kansas State University - Xiufeng Zhang; Dana Mitzel; Kristopher Silver (he/him/his)
8:35 AM - 8:50 AM Pacific: Arthropod exosomal cargo as target for transmission blocking vaccine. Presenting Author: Hameeda Sultana- University of Tennessee - Hameeda Sultana
8:50 AM - 9:05 AM Pacific: Evaluation of an extracellular vesicle-based vaccine against ticks in cattle. Presenting Author: Sarah Durski- University of Wisconsin. Tean Zaheer- University of Wisconsin-Madison. Kavyasri Karumuri- University of Wisconsin-Madison. Stephanie Valencia- University of Wisconsin-Madison. Julia Gonzalez (she/her/hers)- Texas A&M University. Adela Oliva Chavez (she/her/hers)- University of Wisconsin - Sarah Durski; Tean Zaheer; Kavyasri Karumuri; Stephanie Valencia; Julia Gonzalez (she/her/hers); Adela Oliva Chavez (she/her/hers)
9:05 AM - 9:20 AM Pacific: EV-mediated plant virus transmission. Presenting Author: Feng Cui- Chinese Academy of Sciences. Hong Lu- Institute of Zoology, Chinese Academy of Sciences. Jiaming Zhu- Institute of Zoology, Chinese Academy of Sciences. Qian Wang- Institute of Zoology, Chinese Academy of Sciences - Feng Cui; Hong Lu; Jiaming Zhu; Qian Wang
9:20 AM - 9:30 AM Pacific: Break -
9:30 AM - 9:45 AM Pacific: The role of virus-like particles in interactions between parasitoid wasps and their host insects. Presenting Author: Gaelen Burke- University of Georgia. Corinne M. Stouthamer- University of Georgia. Meng Mao- University of Georgia - Gaelen Burke; Corinne M. Stouthamer; Meng Mao
9:45 AM - 10:00 AM Pacific: Extracellular vesicle-like particles from venom secretions of parasitoid wasps of Drosophila. Presenting Author: Shubha Govind- City College of New York. Johnny R. Ramroop- The City College, CUNY. M. Riyami Sabarullah Khan- The City College, CUNY. Lady V. Cardenas- The City College, CUNY. Christina Ramsarran- The City College, CUNY - Shubha Govind; Johnny R. Ramroop; M. Riyami Sabarullah Khan; Lady V. Cardenas; Christina Ramsarran
10:00 AM - 10:15 AM Pacific: Whisper of the male - female crosstalk. Presenting Author: Yael Heifetz- The Hebrew University of Jerusalem. Javier Sanchez Lopez- The Hebrew University of Jerusalem. Michael Belenky- The Hebrew University of Jerusalem. Shani Kornhaeuser- University of Basel. Yaara Yizhak- The Hebrew University of Jerusalem. Ido Apel- The Hebrew University of Jerusalem. Amalia Gothilf- The Hebrew University of Jerusalem. Einat Zelinger- The Hebrew University of Jerusalem. Hadas Volkov- Tel Aviv University. Noam Shomron- Tel Aviv University - Yael Heifetz; Javier Sanchez Lopez; Michael Belenky; Shani Kornhaeuser; Yaara Yizhak; Ido Apel; Amalia Gothilf; Einat Zelinger; Hadas Volkov; Noam Shomron
10:15 AM - 10:30 AM Pacific: Dialogue on the fly: Drosophila as a model for extracellular vesicle-based communication in the female reproductive tract. Presenting Author: Michael Belenky- The Hebrew University of Jerusalem. Javier Sanchez Lopez- The Hebrew University of Jerusalem. Shani Kornhaeuser- University of Basel. Hadas Volkov- Tel Aviv University. Ido Apel- The Hebrew University of Jerusalem. Amalia Gothilf- The Hebrew University of Jerusalem. Noam Shomron- Tel Aviv University. Yael Heifetz- The Hebrew University of Jerusalem - Michael Belenky; Javier Sanchez Lopez; Shani Kornhaeuser; Hadas Volkov; Ido Apel; Amalia Gothilf; Noam Shomron; Yael Heifetz
10:30 AM - 10:45 AM Pacific: A function of extracellular vesicles beyond intercellular signaling: Implications in epithelial cell ending. Presenting Author: Kohki Kawane- Kyoto Sangyo University. Akihito Kira- Kyoto Sangyo University. Marina Awai- Kyoto Sangyo University - Kohki Kawane; Akihito Kira; Marina Awai
10:45 AM - 10:55 AM Pacific: Break -
10:55 AM - 11:10 AM Pacific: Unraveling extracellular vesicle biogenesis in Diabrotica undecimpunctata cells. Presenting Author: Festus Ajibefun- Kansas State University. Marija Milosevic- University of Nebraska-Lincoln. Xiufeng Zhang- Kansas State University. Ana Velez (she/her/hers)- University of Nebraska-Lincoln. Kristopher Silver (he/him/his)- Kansas State University - Festus Ajibefun; Marija Milosevic; Xiufeng Zhang; Ana Velez (she/her/hers); Kristopher Silver (he/him/his)
11:10 AM - 11:25 AM Pacific: Extracellular vesicle-mediated RNAi spread in Western corn rootworm. Presenting Author: Marija Milosevic- University of Nebraska-Lincoln. Arnubio Valencia-Jimenez- Universidad De Caldas. Festus Ajibefun- Kansas State University. Xiufeng Zhang- Kansas State University. Kristopher Silver (he/him/his)-

Kansas State University. Ana Velez (she/her/hers)- University of Nebraska-Lincoln - Marija Milosevic; Arnubio Valencia-Jimenez; Festus Ajibefun; Xiufeng Zhang; Kristopher Silver (he/him/his); Ana Velez (she/her/hers)
11:25 AM - 11:40 AM Pacific: Minicells-mediated delivery improves cellular uptake of macromolecules and efficiency of biopesticides. Presenting Author: Ibrahim A. El-Shesheny- Tanta University. Nanasaheb Chougule- AgroSpheres. Cris Oppert- AgroSpheres. Joseph Frank (he/him/his)- AgroSpheres. Ameer Shakeel (he/him/his)- AgroSpheres. Juan Luis Jurat-Fuentes- University of Tennessee - Ibrahim A. El-Shesheny; Nanasaheb Chougule; Cris Oppert; Joseph Frank (he/him/his); Ameer Shakeel (he/him/his); Juan Luis Jurat-Fuentes
11:40 AM - 11:55 AM Pacific: Isolation, characterization, and functional assays of extracellular vesicles derived from Leishmania tarentolae. Presenting Author: Sima Rafati- Pasteur Institute of Iran. Mehrdad Shokouhy- University of Isfahan. Hamzeh Sarvnaz- Pasteur Institute of Iran. Yasaman Taslimi- Pasteur Institute of Iran. Mahya Lajevardi- Pasteur Institute of Iran. Sima Habibzadeh- Pasteur Institute of Iran. Amir Mizbani- ETH Zurich. Faezeh Shekari- Royan Institute for Stem Cell Biology and Technology. Mandana Behbahani- University of Isfahan. Ana Torrecilhas- Universidade Federal de So Paulo - Sima Rafati; Mehrdad Shokouhy; Hamzeh Sarvnaz; Yasaman Taslimi; Mahya Lajevardi; Sima Habibzadeh; Amir Mizbani; Faezeh Shekari; Mandana Behbahani; Ana Torrecilhas
11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Xiufeng Zhang- Kansas State University - Xiufeng Zhang

Title: Invasive Plants and Public Health: Unraveling the Connections to Vector-Borne Diseases

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers: Brian Allan (he/him/his)- University of Illinois; Sadie Ryan, PhD (she/her/hers)- University of Florida; Luke Flory, PhD (he/him/his)- University of Florida
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology; Plant-Insect Ecosystems
Abstract: A growing body of evidence demonstrates that invasions by non-native plant species can alter the transmission of pathogens transmitted by ticks, mosquitoes, and other arthropod vectors. In this symposium we will review case studies, highlight important mechanisms, and offer recommendations for management of plant invasions to benefit human health.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Brian Allan (he/him/his)- University of Illinois - Brian Allan (he/him/his)
8:05 AM - 8:25 AM Pacific: Historical perspectives on plant-vector interactions in entomology research. Presenting Author: Brian Allan (he/him/his)- University of Illinois - Brian Allan (he/him/his)
8:25 AM - 8:45 AM Pacific: Urban tree canopy influences microbial assembly and mosquito development in container habitat. Presenting Author: Shannon L. LaDeau- Cary Institute of Ecosystem Studies - Shannon L. LaDeau
8:45 AM - 9:05 AM Pacific: Effects of grass invasions on microclimate, tick survival, and habitat host use. Presenting Author: Luke Flory, PhD (he/him/his)- University of Florida - Luke Flory, PhD (he/him/his)
9:05 AM - 9:20 AM Pacific: Break -
9:20 AM - 9:40 AM Pacific: Mapping the next meal: Projecting invasive plant mediated tick host range shifts in a changing world. Presenting Author: Sadie Ryan, PhD (she/her/hers)- University of Florida - Sadie Ryan, PhD (she/her/hers)
9:40 AM - 10:00 AM Pacific: Perspectives on landowner willingness to adopt invasive plant management for vector control. Presenting Author: Allison Gardner (she/her/hers)- University of Maine - Allison Gardner (she/her/hers)
10:00 AM - 10:20 AM Pacific: Pathogenic islands of refuge on the Great Plains: Unraveling the effects of invasive Eastern Redcedar on mosquitoes and ticks in the southern Great Plains. Presenting Author: Bruce Noden- Oklahoma State University - Bruce Noden
10:20 AM - 10:40 AM Pacific: Littered with risk: How urban plant legacies shape mosquito competition and public health inequities. Presenting Author: Paul Leisnham- University of Maryland - Paul Leisnham
10:40 AM - 10:55 AM Pacific: Break -
10:55 AM - 11:15 AM Pacific: Blacklegged ticks and Japanese barberry: An ecological perfect storm. Presenting Author: Scott Williams- Connecticut Agricultural Experiment Station - Scott Williams
11:15 AM - 11:35 AM Pacific: Associations between understory plant community composition and blacklegged tick populations in southern Vermont forests. Presenting Author: William Landesman- Vermont State University - William Landesman

11:35 AM - 11:55 AM Pacific: A synthesis of mechanisms for effects of plant invasions on tick-borne disease risk. Presenting Author: Maria Munoz- University of Illinois - Maria Munoz
11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Brian Allan (he/him/his)- University of Illinois - Brian Allan (he/him/his)

Title: Coping Under Stress: Adaptive Strategies to Toxins by Arthropods

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F151, OCC
Organizers: Adekunle Adesanya (he/him/his)- Corteva Agriscience; Fang Zhu- Pennsylvania State University; Chaoyang Zhao- USDA-ARS
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology; Medical, Urban, and Veterinary Entomology
Abstract: Attendees for this symposium will learn the state of the art knowledge on insecticide resistance as it pertains to its mechanism, management on a global scale.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology; Medical, Urban, and Veterinary Entomology
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Adekunle Adesanya (he/him/his)- Corteva Agriscience - Adekunle Adesanya (he/him/his)
8:05 AM - 8:17 AM Pacific: Insecticide resistance as a case study of stress-induced evolutionary processes. Presenting Author: Yolanda Chen (she/her/hers)- University of Vermont. Blair Christensen (she/her/hers)- University of Vermont. Alex Kissonergis- University of Vermont. Sam Bjorklun- University of Vermont. Lamija Semic- University of Vermont. Joe Gunn (he/him/his)- University of Vermont - Yolanda Chen (she/her/hers); Blair Christensen (she/her/hers); Alex Kissonergis; Sam Bjorklun; Lamija Semic; Joe Gunn (he/him/his)
8:17 AM - 8:29 AM Pacific: Minor genes can delay evolution of major resistance. Presenting Author: David W. Onstad (he/him/his)- Entomological Society of America - David W. Onstad (he/him/his)
8:29 AM - 8:41 AM Pacific: Sublethal stress in pest management. Presenting Author: Aaron Buzza- University of Maine. Andrei Alyokhin- University of Maine - Aaron Buzza; Andrei Alyokhin
8:41 AM - 8:53 AM Pacific: Leveraging pain to gain: Insights from a prolific generalist herbivore. Presenting Author: Adekunle Adesanya (he/him/his)- Corteva Agriscience - Adekunle Adesanya (he/him/his)
8:53 AM - 9:05 AM Pacific: Adaptive invaders: Behavioral resistance and sustainable innovations in pest management. Presenting Author: Caleb B. Hubbard- New Mexico State University - Caleb B. Hubbard
9:05 AM - 9:17 AM Pacific: Co-option of generalized detoxification enzymes enables efficient metabolism of plant defensive toxins in a nascent herbivorous lineage. Presenting Author: Andrew Gloss- University of Maine. Anna Nelson- Cornell University. Noah Whiteman- UC Berkley - Andrew Gloss; Anna Nelson; Noah Whiteman
9:17 AM - 9:22 AM Pacific: Break -
9:22 AM - 9:34 AM Pacific: Insecticide resistance mechanisms in the fall armyworm (Spodoptera frugiperda J.E. Smith). Presenting Author: David Mota-Sanchez- Michigan State University. Ralf Nauen- Bayer Crop Science. Eric L. Patterson- Michigan State University. Celso Omoto- University of So Paulo. Barry Pittendrigh- Purdue University. Omar Alejandro Posos-Parra, Sr.- Michigan State University. Shatrughan Shiva (he/him/his)- Michigan State University. Keon Mook Seong- Chungnam National University - David Mota-Sanchez; Ralf Nauen; Eric L. Patterson; Celso Omoto; Barry Pittendrigh; Omar Alejandro Posos-Parra, Sr.; Shatrughan Shiva (he/him/his); Keon Mook Seong
9:34 AM - 9:46 AM Pacific: The genetic architecture of Helicoverpa armigera's resistance to flubendiamide. Presenting Author: Douglas Amado- University of Cambridge. Douglas Amado- University of Cambridge. Eva Koch- University of Cambridge. Erick Cordeiro, Department of Entomology and Acarology- Universidade de So Paulo. Antonio Arajo- University of So Paulo. Antonio Garcia- University of So Paulo. David G. Heckel- Max Planck Institute for Chemical Ecology. Alberto Soares Correa, PhD- Universidade de So Paulo. Chris Jiggins- University of Cambridge. Celso Omoto- University of So Paulo - Douglas Amado; Douglas Amado; Eva Koch; Erick Cordeiro, Department of Entomology and Acarology; Antonio Arajo; Antonio Garcia; David G. Heckel; Alberto Soares Correa, PhD; Chris Jiggins; Celso Omoto
9:46 AM - 9:58 AM Pacific: Structural and functional insights into a Sigma-class glutathione S-transferase from Colorado potato beetle: A versatile enzyme in xenobiotic adaptation. Presenting Author: Timothy Moural- Pennsylvania State University. Fang Zhu- Pennsylvania State University - Timothy Moural; Fang Zhu
9:58 AM - 10:10 AM Pacific: Molecular insights into G-protein coupled receptor dynamics in Tetranychus urticae across industrial hemp cultivars. Presenting Author: Ting Li- Alabama State University. Junhuan Xu- Alabama State University. Olufemi Ajayi (he/him/his)- Alabama State University. Nathanael Ajibola- Alabama State University - Ting Li; Junhuan Xu; Olufemi Ajayi (he/him/his); Nathanael Ajibola

10:10 AM - 10:22 AM Pacific: Adaptive divergence of nicotinic acetylcholine receptors in the major malaria vectors Anopheles gambiae and An. Coluzzii under insecticide pressure. Presenting Author: Colince Kamdem- University of Texas - Colince Kamdem
10:22 AM - 10:27 AM Pacific: Break -
10:27 AM - 10:39 AM Pacific: Genomic analysis of Drosophila suzukii insecticide resistance. Presenting Author: Christine Tabuloc- University of California. Joanna C. Chiu- University of California. Frank Zalom- UC Davis - Christine Tabuloc; Joanna C. Chiu; Frank Zalom
10:39 AM - 10:51 AM Pacific: Acaricide resistance monitoring and structural insights for precision Tetranychus urticae management. Presenting Author: Fang Zhu- Pennsylvania State University. Douglas Walsh- Washington State University - Fang Zhu; Douglas Walsh
10:51 AM - 11:03 AM Pacific: Microbial and transcriptional shifts in whiteflies under multi-generational insecticide exposure. Presenting Author: Adam Wong- University of Florida. Saif malook- University of Tennessee. Arinder Arora- Texas A&M University - Adam Wong; Saif malook; Arinder Arora
11:03 AM - 11:15 AM Pacific: A midgut transcriptional regulatory loop favors an insect host to withstand a bacterial pathogen. Presenting Author: Zhaojiang Guo- Chinese Academy of Agricultural Sciences - Zhaojiang Guo
11:15 AM - 11:27 AM Pacific: Framework for modelling insecticide resistance. Presenting Author: Ricardo Kanitz- Syngenta - Ricardo Kanitz
11:27 AM - 11:39 AM Pacific: Resistance status to isocycloseram (PLINAZOLIN technology) with special emphasis on the necessity for pro-active resistance management. Presenting Author: Christoph Zimmer- Syngenta - Christoph Zimmer
11:39 AM - 11:54 AM Pacific: Discussion -
11:54 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Fang Zhu- Pennsylvania State University - Fang Zhu

Title: Pollinators, Pests & Pesticides: Innovation in IPPM

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 254, OCC
Organizers: Shianne E. Lindsay (she/her/hers)- Cornell University; Scott McArt- Cornell University
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: Join us for "Pollinators, Pests, and Pesticides: Innovations in IPPM", where science meets sustainable agriculture and conservation! This engaging session will unpack current innovations in pest management and pollinator conservation in agroecosystems, offering evidence-based insight for advancing sustainable agriculture through research and policy.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Shianne E. Lindsay (she/her/hers)- Cornell University - Shianne E. Lindsay (she/her/hers)
8:05 AM - 8:20 AM Pacific: Navigating IPPM in the modern era: Lessons from the apple orchard. Presenting Author: Shianne E. Lindsay (she/her/hers)- Cornell University. Scott McArt- Cornell University - Shianne E. Lindsay (she/her/hers); Scott McArt
8:20 AM - 8:35 AM Pacific: Gourd times and bug crimes: Pests and pollinators in the pumpkin patch. Presenting Author: Natalie Constancio- The Ohio State University. Ashley Leach- Ohio State University - Natalie Constancio; Ashley Leach
8:35 AM - 8:50 AM Pacific: Lessons from IPPM in blueberry and alfalfa seed production. Presenting Author: Kelsey Graham- USDA-ARS. Kelsey Graham- USDA-ARS. Rufus Isaacs- Michigan State University. Douglas Walsh- Washington State University. Scott McArt- Cornell University - Kelsey Graham; Kelsey Graham; Rufus Isaacs; Douglas Walsh; Scott McArt
8:50 AM - 9:05 AM Pacific: Evaluating flowering cover crops as an IPPM tactic on commercial watermelon farms. Presenting Author: Zeus Mateos- Purdue University. Ashley Leach- Ohio State University. Ian Kaplan- Purdue University - Zeus Mateos; Ashley Leach; Ian Kaplan
9:05 AM - 9:15 AM Pacific: Panel discussion -
9:15 AM - 9:30 AM Pacific: Break and poster session -
9:15 AM - 9:30 AM Pacific: Mapping pollinator persistence: A spatially explicit model of bee reproduction under combined floral resource and pesticide stressors. Presenting Author: Joanna Gould- Emory University. Eric Lonsdorf- Emory University - Joanna Gould; Eric Lonsdorf
9:30 AM - 9:45 AM Pacific: Evaluating pollinator pesticide exposure and accumulation using multiple sample types. Presenting Author: Michelle Hladik- U.S. Geological Survey - Michelle Hladik

9:45 AM - 10:00 AM Pacific: Exploring variation in pesticide contamination, nutritional quality, and diversity of pollen collected by honey bees in Wisconsin landscapes. Presenting Author: Hannah Gaines-Day- University of Wisconsin. Claudio Gratton- University of Wisconsin - Hannah Gaines-Day; Claudio Gratton
10:00 AM - 10:15 AM Pacific: A risk based pollination network for non-Apis bees demonstrates the importance of understory plant contamination. Presenting Author: Emily Carlson- Oregon State University. Lincoln Best- Oregon State University. Andony Melathopoulos- Oregon State University. Saeed Mohamadzade Namin- Oregon State University. Ramesh Sagili (he/him/his)- Oregon State University - Emily Carlson; Lincoln Best; Andony Melathopoulos; Saeed Mohamadzade Namin; Ramesh Sagili (he/him/his)
10:15 AM - 10:25 AM Pacific: Panel discussion -
10:25 AM - 10:40 AM Pacific: Break -
10:40 AM - 10:55 AM Pacific: WiBee 2.0: An innovative tool for grower engagement and pollinator management in fruit crops. Presenting Author: Claudio Gratton- University of Wisconsin. Hannah Gaines-Day- University of Wisconsin. Sumikshya KC (she/her/hers)- University of Wisconsin-Madison. Jess Gambel- University of Wisconsin-Madison. Russell L. Groves, PhD- University of Wisconsin. Benjamin Bradford- University of Wisconsin - Claudio Gratton; Hannah Gaines-Day; Sumikshya KC (she/her/hers); Jess Gambel; Russell L. Groves, PhD; Benjamin Bradford
10:55 AM - 11:10 AM Pacific: Meeting growers where they are: IPPM as a tool for more impactful pollinator conservation. Presenting Author: Staci Cibotti- Xerces Society for Invertebrate Conservation. Emily May- The Xerces Society for Invertebrate Conservation. Mia Park- Xerces Society - Staci Cibotti; Emily May; Mia Park
11:10 AM - 11:25 AM Pacific: Refining integrated pest and pollinator management framework to protect pollinator health. Presenting Author: Neelendra Joshi- University of Arkansas. Olivia Kline (she/her/hers)- University of Arkansas. Ngoc Thanh Phan- University of Arkansas. David Biddinger (he/him/his)- Penn State University - Neelendra Joshi; Olivia Kline (she/her/hers); Ngoc Thanh Phan; David Biddinger (he/him/his)
11:25 AM - 11:40 AM Pacific: Integrating pollinator habitat and pesticide risk into landscape-scale decision support for restoration and management. Presenting Author: Eric Lonsdorf- Emory University. Maggie Douglas- Dickinson College. Chris Nootenboom- Natural Capital Insights. Dan Gefell- US Fish & Wildlife Service. Mary Centrella- US Fish & Wildlife Service. Wayne Thomgartin- US Geological Survey. Sarah Warner- US Fish & Wildlife Service - Eric Lonsdorf; Maggie Douglas; Chris Nootenboom; Dan Gefell; Mary Centrella; Wayne Thomgartin; Sarah Warner
11:40 AM - 11:50 AM Pacific: Panel discussion -
11:50 AM - 11:55 AM Pacific: Closing remarks. Presenting Author: Shianne E. Lindsay (she/her/hers)- Cornell University - Shianne E. Lindsay (she/her/hers)

Title: One Hundred Years of Entomopathogenic Nematology: Innovations Biocontrol Through the Generations

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, D137-138, OCC
Organizers: David Shapiro-Ilan (he/him/his)- USDA-ARS; Edwin Lewis- University of Idaho
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: Entomopathogenic nematodes have an exceptional legacy as biocontrol agents and as model organisms for various disciplines. This symposium will feature the latest advances in entomopathogenic nematology including fundamental (e.g., genomics, ecology) and applied aspects (production, formulation, application technology). Topics will be applicable to other biocontrol agents in diverse cropping systems.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:20 AM Pacific: Diversity of entomopathogenic nematodes and their symbiotic bacteria. Presenting Author: Patricia Stock (she/her/hers)- Oregon State University - Patricia Stock (she/her/hers)
8:20 AM - 8:40 AM Pacific: Innovations in genetics and genomics of entomopathogenic nematodes. Presenting Author: Adler Dillman- University of California - Adler Dillman
8:40 AM - 9:00 AM Pacific: Infection decisions: Do entomopathogenic nematodes demonstrate the wisdom of the crowd?. Presenting Author: Edwin Lewis- University of Idaho. Glen N. Stevens- University of Idaho. David Shapiro-Ilan (he/him/his)- USDA-ARS - Edwin Lewis; Glen N. Stevens; David Shapiro-Ilan (he/him/his)
9:00 AM - 9:20 AM Pacific: Advances in entomopathogenic nematodes production, formulation and application technology: Focus on orchard crops. Presenting Author: David Shapiro-Ilan (he/him/his)- USDA-ARS - David Shapiro-Ilan (he/him/his)
9:20 AM - 9:40 AM Pacific: Break -
9:40 AM - 10:00 AM Pacific: Interactions of entomopathogenic nematodes with chemical pesticides and other biologicals. Presenting Author: Albrecht Koppenhfer- Rutgers University - Albrecht Koppenhfer

10:00 AM - 10:20 AM Pacific: From theory to practice: Current global commercial status of beneficial nematodes. Presenting Author: Diana Londono- BASF. Jen Browning- BASF P&SS Turf + Ornamentals. Matthew Vernon- BASF Corporation. Katelyn Venner- BASF Corporation – Diana Londono; Jen Browning; Matthew Vernon; Katelyn Venner
10:20 AM - 10:40 AM Pacific: The early years, a legacy of entomopathogenic nematology. Presenting Author: George Poinar- Oregon State University - George Poinar
10:40 AM - 11:10 AM Pacific: Panel discussion –

Title: Advances in Areawide Pest Management of Invasive and Endemic Pests in Agroecosystems

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, D135, OCC
Organizers: Seth Dorman- USDA-ARS; Govinda Shrestha, PhD- South Dakota State University; Michael J. Brewer- Texas A&M University
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: Recent technological and methodological advances can be leveraged to enhance Areawide pest management (AWPM) programs. Benefits to AWPM may include improvements to pest and natural enemy surveillance and the allocation of pest management resources through spatiotemporal pest forecasts, automated pest monitoring systems, and broad dissemination of real-time pest reporting information.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Seth Dorman- USDA-ARS - Seth Dorman
8:05 AM - 8:20 AM Pacific: Assessing environmental drivers of insect pests in Oregon agroecosystems to develop areawide decision support tools. Presenting Author: Seth Dorman- USDA-ARS. Casey Cruse- USDA-ARS. Darrin Walenta- Oregon State University Extension Service. Navneet Kaur (she/her/hers)- Oregon State University. Hannah Rivedal- USDA-ARS. Nicole Anderson- Department of Grain and Forage Seed Agronomy, Norwegian Institute of Bioeconomy Research - Seth Dorman; Casey Cruse; Darrin Walenta; Navneet Kaur (she/her/hers); Hannah Rivedal; Nicole Anderson
8:20 AM - 8:35 AM Pacific: Dynamic cropping systems drive Helicoverpa zea (Lepidoptera: Noctuidae) in southern agroecosystems. Presenting Author: Anders Huseth- North Carolina State University. Eric Yanchenko- Global Connectivity Program, Akita International University. Brian Reich- Department of Statistics, North Carolina State University. Natalie Nelson- North Carolina State University. Samuel Wallace- School of Integrative Plant Science, Soil and Crop Sciences Section, Cornell University. Dominic Reisig- North Carolina State University - Anders Huseth; Eric Yanchenko; Brian Reich; Natalie Nelson; Samuel Wallace; Dominic Reisig
8:35 AM - 8:50 AM Pacific: Improving the effectiveness of male annihilation technique against invasive tropical fruit flies. Presenting Author: Nicholas Manoukis- USDA-ARS. Charlotte Aldebron- USDA. Hyoseok Lee- Research Institute of Climate Change and Agriculture, National Institute of Horticultural and Herbal Science. Matthew S. Siderhurst- USDA-ARS - Nicholas Manoukis; Charlotte Aldebron; Hyoseok Lee; Matthew S. Siderhurst
8:50 AM - 9:05 AM Pacific: Linking research and extension to build a decision support system for insect pests and invasive species. Presenting Author: Dave Crowder (he/him/his)- Washington State University - Dave Crowder (he/him/his)
9:05 AM - 9:20 AM Pacific: Real-time Pheno Forecasts to support the areawide management of major invasive pests in U.S. agroecosystems. Presenting Author: Brittany S. Barker, PhD- Oregon State University. Len Coop- Oregon State University. Erin Posthumus- USA National Phenology Network, School of Natural Resources and the Environment, University of Arizona. Theresa Crimmins- USA National Phenology Network, School of Natural Resources and the Environment, University of Arizona - Brittany S. Barker, PhD; Len Coop; Erin Posthumus; Theresa Crimmins
9:20 AM - 9:35 AM Pacific: Bugs in the backend: Building better entomological decision support tools. Presenting Author: Robert Clark- EcoData Technology LLC - Robert Clark
9:35 AM - 9:50 AM Pacific: Break -
9:50 AM - 10:05 AM Pacific: Visually-guided, long-distance flight navigation in spotted-wing drosophila. Presenting Author: Timothy Warren- Oregon State University - Timothy Warren
10:05 AM - 10:20 AM Pacific: Areawide program for spotted-wing drosophila in the West Coast. Presenting Author: Jana Lee- USDA-ARS. Elizabeth Beers- Washington State University. Kent Daane- University of California. Seth Dorman- USDA-ARS. Brian Hogg- USDA-ARS. Eric Janasov- USDA - ARS. Jason Myer- NW Berry Foundation. Kyoo Park- Oregon State University. Max Raggozino- Oregon Department of Agiculture. Peter Smytheman- Washington State University. Vaughn M. Walton- Oregon State University - Jana Lee; Elizabeth

Beers; Kent Daane; Seth Dorman; Brian Hogg; Eric Janasov; Jason Myer; Kyoo Park; Max Raggozino; Peter Smytheman; Vaughn M. Walton
10:20 AM - 10:35 AM Pacific: Common agricultural landscape elements serve as predictors of Melanaphis sorghi and natural enemy abundance: Implications for areawide pest management in a sorghum agroecosystem. Presenting Author: Pius A. Bradicich- Texas A&M University. X. Ben Wu- Department of Ecology & Conservation Biology, Texas A&M University. Michael J. Brewer- Texas A&M University - Pius A. Bradicich; X. Ben Wu; Michael J. Brewer
10:35 AM - 10:50 AM Pacific: The role of non-native parasitoids in the areawide biological control of the invasive spotted wing drosophila in Italy. Presenting Author: Fabrizio Lisi (he/him/his)- University of Catania - Fabrizio Lisi (he/him/his)
10:50 AM - 11:05 AM Pacific: Areawide IPM and aphid natural enemy thresholds: Deployment across climatic regions. Presenting Author: Kristopher Giles- Oklahoma State University. Nina Vazquez- Oklahoma State University. Norman Elliott- USDA-ARS. Michael J. Brewer- Texas A&M University - Kristopher Giles; Nina Vazquez; Norman Elliott; Michael J. Brewer
11:05 AM - 11:20 AM Pacific: Areawide management of lepidopteran pests in floral hemp. Presenting Author: Govinda Shrestha, PhD- South Dakota State University. Seth Dorman- USDA-ARS - Govinda Shrestha, PhD; Seth Dorman
11:20 AM - 11:40 AM Pacific: Closing remarks and discussion –

Title: SomosEnto: Advancing Entomology Through Legacy and Innovation

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers: Steven Reyna (he/him/his)- Bayer Crop Science; Leslie Alejandra Aviles Lopez- Purdue University; Ana Cabrera (she/her/hers)- Bayer Crop Science; Carlos Esquivel- Bayer Crop Science; Ricky Lara- California Department of Food and Agriculture; Rosa Lozano- Corteva Agriscience
Categories: Member Symposium; Diversity, Equity, and Inclusion
Abstract: Join us for "SomosEnto: Advancing Entomology Through Legacy and Innovation," where attendees will explore the impactful contributions of under-represented Latin/Hispanic entomologists. This engaging session will inspire the next generation through success stories, foster cross-cultural collaborations, and provide valuable networking opportunities to build lasting connections that drive the future of entomology.
Tracks: Member Symposium; Diversity, Equity, and Inclusion
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: Ricky Lara- California Department of Food and Agriculture - Ricky Lara
8:05 AM - 8:30 AM Pacific: From fields to cities: Expanding access to IPM for spanish-speaking New Yorkers. Presenting Author: Alejandro Calixto- Cornell University - Alejandro Calixto
8:30 AM - 8:50 AM Pacific: A non linear path career: From agriculture to medical entomology and back. Presenting Author: Virna Stillwaugh- Northwest Horticultural Council - Virna Stillwaugh
8:50 AM - 9:10 AM Pacific: Carlos Finlay, Carlos Chagas, and Carlos Orellana (my dad): How past legacies create innovation in the field of medical entomology. Presenting Author: Carla-Cristina Melo Edwards- University of California - Carla-Cristina Melo Edwards
9:10 AM - 9:30 AM Pacific: From Mexico to Canada: A borderless continent for leafhoppers, a land of barriers for humans. Presenting Author: Edel Perez Lopez- Universite Laval - Edel Perez Lopez
9:30 AM - 9:40 AM Pacific: Break -
9:40 AM - 10:05 AM Pacific: Balancing a growing career in integrated pest management of rice and professional leadership roles. Presenting Author: Lina Bernaola- Texas A&M University - Lina Bernaola
10:05 AM - 10:25 AM Pacific: From cloud forests to corn fields: The evolution of my career in entomology. Presenting Author: Andres Sandoval-Mojica, Ph.D.- Corteva Agriscience - Andres Sandoval-Mojica, Ph.D.
10:25 AM - 10:45 AM Pacific: Tracing the path: How academia and industry shaped my journey in entomology. Presenting Author: Gloria Melotto- GreenLight Biosciences, Inc. - Gloria Melotto
10:45 AM - 11:05 AM Pacific: Empowering communities with science: Biological control, extension, and the path forward. Presenting Author: Sara Salgado Astudillo- University of Florida - Sara Salgado Astudillo
11:05 AM - 11:15 AM Pacific: Closing remarks. Presenting Author: Leslie Alejandra Aviles Lopez- Purdue University - Leslie Alejandra Aviles Lopez
11:15 AM - 12:00 PM Pacific: Panel discussion –

Title: eDNA as a Tool for Inferring Insect Species Presence and Characterizing Communities

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers: Jeff Everett- U.S. Fish and Wildlife Service; David S. Pilliod- U.S. Geological Survey; Tabitha Graves (she/her/hers)- US Geological Survey
Categories: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Abstract: This state-of-the-science symposium will cover using eDNA techniques to understand insect communities. Experts will present lessons learned about sample designs and field methods to maximize results, DNA degradation, novel lab techniques, and how this can be applied to management and research questions for communities and species of concern.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:05 AM Pacific: Introductory remarks. Presenting Author: David S. Pilliod- U.S. Geological Survey - David S. Pilliod
8:05 AM - 8:20 AM Pacific: Stability of pollinator environmental DNA (eDNA) on flowers under laboratory and field conditions. Presenting Author: Muruleedhara Byappanahalli- U.S. Geological Survey. Dawn Shively- USGS, Great Lakes Science Center. Noel Pavlovic- USGS, Great Lakes Science Center. Leslie Reyes- USGS, Great Lakes Science Center - Muruleedhara Byappanahalli; Dawn Shively; Noel Pavlovic; Leslie Reyes
8:20 AM - 8:35 AM Pacific: Development and validation of an eDNA assay for detection of the endangered Franklin's bumble bee (Bombus franklini). Presenting Author: Michaela R. Grossklaus- U.S. Geological Survey. David S. Pilliod- U.S. Geological Survey. Matthew Laramie- U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center. Yer Lor- U.S. Geological Survey, Upper Midwest Environmental Science Center. Marissa Kaminski- U.S. Geological Survey. Stephen Spear- U.S. Geological Survey, Upper Midwest Environmental Science Center. Jeff Everett- U.S. Fish and Wildlife Service - Michaela R. Grossklaus; David S. Pilliod; Matthew Laramie; Yer Lor; Marissa Kaminski; Stephen Spear; Jeff Everett
8:35 AM - 8:50 AM Pacific: Detection of the threatened Dakota skipper (Hesperia dacotae) from flower-derived eDNA. Presenting Author: David S. Pilliod- U.S. Geological Survey. Michaela R. Grossklaus- U.S. Geological Survey. Stacie Kageyama- U.S. Geological Survey, Upper Midwest Environmental Sciences Center. Cale Nordmeyer- Minnesota Zoo. Jerry Reinisch- U.S. Fish and Wildlife Service, North Dakota Ecological Services Field Office. Erik Runquist- Minnesota Zoo - David S. Pilliod; Michaela R. Grossklaus; Stacie Kageyama; Cale Nordmeyer; Jerry Reinisch; Erik Runquist
8:50 AM - 9:05 AM Pacific: Targeted assay development and metabarcoding insights for detecting Bombus species on eDNA samples. Presenting Author: Marissa Kaminski- U.S. Geological Survey. David S. Pilliod- U.S. Geological Survey. Jonathan Koch- USDA-ARS-PWA-PIRU. Yer Lor- U.S. Geological Survey, Upper Midwest Environmental Science Center. Matthew Laramie- U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center. Muruleedhara Byappanahalli- U.S. Geological Survey. Ralph Grundel- Great Lakes Science Center. Dawn Shively- USGS, Great Lakes Science Center. Ashley Spoljaric- U.S. Geological Survey, Lake Michigan Ecological Research Station. Amanda Boone- U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center. Kristina Parker- U.S. Geological Survey, Forest and Rangeland Ecosystem Science Center. Michael Branstetter- USDA-ARS. Aaron Aunins- U.S. Geological Survey, Leetown Science Center. Kara Jones- U.S. Geological Survey, Eastern Ecological Science Center. Stephen Spear- U.S. Geological Survey, Upper Midwest Environmental Science Center - Marissa Kaminski; David S. Pilliod; Jonathan Koch; Yer Lor; Matthew Laramie; Muruleedhara Byappanahalli; Ralph Grundel; Dawn Shively; Ashley Spoljaric; Amanda Boone; Kristina Parker; Michael Branstetter; Aaron Aunins; Kara Jones; Stephen Spear
9:05 AM - 9:20 AM Pacific: Sampling needs for bee species of concern using qPCR of environmental DNA from flowers. Presenting Author: Eliza Stein- Northern Rocky Mountain Science Center - Eliza Stein
9:20 AM - 9:35 AM Pacific: Break and poster session -
9:20 AM - 9:35 AM Pacific: Integrating targeted surveys during community-wide occupancy assessments efficiently improves detection rates for species of concern. Presenting Author: Tabitha Graves (she/her/hers)- US Geological Survey - Tabitha Graves (she/her/hers)
9:35 AM - 9:50 AM Pacific: Bee better: Leveraging multiple primer sets improves efficacy of eDNA metabarcoding to detect native bees. Presenting Author: Sara Merkelz- University of Illinois. Sara Merkelz- University of Illinois. Amy Flansburg- Stantec. Ashley Bennett- Electric Power Research Institute. Mark Davos- University of Illinois Urbana-Champaign - Sara Merkelz; Sara Merkelz; Amy Flansburg; Ashley Bennett; Mark Davos
9:50 AM - 10:05 AM Pacific: Combining eDNA and vane traps to characterize pollinator communities and their associations with at-risk and invasive flora. Presenting Author: Aron Katz- US Army - Aron Katz

10:05 AM - 10:20 AM Pacific: Testing the capacity of eDNA for sampling bee communities. Presenting Author: Nevin Cullen- University of Oregon - Nevin Cullen
10:20 AM - 10:35 AM Pacific: Resurveying bees at Indiana Dunes National Park using traditional and eDNA methods. Presenting Author: Ralph Grundel- Great Lakes Science Center - Ralph Grundel
10:35 AM - 10:50 AM Pacific: Leveraging eDNA and eRNA to better understand pathogen prevalence on floral resources. Presenting Author: Mark Davis- University of Illinois. Elena Gratton- University of Illinois. Sara Merkelz- University of Illinois. Elise Snyder- University of Illinois Urbana-Champaign. Ashley Bennett- Electric Power Research Institute. Amy Flansburg- Stantec - Mark Davis; Elena Gratton; Sara Merkelz; Elise Snyder; Ashley Bennett; Amy Flansburg
10:50 AM - 11:05 AM Pacific: Break -
11:05 AM - 11:20 AM Pacific: Detecting habitat restoration effects on native pollinators - sampling needs for eDNA. Presenting Author: Gavin Cotterill- Northern Rocky Mountain Science Center - Gavin Cotterill
11:20 AM - 11:35 AM Pacific: The state of the science of flower-derived environmental DNA for pollinator biodiversity monitoring and conservation. Presenting Author: Ashley Rohde- New Mexico State University - Ashley Rohde
11:35 AM - 12:00 PM Pacific: Panel discussion -

Title: Entomological Collections in Latin America and the Caribbean: From Legacy to Innovation

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 256, OCC
Organizers: Margarita Lopez-Uribe- Pennsylvania State University; Melissa Sanchez-Herrera- American Museum of Natural History
Categories: Program Symposium
Abstract: This symposium will offer attendees an opportunity to discover the diverse and rich resources available within Latin American and Caribbean entomological collections. Additionally, the symposium will feature talks discussing the latest methodological innovations for collections. Join us for this symposium and be inspired by real-world stories from curators and scientists
Tracks: Program Symposium
Presentations:
8:00 AM - 8:10 AM Pacific: Introductory remarks. Presenting Author: Margarita Lopez-Uribe- Pennsylvania State University - Margarita Lopez-Uribe
8:10 AM - 8:30 AM Pacific: Entomological collections: Windows to the past, tools for the future. Presenting Author: Katja Seltmann- University of California. Victor Hugo Gonzalez (he/him/his)- University of Kansas - Katja Seltmann; Victor Hugo Gonzalez (he/him/his)
8:30 AM - 8:50 AM Pacific: Entomological treasures: Museum collections shaping the future of biodiversity research. Presenting Author: Juanita Rodriguez- Australian National Insect Collection - Juanita Rodriguez
8:50 AM - 9:10 AM Pacific: Humans in the loop: Community science, community standards, and machine learning synergies for overcoming collections digitization and mobilization bottlenecks. Presenting Author: Robert P. Guralnick, Ph.D.- Florida Museum of Natural History - Robert P. Guralnick, Ph.D.
9:10 AM - 9:30 AM Pacific: Unlocking insect archives: Making entomological collections accessible and actionable. Presenting Author: John Abbott- University of Alabama - John Abbott
9:30 AM - 9:40 AM Pacific: Break -
9:40 AM - 9:50 AM Pacific: The entomology collection at the Alexander von Humboldt Institute: A key resource on Colombia's insect diversity. Presenting Author: Jhon Neita- Instituto Alexander von Humboldt - Jhon Neita
9:50 AM - 10:00 AM Pacific: Digitization of IEUMCE collection: Insects from Chile looking to go out into the world. Presenting Author: Patricia Estrada- Universidad Metropolitana de Ciencias de la Educacin. Christian Gonzlez- Universidad Metropolitana Ciencias de la Educacin - Patricia Estrada; Christian Gonzlez
10:00 AM - 10:10 AM Pacific: Filling gaps in dark Neotropical species distribution thought historical collection holdings and recent canopy sampling. Presenting Author: Adilson Pinedo Escatel- Universidad Autnoma de Mexico - Adilson Pinedo Escatel
10:10 AM - 10:20 AM Pacific: Entomological collections in southern South America, more legacy than innovation. Presenting Author: Javier Muzon- Universidad Nacional de La Plata - Javier Muzon
10:20 AM - 10:30 AM Pacific: Guardians of biodiversity: Management and sse of INABIO's entomological collections. Presenting Author: Mauricio Herrera Madrid- Instituto Nacional de Biodiversidad. Ana Belen Garca-Ruilova- Instituto Nacional de Biodiversidad (INABIO) - Mauricio Herrera Madrid; Ana Belen Garca-Ruilova
10:30 AM - 10:40 AM Pacific: Status of insect collection and regulatory framework for research in Guyana. Presenting Author: Gyanpriya Maharaj- University of Guyana - Gyanpriya Maharaj

10:40 AM - 10:50 AM Pacific: Are we still on time to save the biodiversity knowledge of a hyperdiverse country?. Presenting Author: Mabel Alvarez- Universidad Nacional Mayor de San Marcos. Alana Freytes-Rivera- University of Puerto Rico at Ro Piedras. James Ackerman- University of Puerto Rico at Ro Piedras - Mabel Alvarez; Alana Freytes-Rivera; James Ackerman
10:50 AM - 11:00 AM Pacific: Safeguarding insect biodiversity: Critical challenges facing Brazil's largest entomological collection. Presenting Author: Kelli Ramos- Museu de Zoologia da Universidade de So Paulo. Gabriela Camacho- Museu de Zoologia da USP - Kelli Ramos; Gabriela Camacho
11:00 AM - 11:15 AM Pacific: Panel discussion -
11:15 AM - 11:25 AM Pacific: Break -
11:25 AM - 11:45 AM Pacific: Workshop: Drafting a perspective paper -
11:45 AM - 11:50 AM Pacific: Closing remarks. Presenting Author: Margarita Lopez-Uribe- Pennsylvania State University - Margarita Lopez-Uribe

Title: Endangered Species Act Pesticide Label Changes Impacts on Conservation and Agriculture

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers: Christopher T. McCullough (he/him/his)- Washington State Department of Agriculture; Dowen Jocson- Washington State University; Jasmin Ramirez-Strain- University of California
Categories: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology; Science Policy
Abstract: This symposium will explore the tension of the role of pesticides in being useful for meeting human needs, but also their risk to endangered species. Attendees will gain a better understanding of the impact of the EPA's work to mitigate the effects of pesticides on endangered species.
Tracks: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology; Science Policy
Presentations:
8:00 AM - 8:15 AM Pacific: Winning the geographic lottery, impacts of mitigations in Eastern Washington. Presenting Author: Christopher T. McCullough (he/him/his)- Washington State Department of Agriculture. Margaret Drennan- Washington State Department of Agriculture. Abigail Nickelson- Washington State Department of Agriculture - Christopher T. McCullough (he/him/his); Margaret Drennan; Abigail Nickelson
8:15 AM - 8:30 AM Pacific: Impacts of EPA strategies and Endangered Species Act label changes on Pesticide Safety Education. Presenting Author: Dowen Jocson- Washington State University. Wendy Sue Wheeler- Washington State University - Dowen Jocson; Wendy Sue Wheeler
8:30 AM - 8:45 AM Pacific: Generation of species sensitivity distribution models for estimation of toxicity and risk for non-target and listed Coleopteran species. Presenting Author: Margaret Kato- University of Maryland. Niranjana Krishnan (she/her/hers)- University of Maryland - Margaret Kato; Niranjana Krishnan (she/her/hers)
8:45 AM - 9:00 AM Pacific: Understanding how to use the label to protect endangered species and your farm. Presenting Author: Brett Butlemeier- University of Florida - Brett Butlemeier
9:00 AM - 9:15 AM Pacific: Widespread annual occurrence of pesticides within designated critical habitats for endangered prairie butterflies. Presenting Author: Erik Runquist- Minnesota Zoo. Cale Nordmeyer- Minnesota Zoo. Seth Stapleton- Minnesota Zoo - Erik Runquist; Cale Nordmeyer; Seth Stapleton
9:15 AM - 9:25 AM Pacific: Break -
9:25 AM - 9:40 AM Pacific: Endangered Species Act mitigations: Tree fruit growers perspective. Presenting Author: Harold Austin- Zirkle Fruit. Virna Stillwaugh- Northwest Horticultural Council - Harold Austin; Virna Stillwaugh
9:40 AM - 9:55 AM Pacific: Compatible practices and mitigation points assessed across PNW specialty crop systems. Presenting Author: Dani Lightle- Oregonians for Food and Shelter. Annie Krueger- Compliance Services International. Ryan DeWitt- National Marine Fisheries Service. Kathryn Rifenburg- Oregon Department of Agriculture. Abigail Nickelson- Washington State Department of Agriculture - Dani Lightle; Annie Krueger; Ryan DeWitt; Kathryn Rifenburg; Abigail Nickelson
9:55 AM - 10:10 AM Pacific: Bee's eye view: Will EPA's Strategies deliver meaningful change for listed species conservation?. Presenting Author: Aimee Code- Xerces Society for Invertebrate Conservation. Emily May- The Xerces Society for Invertebrate Conservation - Aimee Code; Emily May
10:10 AM - 10:25 AM Pacific: The species decline apocalypse: Are pesticides causing a proverbial Anthropogenic Judgment Day?. Presenting Author: Richard Brain- Syngenta. Mark Hanson- University of Manitoba. Ryan Prosser- University of Guelph - Richard Brain; Mark Hanson; Ryan Prosser
10:25 AM - 10:40 AM Pacific: How pesticides fit in the great big picture of threats and recovery for ESA-listed salmon. Presenting Author: Ryan DeWitt- National Marine Fisheries Service - Ryan DeWitt

10:40 AM - 10:55 AM Pacific: Labels, loopholes, and land mines: When regulation meets reality. Presenting Author: Billy Olesen- Washington State Pest Management Association - Billy Olesen
10:55 AM - 11:10 AM Pacific: Insecticide regulations need to consider impacts on conservation adoption. Presenting Author: Tristan A. Barley- University of Illinois. Lisa Schulte Moore- Iowa State University. Amy Toth- Iowa State University. Matthew E. O'Neal- Iowa State University. Adam Dolezal- University of Illinois - Tristan A. Barley; Lisa Schulte Moore; Amy Toth; Matthew E. O'Neal; Adam Dolezal
11:10 AM - 12:00 PM Pacific: Panel discussion –

Title: 10-min: MUVE, Mosquito Physiology, Surveillance, and Control

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B114, OCC
Organizers:
Categories: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Tracks: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Presentations:
8:00 AM - 8:12 AM Pacific: A virus-inducible gene expression system for broad-spectrum suppression of mosquito-borne flaviviruses. Presenting Author: Yu-Xian Zhou- National Taiwan University. Shih-Che Weng (he/him/his)- National Taiwan University. Shin-Hong Shiao- Department of Tropical Medicine and Parasitology, College of Medicine, National Taiwan University - Yu-Xian Zhou; Shih-Che Weng (he/him/his); Shin-Hong Shiao
8:12 AM - 8:24 AM Pacific: Communicating mosquito-borne disease risk with interactive maps: A case study from Connecticut. Presenting Author: Jerry Champion, Jr.- Public Health Entomology For All. Angela Bransfield- Connecticut Agricultural Experiment Station. John Shepard- Connecticut Agricultural Experiment Station. Tanya Petruff- Connecticut Agricultural Experiment Station. Luis Chaves- Indiana University. Philip Armstrong- Connecticut Agricultural Experiment Station. Joseph McMillan- Texas Tech University - Jerry Champion, Jr.; Angela Bransfield; John Shepard; Tanya Petruff; Luis Chaves; Philip Armstrong; Joseph McMillan
8:24 AM - 8:36 AM Pacific: Deltamethrin resistance profiling in Culex tarsalis: Linking bioassays, kdr mutations, and enzyme activity in Arizona populations. Presenting Author: Mackenna Berg- Arizona State University. Donald Ward- Arizona State University. James Will- Maricopa County Vector Control. Silvie Huijben- Arizona State University - Mackenna Berg; Donald Ward; James Will; Silvie Huijben
8:36 AM - 8:48 AM Pacific: Double trouble: How insecticides and heat shape West Nile virus risk inCulex pipiens. Presenting Author: Kylee Noel (she/her/hers)- University of Illinois. Carly Kallembach- Illinois Natural History Survey. Chang-Hyun Kim- Illinois Natural History Survey. Joseph Spina- Illinois Natural History Survey. Chris Stone- Illinois Natural History Survey - Kylee Noel (she/her/hers); Carly Kallembach; Chang-Hyun Kim; Joseph Spina; Chris Stone
8:48 AM - 9:00 AM Pacific: Break -
9:00 AM - 9:12 AM Pacific: Effective control and prevention of dengue (Aedes aegypti) vector from Citrullus colocynthis, Datura stramonium, and Azadirachta indica plant extracts through ether. Presenting Author: Imran Ahmed, PhD- Punjab Education Department - Imran Ahmed, PhD
9:12 AM - 9:24 AM Pacific: Evaluating the environmental friendliness of essential oil-based insecticides. Presenting Author: Jamora Hamilton-Brown, PhD (she/her/hers)- Envu. Arunas Damijonaitis- Envu. Kyle Denk- Bayer Environmental Science. Deborah Koufas- Envu - Jamora Hamilton-Brown, PhD (she/her/hers); Arunas Damijonaitis; Kyle Denk; Deborah Koufas
9:24 AM - 9:36 AM Pacific: Exploring the role of the siRNA pathway in the vertical transmission of arboviruses by Aedes aegypti. Presenting Author: Gladys Gutierrez-Bugallo, PhD- Johns Hopkins University. Shengzhang Dong- Johns Hopkins Bloomberg School of Public Health. George Dimopoulos- Johns Hopkins University - Gladys Gutierrez-Bugallo, PhD; Shengzhang Dong; George Dimopoulos
9:36 AM - 9:48 AM Pacific: Extending our impact: Leveraging extension to address vectors and vector-borne diseases. Presenting Author: Emily Struckhoff, M.S.- Pennsylvania State University. Erika Machtinger- Pennsylvania State University - Emily Struckhoff, M.S.; Erika Machtinger
9:48 AM - 10:00 AM Pacific: Green synthesized silver nano particles and plant extracts as eco friendly larvicides against malaria, dengue, and chikungunya vectors: Anopheles stephensi, Aedes aegypti, and Aedes vittatus: A comparative study. Presenting Author: Madhavi Maddala, Ph.D FAEB- Osmania University - Madhavi Maddala, Ph.D FAEB
10:00 AM - 10:12 AM Pacific: Break -
10:12 AM - 10:24 AM Pacific: Integrating SEPARATOR with CRISPR-based strategies for scalable and efficient Aedes aegypti population control. Presenting Author: Shih-Che Weng (he/him/his)- National Taiwan University. Ming Li- Sun Yat-Sen University. Omar S. Akbari- University of California, San Diego - Shih-Che Weng (he/him/his); Ming Li; Omar S. Akbari

10:24 AM - 10:36 AM Pacific: Leveraging novel micro-tracking devices to bolster public health preparedness against vector-borne disease. Presenting Author: Hanna Cortes- University of Delaware. Norman Beatty (he/him/his)- University of Florida. Jennifer K. Peterson- University of Delaware - Hanna Cortes; Norman Beatty (he/him/his); Jennifer K. Peterson
10:36 AM - 10:48 AM Pacific: Olfactory cues and mosquito physiology: Linking human scent to digestion and gene expression. Presenting Author: Xinmi Zhang- Johns Hopkins University - Xinmi Zhang
10:48 AM - 11:00 AM Pacific: Pantazines: Small molecules with sizable potential for reducing malaria parasite development in a globally invasive mosquito. Presenting Author: Yared Debebe- University of Idaho. Jun Isoe- University of Arizona. Nora Cespedes- University of Idaho. Kevin Ochwedo- University of Idaho. Megan Dobson- University of Idaho. Ronald E. Bentil- University of Idaho. Siddhant Kamble- University of Idaho. Brendan Riske- University of Arizona. Michael Riehle- University of Arizona. Shirley Luckhart- University of Idaho - Yared Debebe; Jun Isoe; Nora Cespedes; Kevin Ochwedo; Megan Dobson; Ronald E. Bentil; Siddhant Kamble; Brendan Riske; Michael Riehle; Shirley Luckhart
11:00 AM - 11:12 AM Pacific: Spatiotemporal associations between malaria cases and Anopheles breeding sites to inform targeted larval source management in Uganda. Presenting Author: Huipeng (Verona) Liao- University of North Carolina. Ross Boyce- University of North Carolina - Huipeng (Verona) Liao; Ross Boyce
11:12 AM - 11:24 AM Pacific: Surveillance of Dirofilaria immitis (Rhabditida: Onchocercidae) in mosquitoes (Culicidae) using a zoo as a focus for operational detection in central Utah. Presenting Author: Nathaniel Byers, PhD- Salt Lake City Mosquito Abatement District. Natalie Hammond- Salt Lake City Mosquito Abatement District. Angelena Todaro- Salt Lake City Mosquito Abatement District - Nathaniel Byers, PhD; Natalie Hammond; Angelena Todaro
11:24 AM - 11:36 AM Pacific: The antihistamine pyrilamine negatively impacts behavior and infection outcomes in Anopheles stephensi. Presenting Author: Kevin Ochwedo- University of Idaho. Nora Cespedes- University of Idaho. Xiaodi Wang- University of Washington. Yared Debebe- University of Idaho. Ronald E. Bentil- University of Idaho. Ryan Wild- University of Idaho. Constanze Paoli- University of Idaho. Edwin Lewis- University of Idaho. Jeff Riffell- University of Washington. Shirley Luckhart- University of Idaho - Kevin Ochwedo; Nora Cespedes; Xiaodi Wang; Yared Debebe; Ronald E. Bentil; Ryan Wild; Constanze Paoli; Edwin Lewis; Jeff Riffell; Shirley Luckhart

Title: 10-min: MUVE, Urban Entomology and Pest Control

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B115, OCC
Organizers:
Categories: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Tracks: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Presentations:
8:00 AM - 8:12 AM Pacific: An overview of agricultural neonicotinoid regulation in the EU, Canada, and the United States. Presenting Author: Katie Dentzman (she/her/hers)- Iowa State University. Derek Franklin- Iowa State University. Edem Avemegah, PhDWashington State University. Jessica Goldberger, PhD- Washington State University - Katie Dentzman (she/her/hers); Derek Franklin; Edem Avemegah, PhD; Jessica Goldberger, PhD
8:12 AM - 8:24 AM Pacific: Analyzing the causes and impacts of earlier shifting seasonal activity within the US corn earworm population. Presenting Author: Bukola Molake- University of Delaware - Bukola Molake
8:24 AM - 8:36 AM Pacific: Common bed bug and German cockroach infestation trends in multifamily housing over more than a decade. Presenting Author: Karen M. Vail- University of Tennessee. Jennifer Chandler- University of Tennessee - Karen M. Vail; Jennifer Chandler
8:36 AM - 8:48 AM Pacific: Disturbance-induced agonistic behavior in subterranean termites. Presenting Author: Molly Cook- University of Florida. Nan-Yao Su- University of Florida. Thomas Chouvenc- University of Florida - Molly Cook; Nan-Yao Su; Thomas Chouvenc
8:48 AM - 9:00 AM Pacific: Effective pest control alone reduces mouse allergens in low-income housing. Presenting Author: Xiaodan Pan- Rutgers University. Souvic Sarker- Rutgers University. Jin-Jia Yu- Rutgers University. Robert Hamilton- Johns Hopkins University School of Medicine. Richard Cooper- R Cooper Consulting. Changlu Wang- Rutgers University - Xiaodan Pan; Souvic Sarker; Jin-Jia Yu; Robert Hamilton; Richard Cooper; Changlu Wang
9:00 AM - 9:12 AM Pacific: Effects of tarsal injury on mortality inCimex lectularius(common bed bug). Presenting Author: Catherine Loudon- University of California. Patrick Liu- University of California, irvine - Catherine Loudon; Patrick Liu
9:12 AM - 9:24 AM Pacific: Break -

9:24 AM - 9:36 AM Pacific: Evaluating material properties effect on residual insecticides for stored product insect control. Presenting Author: Deanna Scheff- USDA-ARS. Mollie Toth- United States Department of Agriculture - ARS. Frank Arthur- USDA-ARS - Deanna Scheff; Mollie Toth; Frank Arthur
9:36 AM - 9:48 AM Pacific: Exploring the roles of functional arthropods on the health of urban ash forests of central Montana. Presenting Author: Sydney R. Crabtree- AgCorps. Frank E. Etzler- Montana Department of Agriculture - Sydney R. Crabtree; Frank E. Etzler
9:48 AM - 10:00 AM Pacific: Insecticidal activity of Pogostemon cablin essential oil against the bed bug (Cimex lectularius L.). Presenting Author: Aqeela Sehrish, PhD (she/her/hers)- University of Mississippi. Dhammika Nanayakkara- University of Mississippi. Herath Bandara- University of Mississippi. Junaid Ur Rehman (he/him/his)- University of Mississippi. Ikhlas Khan- University of Mississippi - Aqeela Sehrish, PhD (she/her/hers); Dhammika Nanayakkara; Herath Bandara; Junaid Ur Rehman (he/him/his); Ikhlas Khan
10:00 AM - 10:12 AM Pacific: Insecticidal and repellent activity of cinnamic acid derivatives: Investigating alternative products to manage imported fire ants (Formicidae: Hymenoptera). Presenting Author: Farhan Mahmood Shah, PhD University of Mississippi. Ikhlas A Khan- NCNPR, The University of Mississippi. Abbas Ali- University of Mississippi - Farhan Mahmood Shah, PhD; Ikhlas A Khan; Abbas Ali
10:12 AM - 10:24 AM Pacific: Optimizing hydrogel bait moisture dynamics for effective management of Tapinoma melanocephalumin Hawaii. Presenting Author: Jia Wei Tay- University of Hawaii - Jia Wei Tay
10:24 AM - 10:36 AM Pacific: Plasticity in desiccation resistance and cuticular hydrocarbon production in subterranean termites. Presenting Author: Yangzhou Wang- Louisiana State University. Thomas Chouvenc- University of Florida. Qian Sun- Louisiana State University - Yangzhou Wang; Thomas Chouvenc; Qian Sun
10:36 AM - 10:48 AM Pacific: Repellency of catnip oil and monoterpenes carvacrol and citronellol against bed bugs (Cimex lectularius). Presenting Author: Changlu Wang- Rutgers University. Souvic Sarker- Rutgers University. Jin-Jia Yu- Rutgers University. James Simon- Rutgers University - Changlu Wang; Souvic Sarker; Jin-Jia Yu; James Simon
10:48 AM - 11:00 AM Pacific: Break -
11:00 AM - 11:12 AM Pacific: Strategic evaluation of perimeter pest control products using small plot trials. Presenting Author: Sally Abbar, PhD- Envu - Sally Abbar, PhD
11:12 AM - 11:24 AM Pacific: Temprid dust: A high performing insecticidal dust for pest management. Presenting Author: Alexander Ko, PhD- Envu - Alexander Ko, PhD
11:24 AM - 11:36 AM Pacific: Temprid dust: A new solution for urban pest control--current applications and recommendations. Presenting Author: Alvaro Romero- Envu - Alvaro Romero
11:36 AM - 11:48 AM Pacific: The case for fumigation science amid conflicting regulatory frameworks. Presenting Author: Shannon Leif Sked, BCE- Western Fumigation - Shannon Leif Sked, BCE
11:48 AM - 12:00 PM Pacific: The role of perception and resources in urban pollinator management. Presenting Author: Karma Kashmir Thomas, M.S.- Michigan State University. Jennifer Roedel- Michigan State University. Zsofia Szendrei- Michigan State University - Karma Kashmir Thomas, M.S.; Jennifer Roedel; Zsofia Szendrei

Title: 10-min: P-IE, IPM - Horticulture 1

Time: **8:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E146, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
8:00 AM - 8:12 AM Pacific: Balancing pest control and conservation: Impacts of insecticides on thrips and minute pirate bugs. Presenting Author: Arnol Ariel Gomez (he/him/his)- The Ohio State University. Ashley Leach- Ohio State University - Arnol Ariel Gomez (he/him/his); Ashley Leach
8:12 AM - 8:24 AM Pacific: Early season release of Aphidoletes aphidimyza for aphid management of landscape trees. Presenting Author: Thomas D. Whitney- Davey Tree Expert Company - Thomas D. Whitney
8:24 AM - 8:36 AM Pacific: Effect of lemongrass intercropping on tomato yield and insect pest abundance under organic culture. Presenting Author: Tigist Tolosa- University of Maryland. Simon Zebelo- University of Maryland. Brett Smith- UMES. Lurline Marsh- UMES - Tigist Tolosa; Simon Zebelo; Brett Smith; Lurline Marsh
8:36 AM - 8:48 AM Pacific: Evaluating spray coverage on brassicas with distinct plant architectures. Presenting Author: Ryan Batts- University of Florida. Amanda Mei Furuya (she/her/hers)- University of Florida. Hugh Smith- University of Florida - Ryan Batts; Amanda Mei Furuya (she/her/hers); Hugh Smith
8:48 AM - 9:00 AM Pacific: Evaluation of foliar insecticide treatments for thrips control in onion, 2025. Presenting Author: Sourav Pal- University of Georgia. Charles Gruver, n/a- UGA. Saumik Basu- University of Georgia - Sourav Pal; Charles Gruver, n/a; Saumik Basu

9:00 AM - 9:12 AM Pacific: Field and laboratory evaluation of insecticides against Anthonomus eugenii. Presenting Author: Xuedong A. Chen- University of Florida. Muhammad A. Noor ul Ane- University of Florida. Jawwad Qureshi- University of Florida - Xuedong A. Chen; Muhammad A. Noor ul Ane; Jawwad Qureshi
9:12 AM - 9:24 AM Pacific: Break -
9:24 AM - 9:36 AM Pacific: Fifteen years of vibrational mating disruption: Progress and challenges in controlling Scaphoideus titanus (Hemiptera: Cicadellidae). Presenting Author: Rachele Nieri (she/her/hers)- University of Trento. Samuele Sontacchi- University of Trento. Stefano Galvagni- University of Trento. Gianfranco Anfora- C3A - University of Trento. Andrea Pugliese- University of Trento. Valerio Mazzoni- Fondazione Edmund Mach (Edmund Mach Foundation) - Rachele Nieri (she/her/hers); Samuele Sontacchi; Stefano Galvagni; Gianfranco Anfora; Andrea Pugliese; Valerio Mazzoni
9:36 AM - 9:48 AM Pacific: How do you find a strawberry blossom weevil in a briar patch?. Presenting Author: Chris Looney- Washington State Department of Agriculture. Wendy King- Washington State Department of Agriculture. Chanda Bartholomew- Washington State Department of Agriculture - Chris Looney; Wendy King; Chanda Bartholomew
9:48 AM - 10:00 AM Pacific: Insecticidal activity of selected plant extracts against potato tuber moth, Phthorimaea operculella, neonate larvae. Presenting Author: Nozibusiso Maphumulo (she/her/hers)- Agricultural Research Council. Steephen Amoo, n/a- Agricultural Research Council. Diedrich Visser- Agricultural Research Council - Nozibusiso Maphumulo (she/her/hers); Steephen Amoo, n/a; Diedrich Visser
10:00 AM - 10:12 AM Pacific: Insecticide efficacy for Tetranychus urticae and Lygus hesperusin California strawberries. Presenting Author: Mohammad Amir Aghaee, PhD- California Polytechnic State University. Colin koubek- California Polytechnic State University - Mohammad Amir Aghaee, PhD; Colin koubek
10:12 AM - 10:24 AM Pacific: Management of thrips (Thysanoptera: Thripidae) in watermelon using biorational and conventional insecticides. Presenting Author: Dakshina R. Seal, PhD- University of Florida - Dakshina R. Seal, PhD
10:24 AM - 10:36 AM Pacific: Monitoring the susceptibility of Colorado potato beetle populations from New York to key non-neonicotinoid insecticides. Presenting Author: Marcelo Dimase- Cornell University. Brian Nault- Cornell University - Marcelo Dimase; Brian Nault
10:36 AM - 10:48 AM Pacific: Break -
10:48 AM - 11:00 AM Pacific: Non-neonicotinoid strategies for managing Colorado potato beetle throughout the growing season. Presenting Author: Ray Putri Rantz- Michigan State University. Zsofia Szendrei- Michigan State University - Ray Putri Rantz; Zsofia Szendrei
11:00 AM - 11:12 AM Pacific: Optimizing attract-and-kill systems for sustainablec Drosophila suzukii control. Presenting Author: Vaughn M. Walton- Oregon State University. Alexis Shobe- Oregon State University. I. Oguz Ozdemir (he/him/his)- Oregon State University. Chisom Irene Molokwu- Oregon State University. Ho Jung Yoon (she/her/hers)- Oregon State University. Ryan Turner (he/him/his)- Oregon State University. Kyoo Park- Oregon State University - Vaughn M. Walton; Alexis Shobe; I. Oguz Ozdemir (he/him/his); Chisom Irene Molokwu; Ho Jung Yoon (she/her/hers); Ryan Turner (he/him/his); Kyoo Park
11:12 AM - 11:24 AM Pacific: Optimizing toxicant rates in attract-and-kill systems for sustainable Drosophila suzukii control. Presenting Author: Ryan Turner (he/him/his)- Oregon State University. I. Oguz Ozdemir (he/him/his)- Oregon State University. Kyoo Park- Oregon State University. Vaughn M. Walton- Oregon State University - Ryan Turner (he/him/his); I. Oguz Ozdemir (he/him/his); Kyoo Park; Vaughn M. Walton
11:24 AM - 11:36 AM Pacific: Potato spectral response to biotic and mechanical defoliation, and chemical application using RapidSCAN. Presenting Author: Ikponmwosa Egbon, PhD (he/him/his)- University of Maine. Aaron Buzza- University of Maine. Andrei Alyokhin- University of Maine - Ikponmwosa Egbon, PhD (he/him/his); Aaron Buzza; Andrei Alyokhin
11:36 AM - 11:48 AM Pacific: Successful management case of tomato leafminer (Phthorimaea absoluta) in organic tomato greenhouses in South Korea. Presenting Author: Jong-Ho Park- RDA. HyunOh Sun- RDA. Kwang-Ho Kim- RDA. In-Hong Jeong- RDA. Min-Hyeuk Lee- RDA. Sung-Wook Jeon- RDA. Meeja Seo- RDA - Jong-Ho Park; HyunOh Sun; Kwang-Ho Kim; In-Hong Jeong; Min-Hyeuk Lee; Sung-Wook Jeon; Meeja Seo
11:48 AM - 12:00 PM Pacific: Temporal pest trends in high tunnels. Presenting Author: Marlo Gunnar McCarter- Purdue University. Samantha Willden (she/her/hers)- Cornell University. Anna Wallingford- USDA-ARS. Kacie Athey- University of Illinois. Laura Ingwell (she/her/hers)- Purdue University - Marlo Gunnar McCarter; Samantha Willden (she/her/hers); Anna Wallingford; Kacie Athey; Laura Ingwell (she/her/hers)

Title: Speaker Practice Room

Time: **8:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, A107, OCC
Organizers:

Categories: General; Speaker Practice Room
Abstract: Looking to practice your presentation in a quiet session room? Visit the Speaker Practice Room Saturday through Tuesday to rehearse at a podium. Sign-up online for your preferred practice time. Sign-ups are available on a first-come, first-served basis.
Tracks: General; Speaker Practice Room

Title: Passionate About Pathogens: Bridging the Divide Between Mammal and Plant Disease Vectors

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers: Berenice Romero (she/her/hers)- Louisiana State University; Jeffrey Davis- Louisiana State University
Categories: Member Symposium; Plant-Insect Ecosystems; Medical, Urban, and Veterinary Entomology
Abstract: Different types of critters are known for sucking!... fluids from their hosts, which can also turn into opportunities for pathogens to find a new home where they can replicate and continue with the disease cycle. Join us for an exciting session covering animal and plant systems present across the US.
Tracks: Member Symposium; Plant-Insect Ecosystems; Medical, Urban, and Veterinary Entomology
Presentations:
9:00 AM - 9:10 AM Pacific: Introductory remarks. Presenting Author: Berenice Romero (she/her/hers)- Louisiana State University - Berenice Romero (she/her/hers)
9:10 AM - 9:30 AM Pacific: Management tactics to establish new citrus plantings in a region with endemic Huanglongbing and its psyllid vector, Diaphorina citri Kuwyama. Presenting Author: Lauren Diepenbrock- University of Florida. Angela Chuang- Washington College. Emilie P. Demard, PhD (she/her/hers)- Utah State University. Davie Kadyampakeni- University of Florida. Christopher Vincent- University of Florida. Megan Dewdney- Citrus Research and Education Center, University of Florida - Lauren Diepenbrock; Angela Chuang; Emilie P. Demard, PhD (she/her/hers); Davie Kadyampakeni; Christopher Vincent; Megan Dewdney
9:30 AM - 9:50 AM Pacific: Invasion dynamics and management of the Asian citrus psyllid and huanglongbing in Southern California citrusDiaphorina citri(Hemiptera: Liviidae). Presenting Author: Matt Daugherty- University of California. Greg Simmons- USDA APHIS PPQ Science & Technology. Rachael Massie- California Department of Food & Agriculture. David Morgan- California Department of Food & Agriculture - Matt Daugherty; Greg Simmons; Rachael Massie; David Morgan
9:50 AM - 10:10 AM Pacific: Nano-formulated deterrents for plant virus vector control. Presenting Author: Jeffrey Davis- Louisiana State University. Celeste Mejia Gonzalez- Louisiana State university. Poorna Munagala- Louisiana State University. Carlos E. Astete- Louisiana State University. Cristina M. Sabliov- Louisiana State University - Jeffrey Davis; Celeste Mejia Gonzalez; Poorna Munagala; Carlos E. Astete; Cristina M. Sabliov
10:10 AM - 10:30 AM Pacific: From cracks in walls to cracks in systems: Chagas disease and the complex ecology of vector-borne transmission. Presenting Author: Pilar Fernandez- Washington State University - Pilar Fernandez
10:30 AM - 10:45 AM Pacific: Break -
10:45 AM - 11:05 AM Pacific: How ancient relationships among plants and animals have informed our work on biogenic amines and vitamin biology in malaria. Presenting Author: Shirley Luckhart- University of Idaho. Edwin Lewis- University of Idaho. Jeff Riffell- University of Washington. Michael Riehle- University of Arizona - Shirley Luckhart; Edwin Lewis; Jeff Riffell; Michael Riehle
11:05 AM - 11:25 AM Pacific: AlphaFold-based classification of vector-borne pathogen effectors reveals conserved strategies for manipulating plant architecture. Presenting Author: Gitta Coaker- University of California. Phoebe Sinner- University of California. Esteban Jarquin Bolanos- University of California. Tianrun Li- University of California - Gitta Coaker; Phoebe Sinner; Esteban Jarquin Bolanos; Tianrun Li
11:25 AM - 11:55 AM Pacific: Discussion -
11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Berenice Romero (she/her/hers)- Louisiana State University - Berenice Romero (she/her/hers)

Title: Exploring the Nature of Climate Change Impacts on Insect Biodiversity

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Charlotte L. Outhwaite (she/her/hers)- Zoological Society of London; David Wagner- University of Connecticut
Categories: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems

Abstract: Hear the latest research on climate change impacts on insect biodiversity straight from world experts and contribute to a discussion on data gaps and emerging areas in climate change-insect research. You will also be invited to join the Status of Insects RCN Climate Change working group.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Presentations:
9:00 AM - 9:10 AM Pacific: Introductory remarks. Presenting Author: Charlotte L. Outhwaite (she/her/hers)- Zoological Society of London - Charlotte L. Outhwaite (she/her/hers)
9:10 AM - 9:30 AM Pacific: Projected changes in climate in the western United States of high relevance to insects. Presenting Author: Erica Fleishman- Oregon State University. Nick Siler- Oregon State University - Erica Fleishman; Nick Siler
9:30 AM - 9:50 AM Pacific: Plant responses to climate change in California and current climate-adaptive management approaches. Presenting Author: James Thorne- University of California - James Thorne
9:50 AM - 10:10 AM Pacific: Climate sensitivity of desert grasshoppers. Presenting Author: Emily Schmitt- University of New Mexico. David Lightfoot- University of New Mexico. Jennifer A. Rudgers- University of New Mexico. Kenneth D. Whitney- University of New Mexico - Emily Schmitt; David Lightfoot; Jennifer A. Rudgers; Kenneth D. Whitney
10:10 AM - 10:30 AM Pacific: Droughts as a driver of insect population declines. Presenting Author: David Wagner- University of Connecticut. Madeline Shaw- University of Connecticut - David Wagner; Madeline Shaw
10:30 AM - 10:40 AM Pacific: Break -
10:40 AM - 11:00 AM Pacific: Insect overwintering modulates responses to temperature change. Presenting Author: Christopher Halsch- Binghamton University. Eliza Grames (she/her/hers)- Binghamton University - Christopher Halsch; Eliza Grames (she/her/hers)
11:00 AM - 11:20 AM Pacific: Global scale impacts of climate change and land use-climate change interactions on insect biodiversity. Presenting Author: Charlotte L. Outhwaite (she/her/hers)- Zoological Society of London. Peter McCann- UCL. Kyra Smith- Universit di Bologna. Rob Cooke (he/him/his)- UK Centre for Ecology & Hydrology. Joseph Millard- Cambridge University. Andrew Bladon- University of Reading. James Rodger- Sol Plaatje University. Grace Skinner- UK Centre for Ecology & Hydrology. Justin Isip- Natural History Museum, London. J. Iwan Jones- Queen Mary University of London. Helen Roy- UKCEH. Nick Isaac- UK Centre for Ecology & Hydrology. Andy Purvis- Natural History Museum, London. Tim Newbold- University College London - Charlotte L. Outhwaite (she/her/hers); Peter McCann; Kyra Smith; Rob Cooke (he/him/his); Joseph Millard; Andrew Bladon; James Rodger; Grace Skinner; Justin Isip; J. Iwan Jones; Helen Roy; Nick Isaac; Andy Purvis; Tim Newbold
11:20 AM - 11:40 AM Pacific: Low elevation habitat loss at the trailing edge drives elevational range shifts in tropical insects. Presenting Author: Timothy C. Bonebrake- University of Hong Kong. Martha J Ledger- The University of Hong Kong. Adam Sharp- The University of Hong Kong. Michael J W Boyle- The University of Hong Kong. Jin Wu- The University of Hong Kong. Louise A Ashton- The University of Hong Kong - Timothy C. Bonebrake; Martha J Ledger; Adam Sharp; Michael J W Boyle; Jin Wu; Louise A Ashton
11:40 AM - 12:00 PM Pacific: Panel discussion -

Title: Addressing the Absence: Highlighting the Future of Urban Entomology

Time: 9:00 AM - 12:00 PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers: Christopher C. Hayes (he/him/his)- North Carolina State University; Aaron Ashbrook- Louisiana State University; Jose Santos Portugal, III, BCE, PHE- Mississippi State University
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology; Early Career
Abstract: This session will address the apparent absence of urban entomologists by highlighting the early career movers, shakers, and doers across our discipline. These emerging leaders represent academia, industry, and government, and are continuing the legacy of our predecessors through innovative research, novel product development, and impactful policy and practice.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology; Early Career
Presentations:
9:00 AM - 9:10 AM Pacific: Introductory remarks. Presenting Author: Christopher C. Hayes (he/him/his)- North Carolina State University - Christopher C. Hayes (he/him/his)
9:10 AM - 9:25 AM Pacific: Where pest meets person: Urban entomology in the public eye. Presenting Author: Christopher C. Hayes (he/him/his)- North Carolina State University - Christopher C. Hayes (he/him/his)
9:25 AM - 9:40 AM Pacific: Updates from the North America termite survey. Presenting Author: Aaron Ashbrook- Louisiana State University - Aaron Ashbrook

9:40 AM - 9:55 AM Pacific: Evaluating termite dispersal walking using posture tracking dataset. Presenting Author: Nobuaki Mizumoto- Auburn University - Nobuaki Mizumoto
9:55 AM - 10:10 AM Pacific: Impacts of sublethal insecticide exposure on the susceptibility of the German cockroach (Blattodea: Ectobiidae). Presenting Author: Shao-Hung Dennis Lee- University of California - Shao-Hung Dennis Lee
10:10 AM - 10:20 AM Pacific: Break -
10:20 AM - 10:35 AM Pacific: Can we address urban pest management challenges with environmentally friendly alternatives?. Presenting Author: Sudip Gaire- Rentokil Terminix - Sudip Gaire
10:35 AM - 10:50 AM Pacific: Emerging technologies and new concepts for insect control. Presenting Author: Arunas Damijonaitis- Envu - Arunas Damijonaitis
10:50 AM - 11:05 AM Pacific: How termite research and management fit into a mosquito abatement district. Presenting Author: Mark Janowiecki, BCE- City of New Orleans Mosquito, Termite, and Rodent Control. Carrie Cottone- City of New Orleans Mosquito, Termite, and Rodent Control Board. Claudia Riegel- New Orleans Mosquito, Termite and Rodent Control Board - Mark Janowiecki, BCE; Carrie Cottone; Claudia Riegel
11:05 AM - 11:20 AM Pacific: Evolution of a pest professional: Bridging agriculture and urban entomology. Presenting Author: Lisa Eppler- Syngenta - Lisa Eppler
11:20 AM - 11:35 AM Pacific: Confessions of a vigilante extension agent. Presenting Author: Morgan Manderfield, BCEEcolab Pest Elimination - Morgan Manderfield, BCE
11:35 AM - 11:55 AM Pacific: Discussion -
11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Christopher C. Hayes (he/him/his)- North Carolina State University - Christopher C. Hayes (he/him/his)

Title: Bridging Generations of Innovative Diapause Research

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F150, OCC
Organizers: Megan E. Meuti, PhD (she/her/hers)- The Ohio State University; Frederico Hickmann, PhD (he/him/his)- The Ohio State University; Umut Toprak (he/him/his)- Ankara University; Daniel Hahn- University of Florida
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology; Early Career
Abstract: Join us for an engaging symposium on insect diapause, where leading experts and early career researchers will explore the latest discoveries using 'omics to uncover diapause regulation and modeling its ecological impacts. Attendees will gain insights into emerging research directions and opportunities for collaboration and professional networking.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology; Early Career
Presentations:
9:00 AM - 9:05 AM Pacific: Introductory remarks. Presenting Author: Megan E. Meuti, PhD (she/her/hers)- The Ohio State University - Megan E. Meuti, PhD (she/her/hers)
9:05 AM - 9:23 AM Pacific: Chromatin dynamics and dormancy: H3K27 methylation in mosquito diapause. Presenting Author: Cheolho Sim, PhD (he/him/his)- Baylor University - Cheolho Sim, PhD (he/him/his)
9:23 AM - 9:41 AM Pacific: Energetics of diapause. Presenting Author: Chao Chen- University of Florida. Daniel Hahn- University of Florida - Chao Chen; Daniel Hahn
9:41 AM - 9:59 AM Pacific: Diapause and aging in solitary bees. Presenting Author: Julia Bowsher- North Dakota State University. Mehakpreet Kaur- North Dakota State University. Joshua David Rinehart- North Dakota State University. Courtney Grula- North Dakota State University. Joseph Rinehart- USDA-ARS - Julia Bowsher; Mehakpreet Kaur; Joshua David Rinehart; Courtney Grula; Joseph Rinehart
9:59 AM - 10:17 AM Pacific: Diapausing under threat: The hidden toll of pesticides on bees. Presenting Author: Etya Amsalem, PhD (she/her/hers)- Pennsylvania State University - Etya Amsalem, PhD (she/her/hers)
10:17 AM - 10:35 AM Pacific: Food availability and temperature regulate diapause behavior and survival in the yellow-faced bumble bee (Bombus vosnesenskii). Presenting Author: Sylvana Finn (she/her/hers)- University of California. Elizabeth Crone- University of California. Neal M. Williams- University of California - Sylvana Finn (she/her/hers); Elizabeth Crone; Neal M. Williams
10:35 AM - 10:45 AM Pacific: Break -
10:45 AM - 11:03 AM Pacific: Comparative transcriptomic analysis reveals sex-specific molecular strategies during diapause in the Colorado potato beetle. Presenting Author: Alex S. Torson (he/him/his)- North Dakota State University. Dacotah Melicher, PhD- United States Department of Agriculture. George D. Yocum- USDA. Joseph Rinehart- USDA-ARS - Alex S. Torson (he/him/his); Dacotah Melicher, PhD; George D. Yocum; Joseph Rinehart

11:03 AM - 11:21 AM Pacific: From evolution to application: Diapause timing and the predictability of European corn borer moth outbreaks. Presenting Author: Erik Dopman (he/him/his)- Tufts University - Erik Dopman (he/him/his)
11:21 AM - 11:39 AM Pacific: Molecular regulation of embryonic diapause in corn rootworms. Presenting Author: Nicholas Teets- University of Kentucky - Nicholas Teets
11:39 AM - 11:57 AM Pacific: Diapause variation among Nearctic and Neotropical Euschistus (Hemiptera: Pentatomidae) species. Presenting Author: Frederico Hickmann, PhD (he/him/his)- The Ohio State University. Megan E. Meuti, PhD (she/her/hers)- The Ohio State University. Andy Michel- Ohio State University. Jelmer Poelestra, PhD (he/him/his)- The Ohio State University. Alberto Soares Correa, PhD- Universidade de So Paulo - Frederico Hickmann, PhD (he/him/his); Megan E. Meuti, PhD (she/her/hers); Andy Michel; Jelmer Poelestra, PhD (he/him/his); Alberto Soares Correa, PhD
11:57 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Megan E. Meuti, PhD (she/her/hers)- The Ohio State University - Megan E. Meuti, PhD (she/her/hers)

Title: Honoring the Legacy of James H Tumlinson: Chemical Ecology Studies from Penn State Graduate Alumni

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Rupesh Kariyat- University of Arkansas; Justin George- United States Department of Agriculture
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: 1. Learn about recent advances in chemical ecology and species interactions 2. Honor James Tumlinson's legacy3. Recollect and reminisce a science story about Dr. Tumlinson
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
9:00 AM - 9:05 AM Pacific: Introductory remarks. Presenting Author: Rupesh Kariyat- University of Arkansas - Rupesh Kariyat
9:05 AM - 9:20 AM Pacific: Community collapse in the cowpat: Nontarget effects of hormone-based insecticides for cattle pests. Presenting Author: Jason Smith- York College of Pennsylvania. Kayla Simpson- Dickinson College. Ilana Zeitzer- Dickinson College. Amy Sparer- York College of Pennsylvania - Jason Smith; Kayla Simpson; Ilana Zeitzer; Amy Sparer
9:20 AM - 9:35 AM Pacific: Effect of temperature on development rate and survival of a shoot tip-galling fly (Parafreutreta regalis), a biological control agent of Cape-ivy (Delairea odorata), and its implication for successful field establishment in California. Presenting Author: Scott Portman- USDA-ARS. Patrick Moran- USDA ARS. Kyra Cruz- USDA ARS. Lindsay Hack- USDA ARS - Scott Portman; Patrick Moran; Kyra Cruz; Lindsay Hack
9:35 AM - 9:50 AM Pacific: Phenology, volatiles and associated arthropod communities: Insights from row crops. Presenting Author: Rupesh Kariyat- University of Arkansas - Rupesh Kariyat
9:50 AM - 10:05 AM Pacific: Microbe and parasitoid interactions. Presenting Author: Ching-Wen Tan- National Chung-Hsing University - Ching-Wen Tan
10:05 AM - 10:20 AM Pacific: Semiochemicals for pest management: Continuing Penn State legacy. Presenting Author: Justin George- United States Department of Agriculture - Justin George
10:20 AM - 10:30 AM Pacific: Break -
10:30 AM - 10:45 AM Pacific: Exposure to (Z)-3-hexenol primes tobacco plants for faster and stronger defense without negatively affecting their ability to grow and reproduce. Presenting Author: Bipana Timilsena- Pennsylvania State University. Sara Hind- University of Illinois. James H. Tumlinson- Pennsylvania State University - Bipana Timilsena; Sara Hind; James H. Tumlinson
10:45 AM - 11:00 AM Pacific: The mechanism of BPH17-mediated resistance to brown planthopper in rice. Presenting Author: Wen-Po Chuang- National University of Taiwan - Wen-Po Chuang
11:00 AM - 11:15 AM Pacific: The multidimensional plant responses to caterpillar frass. Presenting Author: Swayamjit Ray (he/him/his)- University of Arkansas. Flor Acevedo- The Pennsylvania State University. Jared Ali- Pennsylvania State University. Gary Felton- Pennsylvania State University. Dawn Luth- The Pennsylvania State University - Swayamjit Ray (he/him/his); Flor Acevedo; Jared Ali; Gary Felton; Dawn Luth
11:15 AM - 11:30 AM Pacific: Electroantennogram responses to essential oils in Vanessa cardui exposed to pesticides during larval and adult stages. Presenting Author: Ngoc Thanh Phan- University of Arkansas. Mathew Murphy- University of Arkansas. Neelendra Joshi- University of Arkansas - Ngoc Thanh Phan; Mathew Murphy; Neelendra Joshi
11:30 AM - 11:35 AM Pacific: Closing remarks. Presenting Author: Rupesh Kariyat- University of Arkansas - Rupesh Kariyat

Title: Legends in Entomology from the Far West

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers: Silvia I. Rondon (she/her/hers)- Oregon State University; Laura Corley Lavine (she/her/hers)- Washington State University
Categories: Member Symposium
Abstract: "Legend in Entomology" blends science with the culture and history of the region. This forum honors the groundbreaking work that shaped our understanding of insects. Be inspired by their legacy-- and learn how their discoveries continue to impact science--by networking with professionals driving innovation and celebrating the West's entomological heritage.
Tracks: Member Symposium
Presentations:
9:00 AM - 9:10 AM Pacific: Introductory remarks. Presenting Author: Silvia I. Rondon (she/her/hers)- Oregon State University - Silvia I. Rondon (she/her/hers)
9:10 AM - 9:25 AM Pacific: Forty-two years of East to West bee research: the discoveries, the culture, and the bees that shaped the career of Dr. Michael Burgett. Presenting Author: Carolyn Breece (she/her/hers)- Oregon State University - Carolyn Breece (she/her/hers)
9:25 AM - 9:40 AM Pacific: Recognizing a legend in IPM and entomology from the Intermountain West: Dr. Diane Alston. Presenting Author: Ricardo Ramirez (he/him/his)- New Mexico State University - Ricardo Ramirez (he/him/his)
9:40 AM - 9:55 AM Pacific: The legacy of Jay Brunner. Presenting Author: Christian Krupke- Purdue University - Christian Krupke
9:55 AM - 10:05 AM Pacific: Break -
10:05 AM - 10:20 AM Pacific: Bruce Eldridge: A career of science and service to public-health entomology. Presenting Author: Christopher Barker- University of California - Christopher Barker
10:20 AM - 10:35 AM Pacific: Ralph Berry contributions in Oregon and the Pacific Northwest. Presenting Author: Len Coop- Oregon State University - Len Coop
10:35 AM - 10:50 AM Pacific: Roger Vargas: The world's greatest fruit fly biologist. Presenting Author: John Stark- Washington State University - John Stark
10:50 AM - 11:05 AM Pacific: Stan Hoyt and science. Presenting Author: Elizabeth Beers- Washington State University - Elizabeth Beers
11:05 AM - 11:15 AM Pacific: Break -
11:15 AM - 11:30 AM Pacific: Kevin Wanner and his eternal legacy. Presenting Author: Erika Rodbell- Montana State University - Erika Rodbell
11:30 AM - 11:45 AM Pacific: Sanford Eigenbrode contributions to science. Presenting Author: Erik Wenninger (he/him/his)- University of Idaho - Erik Wenninger (he/him/his)
11:45 AM - 11:55 AM Pacific: Closing remarks. Presenting Author: Laura Corley Lavine (she/her/hers)- Washington State University - Laura Corley Lavine (she/her/hers)

Title: 10-min: P-IE, Conservation and Pollinators

Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, E147-148, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
9:00 AM - 9:12 AM Pacific: Assessing the value of urban conservation habitats for moth larvae. Presenting Author: Addison Ashe Copen- The Ohio State University. Lucy Guarnieri- The Ohio State University. Michelle Pham- The Ohio State University. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University - Addison Ashe Copen; Lucy Guarnieri; Michelle Pham; Mary M. Gardiner, M.S., Ph.D. (she/her/hers)
9:12 AM - 9:24 AM Pacific: Evaluating the impact of agricultural contamination and plant diversity on ground-nesting bee communities: Insights from a five-year manipulated field study in agroecosystems. Presenting Author: Jonathan Rice Tetlie- University of Illinois. Alexandra Harmon-Threatt- University of Illinois Urbana-Champaign. Anthony Yannarell- University of Illinois at Urbana-Champaign - Jonathan Rice Tetlie; Alexandra Harmon-Threatt; Anthony Yannarell
9:24 AM - 9:36 AM Pacific: Findings of the Washington Bee Atlas. Presenting Author: Karen W. Wright- Washington State Department of Agriculture. Joel Gardner- Washington State University. Lincoln Best- Oregon State University. Katharine Buckley- Washington State Department of Agriculture. Andony Melathopoulos-

Oregon State University - Karen W. Wright; Joel Gardner; Lincoln Best; Katharine Buckley; Andony Melathopoulos
9:36 AM - 9:48 AM Pacific: Habitat assessments for bumble bees in Minnesota restored and remnant prairie. Presenting Author: Julia B. Leone (she/her/hers)- Friends of the Mississippi River. Alex Roth- Friends of the Mississippi River - Julia B. Leone (she/her/hers); Alex Roth
9:48 AM - 10:00 AM Pacific: Integrating research and education to understand invertebrate community dynamics in endangered oak (Quercus garryana) habitats. Presenting Author: Gareth R. Hopkins, PhD- Western Oregon University. Ava R. Howard- Western Oregon University - Gareth R. Hopkins, PhD; Ava R. Howard
10:00 AM - 10:12 AM Pacific: Misidentified and unverifiable records impede conservation of the declining bee Bombus suckleyi (Hymenoptera: Apidae). Presenting Author: Zachary M. Portman (he/him/his)- University of Minnesota. Joel Neylon- Independent scientist. Casey M. Delphia- Montana State University. Kyle Price- Environmental Solutions & Innovations, Inc.. KC Carter- Illinois Natural History Survey. Daniel P. Cariveau- University of Minnesota - Zachary M. Portman (he/him/his); Joel Neylon; Casey M. Delphia; Kyle Price; KC Carter; Daniel P. Cariveau
10:12 AM - 10:24 AM Pacific: Native bees and plant-pollinator interactions in Farm Bill conservation plantings. Presenting Author: Casey Johnson (she/her/hers)- University of Rhode Island. Steven Alm- University of Rhode Island. Tracy Zarrillo (she/her/hers)- The Connecticut Agricultural Experiment Station. Emma Tondre- University of Rhode Island. Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station - Casey Johnson (she/her/hers); Steven Alm; Tracy Zarrillo (she/her/hers); Emma Tondre; Kelsey Elizabeth Fisher
10:24 AM - 10:36 AM Pacific: Break -
10:36 AM - 10:48 AM Pacific: Optimizing the management of Osmia ribifloris for blueberry pollination. Presenting Author: Miranda Jones- Utah State University. Kelsey Graham- USDA-ARS. Robert Schaeffer- Utah State University - Miranda Jones; Kelsey Graham; Robert Schaeffer
10:48 AM - 11:00 AM Pacific: Rare and at-risk butterfly species in the USA: Assessing trends and data availability. Presenting Author: Cheryl B. Schultz- Washington State University. Amanda Barth- Utah State University. Kevin Burls (he/him/his)- Xerces Society for Invertebrate Conservation. Elizabeth Crone- University of California. Ryan Drum- USFWS. Candace Fallon- Xerces Society for Invertebrate Conservation. Matthew Forister (he/him/his)- University of Nevada. Erica Henry- Washington Department of Fish and Wildlife. James Michelini- University of California Davis. Dolores Savignano- USFWS - Cheryl B. Schultz; Amanda Barth; Kevin Burls (he/him/his); Elizabeth Crone; Ryan Drum; Candace Fallon; Matthew Forister (he/him/his); Erica Henry; James Michelini; Dolores Savignano
11:00 AM - 11:12 AM Pacific: Sunflowers planted for recreational hunting provide resources for specialist pollinators. Presenting Author: Kim Huntzinger- USDA-ARS. Katherine Parys- USDA-ARS. Karen W. Wright- Washington State Department of Agriculture. Terry Griswold- USDA ARS Pollinating Insects Research Unit - Kim Huntzinger; Katherine Parys; Karen W. Wright; Terry Griswold
11:12 AM - 11:24 AM Pacific: The Conservation Reserve Program and its insect impacts. Presenting Author: Judith Herreid (she/her/hers)- USDA-ARS. Tatyana Rand- USDA-ARS - Judith Herreid (she/her/hers); Tatyana Rand
11:24 AM - 11:36 AM Pacific: Tracking rare bumble bees with eDNA from flowers: a viable option that saves time and bee lives. Presenting Author: Karen Goodell (she/her/hers)- The Ohio State University. Rodney Richardson- Western EcoSystems Technology, Inc.. Grace Avalos- Department of Entomology, University of MInnesota. Cameron James Garland (he/him/his)- University of Minnesota. Regina Trott- Appalachian Laboratory, University of Maryland Center for Environmental Science. Olivia Hagar- Appalachian Laboratory, University of Maryland Center for Environmental Science. Mark Hepner- Metamorphic Ecological Research and Consulting, LLC - Karen Goodell (she/her/hers); Rodney Richardson; Grace Avalos; Cameron James Garland (he/him/his); Regina Trott; Olivia Hagar; Mark Hepner
11:36 AM - 11:48 AM Pacific: Using emergence traps to explore insect overwintering dynamics in a Montane ecosystem. Presenting Author: Sophia M. Gulutzo (she/her/hers)- Colorado State University. John Mola- Colorado State University - Sophia M. Gulutzo (she/her/hers); John Mola
11:48 AM - 12:00 PM Pacific: Using experimental habitat management to recover the Oregon silverspot butterfly. Presenting Author: Emma Clare Dombrow (she/her/hers)- Washington State University. Cheryl B. Schultz- Washington State University - Emma Clare Dombrow (she/her/hers); Cheryl B. Schultz

Title: Exhibit Hall
Time: **9:00 AM - 5:00** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers:
Categories: General; Exhibit Hall

Abstract: The Exhibit Hall will feature exhibitors, poster display presentations, student club tables, and Artisan Row. Our exhibitors have the latest entomological equipment, supplies, gifts, and reference materials. Be sure to check out The Hive -- an interactive networking space in the Exhibit Hall where attendees can connect, collaborate, and spark new ideas. Join us for conversation starters and creative exchanges! Don't miss the Exhibitor Demonstration Stage, where industry leaders will showcase the latest technologies and innovations shaping the future. Check the program to see when your favorite exhibitor will be Presenting Daily Exhibit Hall Hours: Sunday, November 9: **7:30**-**9:30** p.m. Monday, November 10: 9 a.m. - 5 p.m. Tuesday, November 11: 9 a.m. - 5 p.m. Wednesday, November 12: 9 a.m. - 12 p.m.
Tracks: General; Exhibit Hall

Title: Poster: FIT, Education and Teaching Tools

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Formal and Informal Teaching
Tracks: Poster Display; Formal and Informal Teaching
Presentations:
9:00 AM - 5:00 PM Pacific: An undergraduate perspective on becoming a natural science illustrator in research. Presenting Author: Kristina Camia- New Jersey Institute of Technology. Claire S. Bailey (she/her/hers)- New Jersey Institute of Technology. Gianpiero Fiorentino- New Jersey Institute of Technology. Phillip Barden (he/him/his)- New Jersey Institute of Technology - Kristina Camia; Claire S. Bailey (she/her/hers); Gianpiero Fiorentino; Phillip Barden (he/him/his)
9:00 AM - 5:00 PM Pacific: Back for more bugs: MSU's new advanced Bug and Plant Camp. Presenting Author: Kayla V. Zehner- Mississippi Entomological Museum. Jennifer Seltzer- MIssissippi State University - Kayla V. Zehner; Jennifer Seltzer
9:00 AM - 5:00 PM Pacific: Biological control of aphids using Beauveria bassiana: Efficacy on greenhouse-grown beans. Presenting Author: Maryam Alomran, PhD- Princess Nourah Bint Abdulrahman University - Maryam Alomran, PhD
9:00 AM - 5:00 PM Pacific: Bridging language barriers in Latin America through myrmecology. Presenting Author: Gianpiero Fiorentino- New Jersey Institute of Technology. Maria Tocora (she/her/hers)- University of Toronto. Brandon Arredondo- Universidad del Magdalena. Laura Velasquez- Independant. Daniela Cubillos- Departamento de Zoologia, Universidade Federal do Paran. Diana Urcuqui- Universidade de So Paulo - Gianpiero Fiorentino; Maria Tocora (she/her/hers); Brandon Arredondo; Laura Velasquez; Daniela Cubillos; Diana Urcuqui
9:00 AM - 5:00 PM Pacific: Bringing collections to the classroom: Specimen digitization in an entomology course. Presenting Author: Elizabeth Murray- Washington State University - Elizabeth Murray
9:00 AM - 5:00 PM Pacific: Bringing fossils back from the dead with digital and physical media. Presenting Author: Phillip Barden (he/him/his)- New Jersey Institute of Technology - Phillip Barden (he/him/his)
9:00 AM - 5:00 PM Pacific: Entomology for all: ESA's Diversity, Equity, and Inclusion Committee. Presenting Author: Stacie East, Esq., CAE- Entomological Society of America. Meaghan-Li Mcardle- Entomological Society of America - Stacie East, Esq., CAE; Meaghan-Li Mcardle
9:00 AM - 5:00 PM Pacific: Frolicking with flower flies: Experiential learning with undergraduates through pollinator research. Presenting Author: Holly M. Martinson- McDaniel College. Vance Ellis- McDaniel College. Matthew Hodgdon- McDaniel College. Sophie Gilbart (she/they)- McDaniel College. Hailey Grzemkowski (she/her/hers)- McDaniel College. Kaitlin Murphy- Carroll Hospital Center. Lavinia Sherrill- McDaniel College. Jessie Wyatt- McDaniel College - Holly M. Martinson; Vance Ellis; Matthew Hodgdon; Sophie Gilbart (she/they); Hailey Grzemkowski (she/her/hers); Kaitlin Murphy; Lavinia Sherrill; Jessie Wyatt
9:00 AM - 5:00 PM Pacific: From bugs to breakthroughs: Preparing entomology students for research success. Presenting Author: Melissa Lynn Reed- Oklahoma State University - Melissa Lynn Reed
9:00 AM - 5:00 PM Pacific: Getting the best of pests webinars meet green industry needs and bolster county programming. Presenting Author: Bethany Harris- University of Georgia. Dan Suiter, PhD- The University of Georgia. Bodie Pennisi, PhD- The University of Georgia. Shimat Joseph- University of Georgia - Bethany Harris; Dan Suiter, PhD; Bodie Pennisi, PhD; Shimat Joseph
9:00 AM - 5:00 PM Pacific: High ACHIEVEment in science: Mentoring students with intellectual disabilities in a scientific research project. Presenting Author: Rachel McNeal (she/her/hers)- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University - Rachel McNeal (she/her/hers); Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)

9:00 AM - 5:00 PM Pacific: Inspiring change in western cranberry grower renovation habits to prevent invasive false blossom disease and blunt nose leafhopper. Presenting Author: Laura Joan Kraft- Washington State University. Yahel Ben-Svi- Rutgers University. Cesar Rodriguez-Saona (he/him/his)- Rutgers University - Laura Joan Kraft; Yahel Ben-Svi; Cesar Rodriguez-Saona (he/him/his)
9:00 AM - 5:00 PM Pacific: Integrating entomology education into introductory biology classes: The insect fact of the week. Presenting Author: Thomas P. Franzem- Kent State University - Thomas P. Franzem
9:00 AM - 5:00 PM Pacific: Intentional brown recluse bite to improve student awareness of risk. Presenting Author: Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University. Lauren Osborn- Oklahoma State University - Wyatt Wyatt Hoback (he/him/his); Lauren Osborn
9:00 AM - 5:00 PM Pacific: It swims! Reviving aquatic entomology at Mississippi State University. Presenting Author: Patricia Louise Wooden (she/her/hers)- Mississippi State University - Patricia Louise Wooden (she/her/hers)
9:00 AM - 5:00 PM Pacific: The effects of sleep deprivation and caffeine on learning inCamponotus floridanusants. Presenting Author: Roseanna Hessler- University of Scranton. Marc Seid- University of Scranton - Roseanna Hessler; Marc Seid

Title: Poster: MUVE, Biology and Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Medical, Urban, and Veterinary Entomology
Tracks: Poster Display; Medical, Urban, and Veterinary Entomology
Presentations:
9:00 AM - 5:00 PM Pacific: An investigation of American dog tick abundance and rodent host presence on a coastal Connecticut island. Presenting Author: Natalie Bailey (she/her/hers)- Connecticut Agricultural Experiment Station. Scott Williams- Connecticut Agricultural Experiment Station. Megan Linske- Connecticut Agricultural Experiment Station. Jessica Brown- Connecticut Agricultural Experiment Station - Natalie Bailey (she/her/hers); Scott Williams; Megan Linske; Jessica Brown
9:00 AM - 5:00 PM Pacific: Comparison of machine learning models for automated labeling of electropenetrography waveform data from mosquitoes. Presenting Author: Anastasia Cooper, PhD- Auburn University. Gabriel Hope- Harvey Mudd College. Elaine A. Backus (she/her/hers)- USDA-ARS. Dana Mitzel- National Agro and Bio-defense Facility. Kathyrn E. Reif- Auburn University - Anastasia Cooper, PhD; Gabriel Hope; Elaine A. Backus (she/her/hers); Dana Mitzel; Kathyrn E. Reif
9:00 AM - 5:00 PM Pacific: Daily temperature fluctuations influence West Nile Virus transmission by Culex tarsalis. Presenting Author: Laura C. Multini, PhD- Cornell University. Daniel Hartman- Centers for Disease Control and Prevention. Britny Johnson- Cornell University. Jared Skrotzki- Cornell University. Adrienne Healy- Cornell University. Gregory Ebel- Colorado State University. Courtney C. Murdock- Cornell University - Laura C. Multini, PhD; Daniel Hartman; Britny Johnson; Jared Skrotzki; Adrienne Healy; Gregory Ebel; Courtney C. Murdock
9:00 AM - 5:00 PM Pacific: Exploration of Culex mosquitoes virome through small-RNA sequencing reveals host-specific composition and novel viruses in Antioquia, Colombia. Presenting Author: Gissella Maria Vasquez- U.S. Naval Medical Research. Arley Calle-Tobon- Tulane University. Guillermo Rua- Universidad de Antioquia. Berlin Londono-Renteria- Tulane University - Gissella Maria Vasquez; Arley Calle-Tobon; Guillermo Rua; Berlin Londono-Renteria
9:00 AM - 5:00 PM Pacific: Impact of flood-induced landscape changes on mosquito community composition and host-use in the Brazilian Pantanal. Presenting Author: Kristin Sloyer- University of Florida. Rachel Viera- Federal University of Mato Grosso. Daniel Moura de Aguiar- Federal University of Mato Grosso. Edson Massoli- Federal University of Mato Grosso. Barbara Han- Cary Institute of Ecosystem Studies. Adrian Castellanos- Cary Institute of Ecosystem Studies. Kathryn Hanley (she/her/hers)- New Mexico State University. Nikolaos Vasilakis- UTMB - Kristin Sloyer; Rachel Viera; Daniel Moura de Aguiar; Edson Massoli; Barbara Han; Adrian Castellanos; Kathryn Hanley (she/her/hers); Nikolaos Vasilakis
9:00 AM - 5:00 PM Pacific: Impacts of stress on production of volatile organic compounds in the black soldier fly, Hermetia illucens(Linnaeus) (Diptera: Stratiomyidae). Presenting Author: Charity Grace Owings (she/her/hers)- University of Tennessee. Holly Holt, PhD- Oak Ridge Associated Universities. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University. John V. Goodpaster, PhD- Indiana University Indianapolis - Charity Grace Owings (she/her/hers); Holly Holt, PhD; Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his); John V. Goodpaster, PhD

9:00 AM - 5:00 PM Pacific: Imported fire ant colonies (Formicidae: Hymenoptera) extraction using moisture-differential technique: Evaluating behavioral impacts and future applications. Presenting Author: Farhan Mahmood Shah, PhD University of Mississippi. Ikhlas A Khan- NCNPR, The University of Mississippi. Abbas Ali- University of Mississippi - Farhan Mahmood Shah, PhD; Ikhlas A Khan; Abbas Ali
9:00 AM - 5:00 PM Pacific: Landscape features and phenology influence relative cryptic Culex abundance along urbanization gradients in eastern North America. Presenting Author: Megan Fritz- University of Maryland. Benjamin Gregory (he/him/his)- University of Maryland. Arielle Arsenault-Benoit- University of Maryland. Matt Fitzpatrick- University of Maryland - Megan Fritz; Benjamin Gregory (he/him/his); Arielle Arsenault-Benoit; Matt Fitzpatrick
9:00 AM - 5:00 PM Pacific: Outbreaks of the invasive gall midge Asynapta groverae (Diptera: Cecidomyiidae) in newly constructed apartments in South Korea, with notes on fungal food sources. Presenting Author: Junyoung Lee- Korea University. seongbin mok- Korea University. Changseob Lim- Ojeong Resilience Institute. Daseul Ham- National Institute of Biological Resources, Korea. HakHyun Kim- Korea University. Minseo Cho- Korea University. Seung Hun Shin- Korea Wood Panel Association. Jae-Jin Kim- Korea University. Yeon Jae Bae- Korea University - Junyoung Lee; seongbin mok; Changseob Lim; Daseul Ham; HakHyun Kim; Minseo Cho; Seung Hun Shin; Jae-Jin Kim; Yeon Jae Bae
9:00 AM - 5:00 PM Pacific: Probiotic bacteria impact on greenhouse gas and odor emissions during dairy manure digestion by black soldier fly (Hermetia illucens) (Diptera: Stratiomyidae) larvae. Presenting Author: Dimitra Papantoniou, PhD- Texas A&M University. Amber E. MacInnis (she/her/hers)- Texas A&M University. Branden Pierce- Mississippi State University. Heather Jordan (she/her/hers)- Mississippi State University. Anjel M. Helms- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University - Dimitra Papantoniou, PhD; Amber E. MacInnis (she/her/hers); Branden Pierce; Heather Jordan (she/her/hers); Anjel M. Helms; Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)
9:00 AM - 5:00 PM Pacific: Range expansion of the Argentine ant (Linepithema humile) into Virginia: Genetic evidence, supercolonial patterns, and viral infection patterns. Presenting Author: Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University. Po-Wei Brian Hsu- Department of General Systems Studies, The University of Tokyo. Kaloyan Ivanov- Department of Recent Invertebrates, Virginia Museum of Natural History. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University - Chin-Cheng Scotty Yang; Po-Wei Brian Hsu; Kaloyan Ivanov; Alejandro Del-Pozo
9:00 AM - 5:00 PM Pacific: Reaching new heights: Exploring the vertical distribution of mosquito populations on a sheep farm challenged with Cache Valley virus. Presenting Author: Lilly Conteh- Michigan State University. Joan Burke- USDA-ARS. Cameron Osborne- University of Arkansas. Emily McDermott- University of Arkansas. Dustin Swanson- USDA, ARS, National Bio- and Agro-Defense Facility. Robert Ewing- USDA, ARS, National Bio- and Agro-Defense Facility. Lee Cohnstaedt (he/him/his)- USDA-ARS - Lilly Conteh; Joan Burke; Cameron Osborne; Emily McDermott; Dustin Swanson; Robert Ewing; Lee Cohnstaedt (he/him/his)
9:00 AM - 5:00 PM Pacific: Scarab biodiversity in urban ecosystems of the mid-Atlantic United States. Presenting Author: Dana Leigh Price (she/her/hers)- Salisbury University. Philip L. Becnel, n/a- Salisbury University - Dana Leigh Price (she/her/hers); Philip L. Becnel, n/a
9:00 AM - 5:00 PM Pacific: Survival and bacterial load of black soldier flies pupating in different substrates. Presenting Author: Andrei Alyokhin- University of Maine. Kalini Jankee- School of Biology and Ecology, University of Maine. Marcia Coburn- Department of Molecular & Biomedical Sciences, University of Maine. Alexander Russell- Department of Molecular & Biomedical Sciences, University of Maine. Edward Bernard- Department of Molecular & Biomedical Sciences, University of Maine - Andrei Alyokhin; Kalini Jankee; Marcia Coburn; Alexander Russell; Edward Bernard
9:00 AM - 5:00 PM Pacific: Synthesis of (E)-4-oxo-2-alkenals and evaluation of their stability under different storage conditions. Presenting Author: Pradeep Paudel, PhD- USDA-ARS. Aijun Zhang- USDA-ARS IIBBL - Pradeep Paudel, PhD; Aijun Zhang
9:00 AM - 5:00 PM Pacific: The bugs in me: Review of 150 delusional parasitosis cases. Presenting Author: Grace Kolb- Purdue University. Ameya Gondhalekar- Department of Entomology, Purdue University - Grace Kolb; Ameya Gondhalekar
9:00 AM - 5:00 PM Pacific: The effect of dengue infection and humidity on the thermal preferences ofAedes albopictus. Presenting Author: Anna V. Shattuck- Cornell University. Jared Skrotzki- Cornell University. Laura C. Multini, PhD- Cornell University. Courtney C. Murdock- Cornell University - Anna V. Shattuck; Jared Skrotzki; Laura C. Multini, PhD; Courtney C. Murdock
9:00 AM - 5:00 PM Pacific: Urban landscape features shaping dengue risk driven by Aedes albopictus in northern Taiwan. Presenting Author: Yen-Chieh Chiu- National Health Research Institutes. Ting-Chun Shih- National Health Research Institutes. Hui-Ching Cheng- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Tzu-Ying Chuang- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Hsin-Yi Ho- National Mosquito-Borne Diseases Control Research

Center, National Health Research Institutes. Yu-Chi Huang- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Yi-Ying Lin- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Chin-Gi Huang- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes - Yen-Chieh Chiu; Ting-Chun Shih; Hui-Ching Cheng; Tzu-Ying Chuang; Hsin-Yi Ho; Yu-Chi Huang; Yi-Ying Lin; Chin-Gi Huang

Title: Poster: MUVE, Vector Surveillance and Control

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Medical, Urban, and Veterinary Entomology
Tracks: Poster Display; Medical, Urban, and Veterinary Entomology
Presentations:
9:00 AM - 5:00 PM Pacific: Characterizing the transmission dynamics of Trypanosoma cruziin Triatoma sanguisuga collected from dog kennels in southern Texas. Presenting Author: Diana Carolina Hernandez Castro, PhD- University of South Florida - Diana Carolina Hernandez Castro, PhD
9:00 AM - 5:00 PM Pacific: Effects of -cyfluthrin application on pollinator abundance. Presenting Author: Chloe Isabel Hart- University of Maine - Chloe Isabel Hart
9:00 AM - 5:00 PM Pacific: Engineering transgenic mosquitoes with Plasmodium falciparum-inducible mortality for targeted malaria control. Presenting Author: Houhong Zhang- Johns Hopkins University - Houhong Zhang
9:00 AM - 5:00 PM Pacific: Evaluation of mosquito gravid traps, light traps, and their attractants in agricultural habitats. Presenting Author: Drew T. Lysaker (he/him/his)- University of Wisconsin. Valeria Lee (she/her/hers)- Pennsylvania State University. Erika Machtinger- Pennsylvania State University - Drew T. Lysaker (he/him/his); Valeria Lee (she/her/hers); Erika Machtinger
9:00 AM - 5:00 PM Pacific: Evaluation of repellency and toxicity of novel botanical compounds against the blacklegged tick and the lone star tick. Presenting Author: Andrew Y. Li- USDA-ARS. Luara Beimfohr-Griffing (she/her/hers)- USDA-ARS. Jorge Bustamante (he/him/his)- USDA-ARS. Aijun Zhang- USDA-ARS IIBBL - Andrew Y. Li; Luara Beimfohr-Griffing (she/her/hers); Jorge Bustamante (he/him/his); Aijun Zhang
9:00 AM - 5:00 PM Pacific: Long-term monitoring of tick populations and SFTSV screening in Dangjin, Korea (2018-2024). Presenting Author: Jun Yang Jeong- Soonchunhyang University. Hyeon Jun Shin- Soonchunhyang University. Chan Eui Hong- Soonchunhyang University. Hyeok Lee- Soonchunhyang University. Gyeong Won Lee- Soonchunhyang University. Yi Seon Jang- Soonchunhyang University. Min Kyu Sang- Soonchunhyang University. Jie Eun Park- Soonchunhyang University. Dae Kwon Song- Soonchunhyang University. Yong Seok Lee- Soonchunhyang University - Jun Yang Jeong; Hyeon Jun Shin; Chan Eui Hong; Hyeok Lee; Gyeong Won Lee; Yi Seon Jang; Min Kyu Sang; Jie Eun Park; Dae Kwon Song; Yong Seok Lee
9:00 AM - 5:00 PM Pacific: Monitoring of chigger mite (Acari: Trombiculidae) population in Yesan, Chungcheongnam-do, Korea (2017-2024). Presenting Author: Hyeok Lee- Soonchunhyang University. Jun Yang Jeong- Soonchunhyang University. Chan Eui Hong- Soonchunhyang University. Hyeon Jun Shin- Soonchunhyang University. Gyeong Won Lee- Soonchunhyang University. Yi Seon Jang- Soonchunhyang University. Min Kyu Sang- Soonchunhyang University. Jie Eun Park- Soonchunhyang University. Dae Kwon Song- Soonchunhyang University. Yong Seok Lee- Soonchunhyang University - Hyeok Lee; Jun Yang Jeong; Chan Eui Hong; Hyeon Jun Shin; Gyeong Won Lee; Yi Seon Jang; Min Kyu Sang; Jie Eun Park; Dae Kwon Song; Yong Seok Lee
9:00 AM - 5:00 PM Pacific: Monitoring tick populations in Kentucky: Passive surveillance program. Presenting Author: Maria C. Carrasquilla- University of Kentucky. Callista Wayde Vandegriff- University of Kentucky. Morgan Smith- Kentucky Department for Public Health. Jun Seok Ryoo- University of Kentucky. S. Reddy Palli (he/him/his)- University of Kentucky - Maria C. Carrasquilla; Callista Wayde Vandegriff; Morgan Smith; Jun Seok Ryoo; S. Reddy Palli (he/him/his)
9:00 AM - 5:00 PM Pacific: Mosquito-borne viral diseases risk in military settings in Ghana. Presenting Author: Samuel Atsitsre- Ghana Armed Forces Health Services. Daniel Mingle- Ghana Armed Forces Health Services. Irene Owusu Donkor- Noguchi Memorial Institute for Medical Research. Samuel Dadzie- Noguchi Memorial Institute for Medical Research - Samuel Atsitsre; Daniel Mingle; Irene Owusu Donkor; Samuel Dadzie
9:00 AM - 5:00 PM Pacific: North American Termite Survey (NATS): A working group tracking the spread of the invasive Formosan subterranean termite Coptotermes formosanus. Presenting Author: Jose Santos Portugal, III, BCE, PHE Mississippi State University. Anamika Sharma (she/her/hers)- Florida A & M University. Aaron Ashbrook- Louisiana State University - Jose Santos Portugal, III, BCE, PHE; Anamika Sharma (she/her/hers); Aaron Ashbrook

9:00 AM - 5:00 PM Pacific: Seeing resistance in a new light: Using raman spectroscopy to detect insecticide resistance inAedes aegypti. Presenting Author: Carla-Cristina Melo Edwards- University of California. Geoffrey Attardo- University of California - Carla-Cristina Melo Edwards; Geoffrey Attardo
9:00 AM - 5:00 PM Pacific: The efficacy of seven mosquito-repellent candles: Do they work?. Presenting Author: Immo Alex Hansen, PhD- New Mexico State University. April Lopez- New Mexico State University. F.Omar A. Holguin- New Mexico State University-Main Campus - Immo Alex Hansen, PhD; April Lopez; F.Omar A. Holguin
9:00 AM - 5:00 PM Pacific: The potential use of isoxazolines as late-life-acting insecticides against the yellow fever mosquito, Aedes aegypti, and the common malaria mosquito, Anopheles quadrimaculatus. Presenting Author: Lillie Rooney- University of Florida. Jeffery Scott- Cornell University. Edwin Burgess- University of Florida - Lillie Rooney; Jeffery Scott; Edwin Burgess
9:00 AM - 5:00 PM Pacific: The Vieques Septic Systems Project. Presenting Author: Jorge L. Nina Espinosa- Department of Natural and Environmental Resources - Jorge L. Nina Espinosa
9:00 AM - 5:00 PM Pacific: Unraveling the genomic diversity of Jamestown Canyon virus in mosquitoes from northeastern Illinois. Presenting Author: Donghyun Seo- University of Illinois. Arif Ciloglu (he/him/his)- Erciyes University. Chang-Hyun Kim- Illinois Natural History Survey. Chris Stone- Illinois Natural History Survey - Donghyun Seo; Arif Ciloglu (he/him/his); Chang-Hyun Kim; Chris Stone
9:00 AM - 5:00 PM Pacific: Using novel plant extracts for mosquito control. Presenting Author: Christopher Vitek- University of Texas. Ilsa Flores- University of Texas Rio Grande Valley - Christopher Vitek; Ilsa Flores
9:00 AM - 5:00 PM Pacific: Vector-borne pathogen surveillance in military and police working dogs, shelter dogs, and pet dogs. Presenting Author: Michael E. McCown, DVM, MPH, PhD, DACVPM- US Army. Maureen T. Long- UF. Jorge Hernandez- UF - Michael E. McCown, DVM, MPH, PhD, DACVPM; Maureen T. Long; Jorge Hernandez

Tuesday, November 11, 2025

Title: Poster: PBT, Biochemistry and Chemical Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Physiology, Biochemistry, and Toxicology
Tracks: Poster Display; Physiology, Biochemistry, and Toxicology
Presentations:
9:00 AM - 5:00 PM Pacific: A novel Cry89A provides efficacy against several key lepidopteran maize pests. Presenting Author: Thomas Clark- Genective. Wenfu Mao- Genective. Jian Yao- Genective. Dillan Brown- Genective. Pete Clark- Genective. Elena Dzhaman- Genective. Erik Schad- Genective. Tyler Froman- Genective. Gracie Galindo- Genective. Francois Torney- Limagrain - Thomas Clark; Wenfu Mao; Jian Yao; Dillan Brown; Pete Clark; Elena Dzhaman; Erik Schad; Tyler Froman; Gracie Galindo; Francois Torney
9:00 AM - 5:00 PM Pacific: A novel insecticidal protein provides rootworm protection in maize. Presenting Author: Pete Clark- Genective. James Winsor- Genective. Dalton Ludwick- USDA-ARS. Madison Havel- Genective. Esha Sharma- Genective. Elena Dzhaman- Genective. Erik Schad- Genective. Maia Leach- Genective. Dillan Brown- Genective. Thomas Clark- Genective - Pete Clark; James Winsor; Dalton Ludwick; Madison Havel; Esha Sharma; Elena Dzhaman; Erik Schad; Maia Leach; Dillan Brown; Thomas Clark
9:00 AM - 5:00 PM Pacific: Complicated semiochemistry of the invasive hornets Vespa mandarinia an dV. tropica(Hymenoptera: Vespidae). Presenting Author: Jacqueline Serrano (she/her/hers)- USDA-ARS. Chris Looney- Washington State Department of Agriculture. Christopher Rosario- Department of Agriculture / University of Guam. Moon Bo Choi- Kyungpook National University. Hideshi Naka- Tottori University - Jacqueline Serrano (she/her/hers); Chris Looney; Christopher Rosario; Moon Bo Choi; Hideshi Naka
9:00 AM - 5:00 PM Pacific: Creating a novel insecticidal protein via engineering for protection against key maize pests. Presenting Author: Marc Harper- Genective. Pete Clark- Genective. Hannah Shelabarger- Genective. Erin Waldrop- Genective. Jian Yao- Genective. Dillan Brown- Genective. Katie Dent- Genective. Lindsey Behrens (she/her/hers)- Genective. Erik Schad- Genective. Thomas Clark- Genective - Marc Harper; Pete Clark; Hannah Shelabarger; Erin Waldrop; Jian Yao; Dillan Brown; Katie Dent; Lindsey Behrens (she/her/hers); Erik Schad; Thomas Clark
9:00 AM - 5:00 PM Pacific: Efficacy assessment of Sericea lespedeza treatments on insect mortality and dose optimization using log-logistic modeling. Presenting Author: Aftab Siddique, PhD- Fort Valley State University. Kas Howard- FVSU. Sanower Warsi- Fort Valley State University. George Mbata- Fort Valley State University. Thomas H- Fort Valley State University - Aftab Siddique, PhD; Kas Howard; Sanower Warsi; George Mbata; Thomas H
9:00 AM - 5:00 PM Pacific: Field evaluation of methyl benzoate as a behavioral control agent for spotted-wing drosophila in blueberries. Presenting Author: Souvic Sarker- Rutgers University - Souvic Sarker

9:00 AM - 5:00 PM Pacific: How phenology and climate affect cuticular hydrocarbon profiles and heat tolerances of wild bees in California. Presenting Author: Rebecca Dubin- University of San Francisco. Ashley Ayala- University of San Francisco. Naupaka Zimmerman- University of Kansas. Sevan Suni- University of San Francisco - Rebecca Dubin; Ashley Ayala; Naupaka Zimmerman; Sevan Suni
9:00 AM - 5:00 PM Pacific: Identification of cytochrome P450 monooxygenases associated with resistance to major acaricides in Varroa mites. Presenting Author: Hyun Kyu Shin- Seoul National University. Joonhee Lee- Seoul National University. Youngcheon Lim- Seoul National University. Jong Hyeok Lee- Seoul National University. Si Hyeock Lee- Seoul National University - Hyun Kyu Shin; Joonhee Lee; Youngcheon Lim; Jong Hyeok Lee; Si Hyeock Lee
9:00 AM - 5:00 PM Pacific: Investigating the impact of Juglans nigra extract on plant performance under conditions of stress. Presenting Author: Lucas Ripa- University of Idaho. Edwin Lewis- University of Idaho - Lucas Ripa; Edwin Lewis
9:00 AM - 5:00 PM Pacific: Microbes, molecules, and mason bees: Pollen provision profiles across a landscape gradient. Presenting Author: Tobias gerhard Mueller- Cornell University. Bryan Danforth- Cornell University. Jordan Kueneman (he/him/his)- Cornell. Rachel Fordyce (she/her/hers)- Cornell - Tobias gerhard Mueller; Bryan Danforth; Jordan Kueneman (he/him/his); Rachel Fordyce (she/her/hers)
9:00 AM - 5:00 PM Pacific: Microbial communities associated with Retinia resinella larvae and galls in Scots pine forests: Potential role in terpenoid degradation. Presenting Author: Ali Hassan Syed- University of Ostrava. Tereza Minarkov- University of Ostrava - Ali Hassan Syed; Tereza Minarkov
9:00 AM - 5:00 PM Pacific: Ovicidal and larvicidal activity of 1,2-propanediol and impact on oviposition choice inAedes aegypti. Presenting Author: Heidi Pullmann-Lindsley- George Fox University. Ceres Swanson- George Fox University. Katherine Larson- George Fox University - Heidi Pullmann-Lindsley; Ceres Swanson; Katherine Larson
9:00 AM - 5:00 PM Pacific: Quantifying insect gut microbial degradation of tomatine in American bird grasshopper. Presenting Author: Aidan Mitchell Skinner- University of Texas. Rachel C. Vargas (she/her/hers)- University of Texas. Jaden Rankin- University of Texas. Alison Ravenscraft (she/her/hers)- University of Texas at Arlington - Aidan Mitchell Skinner; Rachel C. Vargas (she/her/hers); Jaden Rankin; Alison Ravenscraft (she/her/hers)
9:00 AM - 5:00 PM Pacific: To eat or not to eat: Garcinia kola (Clusiaceae) modifies the behavior of Colorado potato beetle, Leptinotarsa decemlineata(Say). Presenting Author: Ikponmwosa Egbon, PhD (he/him/his)- University of Maine. Andrei Alyokhin- University of Maine - Ikponmwosa Egbon, PhD (he/him/his); Andrei Alyokhin
9:00 AM - 5:00 PM Pacific: Variation in conifer resistance to Lymantria dispar revealed by host screening and foliage chemistry. Presenting Author: Mingming Cui- Laval University - Mingming Cui
9:00 AM - 5:00 PM Pacific: Wurst protein plays a crucial role in the molting process of insects. Presenting Author: Savannah Leigh Armendariz- University of Nebraska. Claire Garman- University of Nebraska. Faith Kozisek- University of Nebraska Medical Center. Jonathan Cenovic- University of Nebraska Medical Center. Subbaratnam Muthukrishnan- Kansas State University. Vinai C. Thomas- University of Nebraska Medical Center. Sujata S. Chaudhari- University of Nebraska Medical Center - Savannah Leigh Armendariz; Claire Garman; Faith Kozisek; Jonathan Cenovic; Subbaratnam Muthukrishnan; Vinai C. Thomas; Sujata S. Chaudhari

Title: Poster: PBT, Genetics and Molecular and Cellular Biology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Physiology, Biochemistry, and Toxicology
Tracks: Poster Display; Physiology, Biochemistry, and Toxicology
Presentations:
9:00 AM - 5:00 PM Pacific: Characterization of new genetic markers for fall armyworm (Spodoptera frugiperda [J.E. Smith]) host strains and their implications for Z-chromosome-mediated strain differentiation. Presenting Author: Rodney Nagoshi- USDA-ARS. Ashley Tessnow- Oak Ridge Institute for Science and Education (ORISE) - Rodney Nagoshi; Ashley Tessnow
9:00 AM - 5:00 PM Pacific: Differential regulation of GPCR genes in two pests feeding on distinct hemp cultivars. Presenting Author: Junhuan Xu- Alabama State University. Andy-Maxence Tadjuidje- Alabama State University. Favour Nwanekezi- Alabama State University. Mercy Adesanmi- Alabama State University. Victory Obele- Alabama State University. Ivy Nicola Thweatt- Alabama State University. Ibrahim Iddrisu- Alabama State University. Joseph Ayariga- Alabama State University. Ting Li- Alabama State University. Olufemi Ajayi (he/him/his)- Department of Biological Sciences, Alabama State University - Junhuan Xu; Andy-Maxence

Tadjuidje; Favour Nwanekezi; Mercy Adesanmi; Victory Obele; Ivy Nicola Thweatt; Ibrahim Iddrisu; Joseph Ayariga; Ting Li; Olufemi Ajayi (he/him/his)
9:00 AM - 5:00 PM Pacific: Diversity and functions of protein glycosylation in insect development. Presenting Author: Kristof De Schutter, PhD- Ghent University. Qun Yang- Ghent University - Kristof De Schutter, PhD; Qun Yang
9:00 AM - 5:00 PM Pacific: dsRNA as a pesticide: Assessing its impact on non-target organism, Phaedon brassicae. Presenting Author: June Sunny Yoon- Jeonbuk National University - June Sunny Yoon
9:00 AM - 5:00 PM Pacific: Expanding the genetic toolkit for codling moth: Phenotypic and fluorescent markers for transgenesis. Presenting Author: William Benjamin Walker, III- United States Department of Agriculture. Anandrao Ashok Patil, PhD (he/him/his)- University of Washington - William Benjamin Walker, III; Anandrao Ashok Patil, PhD (he/him/his)
9:00 AM - 5:00 PM Pacific: Exploring cellular uptake of layered double hydroxide nanosheets for delivery of RNA interference in the diamondback moth, Plutella xylostell. Presenting Author: Jossette A. Coloma- Kansas State University. Rachel Leigh Johnson (she/her/hers)- Kansas State University. Kun Yan Zhu- Kansas State University - Jossette A. Coloma; Rachel Leigh Johnson (she/her/hers); Kun Yan Zhu
9:00 AM - 5:00 PM Pacific: Exploring mitochondrial disruptions in Tribolium castaneum under carbonyl sulfide fumigation. Presenting Author: Keon Mook Seong- Chungnam National University. Na Ri Shin- Chungnam National University. Rashmi Manohar Mahalle- Chungnam National University. Jun Ran Kim- Animal and Plant Quarantine Agency (APQA). Bong Su Kim- Animal and Plant Quarantine Agency (APQA) - Keon Mook Seong; Na Ri Shin; Rashmi Manohar Mahalle; Jun Ran Kim; Bong Su Kim
9:00 AM - 5:00 PM Pacific: Fulcrum gene editing platform: Partnering to accelerate innovation in agriculture. Presenting Author: Loren J. Rivera-Vega- Pairwise - Loren J. Rivera-Vega
9:00 AM - 5:00 PM Pacific: Function of horizontally transferred Wolbachiagenes in Rhodnius prolixus. Presenting Author: Liam Ash- University of Georgia. Kevin Vogel- University of Georgia - Liam Ash; Kevin Vogel
9:00 AM - 5:00 PM Pacific: Functional characterization of CAPA receptors and their ligand specificity in the corn earworm, Helicoverpa zea. Presenting Author: Seung-Joon Ahn- Mississippi State University. Briana Price (she/her/hers)- Washington State University. Man-Yeon Choi- United States Department of Agriculture - Seung-Joon Ahn; Briana Price (she/her/hers); Man-Yeon Choi
9:00 AM - 5:00 PM Pacific: Fungal secondary metabolites alter host gene expression in Camponotus floridanus. Presenting Author: Mason Spencer DiCesare- University of Scranton. Marc Seid- University of Scranton - Mason Spencer DiCesare; Marc Seid
9:00 AM - 5:00 PM Pacific: Genetic control of Ceratitis capitataby combining sex-conversion and female sterilization. Presenting Author: Germano Sollazzo (he/him/his)- Imperial College London - Germano Sollazzo (he/him/his)
9:00 AM - 5:00 PM Pacific: Identification and functional expression of CAPA receptor in spotted lanternfly (Lycorma delicatula). Presenting Author: Ryssa Parks (she/her/hers)- USDA-ARS. Hyo Sang Jang- USDA ARS. Seung-Joon Ahn- Mississippi State University. Man-Yeon Choi- U.S. Department of Agriculture - Ryssa Parks (she/her/hers); Hyo Sang Jang; Seung-Joon Ahn; Man-Yeon Choi
9:00 AM - 5:00 PM Pacific: Metabolomic insights into western corn rootworm tolerance to dsRNA (Snf7 or Ssj1) ingestion. Presenting Author: Man Huynh (he/him/his)- University of Missouri. Bruce Hibbard- USDA-ARS. Khanh-Van Ho- University of Missouri - Columbia. Adriano Pereira- RNAissance AG. Deborah Finke- University of Missouri. Dalton Ludwick- USDA-ARS. Kent Shelby- USDA-ARS - Man Huynh (he/him/his); Bruce Hibbard; Khanh-Van Ho; Adriano Pereira; Deborah Finke; Dalton Ludwick; Kent Shelby
9:00 AM - 5:00 PM Pacific: Molecular insights into bifenazate resistance in two-spotted spider mite populations on hops. Presenting Author: Sonu Koirala B K (she/her/hers)- Oregon State University. Adekunle Adesanya (he/him/his)- Corteva Agriscience. Douglas Walsh- Washington State University. Fang Zhu- Pennsylvania State University - Sonu Koirala B K (she/her/hers); Adekunle Adesanya (he/him/his); Douglas Walsh; Fang Zhu
9:00 AM - 5:00 PM Pacific: Morphological and molecular insights into embryonic development in the lone star tick, Amblyomma americanum. Presenting Author: Callista Wayde Vandegriff- University of Kentucky. S. Reddy Palli (he/him/his)- University of Kentucky - Callista Wayde Vandegriff; S. Reddy Palli (he/him/his)
9:00 AM - 5:00 PM Pacific: Targeting insulin-receptor substrate 1 in Aedes aegypti mosquitoes by utilizing ReMOT-control CRISPR and RNA interference. Presenting Author: Mary Williams- New Mexico State University. April Lopez- New Mexico State University. Anjali Karki- New Mexico State University. Immo Alex Hansen, PhDNew Mexico State University - Mary Williams; April Lopez; Anjali Karki; Immo Alex Hansen, PhD
9:00 AM - 5:00 PM Pacific: The role of CDKLs in Drosophila olfaction. Presenting Author: Andre Jang- University of Connecticut - Andre Jang

Title: Poster: PBT, Physiology and Toxicology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Physiology, Biochemistry, and Toxicology
Tracks: Poster Display; Physiology, Biochemistry, and Toxicology
Presentations:
9:00 AM - 5:00 PM Pacific: A new tool to calculate crop specific pollen and nectar pesticide concentrations from different application methods. Presenting Author: Timothy Fredricks- Bayer Crop Science. Larry Brewer- Compliance Services International. William Warren-Hicks- EcoStat Inc.. Silvia Hinarejos- Sumitomo Chemical Co., Ltd. Max Feken- Syngenta Crop Protection, LLC. Timothy Joseph- Mitsui Chemicals Crop & Life Solutions, Inc. c/o Landis International, Inc.. Bridget O'Neill (she/her/hers)- Corteva Agriscience. Don Catanzaro- EcoStat Inc. - Timothy Fredricks; Larry Brewer; William Warren-Hicks; Silvia Hinarejos; Max Feken; Timothy Joseph; Bridget O'Neill (she/her/hers); Don Catanzaro
9:00 AM - 5:00 PM Pacific: Age-specific thermogenic warm-up rates across different bumble bee castes (Bombus impatiens). Presenting Author: Jordan Robert Glass- University of Wyoming. Ripken S. Wellikson- University of Wyoming. Megan Dillon- University of Wyoming. Lauren Vaninger- University of Wyoming. Clara Fullerton- University of Wyoming. Anna Cressman- University of Wyoming. Michael Dillon- University of Wyoming - Jordan Robert Glass; Ripken S. Wellikson; Megan Dillon; Lauren Vaninger; Clara Fullerton; Anna Cressman; Michael Dillon
9:00 AM - 5:00 PM Pacific: Assessment of pyrethroid resistance and alternative insecticide efficacies in a fall armyworm population from central Kentucky. Presenting Author: Raul T. Villanueva- University of Kentucky. Felipe Colares Batista- University of Kentucky. Christopher Teutsch- University of Kentucky. Jose Miguel Bravo Romero- University of Kentucky - Raul T. Villanueva; Felipe Colares Batista; Christopher Teutsch; Jose Miguel Bravo Romero
9:00 AM - 5:00 PM Pacific: Beat the heat, survive the chill: How ant castes handle extreme temperatures. Presenting Author: Purbayan Ghosh- Arizona State University. Stephen Pratt- Arizona State University - Purbayan Ghosh; Stephen Pratt
9:00 AM - 5:00 PM Pacific: Chlorobenzene fumigation for control of stored product pests. Presenting Author: Yong-Biao Liu (he/him/his)- USDA-ARS - Yong-Biao Liu (he/him/his)
9:00 AM - 5:00 PM Pacific: Cryptic male choice in cellar spiders (Pholcus phalangioides): Evidence of strategic sperm allocation. Presenting Author: Ripken S. Wellikson- University of Wyoming. Chad Hoefler- Arcadia University - Ripken S. Wellikson; Chad Hoefler
9:00 AM - 5:00 PM Pacific: Effects of neonicotinoid seed treatments on cotton seedlings infested by thrips in controlled environment conditions. Presenting Author: Aqeela Sehrish, PhD (she/her/hers)- University of Mississippi - Aqeela Sehrish, PhD (she/her/hers)
9:00 AM - 5:00 PM Pacific: Efficacy of systemic insecticides in managing citrus mealybug in the greenhouse. Presenting Author: Jovani Belman-Acevedo- University of California. Sanjeev K. Dhungana- University of California. Sandipa G. Gautam- University of California - Jovani Belman-Acevedo; Sanjeev K. Dhungana; Sandipa G. Gautam
9:00 AM - 5:00 PM Pacific: Evaluation of a novel methodology to predict time until pupation for black soldier fly larvae production systems. Presenting Author: Jina Patton- Oregon State University - Jina Patton
9:00 AM - 5:00 PM Pacific: Genotypic and phenotypic diversity in honey bee (Apis mellifera) gut symbionts: Implications for pesticide resistance. Presenting Author: Jenifer B. Walke, PhD (she/her/hers)- Eastern Washington University. Macee Mitchell, M.S. (she/her/hers)- Eastern Washington University. Krista Dodd, M.S.- Eastern Washington University. Emma Bradford, PhD- Virginia Tech. Kevin Radja- Virginia Tech. Richard Fell, PhD- Virginia Tech. Lisa Belden, PhD- Virginia Tech. David Haak, PhDVirginia Tech - Jenifer B. Walke, PhD (she/her/hers); Macee Mitchell, M.S. (she/her/hers); Krista Dodd, M.S.; Emma Bradford, PhD; Kevin Radja; Richard Fell, PhD; Lisa Belden, PhD; David Haak, PhD
9:00 AM - 5:00 PM Pacific: Identifying the molecular components that generate the transepithelial potential in insect sensilla. Presenting Author: Teng Long- University of Connecticut - Teng Long
9:00 AM - 5:00 PM Pacific: Influence of pyriproxyfen, a juvenile hormone analogue, on diapause termination in the solitary bee, Osmia lignaria. Presenting Author: Mehakpreet Kaur- North Dakota State University. Alex S. Torson (he/him/his)- North Dakota State University. Arun Rajamohan- USDA-ARS. Julia Bowsher- North Dakota State University - Mehakpreet Kaur; Alex S. Torson (he/him/his); Arun Rajamohan; Julia Bowsher
9:00 AM - 5:00 PM Pacific: Insecticide-infused hydrogel baits to control European earwigs in citrus. Presenting Author: Sanjeev K. Dhungana- University of California. Sandipa G. Gautam- University of California - Sanjeev K. Dhungana; Sandipa G. Gautam

9:00 AM - 5:00 PM Pacific: Integrating thermal physiology with ecological niche modeling of Polistes in North America. Presenting Author: Samir Kuinkel- University of Missouri - Samir Kuinkel
9:00 AM - 5:00 PM Pacific: Investigating long-distance visual communication in midge flies: Simulating flashing wingbeat frequency (FWF). Presenting Author: Caroline Gaskin- Columbia University - Caroline Gaskin
9:00 AM - 5:00 PM Pacific: Lethal and sublethal effects of a common pesticide synergist, piperonyl butoxide (PBO), on a non-target pollinator, the common eastern bumblebee (Bombus impatiens). Presenting Author: Danielle Dryer, M.S.- Cornell University. Karen Salazar- California State University Fullerton. Leeah I. Richardson- University of Texas. Felicity Muth- University of Nevada, Reno. Scott McArt- Cornell University - Danielle Dryer, M.S.; Karen Salazar; Leeah I. Richardson; Felicity Muth; Scott McArt
9:00 AM - 5:00 PM Pacific: Microbial vitamin B12 metabolism regulates Drosophila nutritional phenotype. Presenting Author: Kaihre Tomas Brightwater- University of Missouri. Katharine Eastman- USDA-ARS - Kaihre Tomas Brightwater; Katharine Eastman
9:00 AM - 5:00 PM Pacific: Neurochemical modulation by histamine and serotonin inAnopheles stephensi. Presenting Author: Xiaodi Wang- University of Washington. Samuel O. Darkwah- University of Washington. Grace K. Louie- University of Washington. Ran Zhao- University of Washington. Kevin Ochwedo- University of Idaho. Nora Cespedes- University of Idaho. Ronald E. Bentil- University of Idaho. Jyotishka Datta- Virginia Tech. Michael A. Robert- Virginia Tech. Edwin Lewis- University of Idaho. Shirley Luckhart- University of Idaho. Jeff Riffell- University of Washington - Xiaodi Wang; Samuel O. Darkwah; Grace K. Louie; Ran Zhao; Kevin Ochwedo; Nora Cespedes; Ronald E. Bentil; Jyotishka Datta; Michael A. Robert; Edwin Lewis; Shirley Luckhart; Jeff Riffell
9:00 AM - 5:00 PM Pacific: Non-linear regression in insecticide bioassays: Benefits and applications of the drc package. Presenting Author: Marija Milosevic- University of Nebraska-Lincoln. Luka Milosevic- UNL Agronomy and Horticulture. Stevan Knezevic- UNL Agronomy and Horticulture. Ana Velez (she/her/hers)- University of Nebraska-Lincoln - Marija Milosevic; Luka Milosevic; Stevan Knezevic; Ana Velez (she/her/hers)
9:00 AM - 5:00 PM Pacific: Residual toxicities of insecticides to the Aphytis melinus parasitoid. Presenting Author: Sandipa G. Gautam- University of California. Ping Gu- University of California - Sandipa G. Gautam; Ping Gu
9:00 AM - 5:00 PM Pacific: Smurf bees: An assay to determine intestinal integrity as a measure of health decline with age or other factors in honey bees (Apis mellifera). Presenting Author: Jess M. Ortiz Ortiz (he/him/his)- University of Puerto Rico, Ro Piedras Campus. Hector De Jess-Cortes- University of Puerto Rico Rio Piedras. Felipe Rosa- University of Puerto Rico Rio Piedras. Jose Agosto-Rivera- University of Puerto Rico Rio Piedras. Tugrul Giray- University of Puerto Rico Rio Piedras. Imilce Rodriguez-Fernandez- University of Puerto Rico Rio Piedras - Jess M. Ortiz Ortiz (he/him/his); Hector De Jess-Cortes; Felipe Rosa; Jose Agosto-Rivera; Tugrul Giray; Imilce Rodriguez-Fernandez
9:00 AM - 5:00 PM Pacific: The Biotalys AGROBODY Foundry: A novel platform for insect pest management. Presenting Author: Nji Tizi Clauvis Taning- Biotalys NV. Thomas Denoulet- Biotalys. Michael Csukai- Biotalys. Carlo Boutton- Biotalys - Nji Tizi Clauvis Taning; Thomas Denoulet; Michael Csukai; Carlo Boutton
9:00 AM - 5:00 PM Pacific: The neuroprotective effects of purified Pogonomyrmex badius venom on pentylenetetrazole induced seizures in Camponotus floridanus. Presenting Author: Amber Hope Armitage- University of Scranton. Marc Seid- University of Scranton - Amber Hope Armitage; Marc Seid
9:00 AM - 5:00 PM Pacific: Time-course of attainment and reversal of acclimation temperature in the invasive fall armyworm. Presenting Author: Macdonald Mubayiwa- Botswana International University of Science and Technology. Casper Nyamukondiwa- Botswana International University of Science and Technology. Honest Machekano- University of Pretoria. Mvumi Brighton- University of Zimbabwe - Macdonald Mubayiwa; Casper Nyamukondiwa; Honest Machekano; Mvumi Brighton
9:00 AM - 5:00 PM Pacific: Toxicity of pesticides to citrus mealybug natural enemies. Presenting Author: Ping Gu- University of California. Sanjeev K. Dhungana- University of California. Saurabh Gautam- University of Georgia - Ping Gu; Sanjeev K. Dhungana; Saurabh Gautam
9:00 AM - 5:00 PM Pacific: Vulnerability in numbers: Pyrethroid exposure implicated in a mass mortality of overwintering monarchs in California. Presenting Author: Staci Cibotti- Xerces Society for Invertebrate Conservation. Michelle Hladik- U.S. Geological Survey. Emily May- The Xerces Society for Invertebrate Conservation. Emma Pelton- The Xerces Society. Timothy Bargar (he/him/his)- U.S. Geological Survey. Natalie M. Johnston (she/her/hers)- University of Nebraska. Aimee Code- Xerces Society for Invertebrate Conservation - Staci Cibotti; Michelle Hladik; Emily May; Emma Pelton; Timothy Bargar (he/him/his); Natalie M. Johnston (she/her/hers); Aimee Code

Title: Poster: P-IE, Apiculture

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:

Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: Comparative assessment of long-term storage methods for Vairimorpha (Nosema) ceranae. Presenting Author: Tonya Shepherd- Texas A&M University. Tara Lanning- Texas A&M University. Keegan Nichols- Texas A&M University. Juliana Rangel- Texas A&M University - Tonya Shepherd; Tara Lanning; Keegan Nichols; Juliana Rangel
9:00 AM - 5:00 PM Pacific: Evaluating and mitigating European foulbrood disease in honey bee colonies pollinating specialty crops to enhance and sustain pollination. Presenting Author: Benjamin James Nichols- Oregon State University - Benjamin James Nichols
9:00 AM - 5:00 PM Pacific: Evaluation of delivery methods for the entomopathogenic fungus Beauveria bassiana in honey bee colonies for the control ofVarroa destructor. Presenting Author: Dahee Ahn- The Ohio State University. Reed Johnson- The Ohio State University. James Arends- JABB of the Carolinas. Richard Hack- RJH consulting LLC - Dahee Ahn; Reed Johnson; James Arends; Richard Hack
9:00 AM - 5:00 PM Pacific: Image analysis of pupal sex ratio in honey bee hives. Presenting Author: Anna R. Tattelman- Providence College. Grace O'Brien- Providence College. Rachael Bonoan- Providence College - Anna R. Tattelman; Grace O'Brien; Rachael Bonoan
9:00 AM - 5:00 PM Pacific: Instincts of survival: Exploring hygienic behavior in honeybees (Apis mellifera). Presenting Author: Heaven Maxine Strachan. Hongmei Li-Byarlay (she/her/hers)- Central State University - Heaven Maxine Strachan; Hongmei Li-Byarlay (she/her/hers)
9:00 AM - 5:00 PM Pacific: Mapping the virome of Tropilaelaps: A new threat to global apiculture. Presenting Author: Carmen Black- University of Colorado. Lincoln Nian Taylor (he/him/his)- University of Colorado. Madison Sankovitz- University of Colorado. Samuel D. Ramsey- CU Boulder - Carmen Black; Lincoln Nian Taylor (he/him/his); Madison Sankovitz; Samuel D. Ramsey
9:00 AM - 5:00 PM Pacific: New York State Beekeeper Tech Team: One-on-one extension with beekeepers to improve honey bee health and profitability. Presenting Author: Randall Paul Cass (he/him/his)- Cornell University. Scott McArt- Cornell University. Emily O'Neil- Cornell University - Randall Paul Cass (he/him/his); Scott McArt; Emily O'Neil
9:00 AM - 5:00 PM Pacific: Protecting the hive: Enhancing biocontrol of Aethina tumida through entomopathogenic nematode protection from UV radiation and desiccation. Presenting Author: Bibechana Paudel- Fort Valley State University. Sanower Warsi- Fort Valley State University. David Shapiro-Ilan (he/him/his)- USDA-ARS. George Mbata- Fort Valley State University - Bibechana Paudel; Sanower Warsi; David Shapiro-Ilan (he/him/his); George Mbata
9:00 AM - 5:00 PM Pacific: Seasonal shifts in stable isotope signatures of honey bees. Presenting Author: Katherine Kamminga- Kentucky State University. Thomas Webster- Kentucky State University - Katherine Kamminga; Thomas Webster
9:00 AM - 5:00 PM Pacific: Using powdered sugar to remove varroa mites from honey bees. Presenting Author: Casey Johnson (she/her/hers)- University of Rhode Island. Steven Alm- University of Rhode Island - Casey Johnson (she/her/hers); Steven Alm

Title: Poster: P-IE, Behavior and Chemical Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: BeeMonitor: Automated IoT video surveillance and AI-powered analysis of solitary bee nesting behavior. Presenting Author: Edward Idun Amoah- Pennsylvania State University. Santosh Sanjel- The Pennsylvania State University. Natalie Boyle- Pennsylvania State University. Christina Grozinger- Penn State University - Edward Idun Amoah; Santosh Sanjel; Natalie Boyle; Christina Grozinger
9:00 AM - 5:00 PM Pacific: Combination of aggregation pheromones with kairomones for management of chrysomelid vegetable pests. Presenting Author: Donald C. Weber- USDA-ARS. Christophe Duplais- Cornell University. Ian Grettenberger- University of California. Christopher S. Jeffrey- University of Nevada. Ian Kaplan- Purdue University. Thomas Kuhar- Virginia Polytechnic Institute and State University. Laura K. Martinez (she/her/hers)- Cornell University. Boyd Mori- University of Alberta. Demian A. Nunez- Virginia Polytechnic Institute and State University. Jennifer Thaler- Cornell University. Anna Wallingford- USDA-ARS - Donald C.

Weber; Christophe Duplais; Ian Grettenberger; Christopher S. Jeffrey; Ian Kaplan; Thomas Kuhar; Laura K. Martinez (she/her/hers); Boyd Mori; Demian A. Nunez; Jennifer Thaler; Anna Wallingford
9:00 AM - 5:00 PM Pacific: Constitutive- and herbivore-induced- plant volatile compounds of pecans. Presenting Author: Santhi Bhavanam- New Mexico State University. Ricardo Ramirez (he/him/his)- New Mexico State University - Santhi Bhavanam; Ricardo Ramirez (he/him/his)
9:00 AM - 5:00 PM Pacific: Convergent evolution of specialized bee traits for pollen collection from nototribic flowers. Presenting Author: Annie Catlett- University of Kansas. Victor Hugo Gonzalez (he/him/his)- University of Kansas. Terry Griswold- USDA ARS Pollinating Insects Research Unit - Annie Catlett; Victor Hugo Gonzalez (he/him/his); Terry Griswold
9:00 AM - 5:00 PM Pacific: Developing a protocol to study ant-caterpillar interactions in a rare lycaenid. Presenting Author: Elizabeth Glasspool- Providence College. Riley Quirk- Providence College. Rachael Bonoan- Providence College - Elizabeth Glasspool; Riley Quirk; Rachael Bonoan
9:00 AM - 5:00 PM Pacific: Development of a semiochemical tool for protecting spruce trees from the spruce beetle, Dendroctonus rufipennis (Coleoptera: Curculionidae). Presenting Author: Jackson Audley (he/him/his)- University of California. Christopher J. Fettig- USDA-Forest Service. Jason Moan- Alaska Division of Forestry and Fire Protection. Jessie Moan- USDA Forest Service - FHP. Steve Swenson- USDA Forest Service - FHP. Leif A. Mortenson- USDA Forest Service. Agenor Mafra-Neto- ISCA, Inc - Jackson Audley (he/him/his); Christopher J. Fettig; Jason Moan; Jessie Moan; Steve Swenson; Leif A. Mortenson; Agenor Mafra-Neto
9:00 AM - 5:00 PM Pacific: Direct and indirect non-consumptive predator effects in a tri-trophic system. Presenting Author: Moshe Zaguri, PhD- Agricultural Research Organization. Jennifer Thaler- Cornell University - Moshe Zaguri, PhD; Jennifer Thaler
9:00 AM - 5:00 PM Pacific: Does insect's salivary enzyme activate the defense response in wiild tomato species?. Presenting Author: Christianah Sade Komolafe- Pennsylvania State University. Michelle Peiffer- Penn state university. Gary Felton- Pennsylvania State University - Christianah Sade Komolafe; Michelle Peiffer; Gary Felton
9:00 AM - 5:00 PM Pacific: Eating leftovers: Understanding Tribolium castaneum interactions with previously-infested flour. Presenting Author: Matthew Hetherington- Kansas State University. Ken Friesen- USDA-ARS, CGAHR. Caitlynn Langton- Kansas State University. William Morrison- USDA-ARS. Alison Gerken- USDA-ARS - Matthew Hetherington; Ken Friesen; Caitlynn Langton; William Morrison; Alison Gerken
9:00 AM - 5:00 PM Pacific: Effects of microclimatic variation on sagebrush-arthropod interactions. Presenting Author: Joseph Coolidge (he/they)- University of Nevada. Victoria Luizzi (they/them/theirs)- University of Nevada. Elizabeth G. Pringle, PhD (she/her/hers)- University of Nevada, Reno - Joseph Coolidge (he/they); Victoria Luizzi (they/them/theirs); Elizabeth G. Pringle, PhD (she/her/hers)
9:00 AM - 5:00 PM Pacific: Effects of supplemental UV-C radiation on western flower thrips behavior and reproduction. Presenting Author: Somaiyeh Ghasemzadeh (she/her/hers)- University of Vermont. Bruce L. Parker- University of Vermont. Margaret Skinner- University of Vermont. Cheryl Sullivan- University of Vermont - Somaiyeh Ghasemzadeh (she/her/hers); Bruce L. Parker; Margaret Skinner; Cheryl Sullivan
9:00 AM - 5:00 PM Pacific: Exploring resistance traits in perennial sorghum against sugarcane aphid. Presenting Author: Esha Kaler (she/her/hers)- University of Nebraska-Lincoln. Lise Pingault- University of Nebraska-Lincoln. Pheonah Nabukalu- The Land Institute. Ebony Murrell- The Land Institute. Stan Cox- The Land Institute. Joe Louis- University of Nebraska-Lincoln - Esha Kaler (she/her/hers); Lise Pingault; Pheonah Nabukalu; Ebony Murrell; Stan Cox; Joe Louis
9:00 AM - 5:00 PM Pacific: Frass forward: Sorghum's defense modulation by fall armyworm excreta. Presenting Author: Sanket Shinde- University of Nebraska-Lincoln. Edith Ikuze- University of Nebraska-Lincoln. Esha Kaler (she/her/hers)- University of Nebraska-Lincoln. Kashish Verma (she/her/hers)- University of Nebraska-Lincoln. Joe Louis- University of Nebraska-Lincoln - Sanket Shinde; Edith Ikuze; Esha Kaler (she/her/hers); Kashish Verma (she/her/hers); Joe Louis
9:00 AM - 5:00 PM Pacific: From offseason to planting: Tracking slugs and snails populations in soybean and corn in Kentucky. Presenting Author: Felipe Colares Batista- University of Kentucky. Zenaida Viloria- University of Kentucky. Raul T. Villanueva- University of Kentucky - Felipe Colares Batista; Zenaida Viloria; Raul T. Villanueva
9:00 AM - 5:00 PM Pacific: Phenology, life history, and behavior of a non-native ant-mimicking spider ,Myrmarachne formicaria, in western New York. Presenting Author: Jennifer Lynn Apple- State University of New York - Jennifer Lynn Apple
9:00 AM - 5:00 PM Pacific: Spotted lanternfly dispersal and reproductive stage: Using stable isotope mark and recapture and flight mill studies to study adult movement. Presenting Author: Claire E. Rutledge- The Connecticut Agricultural Experiment Station. Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station. Caleb B. Bryan- Connecticut Agricultural Experiment Station - Claire E. Rutledge; Kelsey Elizabeth Fisher; Caleb B. Bryan
9:00 AM - 5:00 PM Pacific: Steinernema australe displays chemotaxis towards volatiles identified from blueberry roots. Presenting Author: Almendra J. Monje- Instituto de Investigaciones Agropecuarias. Ruben Palma- INIA

Chile. Ricardo Ceballos- INIA Chile. Patricia D. Navarro (she/her/hers)- Instituto de Investigaciones Agropecuarias - Almendra J. Monje; Ruben Palma; Ricardo Ceballos; Patricia D. Navarro (she/her/hers)
9:00 AM - 5:00 PM Pacific: The use of Annotatevid.io to make both lecture content and behavioral entomology more discoverable. Presenting Author: Mark Fisher- Kansas University - Mark Fisher
9:00 AM - 5:00 PM Pacific: Vibration detection and discrimination of three stored product pests in grain. Presenting Author: Mia E. Phillips- USDA-ARS. William Morrison- USDA-ARS. Alison Gerken- USDA-ARS - Mia E. Phillips; William Morrison; Alison Gerken
9:00 AM - 5:00 PM Pacific: Weevil watch: Seasonal phenology of annual bluegrass weevil (Listronotus maculicollis) as a key pest of golf courses in Virginia. Presenting Author: Jason Bielski- Virginia Polytechnic Institute and State University. Katlyn Catron (she/her/hers)- Virginia Tech. Kaylee Armstrong- Virginia Tech. Julie Brindley- Virginia Polytechnic Institute and State University. Thomas Kuhar- Virginia Polytechnic Institute and State University. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University - Jason Bielski; Katlyn Catron (she/her/hers); Kaylee Armstrong; Julie Brindley; Thomas Kuhar; Alejandro Del-Pozo

Title: Poster: P-IE, Biodiversity and Invasive Species

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: Assessing the contribution of golf course out-of-play areas to pollinator recruitment by remote sensing. Presenting Author: Alejandro Del-Pozo- Virginia Polytechnic Institute and State University. Julie Brindley- Virginia Polytechnic Institute and State University. Benjamin Aigner- Virginia Tech. Thomas Kuhar- Virginia Polytechnic Institute and State University - Alejandro Del-Pozo; Julie Brindley; Benjamin Aigner; Thomas Kuhar
9:00 AM - 5:00 PM Pacific: Development of a qPCR protocol for the rapid identification of three agriculturally significant click beetle species. Presenting Author: Sydney Bird- United States Department of Agriculture. Jacqueline Serrano (she/her/hers)- USDA-ARS. Jea Kwak- WSU - Sydney Bird; Jacqueline Serrano (she/her/hers); Jea Kwak
9:00 AM - 5:00 PM Pacific: Features of the urban system affect insect richness and abundance on street trees across the urban landscape. Presenting Author: Kelsey Miles- University of Connecticut - Kelsey Miles
9:00 AM - 5:00 PM Pacific: Insect and spider availability and use in diet of saltmarsh breeding birds and what invasive Phragmiteshas to do with it. Presenting Author: Carlin N. Eswarakumar- The Connecticut Agricultural Experiment Station. Chris Elphick, PhD- University of Connecticut. Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station - Carlin N. Eswarakumar; Chris Elphick, PhD; Kelsey Elizabeth Fisher
9:00 AM - 5:00 PM Pacific: Investigating impacts of water stress on plant-associated arthropod diversity. Presenting Author: Victoria Luizzi (they/them/theirs)- University of Nevada. Joseph Coolidge (he/they)- University of Nevada. Elizabeth G. Pringle, PhD (she/her/hers)- University of Nevada, Reno - Victoria Luizzi (they/them/theirs); Joseph Coolidge (he/they); Elizabeth G. Pringle, PhD (she/her/hers)
9:00 AM - 5:00 PM Pacific: Navel orangeworm, Amyelois transitella(Walker), host plant determination using near-infrared spectroscopy. Presenting Author: Ronald P. Haff- USDA-ARS. Peishih Liang (she/her/hers)- USDA-ARS. Charles S. Burks (he/him/his)- USDA-ARS. Yixiang Xu- USDA - ARS. Evelyne Hougardy- USDA-ARS. Mikhail Shilman- U.S. Department of Agriculture. Brian Hogg- USDA-ARS - Ronald P. Haff; Peishih Liang (she/her/hers); Charles S. Burks (he/him/his); Yixiang Xu; Evelyne Hougardy; Mikhail Shilman; Brian Hogg
9:00 AM - 5:00 PM Pacific: San Clemente Island Terrestrial Invertebrate Survey: Guiding biodiversity inventory, rare plan conservation, and habitat restoration. Presenting Author: Jose M. Flores (he/him/his)- Santa Barbara Botanic Garden. Zachary Phillips- Santa Barbara Botanic Garden. Casey Richart- Oregon State University. Kylie Etter, n/a- Santa Barbara Botanic Garden. Sarah Cusser, PhD- Santa Barbara Botanic Garden. Denise Knapp- Santa Barbara Botanic Garden - Jose M. Flores (he/him/his); Zachary Phillips; Casey Richart; Kylie Etter, n/a; Sarah Cusser, PhD; Denise Knapp
9:00 AM - 5:00 PM Pacific: The ants go marshing: Argentine ant foraging behavior in southern California salt marshes. Presenting Author: Rebecca Janet Stiling- University of California. David Holway- University of California - Rebecca Janet Stiling; David Holway
9:00 AM - 5:00 PM Pacific: The first comprehensive diagnostic tools for pine sawflies (Hymenoptera: Diprionidae: Diprion). Presenting Author: Zachary Griebenow (he/him/his)- Colorado State University. Michael Gates (he/him/his)- USDA, ARS, SEL. Kenan Matterson- USDA-ARS SEL - Zachary Griebenow (he/him/his); Michael Gates (he/him/his); Kenan Matterson

Title: Poster: P-IE, Ecology and Conservation

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: Arthropod assemblage and succession inPinus edulis(pinon pine). Presenting Author: Adalberto Luis Ubinas- University of New Mexico - Adalberto Luis Ubinas
9:00 AM - 5:00 PM Pacific: Assessing a population of the rare Appalachian tiger beetle (Cicindela ancocisconensis) using a mark-recapture study. Presenting Author: Jakob Tiler Goldner- West Virginia Divison of Natural Resources - Jakob Tiler Goldner
9:00 AM - 5:00 PM Pacific: Bark beetle responses to tree thinning and fuel reduction treatments at Lookout Mountain, Oregon. Presenting Author: Christopher J. Fettig- USDA-Forest Service. Jackson Audley (he/him/his)- University of California. Leif A. Mortenson- USDA Forest Service. Robbie Flowers- USDA Forest Service - Christopher J. Fettig; Jackson Audley (he/him/his); Leif A. Mortenson; Robbie Flowers
9:00 AM - 5:00 PM Pacific: Effects of resource quality and landscape complexity on body size plasticity. Presenting Author: Annika Salzberg- Cornell University. Alexander Chauta- Cornell University. Katja Poveda- Cornell University - Annika Salzberg; Alexander Chauta; Katja Poveda
9:00 AM - 5:00 PM Pacific: Egg and larval survival of an endangered butterfly, Euchloe ausonides insulanus (island marble) on a novel host plant (Turritis glabra, tower mustard). Presenting Author: Julie Combs- Washington Department of Fish and Wildlife. Kurt Licence- Washington Department of Fish and Wildlife. Samantha Martin- Ecostudies Institute. Staci Amburgey- Washington Department of Fish and Wildlife. Emma Gashi- Washington Department of Fish and Wildlife. Amy Lambert- University of Washington - Julie Combs; Kurt Licence; Samantha Martin; Staci Amburgey; Emma Gashi; Amy Lambert
9:00 AM - 5:00 PM Pacific: Estimating movement rates to develop landscape restoration strategies for Taylor's checkerspot butterfly. Presenting Author: Erica Henry- Washington Department of Fish and Wildlife - Erica Henry
9:00 AM - 5:00 PM Pacific: Ground truthing the Melittoflora tool in restored Oregon grassland prairies. Presenting Author: Anna Lyke- Oregon State University. Alexander Maxwell Butcher- Oregon State University. Andony Melathopoulos- Oregon State University - Anna Lyke; Alexander Maxwell Butcher; Andony Melathopoulos
9:00 AM - 5:00 PM Pacific: Highlights of research published in Environmental Entomology and recipients of 2024 Reviewers' Choice and People's Choice Awards. Presenting Author: Therese M. Poland (she/her/hers)- USDA-Forest Service. Melody A. Keena (she/her/hers)- USDA-Forest Service - Therese M. Poland (she/her/hers); Melody A. Keena (she/her/hers)
9:00 AM - 5:00 PM Pacific: How do biotic and abiotic interactions shape wild bumble bee diet breadths?. Presenting Author: Ceci Rigby- Northwestern University - Ceci Rigby
9:00 AM - 5:00 PM Pacific: How does border and interior of vegetable crops shape community composition in agricultural systems?. Presenting Author: Jorge Franco Maringoli Cardoso- Utah State University. Fabiane Mundim- Utah State University. Claudia Nischwitz- Utah State University - Jorge Franco Maringoli Cardoso; Fabiane Mundim; Claudia Nischwitz
9:00 AM - 5:00 PM Pacific: Integrating morphomolecular diagnostics and phenology studies for managing mealybugs as an emerging pest in potted boxwoods. Presenting Author: Lelia Milner- Virginia Polytechnic Institute and State University. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University. Muhammad Ahmed- Clemson University - Lelia Milner; Alejandro Del-Pozo; Muhammad Ahmed
9:00 AM - 5:00 PM Pacific: Investigating harvester ant seed foraging for improving rangeland restoration. Presenting Author: Joanie King- New Mexico State University. Erik Lehnhoff- New Mexico State University. Derek Uhey- Northern Arizona University - Joanie King; Erik Lehnhoff; Derek Uhey
9:00 AM - 5:00 PM Pacific: Investigating the role of arbuscular mycorrhizal fungi (AMF) in squash plant tolerance to water stress and resistance to aphid herbivory. Presenting Author: David Hernandez- Texas A&M University. Dimitra Papantoniou, PhD- Texas A&M University. Anjel M. Helms- Texas A&M University - David Hernandez; Dimitra Papantoniou, PhD; Anjel M. Helms
9:00 AM - 5:00 PM Pacific: Known vs. novel hosts: Endangered Taylor's checkerspot butterfly (Euphydryas editha taylori) oviposition choice test. Presenting Author: Kelley N. Asselin- Oregon State University - Kelley N. Asselin
9:00 AM - 5:00 PM Pacific: Northern Great Plains grasslands appear resilient to sustained high densities of grasshoppers. Presenting Author: David H. Branson- USDA-ARS - David H. Branson

Title: Poster: P-IE, Field Crops IPM

Time: **9:00 AM - 5:00** PM Pacific

Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: A comparison of preventative Neoseiulus californicus releases against a grower standard predatory mite program in strawberries in Central Coast winter 2025. Presenting Author: Taylor Hibino- California Polytechnic State University. Mohammed Aghaee- Cal Poly Strawberry Center - Taylor Hibino; Mohammed Aghaee
9:00 AM - 5:00 PM Pacific: A multi-year survey on Nebraska growers' attitudes toward emerging soybean pests and management strategies. Presenting Author: Doug Alan Golick- University of Nebraska-Lincoln. Anthony Justin McMechan- University of Nebraska-Lincoln. Samuel Babcock- University of Nebraska-Lincoln - Doug Alan Golick; Anthony Justin McMechan; Samuel Babcock
9:00 AM - 5:00 PM Pacific: Adding organic matter does not increase seedcorn maggot (Delia platyura Meigen) damage to crop seeds. Presenting Author: Lilly V. Elliott-Vidaurri- Cornell University. Swayamjit Ray (he/him/his)- University of Arkansas at Little Rock. Jennifer Thaler- Cornell University. Katja Poveda- Cornell University - Lilly V. Elliott-Vidaurri; Swayamjit Ray (he/him/his); Jennifer Thaler; Katja Poveda
9:00 AM - 5:00 PM Pacific: Adoption and perceptions of decision support systems for insect pest management among Washington potato growers. Presenting Author: Jessica Goldberger, Ph.D.- Washington State University. Edem Avemegah, Ph.D.- Washington State University - Jessica Goldberger, Ph.D.; Edem Avemegah, Ph.D.
9:00 AM - 5:00 PM Pacific: Alfalfa weevil efficacy evaluations in South Dakota. Presenting Author: Philip Rozeboom- South Dakota State University. Bradley L. McManus- South Dakota State University. Adam Varenhorst- South Dakota State University. Patrick Wagner- South Dakota State University - Philip Rozeboom; Bradley L. McManus; Adam Varenhorst; Patrick Wagner
9:00 AM - 5:00 PM Pacific: Arizona Pest Management Center: Advancing integrated pest management (IPM) for agriculture and communities. Presenting Author: Macey Keith- University of Arizona. Peter Ellsworth- University of Arizona. Alfred Fournier- University of Arizona - Macey Keith; Peter Ellsworth; Alfred Fournier
9:00 AM - 5:00 PM Pacific: Assessing stink bug action thresholds in Oklahoma soybean and cotton production. Presenting Author: Gourav Beniwal- Oklahoma State University. Nikolai Thielepape- Department of Entomology and Plant Pathology, Oklahoma State University. Ryan Dehart- Department of Entomology and Plant Pathology, Oklahoma State University. Maxwell Smith- Department of Entomology and Plant Pathology, Oklahoma State University. Maira Rodrigues Duffeck- Department of Entomology and Plant Pathology, Oklahoma State University. Josh Lofton- Department of Plant and Soil Sciences, Oklahoma State University. Jenny Dudak- Department of Plant and Soil Sciences, Oklahoma State University. Isaac Esquivel- University of Florida. Ashleigh Faris- Oklahoma State University - Gourav Beniwal; Nikolai Thielepape; Ryan Dehart; Maxwell Smith; Maira Rodrigues Duffeck; Josh Lofton; Jenny Dudak; Isaac Esquivel; Ashleigh Faris
9:00 AM - 5:00 PM Pacific: Comparing the ability of small-scale and large-scale habitat restorations for structuring natural enemy communities and achieving pest control in citrus and avocado. Presenting Author: Hamutahl Cohen- University of California. Carson Loudermelt- California State Polytechnic University, Pomona. Adam Lambert- University of California, Santa Barbara. Elizabeth Scordato- California State Polytechnic University, Pomona - Hamutahl Cohen; Carson Loudermelt; Adam Lambert; Elizabeth Scordato
9:00 AM - 5:00 PM Pacific: Corn rootworm field survey in eastern South Dakota. Presenting Author: Bradley L. McManus- South Dakota State University. Philip Rozeboom- South Dakota State University. Adam Varenhorst- South Dakota State University - Bradley L. McManus; Philip Rozeboom; Adam Varenhorst
9:00 AM - 5:00 PM Pacific: Development of economic injury levels and thresholds forHypera nigrirostrisin red clover (Trifolium pratense) seed systems. Presenting Author: Jeremy Irvine (he/him/his)- University of Saskatchewan. Sean Prager- University of Saskatchewan - Jeremy Irvine (he/him/his); Sean Prager
9:00 AM - 5:00 PM Pacific: Do cover crops and reduced tillage suppress aphids and potato virus Y in potato?. Presenting Author: Geoffrey Anyanda Nyapom- University of Idaho. Armando Falcon-Brindis (he/him/his)- University of Idaho. Alexander Karasev- University of Idaho. Andreas Vargas- University of Idaho. Erik Wenninger (he/him/his)- University of Idaho - Geoffrey Anyanda Nyapom; Armando Falcon-Brindis (he/him/his); Alexander Karasev; Andreas Vargas; Erik Wenninger (he/him/his)
9:00 AM - 5:00 PM Pacific: Effects of unsprayed borders on tarnished plant bug infestations in Louisiana cotton. Presenting Author: Oneal Edward- Louisiana State University - Oneal Edward
9:00 AM - 5:00 PM Pacific: Efficacy of in-furrow and foliar applied insecticides on the corn leafhopper in Oklahoma commercial corn. Presenting Author: Ashleigh Faris- Oklahoma State University. Gourav Beniwal- Oklahoma State University. Nikolai Thielepape- Department of Entomology and Plant Pathology, Oklahoma State University - Ashleigh Faris; Gourav Beniwal; Nikolai Thielepape

9:00 AM - 5:00 PM Pacific: Enhancing ultraviolet radiation resilience in entomopathogenic nematodes: A systematic review of strain selection, tolerance assessment, and protective formulations. Presenting Author: Faythe Elise Robinson- Fort Valley State University. Sanower Warsi- Fort Valley State University. George Mbata- Fort Valley State University - Faythe Elise Robinson; Sanower Warsi; George Mbata
9:00 AM - 5:00 PM Pacific: Evaluation of snap bean cultivars for Bemisia tabaci (MEAM1) susceptibility and yield performance. Presenting Author: Anurag Singh- Fort Valley State University. Sanower Warsi- Fort Valley State University. Alvin Simmons- USDA ARS US Vegetable Laboratory. George Mbata- Fort Valley State University - Anurag Singh; Sanower Warsi; Alvin Simmons; George Mbata
9:00 AM - 5:00 PM Pacific: Evaluation of UV-C light for control of tetranychid mites and western tarnished plant bug in California strawberries. Presenting Author: Colin koubek- California Polytechnic State University. Mohammed Aghaee- Cal Poly Strawberry Center - Colin koubek; Mohammed Aghaee
9:00 AM - 5:00 PM Pacific: Feeding preferences of economically significant grasshoppers (Orthoptera: Acrididae) in Montana. Presenting Author: Christopher George Caron- Montana State University. Hayes Goosey, Ph.D.- Montana State University - Christopher George Caron; Hayes Goosey, Ph.D.
9:00 AM - 5:00 PM Pacific: Genetics of apetalous sunflowers and implications on IPM strategies. Presenting Author: Jarrad Prasifka- USDA-ARS. Zachary Tarble- USDA-ARS. Brent Hulke- USDA-ARS-NCSL. Grace E. Hirzel (she/her/hers)- North Dakota State University - Jarrad Prasifka; Zachary Tarble; Brent Hulke; Grace E. Hirzel (she/her/hers)
9:00 AM - 5:00 PM Pacific: Influence of pistachio hull degradation on navel orangeworm egg deposition. Presenting Author: Lidya Alemayhu Chala (she/her/hers)- University of California. Sarah Meierotto- University of California. Reva Scheibner- University of California. Nathalie J. Baena Bejarano, Ph.D.- University of California. Charles S. Burks (he/him/his)- USDA-ARS. Selina Wang- University of California. Barbara Blano-Ulate- University of California, Davis. Houston Wilson (he/him/his)- University of California - Lidya Alemayhu Chala (she/her/hers); Sarah Meierotto; Reva Scheibner; Nathalie J. Baena Bejarano, Ph.D.; Charles S. Burks (he/him/his); Selina Wang; Barbara Blano-Ulate; Houston Wilson (he/him/his)
9:00 AM - 5:00 PM Pacific: Investigation of grasshopper collection methods to improve pest management in Montana cropping systems. Presenting Author: Bryan Scott Fisher- Montana State University. Tiziana Oppedisano (she/her/hers)- Montana State University. Hayes Goosey, Ph.D.- Montana State University. Christopher George Caron- Montana State University - Bryan Scott Fisher; Tiziana Oppedisano (she/her/hers); Hayes Goosey, Ph.D.; Christopher George Caron
9:00 AM - 5:00 PM Pacific: Molecular and spatial insights into fire ant foraging: Unraveling predatory roles in cotton agroecosystems. Presenting Author: Malcolm Peavy- University of Georgia - Malcolm Peavy
9:00 AM - 5:00 PM Pacific: Monogenic reproduction of the soybean gall midge (Resseliella maxima Gagne). Presenting Author: James P. Menger (he/him/his)- University of Minnesota. Isak Stillwell Jardine- University of Minnesota. Arthur Vieira Ribeiro- University of Minnesota. Robert L. Koch (he/him/his)- University of Minnesota - James P. Menger (he/him/his); Isak Stillwell Jardine; Arthur Vieira Ribeiro; Robert L. Koch (he/him/his)
9:00 AM - 5:00 PM Pacific: Multiyear insecticide efficacy for redbanded stink bug control in Louisiana soybean. Presenting Author: Daniel Barbosa- Louisiana State University. O'neal Edwards- LSU AgCenter. James Villegas- LSU AgCenter - Daniel Barbosa; O'neal Edwards; James Villegas
9:00 AM - 5:00 PM Pacific: Optimizing agronomic decision making for insect pest management in cotton. Presenting Author: Tim Bryant- Virginia Polytechnic Institute and State University. Sarah Mertson- Virginia Tech - Tim Bryant; Sarah Mertson
9:00 AM - 5:00 PM Pacific: Ovary development and egg load of soybean gall midge, Resseliella maxima(Diptera: Cecidomyiidae). Presenting Author: Regina S. Stacke- University of Minnesota. Robert L. Koch (he/him/his)- University of Minnesota. Amelia R. I. Lindsey- University of Minnesota - Regina S. Stacke; Robert L. Koch (he/him/his); Amelia R. I. Lindsey
9:00 AM - 5:00 PM Pacific: Parasitism of the armyworm in California rice fields. Presenting Author: Luis Espino- University of California. Vanessa Varela- University of California Cooperative Extension - Luis Espino; Vanessa Varela
9:00 AM - 5:00 PM Pacific: Pests and beneficial arthropods in California hemp crops. Presenting Author: Hannah Stowe- University of California. Houston Wilson (he/him/his)- University of California - Hannah Stowe; Houston Wilson (he/him/his)
9:00 AM - 5:00 PM Pacific: Predicting the seasonal phenologies of major noctuid pests in Oregon agroecosystems. Presenting Author: Casey Cruse- USDA-ARS. Seth Dorman- USDA-ARS. Nik Wiman- Oregon State University. Navneet Kaur (she/her/hers)- Oregon State University. Darrin Walenta- Oregon State University Extension Service. Jessica Green- Oregon State University - Casey Cruse; Seth Dorman; Nik Wiman; Navneet Kaur (she/her/hers); Darrin Walenta; Jessica Green
9:00 AM - 5:00 PM Pacific: Survival of western bean cutworm, Striacosta albicosta (Smith), subjected to simulated overwintering temperature scenarios. Presenting Author: Priscila Maria Colombo Da Luz- University of

Nebraska-Lincoln. Alisson Santana- University of Nebraska-Lincoln. Ana Paula Lima (she/her/hers)- University of Nebraska-Lincoln. Bhawana Regmi (she/her/hers)- University of California. Emile Santana- University of Nebraska-Lincoln. Julie Peterson- University of Nebraska-Lincoln - Priscila Maria Colombo Da Luz; Alisson Santana; Ana Paula Lima (she/her/hers); Bhawana Regmi (she/her/hers); Emile Santana; Julie Peterson
9:00 AM - 5:00 PM Pacific: Susceptibility of peanut cultivars to peanut burrower bug feeding injury in Georgia. Presenting Author: Kemper Sutton- Virginia Polytechnic Institute and State University. Mark Abney- University of Georgia. Conor Fair- University of Georgia - Kemper Sutton; Mark Abney; Conor Fair
9:00 AM - 5:00 PM Pacific: Uncovering the climatic and environmental factors that affect abundance and management of Plutella xylostella in Ventura County. Presenting Author: Maripaula Valdes-Berriz (she/her/hers)- University of California. Oleg Daugovish- UC Agriculture and Natural Resources. Hamutahl Cohen- University of California - Maripaula Valdes-Berriz (she/her/hers); Oleg Daugovish; Hamutahl Cohen

Title: Poster: P-IE, General IPM and Biocontrol

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: Aphid biological control in community gardens. Presenting Author: Angela Robles- UC Merced. Jovany Barajas, Sr.- University of California. Phillip Callahan- University of California. Andrea Joyce- University of California. Leticia Classen-Rodriguez- Saint Louis University - Angela Robles; Jovany Barajas, Sr.; Phillip Callahan; Andrea Joyce; Leticia Classen-Rodriguez
9:00 AM - 5:00 PM Pacific: Assessing the needs of integrated pest management programs in California Central Coast agriculture. Presenting Author: Dylan Joseph Beal- University of California - Dylan Joseph Beal
9:00 AM - 5:00 PM Pacific: Biological control potential and transmission dynamics of Hirsutella citriformisin Diaphorina citri. Presenting Author: Seth Tsatsu- University of Florida. Jawwad Qureshi- University of Florida - Seth Tsatsu; Jawwad Qureshi
9:00 AM - 5:00 PM Pacific: Digitization of insect bioassays: Advancing agricultural research through automated data collection and analysis. Presenting Author: Jessica Ditillo- Syngenta. Evelien Van Ekert- Syngenta. Kevin Lehner- Syngenta - Jessica Ditillo; Evelien Van Ekert; Kevin Lehner
9:00 AM - 5:00 PM Pacific: Do introduced emerald ash borer parasitoids impact North AmericanAgrilusspecies?. Presenting Author: Toby R. Petrice- USDA-Forest Service. Therese M. Poland (she/her/hers)- USDA-Forest Service. Juli Gould- Retired. Christine Dodge- USDA-APHIS-PPQ-S&T. Marianna Szucs- Michigan State University - Toby R. Petrice; Therese M. Poland (she/her/hers); Juli Gould; Christine Dodge; Marianna Szucs
9:00 AM - 5:00 PM Pacific: Dual stress defense? Evaluating Trichoderma virens for cotton drought and insect resistance. Presenting Author: Janaina Cunha- Texas A&M University. Jaime Garcia- Texas A&M University. Greg Sword- Texas A&M University - Janaina Cunha; Jaime Garcia; Greg Sword
9:00 AM - 5:00 PM Pacific: Ecological Interactions between pests and natural enemies in field and container-grown crapemyrtle cultivars. Presenting Author: Kripa Dhakal- Tennessee State University. Karla M. Addesso- Tennessee State University - Kripa Dhakal; Karla M. Addesso
9:00 AM - 5:00 PM Pacific: Effect of cover crops on arthropod pests and beneficials in hops. Presenting Author: Armando Falcon-Brindis (he/him/his)- University of Idaho - Armando Falcon-Brindis (he/him/his)
9:00 AM - 5:00 PM Pacific: Effects of reduced-risk and organophosphate-replacement insecticides onOrius insidiosus(Hemiptera: Anthocoridae). Presenting Author: Kaushalya Amarasekare- Tennessee State University. Uzoamaka Abana- Tennessee state university - Kaushalya Amarasekare; Uzoamaka Abana
9:00 AM - 5:00 PM Pacific: Estimating dispersal distances of Parafreutreta regalis, a biological control agent for Cape ivy. Presenting Author: Madeline Anne Holroyd- University of California - Madeline Anne Holroyd
9:00 AM - 5:00 PM Pacific: Evaluating the oviposition behavior of corn earworm on hemp. Presenting Author: Asim Ahmed- University of Maryland. Tigist Tolosa- UMES. Simon Zebelo- University of Maryland. Brandon Jackson- FMC. Shellyann Henry- UMES - Asim Ahmed; Tigist Tolosa; Simon Zebelo; Brandon Jackson; Shellyann Henry
9:00 AM - 5:00 PM Pacific: Insecticide resistance suppression in fall army worm using entomopathogenic nematodes. Presenting Author: Keith Koonter- Michigan State University. David Mota-Sanchez- Michigan State University. Shatrughan Shiva (he/him/his)- Michigan State University - Keith Koonter; David Mota-Sanchez; Shatrughan Shiva (he/him/his)

9:00 AM - 5:00 PM Pacific: Integrating maxent modeling and drone-assisted biocontrol for invasive weeds. Presenting Author: Yong-Lak Park- West Virginia University. Kushal Naharki (he/him/his)- West Virginia University - Yong-Lak Park; Kushal Naharki (he/him/his)
9:00 AM - 5:00 PM Pacific: Interseeded cover crop impacts on carabid beetles. Presenting Author: Randa Jabbour (she/her/hers)- University of Wyoming. Morgan Morris- University of Wyoming. Sara Carabajal- University of Wyoming. Scott Shaw- Univ Of Wyoming - Randa Jabbour (she/her/hers); Morgan Morris; Sara Carabajal; Scott Shaw
9:00 AM - 5:00 PM Pacific: Is Cephalonomia stephanoderis abundance and distribution driven by its prey abundance in Puerto Rico?. Presenting Author: Jesus Enrique Gomez, PhD- University of Puerto Rico - Jesus Enrique Gomez, PhD
9:00 AM - 5:00 PM Pacific: Networking: Tritrophic interactions in a generalist caterpillar-parasitoid system. Presenting Author: Julia Meyer- George Washington University. Robert Kula- Systematic Entomology Laboratory, USDA-ARS. Michael Gates (he/him/his)- USDA, ARS, SEL. David Smith- Smithsonian National Museum of Natural History. James O'Hara- University of Guelph. Shannon M. Murphy (she/her/hers)- University of Denver. Teresa de la Puente- George Washington University. Rodrigo Dios- Smithsonian National Museum of Natural History. John Lill- George Washington University - Julia Meyer; Robert Kula; Michael Gates (he/him/his); David Smith; James O'Hara; Shannon M. Murphy (she/her/hers); Teresa de la Puente; Rodrigo Dios; John Lill
9:00 AM - 5:00 PM Pacific: Performance of organic and conventional insecticides for management of Rhopalosiphum rufiabdominale in hemp. Presenting Author: Raul T. Villanueva- University of Kentucky. Felipe Colares Batista- University of Kentucky. Zenaida Viloria- University of Kentucky - Raul T. Villanueva; Felipe Colares Batista; Zenaida Viloria
9:00 AM - 5:00 PM Pacific: Predation capacity of Coleomegilla maculata De Geer on key pest species: Implications for biological control. Presenting Author: Sergio Olvera Vzquez- Koppert. Adriana J. Cervantes Flores. Julio Cesar Velazquez Gonzalez- Koppert Mexico - Sergio Olvera Vzquez; Adriana J. Cervantes Flores; Julio Cesar Velazquez Gonzalez
9:00 AM - 5:00 PM Pacific: Prescribed fire and leaf shelters shape microbial and arthropod communities in oak forests and suppress invasive spongy moth. Presenting Author: Adam Noah Scherr (he/him/his)- Pennsylvania State University. Monica Kersch-Becker- Pennsylvania State University - Adam Noah Scherr (he/him/his); Monica Kersch-Becker
9:00 AM - 5:00 PM Pacific: Selected essential oils against Cylas formicarius(Coleoptera: Brentidae) under laboratory conditions. Presenting Author: Maria Jessica dos Santos Cabral, PhD (she/her/hers)- Florida Agricultural and Mechanical University. Muhammad Haseeb (he/him/his)- Florida Agricultural and Mechanical University. Marcus Alvarenga Soares- Universidade Federal dos Vales Jequitinhonha e Mucuri - Maria Jessica dos Santos Cabral, PhD (she/her/hers); Muhammad Haseeb (he/him/his); Marcus Alvarenga Soares
9:00 AM - 5:00 PM Pacific: Surveillance, Outreach, and Solutions (SOS): An integrated strategy for fall armyworm management through public-private partnerships. Presenting Author: Bipana Paudel Timilsena- Pennsylvania State University. Rimnoma Serge Ouedraogo- The Pennsylvania State University. David Hughes- The Pennsylvania State University - Bipana Paudel Timilsena; Rimnoma Serge Ouedraogo; David Hughes
9:00 AM - 5:00 PM Pacific: The impact of pollen and nectar availability on insect communities of cultivated sunflowers. Presenting Author: Grace Lewis (she/her/hers)- North Dakota State University. Deirdre Prischmann-Voldseth- North Dakota State University. Jarrad Prasifka- USDA-ARS - Grace Lewis (she/her/hers); Deirdre Prischmann-Voldseth; Jarrad Prasifka
9:00 AM - 5:00 PM Pacific: Unexpected attraction: Non-target attraction of sap beetles (Nitidulidae) to fruit fermentation lures and the implications for future integrated pest management. Presenting Author: Sarah Turner- Lincoln University of Missouri - Sarah Turner

Title: Poster: P-IE, Horticultural IPM

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: An OpenAI model for mass processing of trap liners as part of an area-wide IPM program. Presenting Author: Charles S. Burks (he/him/his)- USDA-ARS - Charles S. Burks (he/him/his)
9:00 AM - 5:00 PM Pacific: Assessing the susceptibility of field-collected adults of Systena frontalis (Coleoptera: Chrysomelidae) to bifenthrin across eastern Virginia. Presenting Author: Julie Brindley- Virginia Polytechnic

Institute and State University. Marco Molino- Virginia Tech. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University - Julie Brindley; Marco Molino; Alejandro Del-Pozo
9:00 AM - 5:00 PM Pacific: Chemical profiling of sugar-derived volatiles as a behavioral and developmental disruptor of spotted wing drosophila. Presenting Author: Ho Jung Yoon (she/her/hers)- Oregon State University. mitchell Kim-Fu- Oregon State University. xinyu Li- Oregon State University. Efua Noonoo- Oregon State University. Serhan Mermer- Oregon State University. Alexis Shobe- Oregon State University. Vaughn M. Walton- Oregon State University - Ho Jung Yoon (she/her/hers); mitchell Kim-Fu; xinyu Li; Efua Noonoo; Serhan Mermer; Alexis Shobe; Vaughn M. Walton
9:00 AM - 5:00 PM Pacific: Comparisons of drench and surface spray treatments to disinfest balled and burlapped nursery stock of red imported fire ants. Presenting Author: David H. Oi- USDA-ARS. Rachel Atchison- USDA ARS. Jason Oliver- Tennessee State University. Nadeer Youssef- Tennessee State University. Karla M. Addesso- Tennessee State University. Ronald Weeks- USDA, APHIS, PPQ, CPHST - David H. Oi; Rachel Atchison; Jason Oliver; Nadeer Youssef; Karla M. Addesso; Ronald Weeks
9:00 AM - 5:00 PM Pacific: Effects of lure type and trap height on walnut husk fly captures in walnut orchards. Presenting Author: Sudan Gyawaly- University of California - Sudan Gyawaly
9:00 AM - 5:00 PM Pacific: Insect community response to companion plant diversity in pepper cropping systems. Presenting Author: Leah Gastonguay (she/her/hers)- University of Missouri. Deborah Finke- University of Missouri - Leah Gastonguay (she/her/hers); Deborah Finke
9:00 AM - 5:00 PM Pacific: Longevity of insecticide residue in blueberries: Implications for pest management and pollinator safety. Presenting Author: Ashfaq Sial- University of Georgia. Rosan Adhikari- University of Georgia. Cera Jones- University of Georgia - Ashfaq Sial; Rosan Adhikari; Cera Jones
9:00 AM - 5:00 PM Pacific: New lure baited traps for use in cucurbit production systems. Presenting Author: James R. Jasinski- The Ohio State University. Ricardo Bessin- University of Kentucky - James R. Jasinski; Ricardo Bessin
9:00 AM - 5:00 PM Pacific: Red-headed flea beetle: Feeding and reproduction on ornamental hosts. Presenting Author: Michael Reding- United States Department of Agriculture. Christopher M. Ranger (he/him/his)- USDA-ARS - Michael Reding; Christopher M. Ranger (he/him/his)
9:00 AM - 5:00 PM Pacific: Using electron microscope images to reveal the anatomy of adult pear psylla (Cacopsylla pyricola). Presenting Author: Jane Lilith O'Sullivan- Oregon State University. Christopher Adams- Oregon State University - Jane Lilith O'Sullivan; Christopher Adams
9:00 AM - 5:00 PM Pacific: Wandering weevils: Using harmonic radar to describe movement of Diaprepes abbreviatus (Coleoptera: Curculionidae) in and near citrus orchards. Presenting Author: Diana M. Estrada- University of Florida. Bennett Farrar- University of Florida. Tim A. Ebert- University of Florida. Lauren Diepenbrock- University of Florida - Diana M. Estrada; Bennett Farrar; Tim A. Ebert; Lauren Diepenbrock

Title: Poster: P-IE, Pollinator Biology and Ecology

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: A year's worth of meal prep: Providing season long flower resources for bumble bee communities. Presenting Author: Jared Michael Brabant- University of Missouri. Elizabeth Webb- University of Missouri. Deborah Finke- University of Missouri - Jared Michael Brabant; Elizabeth Webb; Deborah Finke
9:00 AM - 5:00 PM Pacific: Competitive interactions between Bombus spp. influence niche-based foraging patterns in the Rocky Mountains. Presenting Author: Makenna Rose Stone- Portland State University. Kaysee Arrowsmith- University of Texas - Makenna Rose Stone; Kaysee Arrowsmith
9:00 AM - 5:00 PM Pacific: Consequences of anthropogenic volatile organic compounds on insect pollination in urban areas. Presenting Author: Tierney Shaible- Wayne State University. Glen Hood- Wayne State University - Tierney Shaible; Glen Hood
9:00 AM - 5:00 PM Pacific: Conservation insights from wild bee phenology, functional group, and plant association assessments. Presenting Author: S. Kristine Braman (she/her/hers)- University of Georgia - S. Kristine Braman (she/her/hers)
9:00 AM - 5:00 PM Pacific: Enhancing pollination knowledge through experiential learning: Bridging 1890 institutions, students, and smallholder farmers. Presenting Author: Tahir Rashid- Alcorn State University. Katherine Parys- USDA-ARS. Daniel Collins, n/a- Alcorn State University - Tahir Rashid; Katherine Parys; Daniel Collins, n/a

9:00 AM - 5:00 PM Pacific: Exploring pollinator dependence in tomato crops across a domestication gradient. Presenting Author: Rebekah H. Whiteman- Pennsylvania State University. Kelly Bennett- Pennsylvania State University. Marie Muniz- Pennsylvania State University. Heather Grab (she/her/hers)- Pennsylvania State University - Rebekah H. Whiteman; Kelly Bennett; Marie Muniz; Heather Grab (she/her/hers)
9:00 AM - 5:00 PM Pacific: Generational insights into urban biodiversity: A call to action for adaptive conservation through innovation. Presenting Author: Ismaila Adeniran Aderolu, PhD (he/him/his)- Yakubu Gowon University (Formerly University of Abuja). Akeem Oyerinde- Yakubu Gowon University (Formerly University of Abuja). Olajide Oladamolami McKelvin Agunloye- Yakubu Gowon University (Formerly University of Abuja) - Ismaila Adeniran Aderolu, PhD (he/him/his); Akeem Oyerinde; Olajide Oladamolami McKelvin Agunloye
9:00 AM - 5:00 PM Pacific: Genetic diversity ofBombus impatiensin its native and invaded ranges in North ***AM***erica. Presenting Author: Chris Looney- Washington State Department of Agriculture. Jenna Melanson- University of British Columbia. Sandra Gillespie- Simon Fraser University. Susan Waters- Quamash EcoResearch. Julie Combs- Washington Department of Fish and Wildlife. Lauren Ponisio- University of Oregon. Claire Kremen- University of British Columbia. Jonathan Koch- USDA-ARS-PWA-PIRU - Chris Looney; Jenna Melanson; Sandra Gillespie; Susan Waters; Julie Combs; Lauren Ponisio; Claire Kremen; Jonathan Koch
9:00 AM - 5:00 PM Pacific: Habitat buzziness: How land cover shapes pollinator availability for blueberries. Presenting Author: Hunter Messick- University of North Texas. Gemma Del Rossi- University of California, Santa Barbara. Kathy Baylis- University of California, Santa Barbara. Erik Lichtenberg- University of Maryland. Elinor Lichtenberg- University of North Texas - Hunter Messick; Gemma Del Rossi; Kathy Baylis; Erik Lichtenberg; Elinor Lichtenberg
9:00 AM - 5:00 PM Pacific: Identifying important native bee species for threatened plant species in wildfire burn scars in the California Sierra Nevada. Presenting Author: Jenny Hazlehurst- California State University. Stephanie Calloway- El Dorado National Forest. Juhanah Hossain- CSU East Bay. Diana Montes- CSU East Bay. Paulina Lara- CSU East Bay - Jenny Hazlehurst; Stephanie Calloway; Juhanah Hossain; Diana Montes; Paulina Lara
9:00 AM - 5:00 PM Pacific: Importance of insect pollination to cranberry: A systematic review. Presenting Author: Olivia Marie Bernauer (she/her/hers)- University of Wisconsin. Hannah Gaines-Day- University of Wisconsin. Sumikshya KC (she/her/hers)- University of Wisconsin-Madison. Celeste Mezera (she/her/hers)- University of Wisconsin-Madison. Rafael Salas- University of Wisconsin-Madison - Olivia Marie Bernauer (she/her/hers); Hannah Gaines-Day; Sumikshya KC (she/her/hers); Celeste Mezera (she/her/hers); Rafael Salas
9:00 AM - 5:00 PM Pacific: Interactions between shade environment and milkweed species impact western monarch late season development, size, and survival. Presenting Author: Michelle Boone (she/her/hers)- Colorado State University. Cheryl B. Schultz- Washington State University - Michelle Boone (she/her/hers); Cheryl B. Schultz
9:00 AM - 5:00 PM Pacific: Interactive effects of temporal food stress and chronic neonicotinoid exposure on bumblebee microcolonies. Presenting Author: Hannah Burke- Colorado State University. Laura Lukens- Colorado State University. John Mola- Colorado State University - Hannah Burke; Laura Lukens; John Mola
9:00 AM - 5:00 PM Pacific: Longitudinal study on the impacts of a pollinator garden installation. Presenting Author: Sarah P. Lawson, PhD- Quinnipiac University - Sarah P. Lawson, PhD
9:00 AM - 5:00 PM Pacific: Maximizing pollination services in urban orchards: A multidisciplinary approach. Presenting Author: Aimee S. Dunlap- University of Missouri. George Todd- University of Missouri, St. Louis. Nicole Miller-Struttmann- Webster University. Kyra Krakos- Maryville University. Nathan Muchhala- University of Missouri, St. Louis. Edward Spevak- St. Louis Zoo - Aimee S. Dunlap; George Todd; Nicole Miller-Struttmann; Kyra Krakos; Nathan Muchhala; Edward Spevak
9:00 AM - 5:00 PM Pacific: More than just bees: Expanding the scope of plant-pollinator interaction surveys to include apoid wasps (Hymenoptera: Apoidea). Presenting Author: King Chak Lee- Washington Native Bee Society - King Chak Lee
9:00 AM - 5:00 PM Pacific: Non-native Bombus impatiens broadens dietary niches of native Bombus spp. in the Pacific Northwest. Presenting Author: Susan Waters- Quamash EcoResearch. Lauren Ponisio- University of Oregon. Jenna Melanson- University of British Columbia - Susan Waters; Lauren Ponisio; Jenna Melanson
9:00 AM - 5:00 PM Pacific: Performance of seed mixes in the pollinator habitat restoration of electrical transmission rights-of-ways. Presenting Author: Elsa Klotz- State University of New York. Paige Chesshire (she/her/hers)- State University of New York - ESF. Donald Leopold- SUNY ESF. Michael Schummer (he/him/his)- SUNY ESF - Elsa Klotz; Paige Chesshire (she/her/hers); Donald Leopold; Michael Schummer (he/him/his)
9:00 AM - 5:00 PM Pacific: The effects of urbanization intensity on bumblebee-plant network structure and floral resource topological roles. Presenting Author: KC Carter- Illinois Natural History Survey - KC Carter
9:00 AM - 5:00 PM Pacific: The influence of land cover on wild bee communities in pollinator meadows in southern New England. Presenting Author: Emma Tondre- University of Rhode Island. Casey Johnson (she/her/hers)- University of Rhode Island. Tracy Zarrillo (she/her/hers)- The Connecticut Agricultural Experiment

Station. Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station. Steven Alm- University of Rhode Island - Emma Tondre; Casey Johnson (she/her/hers); Tracy Zarrillo (she/her/hers); Kelsey Elizabeth Fisher; Steven Alm
9:00 AM - 5:00 PM Pacific: Transforming a pollinator poor hayfield into a pollinator abundant blueberry farm using wildflower enrichment strips. Presenting Author: Mark A. Schlueter, Ph.D.- Georgia Gwinnett College - Mark A. Schlueter, Ph.D.
9:00 AM - 5:00 PM Pacific: Wild pollinators of avocado and orchard characteristics influencing fruit set. Presenting Author: Abigail Brondos- University of California. Hamutahl Cohen- University of California. Ben Faber- University of California, ANR. Gordon Frankie- University Of California. Arnon Dag- University of California, ANR. Neal M. Williams- University of California - Abigail Brondos; Hamutahl Cohen; Ben Faber; Gordon Frankie; Arnon Dag; Neal M. Williams

Title: Poster: P-IE, Vector Biology and Management

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Plant-Insect Ecosystems
Tracks: Poster Display; Plant-Insect Ecosystems
Presentations:
9:00 AM - 5:00 PM Pacific: Cold survival of Bactericera cockerelli on solanaceous plants: Exploring the impact of "Candidatus Liberibacter solanacearum". Presenting Author: Regina Karin Cruzado- University of Idaho. Erik Wenninger (he/him/his)- University of Idaho. Julia Piaskowski- University of Idaho, College of Agricultural and Life Sciences, Statistical Programs,. Nilsa Bosque-Perez- University of Idaho, Department of Entomology, Plant Pathology and Nematology. Arash Rashed- Virginia Tech - Regina Karin Cruzado; Erik Wenninger (he/him/his); Julia Piaskowski; Nilsa Bosque-Perez; Arash Rashed
9:00 AM - 5:00 PM Pacific: Effects of pathogen-induced plant volatiles on insect vector preference. Presenting Author: Alma Nalleli Carvajal-Acosta, PhD- USDA-ARS. Gina Marie Angelella- USDA-ARS. Jacqueline Serrano (she/her/hers)- USDA-ARS. Gregory Hoptowit, Student- Heritage University - Alma Nalleli Carvajal-Acosta, PhD; Gina Marie Angelella; Jacqueline Serrano (she/her/hers); Gregory Hoptowit, Student
9:00 AM - 5:00 PM Pacific: Exploring the role of volatile organic compounds in vector preference between BCTV-resistant and -susceptible sugar beet genotypes. Presenting Author: Stephannie Seng- Colorado State University. Emily Melissa Russavage (she/her/hers)- USDA-ARS. Punya Nachappa- Colorado State University. Vamsi Nalam- Colorado State University - Stephannie Seng; Emily Melissa Russavage (she/her/hers); Punya Nachappa; Vamsi Nalam
9:00 AM - 5:00 PM Pacific: Functional anatomy of the sharpshooter precibarial valve supports its role in probing behaviors that control inoculation of Xylella fastidiosa. Presenting Author: Elaine A. Backus (she/her/hers)- USDA-ARS. Damien Laudier- Laudier Histology - Elaine A. Backus (she/her/hers); Damien Laudier
9:00 AM - 5:00 PM Pacific: Phenology of Euscelidius variegatus reared under controlled conditions. Presenting Author: Anders Wohler (he/him/his)- Oregon State University. Yan Yan- Oregon State University. Ashley Thompson- Oregon State University. Maggie Freeman- Oregon State University. kelsey galimba- Oregon State University. Vaughn M. Walton- Oregon State University. Christopher Adams- Oregon State University - Anders Wohler (he/him/his); Yan Yan; Ashley Thompson; Maggie Freeman; kelsey galimba; Vaughn M. Walton; Christopher Adams
9:00 AM - 5:00 PM Pacific: Photoperiod influences on feeding behavior in Diaphorina citri(Hemiptera: Psyllidae). Presenting Author: Tim A. Ebert- University of Florida. Lauren Diepenbrock- University of Florida - Tim A. Ebert; Lauren Diepenbrock
9:00 AM - 5:00 PM Pacific: Rapid molecular detection of Harringtonia lauricola using LAMP from beetle vectors. Presenting Author: Carlos Andres Sendoya-Corrales (he/him/his)- University of Florida. Jorge Daz-Valderrama- University of Florida. Monica Navia-Urrutia- University of Florida. Daniela Cardenas Villacres- University of Florida. Liliana Cano- University of Florida. Romina Andres Gazis- University of Florida - Carlos Andres Sendoya-Corrales (he/him/his); Jorge Daz-Valderrama; Monica Navia-Urrutia; Daniela Cardenas Villacres; Liliana Cano; Romina Andres Gazis
9:00 AM - 5:00 PM Pacific: Reevaluation of 'Candidatus Liberibacter asiaticus' transmission by Diaphorina citri. Presenting Author: Yagyaraj Joshi- University of Florida. Nabil Killiny- University of Florida - Yagyaraj Joshi; Nabil Killiny
9:00 AM - 5:00 PM Pacific: RNAi-based genomics tool via microinjection and nanoparticles for beet leafhopper control. Presenting Author: Maria Paula Mejia- Colorado State University. Jinlong Han- Colorado State University.

Vamsi Nalam- Colorado State University. Punya Nachappa- Colorado State University - Maria Paula Mejia; Jinlong Han; Vamsi Nalam; Punya Nachappa
9:00 AM - 5:00 PM Pacific: The role of silicon and chitosan in entomopathogenic fungi pathogenicity against the Asian citrus psyllid, Diaphorina citri Kuwayama (Hemiptera: Liviidae). Presenting Author: Eder M. Carrilho- State University of Londrina. Paulo G. Cremonez (he/him/his)- Auburn University. Mauricio U. Ventura- State University of Londrina - Eder M. Carrilho; Paulo G. Cremonez (he/him/his); Mauricio U. Ventura
9:00 AM - 5:00 PM Pacific: Understanding the role of insect vectors in oak wilt disease cycle. Presenting Author: Amy Louise Twohig- State University of New York. Dylan Parry- SUNY College of Environmental Science and Forestry. Kelsey McLaughlin- NYSDEC Forest Health Research Lab. Andrew Newhouse- SUNY College of Environmental Science and Forestry - Amy Louise Twohig; Dylan Parry; Kelsey McLaughlin; Andrew Newhouse
9:00 AM - 5:00 PM Pacific: What's hoppin' in the grasslands. Presenting Author: Ashlynn Beatrice Smith- Texas A&M University - Ashlynn Beatrice Smith

Title: Poster: SysEB, Behavior, Ecology, and Conservation

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Systematics, Evolution, and Biodiversity
Tracks: Poster Display; Systematics, Evolution, and Biodiversity
Presentations:
9:00 AM - 5:00 PM Pacific: A multi-scale test of competition between exotic and native ambrosia beetles. Presenting Author: Clayton Traylor- Temple University. Michael Ulyshen- USDA-Forest Service. Scott Horn- Southern Forestry Sci Lab. David Coyle- Clemson University. Joseph McHugh- University Of Georgia - Clayton Traylor; Michael Ulyshen; Scott Horn; David Coyle; Joseph McHugh
9:00 AM - 5:00 PM Pacific: Buzzing dynamics: The impact of group size on honeybee dynamics. Presenting Author: Jordan L. Dubeck- Marquette University. Chelsea Cook- Marquette University. Casey E. Lambert- Marquette University. Zachary Nelson- Marquette University - Jordan L. Dubeck; Chelsea Cook; Casey E. Lambert; Zachary Nelson
9:00 AM - 5:00 PM Pacific: Can we use underwater sound to monitor aquatic insects?. Presenting Author: Julia E. Earl (she/her/hers)- Louisiana Tech University - Julia E. Earl (she/her/hers)
9:00 AM - 5:00 PM Pacific: Chemical communication in group-hunting giant hornets (Vespa soror and Vespa mandarinia) compared to a solitary-hunting hornet (Vespa velutina). Presenting Author: Emily Cruz- Wellesley College. Caroline E. Goodwin- Wellesley College. Heather Mattila- Wellesley College. Frances Kayser- Wellesley College. Marina Cynthia- Wellesley College. Cynthia Gomez- Wellesley College. Sissi Chen- Wellesley College. Gard Otis- University of Guelph. Danielle Vellucci- Wellesley College. Lien Thi- Institute of Biology, Vietnam Academy of Science and Technology. Phuong Nguyen- Institute of Biology, Vietnam Academy of Science and Technology - Emily Cruz; Caroline E. Goodwin; Heather Mattila; Frances Kayser; Marina Cynthia; Cynthia Gomez; Sissi Chen; Gard Otis; Danielle Vellucci; Lien Thi; Phuong Nguyen
9:00 AM - 5:00 PM Pacific: Climate-associated genetic variation in Eustenopus villosus, a biological control agent for yellow starthistle. Presenting Author: Brittany S. Barker, PhD- Oregon State University. Jessie Pelosi- University of Arizona. Katrina Dlugosch- University of Arizona - Brittany S. Barker, PhD; Jessie Pelosi; Katrina Dlugosch
9:00 AM - 5:00 PM Pacific: Conservation and diversification of olfactory receptor function in Camponotus floridanus ants. Presenting Author: Erin Beck- Arizona State University. Juergen Liebig (he/him/his)- Arizona State University - School of Life Sciences. chris albin-brooks- University of Toronto. Eyal Privman- University of Haifa. Mickey Kosloff- University of Haifa. Yoann Pellen- University of Haifa. Tamam Abdulghani- University of Haifa. Rob Harris- Arizona State University - Erin Beck; Juergen Liebig (he/him/his); chris albin-brooks; Eyal Privman; Mickey Kosloff; Yoann Pellen; Tamam Abdulghani; Rob Harris
9:00 AM - 5:00 PM Pacific: Dung beetle species assemblages in cattle pastures of Vermont and New York State. Presenting Author: Bryony Sands- University of Vermont. John Bruce- University of Vermont. Lauren Giroux- University of Bristol - Bryony Sands; John Bruce; Lauren Giroux
9:00 AM - 5:00 PM Pacific: Exploring spatial organization during thermoregulatory behavior in Apis mellifera. Presenting Author: Nathan David Warner- Marquette University. Chelsea Cook- Marquette University - Nathan David Warner; Chelsea Cook
9:00 AM - 5:00 PM Pacific: Generalism in armored scale insects (Hemiptera: Coccoidea: Diaspididae): Insights from host-use in a non-native plant community. Presenting Author: Bella Freeman-Moule- University of San Diego. Geoffrey Morse- University of San Diego - Bella Freeman-Moule; Geoffrey Morse

9:00 AM - 5:00 PM Pacific: Let there be light: Behavioral shift in honeybees (Apis mellifera) under varying light conditions. Presenting Author: Alyssa Christine Rada- Marquette University. Chelsea Cook- Marquette University - Alyssa Christine Rada; Chelsea Cook
9:00 AM - 5:00 PM Pacific: Of mites and millipedes: A comparative study of the interactions of mites found on Floridobolus penneri and Narceus gordanus. Presenting Author: Anne Sawl- University of South Florida. Deby Cassill- University of South Florida - Anne Sawl; Deby Cassill
9:00 AM - 5:00 PM Pacific: Parasitism modifies functional diversity in cavity-nesting bee communities. Presenting Author: Matthew Petersen- University of Minnesota. Cameron James Garland (he/him/his)- University of Minnesota - Matthew Petersen; Cameron James Garland (he/him/his)
9:00 AM - 5:00 PM Pacific: Population genetics of Pogonomyrmex badius and P. comanche. Presenting Author: Katrin Kellner (she/her/hers)- University of Texas. Jon N. Seal- University of Texas at Tyler - Katrin Kellner (she/her/hers); Jon N. Seal
9:00 AM - 5:00 PM Pacific: Regional variation in Bombus vosnesenskii worker body size across California's diverse landscapes. Presenting Author: Blanca R. Peto (she/her/hers)- University of California. Hollis Woodard (she/her/hers)- University of California - Blanca R. Peto (she/her/hers); Hollis Woodard (she/her/hers)
9:00 AM - 5:00 PM Pacific: Stopping new invasive woodborers could be simple. Presenting Author: Joshua Vlach- Oregon Department of Agriculture - Joshua Vlach
9:00 AM - 5:00 PM Pacific: The royal treatment: Does delayed entry of honey bee (Apis mellifera) larvae into the queen developmental pathway influence their performance as adults?. Presenting Author: Delilah Hammarlund- Wellesley College. Arianna Groover-Landis- Wellesley College. Caroline E. Goodwin- Wellesley College. Emily Cruz- Wellesley College. Chloe McGibbon- Wellesley College. Irene Newton- Indiana University Bloomington. David Tarpy (he/him/his)- North Carolina State University. Heather Mattila- Wellesley College - Delilah Hammarlund; Arianna Groover-Landis; Caroline E. Goodwin; Emily Cruz; Chloe McGibbon; Irene Newton; David Tarpy (he/him/his); Heather Mattila
9:00 AM - 5:00 PM Pacific: Trends of invertebrate abundance and community composition in tidal marsh transition zones through phases of salt pond habitat restoration in the south San Francisco Bay. Presenting Author: Mandy Frazer- San Francisco Bay Bird Observatory - Mandy Frazer
9:00 AM - 5:00 PM Pacific: Understanding temporal variation of trap nest community composition in Boyce, Virginia. Presenting Author: Willow Lovecky (she/her/hers)- University of Virginia. T'ai Roulston- University of Virginia - Willow Lovecky (she/her/hers); T'ai Roulston

Title: Poster: SysEB, Biodiversity, Taxonomy, and Systematics

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Systematics, Evolution, and Biodiversity
Tracks: Poster Display; Systematics, Evolution, and Biodiversity
Presentations:
9:00 AM - 5:00 PM Pacific: A new species of Triozocera Pierce (Strepsiptera: Corioxenidae) from Arizona, USA, with a key to species in North America. Presenting Author: Wyatt Zabinski- University of Kansas. Jerry L. Cook- Sam Houston State University - Wyatt Zabinski; Jerry L. Cook
9:00 AM - 5:00 PM Pacific: Arthropod diversity and abundance in Beltsville, Maryland. Presenting Author: Luke Humke- University of Maryland. Zachary Dankowicz, n/a- University of Maryland. Jillian Stewart- University of Maryland. Niranjana Krishnan (she/her/hers)- University of Maryland - Luke Humke; Zachary Dankowicz, n/a; Jillian Stewart; Niranjana Krishnan (she/her/hers)
9:00 AM - 5:00 PM Pacific: Assessing pollinators prior to restoring a bentonite mine: Vane traps are useful tools in ecosystems with few floral resources. Presenting Author: Lusha Tronstad, PhD- University of Wyoming. Bryan Tronstad- University of Wyoming. Tresize Tronstad- University of Wyoming - Lusha Tronstad, PhD; Bryan Tronstad; Tresize Tronstad
9:00 AM - 5:00 PM Pacific: Beetles, burns, and biodiversity: How prescribed burns shape ground beetle communities in South Dakota's Prairie Coteau. Presenting Author: Coryn Primm- South Dakota State University. Abigail P. Martens (she/her/hers)- South Dakota State University - Coryn Primm; Abigail P. Martens (she/her/hers)
9:00 AM - 5:00 PM Pacific: Biodiversity of Monodontomerus wasps. Presenting Author: Jacky Chitty- Rowan University. Daniel Duran- Rowan University - Jacky Chitty; Daniel Duran
9:00 AM - 5:00 PM Pacific: Bloom where you're burned: Pollinator response to spring prescribed burns in South Dakota's Prairie Coteau. Presenting Author: Abigail P. Martens (she/her/hers)- South Dakota State University. Coryn Primm- South Dakota State University - Abigail P. Martens (she/her/hers); Coryn Primm

9:00 AM - 5:00 PM Pacific: BugBox: A platform for AI-based arthropod biodiversity research. Presenting Author: Kelton D. Welch- Ecdysis Foundation - Kelton D. Welch
9:00 AM - 5:00 PM Pacific: Divergent microbiome signatures in managed and wild honey bee populations in South Texas. Presenting Author: Erick Motta- Texas A&M University. Jane Seong- Department of Entomology, Texas A&M University, College Station. Myra Dickey- University of Illinois. Juliana Rangel- Texas A&M University - Erick Motta; Jane Seong; Myra Dickey; Juliana Rangel
9:00 AM - 5:00 PM Pacific: Diversity and potential of natural enemies of fall armyworm (Spodoptera frugiperda) in Indian agroecosystems. Presenting Author: H.M. Yeshwanth- University of Agricultural Sciences. Danesha S. Carley. Godshen P. Robert. B. Shivanna. M.K. Prasanna Kumar - H.M. Yeshwanth; Danesha S. Carley; Godshen P. Robert; B. Shivanna; M.K. Prasanna Kumar
9:00 AM - 5:00 PM Pacific: Examining urban edges and habitat interfaces that shape Coleoptera family distribution across Manhattan and the Bronx, New York City. Presenting Author: Mads Moore- Columbia University. Eliana Hiam- Barnard University - Mads Moore; Eliana Hiam
9:00 AM - 5:00 PM Pacific: Forecasting population of corn earworm (Helicoverpa zea) using classical and machine learning based time series models. Presenting Author: Saurav Ranabhat (he/him/his)- Louisiana State University. Thanos Gentimis- LSU AgCenter. James Villegas- LSU AgCenter. Dawson Kerns- Louisiana State University - Saurav Ranabhat (he/him/his); Thanos Gentimis; James Villegas; Dawson Kerns
9:00 AM - 5:00 PM Pacific: From tradition to precision: Revising Coleoptera anatomy terminology. Presenting Author: Jennifer C. Girn- Museum of Texas Tech University - Jennifer C. Girn
9:00 AM - 5:00 PM Pacific: Integration of haltere feedback with visual stimuli during dipteran flight. Presenting Author: Jordon Wagner- University of Scranton. Marc Seid- University of Scranton - Jordon Wagner; Marc Seid
9:00 AM - 5:00 PM Pacific: Lost in the dark: Why we still don't understand parasitoid decline and extinction. Presenting Author: Jessica Awad, PhD (she/her/hers)- Naturalis Biodiversity Center. Cristina Vasilita, M.Sc.- Karlsruhe Institute of Technology. Lars Krogmann, Dr. rer. nat.- State Museum of Natural History Stuttgart - Jessica Awad, PhD (she/her/hers); Cristina Vasilita, M.Sc.; Lars Krogmann, Dr. rer. nat.
9:00 AM - 5:00 PM Pacific: New records among the lady beetles of Hawaii. Presenting Author: Louis S. Hesler- Hesler Professional Entomology. Eric Beckendorf- USDA-ARS. Janis Matsunaga- Hawaii DLNR, Division of Forestry & Wildlife. Dana Anne Yee- Dana Anne Yee Foundation. William Perreira- Dana Anne Yee Foundation - Louis S. Hesler; Eric Beckendorf; Janis Matsunaga; Dana Anne Yee; William Perreira
9:00 AM - 5:00 PM Pacific: Parasitoid wasp diversity of Lewis & Clark College. Presenting Author: Zack Stack- Lewis and Clark College - Zack Stack
9:00 AM - 5:00 PM Pacific: Pitfall trap bycatch data in the southwestern United States shines a light on the terrestrial arthropod biodiversity in arid and semiarid communities. Presenting Author: Joel DuBois- New Mexico State University. Erik Lehnhoff- New Mexico State University. Joanie King- New Mexico State University - Joel DuBois; Erik Lehnhoff; Joanie King
9:00 AM - 5:00 PM Pacific: Pollinator diversity in southern California coastal sage scrub habitats. Presenting Author: Rachel E. Allingham- San Diego Natural History Museum. Araceli Gomez (she/her/hers)- San Diego Natural History Museum. Megan Wagner- San Diego Natural History Museum. Jessica Mullins- University of California. Keng-Lou James Hung (he/him/his)- The University of Oklahoma. Pamela Horsley- San Diego Natural History Museum. Shahan Derkarabetian, PhD- San Diego Natural History Museum. Daniel A. Marschalek- University of Central Missouri - Rachel E. Allingham; Araceli Gomez (she/her/hers); Megan Wagner; Jessica Mullins; Keng-Lou James Hung (he/him/his); Pamela Horsley; Shahan Derkarabetian, PhD; Daniel A. Marschalek
9:00 AM - 5:00 PM Pacific: Redescription of Photinus pallens (Coleoptera: Lampyridae), the type species of Photinus. Presenting Author: Martha Drake (she/her/hers)- Purdue University. Kimberly Paola Garcia Lopez- University of Georgia. Joseph McHugh- University Of Georgia. Luiz Felipe Lima Da Silvera- UGA - Martha Drake (she/her/hers); Kimberly Paola Garcia Lopez; Joseph McHugh; Luiz Felipe Lima Da Silvera
9:00 AM - 5:00 PM Pacific: The stoneflies (Plecoptera) of Arkansas: A checklist compiled from museum specimen data. Presenting Author: Lily Hart- University of Illinois. R. Edward Dewalt- Illinois Natural History Survey. Phillip N. Hogan- Illinois Natural History Survey. Scott Grubbs- Western Kentucky University. David Burton- University of Ottawa - Lily Hart; R. Edward Dewalt; Phillip N. Hogan; Scott Grubbs; David Burton
9:00 AM - 5:00 PM Pacific: The tenants of the building: The melittophile community composition of the Peruvian stingless bee Melipona eburnean (Apidae: Meliponini). Presenting Author: Kathryn Isabella Naherny- University of Colorado. Samuel D. Ramsey- CU Boulder - Kathryn Isabella Naherny; Samuel D. Ramsey
9:00 AM - 5:00 PM Pacific: What we've lost: Reviewing historical stonefly (Insecta: Plecoptera) distributions and species diversity trends within the Midwest, USA. Presenting Author: Phillip N. Hogan- Illinois Natural History Survey. R. Edward Dewalt- Illinois Natural History Survey - Phillip N. Hogan; R. Edward Dewalt

Title: Poster: SysEB, Phylogenetics, Morphology, and Evolution

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Poster Display; Systematics, Evolution, and Biodiversity
Tracks: Poster Display; Systematics, Evolution, and Biodiversity
Presentations:
9:00 AM - 5:00 PM Pacific: A 100-gene phylogeny elucidates Euwallacea (Coleoptera, Curculionidae:Scolytinae: Xyleborini) ambrosia beetle taxonomy. Presenting Author: Sarah M. Smith- Michigan State University. Patrick Gorring- Florida State Collection of Arthropods. Roger A. Beaver. Anthony Cognato- Michigan State University - Sarah M. Smith; Patrick Gorring; Roger A. Beaver; Anthony Cognato
9:00 AM - 5:00 PM Pacific: A Coccinelidae and a Chrysomelidae as predator-prey and also Mllerian mimics. Presenting Author: Michael Plagens - Michael Plagens
9:00 AM - 5:00 PM Pacific: Codiversification phylogenomics of a North American carpenter ant assemblage and their obligate endosymbionts. Presenting Author: Joseph D. Manthey- Texas Tech University. Jennifer C. Giron- Texas Tech University - Joseph D. Manthey; Jennifer C. Giron
9:00 AM - 5:00 PM Pacific: Environment-modifying activities of dung beetle larvae shape their growth and life history traits. Presenting Author: Nathan J. McConnell, PhD- University of California - Nathan J. McConnell, PhD
9:00 AM - 5:00 PM Pacific: Frugal evolution: Adaptive reuse of flight muscles for jumping in scelionid wasps (Hymenoptera: Scelionidae). Presenting Author: DeAnna Pitcher- University of New Hampshire. Mark Townley- University of New Hampshire. David Steinberg- University of New Hampshire. Amanda Newport- University of New Hampshire. Thomas van de Kamp- Karlsruhe Institute of Technology. Istvan Miko- University of New Hampshire - DeAnna Pitcher; Mark Townley; David Steinberg; Amanda Newport; Thomas van de Kamp; Istvan Miko
9:00 AM - 5:00 PM Pacific: Genomic data and the pincer wasps: The first UCE phylogeny of Dryinidae!. Presenting Author: Carly M. Tribull- Farmingdale State College. Marek Borowiec (he/him/his)- Colorado State University. Stephanie Eskew (she/her/hers)- Colorado State University. Zachary Griebenow (he/him/his)- Colorado State University. Vilas Brown (they/them/theirs)- Colorado State University - Carly M. Tribull; Marek Borowiec (he/him/his); Stephanie Eskew (she/her/hers); Zachary Griebenow (he/him/his); Vilas Brown (they/them/theirs)
9:00 AM - 5:00 PM Pacific: Habitat-associated genetic divergence and gene flow dynamics of Aedes albopictus in Taiwan. Presenting Author: Ting-Chun Shih- National Health Research Institutes. Yung-Peng Chang- Institute of Ecology and Evolutionary Biology, National Taiwan University. Yen-Chieh Chiu- National Health Research Institutes. Hui-Ching Cheng- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Tsung-Ju Tsai- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Hsin-Yi Ho- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Ya-Zhe Lee- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Yung-Cheng Yang- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes. Hurng-Yi Wang- Graduate Institute of Clinical Medicine, College of Medicine, National Taiwan University. Chin-Gi Huang- National Mosquito-Borne Diseases Control Research Center, National Health Research Institutes - Ting-Chun Shih; Yung-Peng Chang; Yen-Chieh Chiu; Hui-Ching Cheng; Tsung-Ju Tsai; Hsin-Yi Ho; Ya-Zhe Lee; Yung-Cheng Yang; Hurng-Yi Wang; Chin-Gi Huang
9:00 AM - 5:00 PM Pacific: Heritable iflaviruses: A widespread and understudied piece of the aphid heritable microbiome. Presenting Author: Paula Rozo Lopez- University of Tennessee. Vanesa Torres- University of Tennessee. Benjamin Parker- University of North Carolina - Paula Rozo Lopez; Vanesa Torres; Benjamin Parker
9:00 AM - 5:00 PM Pacific: How mean is the gene? Investigating genes correlated with social parasitism in ants (Hymenoptera: Formicidae). Presenting Author: Jason Boue-Varela- University of Florida. Andrea Barrios- University of Florida. Malinda Todorovic- University of Florida. Sean Ladd- University of Florida. Anthony Auletta- University of Florida. Athena Conde- University of Florida. Maria Fiorta- University of Florida. Ryan Antalek- University of Florida. Elizabeth Cash- University of Florida - Jason Boue-Varela; Andrea Barrios; Malinda Todorovic; Sean Ladd; Anthony Auletta; Athena Conde; Maria Fiorta; Ryan Antalek; Elizabeth Cash
9:00 AM - 5:00 PM Pacific: Molecular mapping of the neuroectoderm across phyla: Conservation and divergence of brain regions between insects and vertebrates. Presenting Author: Gregor Bucher- Georg August University. Nico Posnien- University of Gttingen. Vera Terblanche, nee Hunnekuhl- University of Gttingen - Gregor Bucher; Nico Posnien; Vera Terblanche, nee Hunnekuhl
9:00 AM - 5:00 PM Pacific: Molecular reclassification of Tenebrionidae and novel evidence from mitochondrial genome diversity. Presenting Author: Seol Hui Ko- Kyungpook National University. Ui Wook Akintayo Hwang- Kyungpook National University - Seol Hui Ko; Ui Wook Akintayo Hwang

9:00 AM - 5:00 PM Pacific: Morphological variation o fFormica social parasites and the potential pressures that influence exploitative lifestyles. Presenting Author: Brendon Davis- University of Colorado - Brendon Davis
9:00 AM - 5:00 PM Pacific: Redescription of Lucidota apicalis Gorham, 1880, a small step toward clarification of a taxonomically complex group. Presenting Author: Kimberly Paola Garcia Lopez- University of Georgia. Martha Drake (she/her/hers)- Purdue University. Kathrin Stanger-Hall- The University of Georgia. Luiz Felipe Lima Da Silvera- UGA. Joseph McHugh- University Of Georgia - Kimberly Paola Garcia Lopez; Martha Drake (she/her/hers); Kathrin Stanger-Hall; Luiz Felipe Lima Da Silvera; Joseph McHugh
9:00 AM - 5:00 PM Pacific: Repeating thermal performance curve measurements 25 years later to assess responses to climate change among pierid populations. Presenting Author: Taylor Morgan Hatcher- University of Washington. Gwen Shlichta- Edmonds Community College/ University of Washington. Joel Kingsolver (he/him/his)- Univ of North Carolina. Lauren Buckley- UW Seattle - Taylor Morgan Hatcher; Gwen Shlichta; Joel Kingsolver (he/him/his); Lauren Buckley
9:00 AM - 5:00 PM Pacific: Trait syndromes and convergent evolution in Braconidae (Hymenoptera): Phylogenetic insights on hosts and morphology. Presenting Author: Christina L. Watkins- University of Central Florida. Barbara Sharanowski- University of Central Florida. Rachel Behm- University of Central Florida - Christina L. Watkins; Barbara Sharanowski; Rachel Behm
9:00 AM - 5:00 PM Pacific: Unraveling the role of structural variation in bee environmental adaptation: A super-pangenome analysis of the Osmiagenus. Presenting Author: Patricia Azevedo, PhD- University of Illinois. Matthew Hudson- University of Illinois. Adam Dolezal- University of Illinois - Patricia Azevedo, PhD; Matthew Hudson; Adam Dolezal
9:00 AM - 5:00 PM Pacific: Unraveling the webs of time: Hawaiian spider biodiversity discovery from DNA metabarcoding. Presenting Author: Natalie R. Graham- University of Hawaii. Hannah McKLamb- University of Hawaii at Hilo. Pritam Banerjee- University of California Berkeley. Sven Weber- University of California Berkeley. George Roderick- University of California. Rosemary Gillespie- Univ of California - Natalie R. Graham; Hannah McKLamb; Pritam Banerjee; Sven Weber; George Roderick; Rosemary Gillespie
9:00 AM - 5:00 PM Pacific: Unusual physical anomalies in field-caught Dermacentor variabilis. Presenting Author: Eden Frick- University of South Carolina. Katherine Brown, MPH- University of South Carolina. Kyndall Braumuller, PhD, MS, BCE- Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina. Madeleine Meyer, PhD- Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina. Emily Owens Pickle, PhD- Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina. Joshua Bernick, BA, BS- Virginia Department of Public Health. Elizabeth Forrey, BS- Virginia Department of Public Health. Melissa Nolan, PhD, MPH- Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina - Eden Frick; Katherine Brown, MPH; Kyndall Braumuller, PhD, MS, BCE; Madeleine Meyer, PhD; Emily Owens Pickle, PhD; Joshua Bernick, BA, BS; Elizabeth Forrey, BS; Melissa Nolan, PhD, MPH
9:00 AM - 5:00 PM Pacific: Viruses Identified by metagenomics in Houston (TX) mosquitos. Presenting Author: Christopher Charlie Gnaim- University of St. Thomas. Angelika Jordan- Univeristy of St. Thomas - Christopher Charlie Gnaim; Angelika Jordan

Title: Student Regular Poster: FIT and MUVE, General

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Regular Poster Display; Formal and Informal Teaching; Medical, Urban, and Veterinary Entomology; Student
Tracks: Student Regular Poster Display; Formal and Informal Teaching; Medical, Urban, and Veterinary Entomology; Student
Presentations:
9:00 AM - 5:00 PM Pacific: An extensible RNAi platform based on Piwi-Interacting RNA-based gene silencing. Presenting Author: Kevin R. Quito (he/him/his)- University of Southern Mississippi - Kevin R. Quito (he/him/his)
9:00 AM - 5:00 PM Pacific: Comparative analysis of the genetic structure of the oriental fruit fly, Bactrocera dorsalis, in southeastern Asia. Presenting Author: Jiseok Kim- Kyungpook National University. Donghun Kim- Kyungpook National University - Jiseok Kim; Donghun Kim
9:00 AM - 5:00 PM Pacific: Estimating the time of insect colonization of catfish carrion - validating data for use in wildlife forensic investigations. Presenting Author: Tara McNeil- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University. Katelyn Jett- Texas A&M University - Tara McNeil; Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his); Katelyn Jett

9:00 AM - 5:00 PM Pacific: Evaluation of past and present suitable environments forCulex coronator(Diptera: Culicidae). Presenting Author: Olivia Magaletta- St. Mary's College of Maryland. Amely Bauer, PhD- University of Florida. Yoosook Lee- University of Florida. Lindsay Campbell- University of Florida - Olivia Magaletta; Amely Bauer, PhD; Yoosook Lee; Lindsay Campbell
9:00 AM - 5:00 PM Pacific: Exploring the impact of service learning on undergraduate attitudes toward entomology. Presenting Author: Keegan Nichols- Texas A&M University. Tonya Shepherd- Texas A&M University - Keegan Nichols; Tonya Shepherd
9:00 AM - 5:00 PM Pacific: From cotton to control: Evaluating the efficacy of Thermacell's tick tubes. Presenting Author: Gabriella Proleika- Pennsylvania State University. Erika Machtinger- Pennsylvania State University - Gabriella Proleika; Erika Machtinger
9:00 AM - 5:00 PM Pacific: Gnat: A virtual TA to improve accessibility. Presenting Author: Christopher Brown (he/him/his)- Michigan State University - Christopher Brown (he/him/his)
9:00 AM - 5:00 PM Pacific: Is ecology and/or evolution promoting the invasion success of Aedes aegypti in Southern California?. Presenting Author: Natalie Castillo- California State University. Noah Rose- University of California - Natalie Castillo; Noah Rose
9:00 AM - 5:00 PM Pacific: Measuring if eating insects changes attitudes towards entomophagy using the entomophagy attitude questionnaire. Presenting Author: Griffin Goss- Michigan State University. Julianna Wilson- Michigan State University. Martin Brubaker Salcedo- Michigan State University - Griffin Goss; Julianna Wilson; Martin Brubaker Salcedo
9:00 AM - 5:00 PM Pacific: The efficacy of reactive oxygen species versus antimicrobial peptides in the early immune response against Bartonella henselae in the cat flea (Ctenocephalides felis). Presenting Author: Caroline M. Singer- Georgia Southern University. Lisa D. Brown- Georgia Southern University - Caroline M. Singer; Lisa D. Brown
9:00 AM - 5:00 PM Pacific: The role of visual imagery in pesticide safety education. Presenting Author: Kellen Pautzke (she/her/hers)- Washington State University - Kellen Pautzke (she/her/hers)
9:00 AM - 5:00 PM Pacific: Tick-host-pathogen dynamics among passerine birds in northwestern Pennsylvania. Presenting Author: Georgia Yialamas- University of Pittsburgh. Paulina Matzkin- University of Pittsburgh. Cassandra Ziegler. Danielle Tufts (she/her/hers)- University of Pittsburgh - Georgia Yialamas; Paulina Matzkin; Cassandra Ziegler; Danielle Tufts (she/her/hers)
9:00 AM - 5:00 PM Pacific: Transcriptomic and functional genomic analysis identifies mosquito genes modulating Plasmodium falciparum development. Presenting Author: Yuyang Wang- Johns Hopkins University. Yuemei Dong- Johns Hopkins University. Madhavinadha Prasad Kona- Johns Hopkins University. George Dimopoulos- Johns Hopkins University - Yuyang Wang; Yuemei Dong; Madhavinadha Prasad Kona; George Dimopoulos
9:00 AM - 5:00 PM Pacific: Vector control in the Gulf Coast: Identifying and addressing operational barriers and training needs among pest management professionals. Presenting Author: Chance Hudnall- Louisiana State University. Aaron Ashbrook- Louisiana State University. Jerrod Penn (he/him/his)- Louisiana State University- Agricultural Economics. Claudia Riegel- New Orleans Mosquito, Termite and Rodent Control Board - Chance Hudnall; Aaron Ashbrook; Jerrod Penn (he/him/his); Claudia Riegel

Title: Student Regular Poster: PBT and P-IE, IPM

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Regular Poster Display; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems; Student
Tracks: Student Regular Poster Display; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems; Student
Presentations:
9:00 AM - 5:00 PM Pacific: An examination of the effects of glucose oxidase on Solanum lycopersicum var. cerasiforme (cherry tomato) induced defenses. Presenting Author: Jared Emanuel Griffin- Pennsylvania State University. Gary Felton- Pennsylvania State University - Jared Emanuel Griffin; Gary Felton
9:00 AM - 5:00 PM Pacific: Characterizing the transmission efficiency of Xylella fastidiosa by the sharpshooter Draeculacephala robinsoni. Presenting Author: Abderrahmane Boucherf- University of Bari Aldo Moro. Valerio Mazzoni- Fondazione Edmund Mach (Edmund Mach Foundation). Marco Valerio Rossi Stacconi, PhD- Fondazione Edmund Mach. Ewelina Czwienczek- EFSA. Arash Rashed- Virginia Tech. Daniele Cornara- DiSSPA, University of Bari - Abderrahmane Boucherf; Valerio Mazzoni; Marco Valerio Rossi Stacconi, PhD; Ewelina Czwienczek; Arash Rashed; Daniele Cornara

9:00 AM - 5:00 PM Pacific: Distribution and proliferation of cereal grass aphid in the Pacific Northwest. Presenting Author: Milo Eliot Flint- University of Idaho. Subodh Adhikari- Utah State University. Jane Dostart- University of Idaho. Ying Wu- University of Idaho. Arash Rashed- Virginia Tech. Shirin Parizad- Virginia Polytechnic Institute and State University. Sanford Eigenbrode- University of Idaho - Milo Eliot Flint; Subodh Adhikari; Jane Dostart; Ying Wu; Arash Rashed; Shirin Parizad; Sanford Eigenbrode
9:00 AM - 5:00 PM Pacific: Does fertilization rate in wheat affect insect pest pressure during the growing season?. Presenting Author: Khuma Kumari Bhusal (she/her/hers)- South Dakota State University. Philip Rozeboom- South Dakota State University. Eric Jones- South Dakota State University. Adam Varenhorst- South Dakota State University - Khuma Kumari Bhusal (she/her/hers); Philip Rozeboom; Eric Jones; Adam Varenhorst
9:00 AM - 5:00 PM Pacific: Entomopathogenic nematode formulation refinement against mealybugs. Presenting Author: Alexander Maxwell Butcher- Oregon State University. Vaughn M. Walton- Oregon State University. Sophia Reindl- Oregon State University. Kyoo Park- Oregon State University. Alexis Shobe- Oregon State University. xinyu Li- Oregon State University - Alexander Maxwell Butcher; Vaughn M. Walton; Sophia Reindl; Kyoo Park; Alexis Shobe; xinyu Li
9:00 AM - 5:00 PM Pacific: Evaluating arthropod responses across a gradient of grazing Intensity. Presenting Author: Olivia Rooney- University of Wisconsin. Claudio Gratton- University of Wisconsin - Olivia Rooney; Claudio Gratton
9:00 AM - 5:00 PM Pacific: Evaluating trap crops for managing Helicoverpa zea and Heliothis virescens in floral hemp systems. Presenting Author: Samikshya Pandey (she/her/hers)- Oregon State University. Govinda Shrestha, PhD- South Dakota State University. Vaughn M. Walton- Oregon State University - Samikshya Pandey (she/her/hers); Govinda Shrestha, PhD; Vaughn M. Walton
9:00 AM - 5:00 PM Pacific: Evaluation of X-ray irradiation on survival and Wolbachia prevalence in the Asian Citrus Psyllid. Presenting Author: Lisette Ruiz. Jedeliza B. Ferrater. Paul Rugman-Jones- University of California Riverside. Matthew Daugherty- University of California, Riverside - Lisette Ruiz; Jedeliza B. Ferrater; Paul Rugman-Jones; Matthew Daugherty
9:00 AM - 5:00 PM Pacific: Gourmet Christmas dinner: Understanding lipid content of overwintering hive supplements. Presenting Author: Petra Hafker (she/her/hers)- Cornell University. Christophe Duplais- Cornell University - Petra Hafker (she/her/hers); Christophe Duplais
9:00 AM - 5:00 PM Pacific: Harnessing Ganaspis kimorum: Evaluating Augmentoria for biological control of spotted-wing drosophila. Presenting Author: Nicholas McDonald (he/him/his)- Oregon State University. Jana Lee- USDA-ARS - Nicholas McDonald (he/him/his); Jana Lee
9:00 AM - 5:00 PM Pacific: Invertebrate assemblage preferences in mushrooms of Northeast Ohio. Presenting Author: Sarah Culliton- Hiram College. Michael Cunningham-Minnick- Hiram College - Sarah Culliton; Michael Cunningham-Minnick
9:00 AM - 5:00 PM Pacific: Regional insecticide resistance ofFrankliniella occidentaliscollected from the pepper house in the Republic of Korea. Presenting Author: Seoyul Hwang- Kyungpook National University. Jaeuk Park- Kyungpook National University. Jiseok Kim- Kyungpook National University. Donghun Kim- Kyungpook National University - Seoyul Hwang; Jaeuk Park; Jiseok Kim; Donghun Kim
9:00 AM - 5:00 PM Pacific: Regulation of Arabidopsis actin depolymerizing factor 3 and its role in limiting green peach aphid infestation. Presenting Author: Lani Archer. Jyoti Shah- University of North Texas - Lani Archer; Jyoti Shah
9:00 AM - 5:00 PM Pacific: Stink bug complex control in soybeans: A comparative study of commercial insecticides. Presenting Author: Leroy Lopez- Texas A&M University. Rebecca Pearson- Texas A&M AgriLife Research. Lina Bernaola- Texas A&M University - Leroy Lopez; Rebecca Pearson; Lina Bernaola
9:00 AM - 5:00 PM Pacific: Tiny farmers: Ambrosia gall midges and their microbial symbionts in fungus-farming evolution. Presenting Author: Nikola Rojovska (she/her/hers)- University of Ostrava. Tereza Minarkov- University of Ostrava. Pavel Drozd- University of Ostrava. Petr Pyszko- University of Ostrava. Katerina Czajova- University of Ostrava. Martin Sigut- University of Ostrava. Miroslav Kolarik. Nikola Burdikova- University of Ostrava. Jan Sevcik- University of Ostrava - Nikola Rojovska (she/her/hers); Tereza Minarkov; Pavel Drozd; Petr Pyszko; Katerina Czajova; Martin Sigut; Miroslav Kolarik; Nikola Burdikova; Jan Sevcik

Title: Student Regular Poster: PBT and SysEB, General

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Regular Poster Display; Physiology, Biochemistry, and Toxicology; Systematics, Evolution, and Biodiversity; Student

Tracks: Student Regular Poster Display; Physiology, Biochemistry, and Toxicology; Systematics, Evolution, and Biodiversity; Student

Presentations:

9:00 AM - 5:00 PM Pacific: A look into the microbiome of Pheidole adrianoi, an ant that associates with mycorrhizae. Presenting Author: Erin Samantha McFarland (she/her/hers)- University of Texas. Jon N. Seal- University of Texas at Tyler. Katrin Kellner (she/her/hers)- University of Texas. Walter Tschinkel- Florida State University - Erin Samantha McFarland (she/her/hers); Jon N. Seal; Katrin Kellner (she/her/hers); Walter Tschinkel

9:00 AM - 5:00 PM Pacific: A model for the research on the evolution of mantis-like forelegs: The post-embryonic development of Ochthera circularis. Presenting Author: Takumi Hiraishi (he/him/his)- Tokyo Metropolitan University. Takaomi Sakai- Tokyo Metropolitan University. Tsunaki Asano- Tokyo Metropolitan University - Takumi Hiraishi (he/him/his); Takaomi Sakai; Tsunaki Asano

9:00 AM - 5:00 PM Pacific: Baffling ballads: A phylogenetic approach to trace the evolution of baffling behaviour in North American tree crickets. Presenting Author: Ashlesh Pattanaik- University of Tennessee. Jessie Tanner- University of Tennessee, Knoxville - Ashlesh Pattanaik; Jessie Tanner

9:00 AM - 5:00 PM Pacific: Chitin deacetylases are essential for maintaining cuticle integrity during insect molting. Presenting Author: Claire Garman- University of Nebraska. Savannah Leigh Armendariz- University of Nebraska. Subbaratnam Muthukrishnan- Kansas State University. Vinai C. Thomas- University of Nebraska Medical Center. Sujata S. Chaudhari- University of Nebraska Medical Center - Claire Garman; Savannah Leigh Armendariz; Subbaratnam Muthukrishnan; Vinai C. Thomas; Sujata S. Chaudhari

9:00 AM - 5:00 PM Pacific: Crunching the numbers: Predicting macronutrient content using machine learning. Presenting Author: Rebecca P. Barone (she/her/they/them/o ia)- University of Hawaii - Rebecca P. Barone (she/her/they/them/o ia)

9:00 AM - 5:00 PM Pacific: Effects of short term exposure to ivermectin on dung beetles' heat tolerance. Presenting Author: Mactildah Kadivirire- Department of Biological Sciences & Biotechnology Botswana. Casper Nyamukondiwa- Botswana International University of Science and Technology. Honest Machekano- University of Pretoria - Mactildah Kadivirire; Casper Nyamukondiwa; Honest Machekano

9:00 AM - 5:00 PM Pacific: Even in sparse, biased data--if the structure is real, it surfaces. Presenting Author: Hyun Yong Chung, M.A.- Cornell University. John Losey, PhD- Cornell University, Department of Entomology - Hyun Yong Chung, M.A.; John Losey, PhD

9:00 AM - 5:00 PM Pacific: Hearing the danger: The auditory responses of Manduca sexta caterpillars and how it is altered by parasitism. Presenting Author: Joseph Cosmo Iacovazzi, III (he/him/his)- Keystone College. Aishwarya Sriram- Binghamton University. Sara Aghazadeh- Binghamton University. Carol Miles- Binghamton University. Ronald Miles- Binghamton University - Joseph Cosmo Iacovazzi, III (he/him/his); Aishwarya Sriram; Sara Aghazadeh; Carol Miles; Ronald Miles

9:00 AM - 5:00 PM Pacific: Nest distribution of Atta texana in an oak pine forest. Presenting Author: Megan Nicole Rhea- University of Texas. Jon N. Seal- University of Texas at Tyler. Katrin Kellner (she/her/hers)- University of Texas. Erin Samantha McFarland (she/her/hers)- University of Texas - Megan Nicole Rhea; Jon N. Seal; Katrin Kellner (she/her/hers); Erin Samantha McFarland (she/her/hers)

9:00 AM - 5:00 PM Pacific: Non-target burying beetles exhibit differential gene expression in response to imidacloprid and bifenthrin. Presenting Author: Samantha Hittson- Oklahoma State University. Fares Najar- Oklahoma State University. Chelsea Murphy- Oklahoma State University. Michael Cavallaro- Oklahoma State University. Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University - Samantha Hittson; Fares Najar; Chelsea Murphy; Michael Cavallaro; Wyatt Wyatt Hoback (he/him/his)

9:00 AM - 5:00 PM Pacific: Reconstructing energetics from museum specimens reveals climate-driven physiological stress in montane grasshoppers. Presenting Author: Simran Bawa- University of California. Caroline Williams- UC Berkeley. Monica Sheffer (she/her/hers)- UC Berkeley. Sean Dennis Schoville- University of Wisconsin. Lauren Buckley- UW Seattle. Cesar Nufio- Science Content Developer - Simran Bawa; Caroline Williams; Monica Sheffer (she/her/hers); Sean Dennis Schoville; Lauren Buckley; Cesar Nufio

9:00 AM - 5:00 PM Pacific: Role of jhamt in the chemosensory regulation of mating inDrosophila. Presenting Author: Alexandria Dela Cruz Pacrin- University of Connecticut - Alexandria Dela Cruz Pacrin

9:00 AM - 5:00 PM Pacific: The effects of fire disturbance during embryogenesis on adult condition and fitness in a native and invasive cricket species. Presenting Author: Madison F. Von Deylen- The Ohio State University. Agust Munoz-Garcia- The Ohio State University. Susan N. Gershman- The Ohio State University - Madison F. Von Deylen; Agust Munoz-Garcia; Susan N. Gershman

9:00 AM - 5:00 PM Pacific: TYLCV induces the biosynthesis of insect resolvin, EpOME, to facilitate the viral multiplication in the viral vector, Bemisia tabaci. Presenting Author: Falguni Khan- Gyeongkuk National University - Falguni Khan

Title: Student Regular Poster: PBT, P-IE, and SysEB, Honey Bees, Pollinators, and Conservation

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:
Categories: Student Regular Poster Display; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student
Tracks: Student Regular Poster Display; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity; Student
Presentations:
9:00 AM - 5:00 PM Pacific: Assessing the foraging efficiency of bee species in restored Oregon prairie habitats. Presenting Author: Adrian F. Morado- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Adrian F. Morado; Alexander Maxwell Butcher
9:00 AM - 5:00 PM Pacific: Brooding over what mite bee: The spatial distribution and reproductive patterns of Varroa destructor mites within Apis mellifera hives. Presenting Author: Treson Thompson- University of Colorado - Treson Thompson
9:00 AM - 5:00 PM Pacific: Effects of temperature and humidity on eclosion timing and adult activity of the endangered butterfly Taylor's checkerspot, Euphydryas editha taylori (W.H Edwards). Presenting Author: Abby Dhone- Oregon State University. Alexander Maxwell Butcher- Oregon State University - Abby Dhone; Alexander Maxwell Butcher
9:00 AM - 5:00 PM Pacific: Examining sterol nutritional physiology in Apis mellifera and Bombus impatiens. Presenting Author: Mckaela Whilden (she/her/hers)- Washington State University. Asmita Gautam- Mississippi State University. Priya Chakrabarti Basu (she/her/hers)- Washington State University - Mckaela Whilden (she/her/hers); Asmita Gautam; Priya Chakrabarti Basu (she/her/hers)
9:00 AM - 5:00 PM Pacific: Five-year impact of prescribed burning and wildflower seeding on Lepidoptera communities in the U.S. Southern Great Plains. Presenting Author: Anna Holme- University of Texas at Austin. Shalene Jha (she/her/hers)- University of Texas. Sean R. Griffin- Lady Bird Johnson Wildflower Center. Elinor Lichtenberg- University of North Texas - Anna Holme; Shalene Jha (she/her/hers); Sean R. Griffin; Elinor Lichtenberg
9:00 AM - 5:00 PM Pacific: Leveraging pollen metabarcoding and citizen science to build regionally specific seed mixes for spring-flying bees. Presenting Author: Kelly Bennett- Pennsylvania State University. Morgan Scalici- Osmia Bee Company. Justina Block- Osmia Bee Company. David Biddinger (he/him/his)- Penn State University. Natalie Boyle- Pennsylvania State University - Kelly Bennett; Morgan Scalici; Justina Block; David Biddinger (he/him/his); Natalie Boyle
9:00 AM - 5:00 PM Pacific: Moths from a flame: Moth and plant community assemblage post park fire. Presenting Author: Naomi J. Jones- California State University - Naomi J. Jones
9:00 AM - 5:00 PM Pacific: Native bee microbiomes in Central Texas. Presenting Author: Zoe BeDell- Texas A&M University. Erick Motta- Texas A&M University - Zoe BeDell; Erick Motta
9:00 AM - 5:00 PM Pacific: Soybean floral characteristics that attract effective pollinators from semi-natural habitats. Presenting Author: Karalyn Rutkowski- Hiram College. Michael Cunningham-Minnick- Hiram College - Karalyn Rutkowski; Michael Cunningham-Minnick
9:00 AM - 5:00 PM Pacific: Survey of beekeeper management practices in Florida honey bee (Apis mellifera) colonies. Presenting Author: Julia St Amant- University of Florida. Cameron Jack- University of Florida. James D. Ellis- University of Florida - Julia St Amant; Cameron Jack; James D. Ellis
9:00 AM - 5:00 PM Pacific: Towards a global database of microhabitat use by tropical lepidopterans via automated background classification with computer vision. Presenting Author: Colin Rhea Price- Florida Museum of Natural History. Yi Su, n/a- Herbert Wertheim Engineering College, University of Florida - Colin Rhea Price; Yi Su, n/a
9:00 AM - 5:00 PM Pacific: Wild bumblebee lineage survival in response to pathogen infection and medicinal floral resources. Presenting Author: Caroline G. Chessher- University of Texas. Kate Borchardt, PhD- University of Massachusetts. Laura Figueroa- University of Massachusetts. Lynn Adler- University of Massachusetts. Shalene Jha (she/her/hers)- University of Texas - Caroline G. Chessher; Kate Borchardt, PhD; Laura Figueroa; Lynn Adler; Shalene Jha (she/her/hers)

Title: Poster: FIT, BCEENET

Time: **9:00 AM - 5:00** PM Pacific
Location: Exhibit Hall A-A1, OCC
Organizers:

Categories: Poster Display; Formal and Informal Teaching; Student
Tracks: Poster Display; Formal and Informal Teaching; Student
Presentations:
9:00 AM - 5:00 PM Pacific: BCEENET: Using digitized natural history collections to support and assess student learning in entomology, ecology, and evolution using CUREs. Presenting Author: Kathryn Weglarz (she/her/hers)- Westfield State University. Carly Jordan- The George Washington University. Cecily Bronson- The George Washington University. Adania Fleming- University of Florida. Kristen Genet- Anoka-Ramsey Community College. Matt Johnson- Texas Tech University. Lisa Limeri- Texas Tech University. Janice Krumm- Widener University - Kathryn Weglarz (she/her/hers); Carly Jordan; Cecily Bronson; Adania Fleming; Kristen Genet; Matt Johnson; Lisa Limeri; Janice Krumm
9:00 AM - 5:00 PM Pacific: Exploring elevational impacts on insect morphology using Pieris rapae specimens from digitized museum collections. Presenting Author: Jackie Le- George Washington University. Boluwatife Ogundimu- The George Washington University. Carly Jordan- The George Washington University - Jackie Le; Boluwatife Ogundimu; Carly Jordan
9:00 AM - 5:00 PM Pacific: Exploring the relationship between elevation and wing size using museum-archived Pieris rapae specimens. Presenting Author: Veronica Kuzma- George Washington University. Urja Mehta- The George Washington University. Muskaan Nayyar- The George Washington University. Carly Jordan- The George Washington University - Veronica Kuzma; Urja Mehta; Muskaan Nayyar; Carly Jordan
9:00 AM - 5:00 PM Pacific: Exploring the relationship between wing melanization, morphology, and environmental variation in Pieris rapae using museum specimens and earth monitoring data. Presenting Author: Zaley Del Rio- Westfield State University. Kathryn Weglarz (she/her/hers)- Westfield State University - Zaley Del Rio; Kathryn Weglarz (she/her/hers)
9:00 AM - 5:00 PM Pacific: Geographic variation in wing spot melanization of Pieris rapae using digitized museum specimens. Presenting Author: Deeksha Ravi- George Washington University. Carly Jordan- The George Washington University - Deeksha Ravi; Carly Jordan
9:00 AM - 5:00 PM Pacific: How latitude affects wing melanization in Pieris rapae. Presenting Author: Jasmine Bremner- Anoka-Ramsey Community College. Ha Linh Dao- Anoka-Ramsey Community College. Kristen Genet- Anoka-Ramsey Community College - Jasmine Bremner; Ha Linh Dao; Kristen Genet
9:00 AM - 5:00 PM Pacific: Investigating the impacts of ultraviolet radiation on wing melanization in Pieris rapae using digitized collections data. Presenting Author: John Gaj- Westfield State University. Kathryn Weglarz (she/her/hers)- Westfield State University - John Gaj; Kathryn Weglarz (she/her/hers)
9:00 AM - 5:00 PM Pacific: Regional and temporal effects on wing apex melanization in Pieris rapae. Presenting Author: Shaniya Abraham- University of California. Saige Pompura- University of California - Shaniya Abraham; Saige Pompura
9:00 AM - 5:00 PM Pacific: The differences in wing spot and apex melanization between North American and EuropeanPieris rapae. Presenting Author: Stephanie Powers- Anoka-Ramsey Community College. Kristen Genet- Anoka-Ramsey Community College - Stephanie Powers; Kristen Genet
9:00 AM - 5:00 PM Pacific: The effect of climate change on wing apex melanization in Pieris rapae based on historic museum specimens. Presenting Author: Jawana Albayati- Anoka-Ramsey Community College. Kristen Genet- Anoka-Ramsey Community College - Jawana Albayati; Kristen Genet
9:00 AM - 5:00 PM Pacific: Using digitized herbarium specimens to compare morphological traits of Japanese climbing fern in native and invasive ranges. Presenting Author: Kayin Dunn- Auburn University. Claudia Stein- Auburn University - Kayin Dunn; Claudia Stein
9:00 AM - 5:00 PM Pacific: Using museum specimens of Pieris rapaeto investigate apex wing melanization across latitudes. Presenting Author: Sabah Tabel- University of California. Saige Pompura- University of California - Sabah Tabel; Saige Pompura
9:00 AM - 5:00 PM Pacific: What's behind wing zize in Pieris rapae? A look at migration and selection. Presenting Author: Leila Lendon- Westfield State University. Jaeden Mulero- Westfield State University. Kudakwashe J. Manyawu- Westfield State University. Kathryn Weglarz (she/her/hers)- Westfield State University - Leila Lendon; Jaeden Mulero; Kudakwashe J. Manyawu; Kathryn Weglarz (she/her/hers)

Title: Bridging Generations in Entomology: Evolving Challenges, Innovative Solutions, and Shared Legacies

Time: **9:30 AM - 10:30 AM** Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Gurjit Singh- University of Georgia; Mandeep Tayal (he/him/his)- North Carolina State University; Swapna Priya Rajarapu- Oregon State University; Harit K. Bal- Bayer Crop Science; Gagandeep Brar- Bayer

Crop Science; Sanket Shinde- University of Nebraska-Lincoln; Kashish Verma (she/her/hers)- University of Nebraska-Lincoln
Categories: Mini Workshop; Early Career; Professional Development; Student
Abstract: This session will explore how entomology has evolved through the lens of teaching, research, and extension. This dynamic, cross-generational workshop pairs seasoned experts with rising professionals to discuss past lessons, current innovations and future challenges--bridging legacy and innovation to inspire the next era of entomological progress
Tracks: Mini Workshop; Early Career; Professional Development; Student

Title: What's New in Industry

Time: **9:30 AM - 11:00 AM** Pacific
Location: Oregon Convention Center, Demonstration Stage (in the Exhibit Hall), OCC
Organizers: Julian Golec- Corteva Agriscience; Gabriela Carmona- Corteva Agriscience
Categories: Meetings & Events; Exhibit Hall; Exhibitor Demonstration Stage
Tracks: Meetings & Events; Exhibit Hall; Exhibitor Demonstration Stage
Presentations:
9:30 AM - 9:33 AM Pacific: Introduction. Presenting Author: Gabriela Carmona- Corteva Agriscience - Gabriela Carmona
9:33 AM - 9:42 AM Pacific: Valent product update. Presenting Author: R. Andrew Rodstrom- Valent USA - R. Andrew Rodstrom
9:42 AM - 9:51 AM Pacific: Nichino product update. Presenting Author: Manuel Campos-Figueroa- Nichino - Manuel Campos-Figueroa
9:51 AM - 10:00 AM Pacific: Syngenta product update. Presenting Author: Christopher Clemens- Syngenta - Christopher Clemens
10:00 AM - 10:09 AM Pacific: ProFarms product update. Presenting Author: Amanda Koppel- ProFarms - Amanda Koppel
10:09 AM - 10:18 AM Pacific: Corteva product update. Presenting Author: Gabriela Carmona- Corteva Agriscience - Gabriela Carmona
10:18 AM - 10:27 AM Pacific: Trece product update. Presenting Author: Thomas Martin- Trece Inc. - Thomas Martin
10:27 AM - 10:36 AM Pacific: UPL product update. Presenting Author: Kendall Johnson- UPL - Kendall Johnson
10:36 AM - 10:45 AM Pacific: FMC product update. Presenting Author: Juan Alvarez- FMC Corporation - Juan Alvarez
10:45 AM - 10:54 AM Pacific: Bayer product update. Presenting Author: Waseem Akbar- Bayer Crop Science - Waseem Akbar

Title: Born to Be Wild: Investigating Wildlife-Arthropod Vector Interactions in a One Health Context

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers: Karen Poh (she/her/hers)- USDA-ARS; Erika Machtinger- Pennsylvania State University; Risa Pesapane- The Ohio State University; Danielle Tufts (she/her/hers)- University of Pittsburgh
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: Our symposium highlights the diversity of arthropod vectors that can infest wildlife, leading to ecological implications for pathogen transmission and ecosystem health. Our symposium brings together entomologists and wildlife scientists under the One Health concept to discuss the relationships between entomology and wildlife with consequences for human and animal health.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
10:00 AM - 10:05 AM Pacific: Introductory remarks. Presenting Author: Karen Poh (she/her/hers)- USDA-ARS - Karen Poh (she/her/hers)
10:05 AM - 10:10 AM Pacific: Host associations of Haemaphysalis longicornis (Acari: Ixodidae) in the United States. Presenting Author: Karen Poh (she/her/hers)- USDA-ARS. Denise Bonilla- USDA-APHIS - Karen Poh (she/her/hers); Denise Bonilla
10:10 AM - 10:15 AM Pacific: Burrow boarders: Mapping woodchuck (Marmota monax) ectoparasites within our shared health ecosystem. Presenting Author: Erika Machtinger- Pennsylvania State University - Erika Machtinger
10:15 AM - 10:20 AM Pacific: Bite-sized evidence: Tick bite exposure assay to detect previous Dermacentor tick infestation in Peromyscus mice. Presenting Author: Jesse Evans- Washington State University. Mitzi Aguilar-

USDA-ARS. Elis Fisk- Washington State University. Dana K. Shaw- Washington State University. Jeb Owen- Washington State University. Pilar Fernandez- Washington State University. Karen Poh (she/her/hers)- USDA-ARS - Jesse Evans; Mitzi Aguilar; Elis Fisk; Dana K. Shaw; Jeb Owen; Pilar Fernandez; Karen Poh (she/her/hers)
10:20 AM - 10:25 AM Pacific: Advancing the systemic treatment of rodent hosts to reduce blacklegged tick (Ixodes scapularis) parasitism. Presenting Author: Jessica Brown- Connecticut Agricultural Experiment Station. Megan Linske- Connecticut Agricultural Experiment Station. Scott Williams- Connecticut Agricultural Experiment Station - Jessica Brown; Megan Linske; Scott Williams
10:25 AM - 10:30 AM Pacific: Parasites, pathogens, and populations: A multidimensional study of nasal mite infestations in a threatened marine mammal. Presenting Author: Ashani Hangawatte- The Ohio State University. Melissa Miller- California Department of Fish and Wildlife. Francesca Batac- California Department of Fish and Wildlife. Michael Murray- Monterey Bay Aquarium. Marisa Young- Monterey Bay Aquarium. Anna Wepprich- Oregon Coast Aquarium. Carrie Goertz- Alaska SeaLife Center. Emilee Milton- Alaska SeaLife Center. Cody Warren- The Ohio State University. Risa Pesapane- The Ohio State University - Ashani Hangawatte; Melissa Miller; Francesca Batac; Michael Murray; Marisa Young; Anna Wepprich; Carrie Goertz; Emilee Milton; Cody Warren; Risa Pesapane
10:30 AM - 10:35 AM Pacific: Triatomine host preference in an experimental cafeteria: The impact of Trypanosoma cruzi infections. Presenting Author: Jordan Salomon- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University. Keswick Killets- Texas A&M University. Dorcas Abiara- University of Texas at Austin Dell Medical School. Hojun Song- Texas A&M University. Gabriel Hamer (he/him/his)- Texas A&M University. Sarah Hamer- Texas A&M University - Jordan Salomon; Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his); Keswick Killets; Dorcas Abiara; Hojun Song; Gabriel Hamer (he/him/his); Sarah Hamer
10:35 AM - 10:40 AM Pacific: Determining host selection of the stable fly,Stomoxys calcitrans(Linnaeus 1758), through bloodmeal analysis at a Texas wildlife park. Presenting Author: Lauren Beebe- Texas A&M University. Pia Olafson- USDA/ARS. Phillip Kaufman, PhD (he/him/his)- Texas A&M University - Lauren Beebe; Pia Olafson; Phillip Kaufman, PhD (he/him/his)
10:40 AM - 10:45 AM Pacific: Filth flies as environmental sentinels of zoonotic pathogens: A case study using filth flies to detect Giardia duodenales and Cryptosporidium parvum. Presenting Author: Samantha Sawyer- University of New Haven - Samantha Sawyer
10:45 AM - 10:50 AM Pacific: A South Carolina surveillance study of avian louse flies (Diptera: Hippoboscidae) and host related pathogens. Presenting Author: Katherine Brown, MPH- University of South Carolina. Martha Weber, DVM- Riverbanks Zoo & Garden. Kia Zellars- University of South Carolina. Madeleine Mayer- University of South Carolina. Michael Skvarla- Pennsylvania State University. Melissa Nolan, PhD, MPH- Department of Epidemiology and Biostatistics, Arnold School of Public Health, University of South Carolina - Katherine Brown, MPH; Martha Weber, DVM; Kia Zellars; Madeleine Mayer; Michael Skvarla; Melissa Nolan, PhD, MPH
10:50 AM - 10:55 AM Pacific: Using participatory epidemiology to understand differences in tick-borne disease perceptions from homeowners in the Ohio River Valley. Presenting Author: Emily Bache- University of Pittsburgh. Paulina Matzkin- University of Pittsburgh. Jessica Fleming- The Ohio State University. Risa Pesapane- The Ohio State University. Danielle Tufts (she/her/hers)- University of Pittsburgh - Emily Bache; Paulina Matzkin; Jessica Fleming; Risa Pesapane; Danielle Tufts (she/her/hers)
10:55 AM - 11:05 AM Pacific: Break -
11:05 AM - 11:55 AM Pacific: Poster session -
11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Karen Poh (she/her/hers)- USDA-ARS - Karen Poh (she/her/hers)

Title: Contemporary Strategies for Studying Pollinator Conservation and Distribution in a Changing World

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers: Blanca M. Guillen (she/her/hers)- University of California; Claudineia Pereira Costa- University of California; Oscar Martinez Lopez, PhD- University of California
Categories: Section Symposium; Systematics, Evolution, and Biodiversity
Abstract: Pollinators are facing unprecedented challenges in a changing climate, but emerging research methods are revolutionizing how we assess their conservation and distribution. This session bridges traditional and innovative approaches to analyzing pollinator population health and distribution, highlighting tools like genomics and modeling to drive effective conservation strategies.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity
Presentations:

10:00 AM - 10:06 AM Pacific: Introductory remarks. Presenting Author: Blanca M. Guillen (she/her/hers)- University of California - Blanca M. Guillen (she/her/hers)
10:06 AM - 10:20 AM Pacific: The bumble bee atlas: A community science approach to pollinator conservation. Presenting Author: Leif Richardson- Xerces Society for Invertebrate Conservation. Rich Hatfield- Xerces Society for Invertebrate Conservation. Sarina Jepsen- Xerces Society - Leif Richardson; Rich Hatfield; Sarina Jepsen
10:20 AM - 10:34 AM Pacific: Assessing the status and climate change vulnerability of southeastern pollen-specialist bees for use by wildlife managers. Presenting Author: Hailey Shanovich (she/they)- US Geological Survey. Rebecca E. Irwin- North Carolina State University. Tara Cornelisse, PhD- NatureServe - Hailey Shanovich (she/they); Rebecca E. Irwin; Tara Cornelisse, PhD
10:34 AM - 10:48 AM Pacific: Agricultural approaches to address the requirements of the Endangered Species Act and non-target pollinators protection. Presenting Author: Daiana De Souza- BASF. Spencer R Mortensen- BASF Corporation - Daiana De Souza; Spencer R Mortensen
10:48 AM - 11:02 AM Pacific: Bee health in a multiple stressor world: Lessons from honey bees. Presenting Author: Amro Zayed- York University - Amro Zayed
11:02 AM - 11:16 AM Pacific: Investigating imperiled bumble bee species distributions and habitat associations. Presenting Author: Morgan E. Christman (she/her/hers)- Louisiana State University. Jonathan Koch- USDA-ARS-PWA-PIRU - Morgan E. Christman (she/her/hers); Jonathan Koch
11:16 AM - 11:30 AM Pacific: Echoes in the Genome: Using ancient and historic DNA to inform conservation of carpenter bees. Presenting Author: Sandara Brasil- Carleton University - Sandara Brasil
11:30 AM - 11:44 AM Pacific: From individual behavior to community stability: Novel strategies for studying pollinator interactions in a changing world. Presenting Author: Marilia Gaiarsa- University of California. Magda Paola Argueta (she/her/hers)- University of California. Baltazar Gonzalez Chavez- University of California Merced. Victoria Salerno (she/her/hers)- University of Wisconsin. Acacia Tang- UW Madison. Jorge Mora- University of California Riverside. Steve Peterson- Foothill Bee Ranch. Quinn McFrederick- University of California, Riverside. James Crall- University of Wisconsin-Madison - Marilia Gaiarsa; Magda Paola Argueta (she/her/hers); Baltazar Gonzalez Chavez; Victoria Salerno (she/her/hers); Acacia Tang; Jorge Mora; Steve Peterson; Quinn McFrederick; James Crall
11:44 AM - 11:58 AM Pacific: Bridging research and practice: Leveraging collaborations with decision makers to effect change. Presenting Author: Laura Lukens- Colorado State University. John Mola- Colorado State University - Laura Lukens; John Mola
11:58 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Blanca M. Guillen (she/her/hers)- University of California - Blanca M. Guillen (she/her/hers)

Title: Radical Metamorphosis: Queer Entomology as a Force for Change

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F149, OCC
Organizers: Vilas Brown (they/them/theirs)- Colorado State University; Jessica L. Ware (she/her/hers)- American Museum of Natural History; Kate Olivia Montana- American Museum of Natural History; Archie-Em Walker- Colorado State University
Categories: Member Symposium; Diversity, Equity, and Inclusion
Abstract: Radical Metamorphosis: Queer Entomology as a Force for Change fosters intergenerational collaboration, connecting queer entomologists to share knowledge, mentorship, and resilience. Through storytelling and collective action, we highlight contributions, navigate challenges, and celebrate queerness as a transformative force, shaping a more inclusive and adaptive future for entomology.
Tracks: Member Symposium; Diversity, Equity, and Inclusion
Presentations:
10:00 AM - 10:05 AM Pacific: Introductory remarks. Presenting Author: Vilas Brown (they/them/theirs)- Colorado State University - Vilas Brown (they/them/theirs)
10:05 AM - 10:17 AM Pacific: Transforming science. Presenting Author: Jessica L. Ware (she/her/hers)- American Museum of Natural History. Jessica L. Ware (she/her/hers)- American Museum of Natural History - Jessica L. Ware (she/her/hers); Jessica L. Ware (she/her/hers)
10:17 AM - 10:29 AM Pacific: Natural History collections are queer. Presenting Author: Christopher Marshall- Oregon State University - Christopher Marshall
10:29 AM - 10:41 AM Pacific: Strength in the swarm: The power of community in my journey as a trans student leader. Presenting Author: Toviah Bass- Rutgers University - Toviah Bass
10:41 AM - 10:53 AM Pacific: Finding kinship among entomologists of the past. Presenting Author: Archie-Em Walker- Colorado State University - Archie-Em Walker

10:53 AM - 11:05 AM Pacific: Queering the academy through trans-disciplinary collaborations. Presenting Author: Jessica Maccaro- University of California - Jessica Maccaro
11:05 AM - 11:17 AM Pacific: Taxonomy, queer labels, and the tension between clarity and complexity. Presenting Author: Christina L. Watkins- University of Central Florida - Christina L. Watkins
11:17 AM - 11:29 AM Pacific: Queer entomology is a continuum: Bridging generations, building futures. Presenting Author: Vilas Brown (they/them/theirs)- Colorado State University - Vilas Brown (they/them/theirs)
11:29 AM - 11:45 AM Pacific: Panel discussion Panelist: Lauren Esposito, PhD- California Academy of Sciences Panelist: Kate Olivia Montana- American Museum of Natural History -
11:45 AM - 11:50 AM Pacific: Closing remarks. Presenting Author: Vilas Brown (they/them/theirs)- Colorado State University - Vilas Brown (they/them/theirs)

Title: Science Policy Fellows Training (Invitation Only)

Time: **10:00 AM - 12:00** PM Pacific
Location: Hyatt Regency Portland, Columbia 3, Hyatt
Organizers: Erin Cadwalader- Entomological Society of America
Categories: Meetings & Events; Committee Meeting; Science Policy
Tracks: Meetings & Events; Committee Meeting; Science Policy

Title: 10-min: FIT, Extension and Biodiversity

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers:
Categories: 10-Minute Presentation; Formal and Informal Teaching
Tracks: 10-Minute Presentation; Formal and Informal Teaching
Presentations:
10:00 AM - 10:12 AM Pacific: Connecting fieldwork and coursework: Course-based research on the nesting biology of Andrena regularis in northern Minnesota. Presenting Author: Matthew Petersen- University of Minnesota. Sarah Carlson- University of Minnesota, Twin-Cities. Anna Dennis- University of Minnesota, Twin-Cities. Jesse Depass- University of Minnesota, Twin-Cities. Kaya Eklund- University of Minnesota, Twin-Cities. Althea Kuzniewski- University of Minnesota, Twin-Cities. Michael Leehan- University of Minnesota, Twin-Cities. Meghan Lysaght- University of Minnesota, Twin-Cities. Hazel McKinney- University of Minnesota, Twin-Cities. Jazper Simonson- University of Minnesota, Twin-Cities - Matthew Petersen; Sarah Carlson; Anna Dennis; Jesse Depass; Kaya Eklund; Althea Kuzniewski; Michael Leehan; Meghan Lysaght; Hazel McKinney; Jazper Simonson
10:12 AM - 10:24 AM Pacific: Echoes of the Earth: A young composer's ode to insects, endangered species, and the Salt Creek tiger beetle. Presenting Author: Winston F. Schneider - Winston F. Schneider
10:24 AM - 10:36 AM Pacific: New Bee-ginnings and pathways: Creating a pollinator extension program. Presenting Author: Briana Price (she/her/hers)- Washington State University - Briana Price (she/her/hers)
10:36 AM - 10:48 AM Pacific: Protecting endangered and threatened insects: The insecticide strategy and the monarch butterfly listing decision. Presenting Author: Michael Zhao- University of Maryland. Niranjana Krishnan (she/her/hers)- University of Maryland - Michael Zhao; Niranjana Krishnan (she/her/hers)
10:48 AM - 11:00 AM Pacific: Teaching volunteers insect identification to improve client outcomes. Presenting Author: Kaydie G. McCormick- University of Florida - Kaydie G. McCormick
11:00 AM - 11:12 AM Pacific: The changing landscape of ethical oversight for entomological research. Presenting Author: Bob Fischer (he/him/his)- Texas State University - Bob Fischer (he/him/his)
11:12 AM - 11:24 AM Pacific: The forgotten fauna: Public perceptions, narratives, and the future of insect conservation in New Zealand. Presenting Author: Julia Einaudi- Lewis and Clark College - Julia Einaudi
11:24 AM - 11:36 AM Pacific: Using collections for student professional development: Examples from Texas Tech University. Presenting Author: Jennifer C. Girn- Museum of Texas Tech University - Jennifer C. Girn
11:36 AM - 11:48 AM Pacific: Decomposer insect communities in the Nebraska Sandhills. Presenting Author: Amanda L. Roe, BCE- College of Saint Mary - Amanda L. Roe, BCE

Title: 10-min: PBT, Physiology

Time: **10:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, F152, OCC
Organizers:
Categories: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Tracks: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology

Presentations:
10:00 AM - 10:12 AM Pacific: Buns in the oven: Egg incubation temperature dramatically shifts development rate of farmed Acheta domesticus. Presenting Author: Matthew J. Muzzatti- Cornell University. Jacinta D. Kong- Carleton University. Heath A. MacMillan- Carleton University. Brent J. Sinclair- Cornell University - Matthew J. Muzzatti; Jacinta D. Kong; Heath A. MacMillan; Brent J. Sinclair
10:12 AM - 10:24 AM Pacific: Characterization of testis-specific heat shock proteins in the spruce budworm, Choristoneura fumiferana. Presenting Author: Guoxing Quan, PhD- Great Lakes Forestry Centre. Soares Hannah- GLFC, CFS - Guoxing Quan, PhD; Soares Hannah
10:24 AM - 10:36 AM Pacific: Down with the sickness: How does population density affect immune strategies and migratory ability of migratory locusts?. Presenting Author: Sydney Millerwise (she/her/hers)- Arizona State University. Christina Tran- Arizona State University. Stephanie Nunez- Arizona State University. Sawyer Caruso- Arizona State University. Jonah Brosemann- USDA-APHIS. Rick Overson- Arizona State University. Jon Harrison- Arizona State University. Arianne Cease- Arizona State University - Sydney Millerwise (she/her/hers); Christina Tran; Stephanie Nunez; Sawyer Caruso; Jonah Brosemann; Rick Overson; Jon Harrison; Arianne Cease
10:36 AM - 10:48 AM Pacific: Effects of controlled atmosphere with ultralow oxygen on survival of spotted wing drosophila in blueberries and cherries. Presenting Author: Yong-Biao Liu (he/him/his)- USDA-ARS - Yong-Biao Liu (he/him/his)
10:48 AM - 11:00 AM Pacific: Frequency-dependent electromagnetic field absorption in insects from 2.5 to 100 GHz: A numerical simulation-based assessment. Presenting Author: Vera Jeladze- Institute of Cybernetics of the GTU. Tamar Nozadze- Ivane Javakhishvili Tbilisi State University. Besarion Partsvania- Institute of Cybernetics of the Georgian Technical University - Vera Jeladze; Tamar Nozadze; Besarion Partsvania
11:00 AM - 11:12 AM Pacific: Mismatched mitochondrial genes and their impact on mitochondrial function. Presenting Author: Joshua Gibson- Georgia Southern University. John Werren- University of Rochester. Julie Kessler- Georgia Southern University. Samantha McGinn- Georgia Southern University - Joshua Gibson; John Werren; Julie Kessler; Samantha McGinn
11:12 AM - 11:24 AM Pacific: RNA interference in Diaprepes abbreviatus: A tool for functional genomics and identification of potential pest management targets. Presenting Author: Tejbhan Saini- University of Florida. Nabil Killiny- University of Florida - Tejbhan Saini; Nabil Killiny
11:24 AM - 11:36 AM Pacific: Warmer temperature and aging interact to modify nitric oxide synthase activity in immune-challenged mosquitoes. Presenting Author: Julin F. Hillyer- Vanderbilt University. Lindsay E. Martin (she/her/hers)- Vanderbilt University. Tania Y. Estevez-Lao- Vanderbilt University. Norbu Shastri- Vanderbilt University. Seokin Yang (he/him/his)- Vanderbilt University - Julin F. Hillyer; Lindsay E. Martin (she/her/hers); Tania Y. Estevez-Lao; Norbu Shastri; Seokin Yang (he/him/his)
11:36 AM - 11:48 AM Pacific: When the petri dish isn't enough: The ecological limits of in vitromicrobial findings in insect systems. Presenting Author: Brittany Faye Peterson (she/her/hers)- Southern Illinois University Edwardsville. Alyssa Culver- Southern Illinois University Edwardsville. Joseph Antwi- Southern Illinois University Edwardsville - Brittany Faye Peterson (she/her/hers); Alyssa Culver; Joseph Antwi

Title: Night Watch on Autopilot: Innovations in Automated Nocturnal Insect Monitoring

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E145, OCC
Organizers: Joseph M. Elias (he/him/his)- Binghamton University; Laurel Symes- Cornell University
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Machine Learning and AI
Abstract: Automated monitoring increases the capability for much needed long-term monitoring initiatives. Attendees will learn about the development and deployment of devices, research significance for different insect groups, and the use of machine learning/AI for identification. All those interested are encouraged to attend regardless of familiarity or experience in the subject.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Machine Learning and AI
Presentations:
10:30 AM - 10:43 AM Pacific: How to test for insect declines?. Presenting Author: Matt Ayres (he/him/his)- Dartmouth College - Matt Ayres (he/him/his)
10:43 AM - 10:56 AM Pacific: Illuminating patterns of firefly abundance using citizen science data and machine learning models. Presenting Author: Darin J. McNeil, Jr. (he/him/his)- University of Kentucky. Sarah Goslee- USDA-ARS. Melanie Kammerer- USDA-ARS. Sarah Lower- Bucknell University. John Tooker- Pennsylvania State University. Christina Grozinger- Pennsylvania State University - Darin J. McNeil, Jr. (he/him/his); Sarah Goslee; Melanie Kammerer; Sarah Lower; John Tooker; Christina Grozinger

10:56 AM - 11:09 AM Pacific: The rules of nocturnal insect migration vary with latitude and season: a case study in radar monitoring. Presenting Author: Elske Tielens (she/her/hers)- Swiss Federal Institute for Forest, Snow, and Landscape - Elske Tielens (she/her/hers)
11:09 AM - 11:22 AM Pacific: Advances in monitoring flying Insects with photonic sensors. Presenting Author: Topu Saha (he/him/his)- New Jersey Institute of Technology. Adrien Genoud, Postdoctoral Fellow- Institute of Light and Matter, Claude Bernard University. Benjamin Thomas- New Jersey Institute of Technology - Topu Saha (he/him/his); Adrien Genoud, Postdoctoral Fellow; Benjamin Thomas
11:22 AM - 11:32 AM Pacific: Break -
11:32 AM - 11:45 AM Pacific: The Mothitor: Fostering learning and connection via automated moth monitoring. Presenting Author: Mariana Abarca (she/her/hers)- Smith College. Pablo Frank-Bolton- Smith College. Susanah Howe- Smith College. Nick Howe- Smith College. Robert P. Guralnick, Ph.D.- Florida Museum of Natural History. Allen Hurlbert- University of North Carolina - Mariana Abarca (she/her/hers); Pablo Frank-Bolton; Susanah Howe; Nick Howe; Robert P. Guralnick, Ph.D.; Allen Hurlbert
11:45 AM - 11:58 AM Pacific: Diamondback moths more attracted to light than food in lab experiments. Presenting Author: Md Saiful Islam (he/him/his)- Harvard University - Md Saiful Islam (he/him/his)
11:58 AM - 12:11 PM Pacific: Antenna: A collaborative platform for automated insect monitoring. Presenting Author: Michael James Bunsen- Mila - Quebec Artificial Intelligence Institute. Anna Viklund, n/a- Mila - Quebec Artificial Intelligence Institute. Andre Poremski, n/a- Fieldguide.ai. Maxim Larrivee, n/a- Montreal Insectarium. David Rolnick, n/a- Mila - Quebec Artificial Intelligence Institute. Kent McFarland, n/a- Vermont Center for Ecostudies - Michael James Bunsen; Anna Viklund, n/a; Andre Poremski, n/a; Maxim Larrivee, n/a; David Rolnick, n/a; Kent McFarland, n/a
12:11 PM - 12:24 PM Pacific: Bugs in the system: Passive acoustic monitoring of tropical rainforest insect communities. Presenting Author: Laurel Symes- Cornell University. Shyam Madhusudhana- Cornell University. Sharon Martinson- Dartmouth College. Eduardo Navarro-Valencia- Smithsonian Tropical Research Institute. Hannah TerHofstede- University of Windsor - Laurel Symes; Shyam Madhusudhana; Sharon Martinson; Eduardo Navarro-Valencia; Hannah TerHofstede

Title: Be My Mutualist? An Interdisciplinary Approach to Exploring Ant-Hemiptera Interactions

Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers: Meredith June Willmott (she/her/hers)- University of Arizona; Solomon Hendrix (he/him/his)- University of Arizona
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Abstract: Which came first, the trophobiotic organ or the ant? Conceptually founded in the field of mutualism ecology, this symposium combines ant and hemipteran research (and researchers!) to reveal the connection between species interactions and phenotype. Create mutualisms with the scientists around you to understand the interactions between your respective taxa.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Presentations:
10:30 AM - 10:45 AM Pacific: Introductory remarks. Presenting Author: Meredith June Willmott (she/her/hers)- University of Arizona - Meredith June Willmott (she/her/hers)
10:45 AM - 11:00 AM Pacific: Examining vibrational signaling in treehopper-ant mutualisms. Presenting Author: Rebecca Carranza- University of Illinois - Rebecca Carranza
11:00 AM - 11:15 AM Pacific: Exploring the role of substrate-borne vibrations in the treehopper-ant mutualism. Presenting Author: Jonathan Bowles- University of Missouri. Reginald Cocroft- University of Missouri - Jonathan Bowles; Reginald Cocroft
11:15 AM - 11:30 AM Pacific: Ant dominance shapes ecology and colour-morphology evolution in Colombian lowland ant-treehopper networks. Presenting Author: Camilo Flrez Valencia- Pennsylvania State University. Reuber Antoniazza- Stephen F. Austin State University. Julie Urban- Pennsylvania State University. Olivia Evangelista- Universidade Federal do Paran - Camilo Flrez Valencia; Reuber Antoniazza; Julie Urban; Olivia Evangelista
11:30 AM - 11:45 AM Pacific: Observations on ants tending putative vectors of palm lethal decline phytoplasmas. Presenting Author: Brian Bahder- Fort Lauderdale Research and Education Center - Brian Bahder
11:45 AM - 12:05 PM Pacific: Panel discussion –

Title: Publishing with the Entomological Society of America

Time: **10:30 AM - 12:30** PM Pacific

Location: Oregon Convention Center, A106, OCC
Organizers: David B. Taylor (he/him/his)- Journal of Medical Entomogy; Nan-Yao Su- University of Florida; Sankara Ganesh- University of Florida
Categories: Workshop; Early Career; Professional Development; Publications; Student
Abstract: Learn about the process of submitting a manuscript to ESA journals, get tips on how to write effectively for peer-reviewed journals and meet the Editors and publication staff for the ESA journals.
Tracks: Workshop; Early Career; Professional Development; Publications; Student

Title: Public Health Entomology for All: Abstract Writing for Success
Time: **10:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Meaghan-Li Mcardle- Entomological Society of America; Jerry Champion Jr- Entomological Society of America
Categories: Workshop; Early Career; Professional Development; Student
Abstract: Struggling to craft a clear, compelling abstract? Join experts from diverse fields as they share insights on successful abstract writing for conferences, grants, and publications. This interactive workshop includes hands-on feedback and real-time revisions, ensuring that you leave with real strategies and a stronger more polished abstract!
Tracks: Workshop; Early Career; Professional Development; Student

Title: Tour: Tualatin Valley Farm-to-Table and Vino Indulgences
Time: **10:30 AM - 4:30** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: This tour combines the best of the Tualatin Valley's wine and culinary scene, focusing on Tualatin Valley wines and farm-fresh cuisine. Participants will enjoy tastings at renowned local wineries and a delicious meal featuring seasonal ingredients. Washington County Area Wineries: David Hill Winery (Forest Grove, OR): Known for its historic charm and excellent wines, including a crisp rose. Participants will enjoy a tasting in their beautiful tasting room. Alloro (Sherwood, OR): Tuscany-inspired winery with a focus on terroir-driven wines, including Pinot Noir, Chardonnay, Riesling, and Muscat. They also produce sparkling wines and a Bianco di Nero (white wine made from Pinot Noir)Ponzi Vineyards (Beaverton, OR): A pioneering winery in the region, known for its high-quality Pinot Noir and rose. Participants will experience a tasting of their rose and other select wines Other possible wineries are Oak Knoll or Kramer Vineyards. Cost: $245 per person (lunch included) maximum 20 participants Includes: Transportation, all tasting fees, A farm-to-table winery lunch featuring seasonal ingredients and Tualatin Valley wine pairings, canned water.You may purchase additional wines to bring home.
Tracks: Meetings & Events

Tuesday, November 11, 2025

Title: Entomology Games Committee Meeting
Time: **11:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, G130, OCC
Organizers: Cindy E. Myers- Entomological Society of America; Ashley Kennedy, BCE (she/her/hers)- Delaware Division of Fish & Wildlife Mosquito Control
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: International Union for the Study of Social Insects, North American Section Business Meeting
Time: **12:00 PM - 1:30** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Michael Simone-Finstrom- USDA-ARS; Clare Rittschof- University of Kentucky; Anna Dornhaus- University of Arizona
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Bugs, Beads & BYO Lunch: Free Friendship Bracelet Social for Grad and Undergrad Ento Students
Time: **12:00 PM - 2:30** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers: Alexis Alsdorf- North Carolina State University; Rupinder Singh (he/him/his)- Kansas State University; Alexander Harman- Santa Barbara Museum of Natural History; Emily L. Ta (she/her/hers)- University of California
Categories: Meetings & Events; Exhibit Hall; Student
Tracks: Meetings & Events; Exhibit Hall; Student

Title: Moderator Training
Time: **12:30 PM - 1:00** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America
Categories: General; Moderator Training
Abstract: All moderators and session organizers are required to attend one of the moderator training sessions. Here you will receive details on equipment operation, light controls, and other responsibilities. Training sessions will be held during the following times: Saturday, November 8 4-**4:30** p.m. Sunday, November 9 7-**7:30** a.m. and **12:30**-1 p.m. Monday, November 10 7-**7:30** a.m. Tuesday, November 11 7-**7:30** a.m. and **12:30**-1 p.m.
Tracks: General; Moderator Training

Title: Science Policy Committee Meeting
Time: **1:00 PM - 2:00** PM Pacific
Location: Hyatt Regency Portland, Columbia 3, Hyatt
Organizers: Erin Cadwalader- Entomological Society of America
Categories: Meetings & Events; Committee Meeting; Science Policy
Tracks: Meetings & Events; Committee Meeting; Science Policy

Title: Q&A with Poster Presenters
Time: **1:00 PM - 2:00** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers:
Categories: Meetings & Events; Exhibit Hall
Abstract: Poster Display Presentation Times: Because the Exhibit Hall becomes quite congested during presentation hours, presenters of poster displays with odd and even numbers are assigned specific times to be present at their posters. Presenters are expected to be available at their displays during the "Authors Present" time slot for questions and discussion.Tuesday, November 12 (Contributed & Non-Competition Student Poster Displays)Setup: Tuesday, 8-9 a.m. Viewing: Tuesday, 9 a.m. - 5 p.m. Authors Present: Posters with odd numbers: 1-**1:30** p.m. ; Posters with even numbers: **1:30**-2 p.m. Takedown: Tuesday, 5-**5:30** p.m.
Tracks: Meetings & Events; Exhibit Hall

Title: Collaborative Publication Program Meeting
Time: **1:30 PM - 2:30** PM Pacific
Location: Oregon Convention Center, G131, OCC
Organizers: Kushal Naharki (he/him/his)- West Virginia University; Michelle G. Au- University of Hawaii; Sabita Ranabhat- Kansas State University; Judical Fomekong-Lontchi- Brigham Young University; Alexis Alsdorf- North Carolina State University; Yinuo Jiang- Ben Lippen School; Sankara Ganesh- University of Florida; Rupinder Singh (he/him/his)- Kansas State University
Categories: Meetings & Events; Publications; Student
Tracks: Meetings & Events; Publications; Student

Title: Diverse Partnerships for Pollinator Conservation
Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers: Lora Morandin- Pollinator Partnership; Andony Melathopoulos- Oregon State University
Categories: Member Symposium; Plant-Insect Ecosystems

Abstract: Scientists are not always adept at translating scientific information for non-scientists and inspiring action. Attendees will learn about creative partnerships that work across sectors to increase pollinator support in many landscapes. Ideas for engaging in new partnerships and expanding action, outside of the science and conservation community, will be highlighted.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:33 PM Pacific: Introductory remarks. Presenting Author: Lora Morandin- Pollinator Partnership - Lora Morandin
1:33 PM - 1:48 PM Pacific: Characterization of state and provincial bee faunas with volunteer Master Melittologists. Presenting Author: Andony Melathopoulos- Oregon State University. Lincoln Best- Oregon State University. Olivia Carril. Karen W. Wright- Washington State Department of Agriculture. Bonnie Zand- Native Bee Society of BC - Andony Melathopoulos; Lincoln Best; Olivia Carril; Karen W. Wright; Bonnie Zand
1:48 PM - 2:03 PM Pacific: Clark Public Utilities' pollinator Project -A continued commitment to environmental stewardship and community. Presenting Author: Michael O'Loughlin (he/him/his)- Clark Public Utilities - Michael O'Loughlin (he/him/his)
2:03 PM - 2:18 PM Pacific: Helping farmers support pollinators: Science-based practices driving forage programs. Presenting Author: Marta Guarna- Project Apis m.. Danielle Downey- Project Apism. Stetcyn Maldonado- Project Apism. Priya Chakrabarti Basu (she/her/hers)- Washington State University. Diana Cox-Foster- USDA-ARS - Marta Guarna; Danielle Downey; Stetcyn Maldonado; Priya Chakrabarti Basu (she/her/hers); Diana Cox-Foster
2:18 PM - 2:33 PM Pacific: Toyota's pollinator friendly places initiative. Presenting Author: Becky Martin- Toyota Motor North America - Becky Martin
2:33 PM - 2:43 PM Pacific: Break -
2:43 PM - 2:58 PM Pacific: Pollinators, partners, pesticides and food Production - Progress in the ag landscape. Presenting Author: Timothy Fredricks- Bayer Crop Science - Timothy Fredricks
2:58 PM - 3:13 PM Pacific: Lessons from 10 Years of industry collaboration in the Rights-of-Way Habitat Working Group. Presenting Author: Dan Salas- University of Illinois - Dan Salas
3:13 PM - 3:28 PM Pacific: Collaborative continental framework for pollinator conservation. Presenting Author: Kelly Bills- Pollinator Partnership - Kelly Bills
3:28 PM - 3:30 PM Pacific: Closing remarks. Presenting Author: Lora Morandin- Pollinator Partnership - Lora Morandin

Title: Education and Outreach Committee Meeting
Time: **2:00 PM - 3:00** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Rosina Romano, CMP, DES- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Awards and Honors Committee Meeting
Time: **2:00 PM - 3:00** PM Pacific
Location: Oregon Convention Center, G130, OCC
Organizers: Cindy E. Myers- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Staphylinidae--This Way Madness Lies
Time: **2:00 PM - 4:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers: Michael L. Ferro- Clemson University Arthropod Collection
Categories: Member Symposium; Systematics, Evolution, and Biodiversity
Abstract: Caution! Staphylinidae are highly addictive and amazingly useful. They are the world's largest family (63,000+ species; systematics), ubiquitous across the terrestrial landscape (land use, landscape ecology, climate change), contain hundreds of myrmecophiles (evolution!), and thousands of undescribed species (taxonomy). Join us as we learn about the most interesting beetles around.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity
Presentations:

2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Michael L. Ferro- Clemson University Arthropod Collection - Michael L. Ferro
2:05 PM - 2:20 PM Pacific: The crazy world of Plociopterus (Xanthopygina). Presenting Author: Stylianos Chatzimanolis- University of Tennessee - Stylianos Chatzimanolis
2:20 PM - 2:35 PM Pacific: Beetles that bend: Convergence, post-imaginal growth, and symbiosis in termitophilous Aleocharinae. Presenting Author: Jordan Rainey- University of South Bohemia - Jordan Rainey
2:35 PM - 2:50 PM Pacific: The "madness" embedded in historical selection of characters to support the higher classification of Pselaphinae (Coleoptera: Staphylinidae). Presenting Author: Donald Chandler- University of New Hampshire - Donald Chandler
2:50 PM - 3:05 PM Pacific: Burying beetle biogeography (Staphylinidae: Silphinae). Presenting Author: Derek Sikes- University of Alaska - Derek Sikes
3:05 PM - 3:20 PM Pacific: Comparative phylogeography of Southern Appalachian sky-island endemics. Presenting Author: Adam Haberski- Mississippi Entomological Museum - Adam Haberski
3:20 PM - 3:35 PM Pacific: Tachinus of Wisconsin (Staphylinidae: Tachyporinae). Presenting Author: Ann Marsh- University of Wisconsin - Ann Marsh
3:35 PM - 3:40 PM Pacific: Closing remarks. Presenting Author: Michael L. Ferro- Clemson University Arthropod Collection - Michael L. Ferro

Title: Lessons in IPM: What Has Been Learned from Experience and Gained from Innovations

Time: **2:00 PM - 4:00** PM Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers: Janine M. Spies- Rutgers University; Lorena Lopez- North Carolina State University
Categories: Member Symposium
Abstract: Specialists nationwide will present on IPM programs for economic pests in specialty crops. Presentations will provide a historical perspective on the pest problem(s) with a focus on successful strategies implemented, challenges and obstacles to maintaining an IPM program, and a look to new technology and innovation.
Tracks: Member Symposium
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Janine M. Spies- Rutgers University - Janine M. Spies
2:05 PM - 2:20 PM Pacific: Challenges and opportunities for mite management in strawberries. Presenting Author: Lorena Lopez- North Carolina State University - Lorena Lopez
2:20 PM - 2:35 PM Pacific: Innovating New Jersey fruit IPM programs through invasive species management. Presenting Author: Anne Nielsen- Rutgers University - Anne Nielsen
2:35 PM - 2:50 PM Pacific: Using interdisciplinary research and stakeholder engagement to rebuild IPM of a keystone pest of fruit crops, Drosophila suzukii. Presenting Author: Hannah Levenson- North Carolina State University - Hannah Levenson
2:50 PM - 3:05 PM Pacific: Developing an integrated pest management program for melonworm (Diaphania hyalinata) in Midsouth pumpkin production. Presenting Author: Aaron Cato- University of Arkansas - Aaron Cato
3:05 PM - 3:20 PM Pacific: We are the innovators: Biological control in Washington tree fruit. Presenting Author: Rebecca Schmidt-Jeffris- USDA-ARS - Rebecca Schmidt-Jeffris
3:20 PM - 3:35 PM Pacific: Innovations and challenges in floricultural IPM. Presenting Author: Juang-Horng Chong- SePRO Corporation - Juang-Horng Chong
3:35 PM - 3:55 PM Pacific: Panel discussion -
3:55 PM - 4:00 PM Pacific: Closing remarks. Presenting Author: Janine M. Spies- Rutgers University - Janine M. Spies

Title: Gene Drives: Transforming Pest Management for the Future

Time: **2:00 PM - 4:00** PM Pacific
Location: Oregon Convention Center, F150, OCC
Organizers: Amit Sethi- Corteva Agriscience; Daniela Pezzini- Bayer Crop Science
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Abstract: Explore the transformative potential of gene drives in pest management. Attendees will gain insights into cutting-edge innovations, practical applications, and ethical considerations from leading experts. Join us for a dynamic session that bridges generations with groundbreaking research and collaborative solutions for sustainable pest control.

Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Amit Sethi- Corteva Agriscience - Amit Sethi
2:05 PM - 2:25 PM Pacific: Gene drive technology: Foundations and historical milestones. Presenting Author: Wakanene Kamau- Massachusetts Institute of Technology - Wakanene Kamau
2:25 PM - 2:45 PM Pacific: Gene drives in vector control: Current progress and pathway to impact?. Presenting Author: Michael Santos- Foundation for the National Institutes of Health - Michael Santos
2:45 PM - 3:05 PM Pacific: Gene-drive systems for population modification of mosquito vectors of human malaria. Presenting Author: Anthony James- University of California - Anthony James
3:05 PM - 3:15 PM Pacific: Break -
3:15 PM - 3:35 PM Pacific: Genetic suppression of cage populations of spotted wing drosophila using gene drive. Presenting Author: Maxwell J. Scott (he/him/his)- North Carolina State University - Maxwell J. Scott (he/him/his)
3:35 PM - 3:55 PM Pacific: Friendly technology for scalable biocontrol of pests. Presenting Author: Kelly Matzen - Kelly Matzen
3:55 PM - 4:00 PM Pacific: Closing remarks. Presenting Author: Amit Sethi- Corteva Agriscience - Amit Sethi

Tuesday, November 11, 2025

Title: Environmental Impacts on Mosquito Biology and Vector-Borne Pathogen Transmission

Time: **2:00 PM - 4:00** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers: Chris Stone- Illinois Natural History Survey; Jiayue (Gabriel) Yan (he/him/his)- University of Illinois
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: This symposium will explore how environmental factors like climate change, urbanization, and land use affect mosquito biology and disease transmission. Attendees will gain insights into how these changes influence mosquito behavior, breeding, and vector competence, helping to inform better strategies for mosquito control and disease prevention.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Chris Stone- Illinois Natural History Survey - Chris Stone
2:05 PM - 2:20 PM Pacific: Bright lights, hot nights: Urbanization disrupts seasonal timing in mosquitoes and potentially prolongs WNV transmission. Presenting Author: Megan E. Meuti, PhD (she/her/hers)- The Ohio State University. Lydia Fyie- University of Maine. Anna Grimenstein- The Ohio State University. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University - Megan E. Meuti, PhD (she/her/hers); Lydia Fyie; Anna Grimenstein; Mary M. Gardiner, M.S., Ph.D. (she/her/hers)
2:20 PM - 2:35 PM Pacific: Hog wild: Mosquitoes using invasive feral swine wallows as larval habitat and implications for pathogen transmission. Presenting Author: Dan Peach- University of Georgia - Dan Peach
2:35 PM - 2:50 PM Pacific: Current and projected drivers of West Nile virus in the United States. Presenting Author: Samantha Sambado- Stanford University - Samantha Sambado
2:50 PM - 3:05 PM Pacific: Tick-borne disease in a dynamic landscape: Does exposure risk change over time?. Presenting Author: Derek McFarland- University of Illinois - Derek McFarland
3:05 PM - 3:15 PM Pacific: Break -
3:15 PM - 3:30 PM Pacific: The impact of mosquito nutrition on Wolbachia-mediated pathogen blocking. Presenting Author: Eric P. Caragata- University of Florida - Eric P. Caragata
3:30 PM - 3:45 PM Pacific: Rapid evolution of vectorial capacity in the dengue and Zika mosquito in urban West Africa. Presenting Author: Noah Rose- University of California - Noah Rose
3:45 PM - 4:00 PM Pacific: One species or two? Phylogenomic insights into environment-linked life cycle divergence in a Palearctic Hyalomma tick. Presenting Author: Arif Ciloglu (he/him/his)- Erciyes University - Arif Ciloglu (he/him/his)

Title: Applications of Species Occupancy Models to Insect Population Research and Monitoring

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, F149, OCC
Organizers: Clint Otto (he/him/his)- US Geological Survey; Hollis Woodard (she/her/hers)- University of California
Categories: Member Symposium

Abstract: Do entomologists care about imperfect detection when collecting species presence/absence data? Occupancy models have been widely applied to vertebrate research but have seen limited application in entomology. This symposium will demonstrate the utility of occupancy models to entomological research and monitoring and serve as a catalyst for future applications.
Tracks: Member Symposium
Presentations:
2:00 PM - 2:20 PM Pacific: Why you should consider applying species occupancy models to bee research and monitoring. Presenting Author: Clint Otto (he/him/his)- US Geological Survey. Hollis Woodard (she/her/hers)- University of California. Larissa Bailey- Colorado State University - Clint Otto (he/him/his); Hollis Woodard (she/her/hers); Larissa Bailey
2:20 PM - 2:40 PM Pacific: Using occupancy models to inform Endangered Species Act listing decisions. Presenting Author: Tabitha Graves (she/her/hers)- US Geological Survey - Tabitha Graves (she/her/hers)
2:40 PM - 3:00 PM Pacific: Harnessing community science to estimate native bumble bee distributions and monitor occupancy trends. Presenting Author: Staci Amburgey- Washington Department of Fish and Wildlife. Taylor Cotten- WDFW Department of Fish and Wildlife. Julie Combs- Washington Department of Fish and Wildlife. Joel Sauder- Idaho Fish Game. Molly Martin- Xerces Society. Rich Hatfield- Xerces Society for Invertebrate Conservation. Sarina Jespen- Xerces society - Staci Amburgey; Taylor Cotten; Julie Combs; Joel Sauder; Molly Martin; Rich Hatfield; Sarina Jespen
3:00 PM - 3:20 PM Pacific: Using occupancy-detection models to reconstruct historical butterfly and moth communities in the face of global change. Presenting Author: Vaughn Shirey- Florida Museum of Natural History - Vaughn Shirey
3:20 PM - 3:35 PM Pacific: Break -
3:35 PM - 3:55 PM Pacific: Occupancy surveys and uncovering range-wide patterns of gall wasp diversity in oaks. Presenting Author: Ian Pearse- US Geological Survey - Ian Pearse
3:55 PM - 4:15 PM Pacific: Measuring pollinator populations using environmental DNA and net-derived observations within an integrated occupancy modelling framework. Presenting Author: Rodney Richardson- Western EcoSystems Technology, Inc.. Karen Goodell (she/her/hers)- The Ohio State University - Rodney Richardson; Karen Goodell (she/her/hers)
4:15 PM - 4:35 PM Pacific: Road to recovery? Occupancy trends and counts of an endangered bumble bee provide conflicting evidence. Presenting Author: Kristen Ellis- US Geological Survey. Clint Otto (he/him/his)- US Geological Survey. Larissa Bailey- Colorado State University. Tamara Smith- United States Fish and Wildlife Service. Steven Choy- US Fish and Wildlife Service. Lauren Hatch- University of Montana - Kristen Ellis; Clint Otto (he/him/his); Larissa Bailey; Tamara Smith; Steven Choy; Lauren Hatch
4:35 PM - 4:55 PM Pacific: Using pilot data to inform the design of a monitoring program for Bombus affinis. Presenting Author: Oscar Martinez Lopez, PhD- University of California. Kristen Ellis- US Geological Survey. Hollis Woodard (she/her/hers)- University of California. Ian Pearse- US Geological Survey - Oscar Martinez Lopez, PhD; Kristen Ellis; Hollis Woodard (she/her/hers); Ian Pearse
4:55 PM - 5:00 PM Pacific: Closing remarks. Presenting Author: Clint Otto (he/him/his)- US Geological Survey - Clint Otto (he/him/his)

Title: Vectors Under Pressure: Climate Change, Host Shifts, and Emerging Pathogens

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, D135, OCC
Organizers: Kerry Mauck- University of California; Pol Sarkar (she/her/hers)- University of California
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: This symposium explores the impact of climate change on vector-borne diseases, focusing on host shifts, pathogen adaptation, and transmission dynamics. Attendees will gain insights into innovative research on emerging threats, vector microbiomes, and disease mitigation strategies, while engaging with early-career researchers at the front line of these challenges.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Pol Sarkar (she/her/hers)- University of California - Pol Sarkar (she/her/hers)
2:05 PM - 2:25 PM Pacific: Potential insect vectors of citrus yellow vein clearing virus in Southern California. Presenting Author: Pol Sarkar (she/her/hers)- University of California. Sean Halloran- University of California, Riverside. Bodil Cass- University of California. Kerry Mauck- University of California - Pol Sarkar (she/her/hers); Sean Halloran; Bodil Cass; Kerry Mauck

2:25 PM - 2:45 PM Pacific: Aphid bacterial endosymbionts : Exploring their role in plant virus transmission. Presenting Author: Trisna Tungadi- Keele University. Tom Foster- School of Life Sciences, Keele University, Keele, UK. Dan Tonge- School of Life Sciences, Keele University, Keele, UK. Tom Pope- Harper Adams University, Newport, UK. Joe Roberts- Harper Adams University, Newport, UK - Trisna Tungadi; Tom Foster; Dan Tonge; Tom Pope; Joe Roberts
2:45 PM - 3:05 PM Pacific: Advances in understanding the transmission and epidemiology of the first whitefly-transmitted Polerovirus in pepper. Presenting Author: Murad Ghanim- Agricultural Research Organization. Carmit Ziv- Volcani Center. Benaya Zini- Volcani Center - Murad Ghanim; Carmit Ziv; Benaya Zini
3:05 PM - 3:15 PM Pacific: Break -
3:15 PM - 3:35 PM Pacific: Candidatus Liberibacter asiaticus exerts pressure onDiaphorina citri, leading to alterations in its behavior and physiology. Presenting Author: Nabil Killiny- University of Florida - Nabil Killiny
3:35 PM - 3:55 PM Pacific: Whitefly- and thrips-transmitted viruses as a rising challenge for soybean production in Brazil. Presenting Author: Renate Krause Sakate- So Paulo State University - Renate Krause Sakate
3:55 PM - 4:15 PM Pacific: Sourcing the strains: Aster yellows and leafhopper migration. Presenting Author: Tyler Wist- Agriculture and Agri-Food Canada - Tyler Wist
4:15 PM - 4:30 PM Pacific: Panel discussion –

Title: Three Suborders, One Goal: Advancing Systematics of Hemiptera

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, B115, OCC
Organizers: Christiane Weirauch (she/her/hers)- University of California; Christopher Owen- USDA-ARS; Solomon Hendrix (he/him/his)- University of Arizona; Paul Masonick- Florida Museum of Natural History
Categories: Member Symposium; Systematics, Evolution, and Biodiversity
Abstract: Hemiptera is a large and economically important order, but systematic research on the three suborders has historically been conducted in isolation. This symposium will bridge generations and inspire students while highlighting research on phylogenetics, comparative morphology, and taxonomy, spanning all aspects of systematics.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Christiane Weirauch (she/her/hers)- University of California - Christiane Weirauch (she/her/hers)
2:05 PM - 2:20 PM Pacific: Evolving diets, emerging patterns: Phylogenetics of plant bugs (Hemiptera: Miridae). Presenting Author: Christiane Weirauch (she/her/hers)- University of California. Veronica Tyts (she/her/hers)- University of California. Rochelle Hoey-Chamberlain- University of California, Riverside. Mark Stukel- University of California. Sarah Elise Schroeder- University of California. MC Fox (they/them/theirs)- University of California. Michael Forthman- California Department of Food and Agriculture. Jason E. Bond- University of California - Christiane Weirauch (she/her/hers); Veronica Tyts (she/her/hers); Rochelle Hoey-Chamberlain; Mark Stukel; Sarah Elise Schroeder; MC Fox (they/them/theirs); Michael Forthman; Jason E. Bond
2:20 PM - 2:35 PM Pacific: A genome perspective of aphid phylogeny and evolution. Presenting Author: Christopher Owen- USDA-ARS - Christopher Owen
2:35 PM - 2:50 PM Pacific: Phylogenomic insights into the evolution and biogeography of global Cicadidae. Presenting Author: Mark Stukel- University of California. Nicholas Matzke- University of Auckland. Chris Simon- Univ Of Connecticut - Mark Stukel; Nicholas Matzke; Chris Simon
2:50 PM - 3:05 PM Pacific: Advances in Coreoidea phylogenetics and the evolution of hind leg traits. Presenting Author: Michael Forthman- California Department of Food and Agriculture - Michael Forthman
3:05 PM - 3:20 PM Pacific: Pink knees and polka dots: Phylogenetics of an undescribed lineage of Mirinae from South Africa (Hemiptera: Miridae). Presenting Author: Falon Butcher- University of California. Veronica Tyts (she/her/hers)- University of California. Rochelle Hoey-Chamberlain- University of California, Riverside. Michael Forthman- California Department of Food and Agriculture. Christiane Weirauch (she/her/hers)- University of California - Falon Butcher; Veronica Tyts (she/her/hers); Rochelle Hoey-Chamberlain; Michael Forthman; Christiane Weirauch (she/her/hers)
3:20 PM - 3:25 PM Pacific: Break -
3:25 PM - 3:40 PM Pacific: Taxonomy and phylogenetics of the planthoppers (Hemiptera: Auchenorrhyncha: Fulgoromorpha). Presenting Author: Charles Bartlett- University of Delaware - Charles Bartlett
3:40 PM - 3:55 PM Pacific: Something old and something new: Spatial phylogenomics of Miridae to inform areas of conservation in California. Presenting Author: Sarah Elise Schroeder- University of California. Rochelle Hoey-Chamberlain- University of California, Riverside. Michael Forthman- California Department of Food and Agriculture. Jason E. Bond- University of California. Christiane Weirauch (she/her/hers)- University of California -

Sarah Elise Schroeder; Rochelle Hoey-Chamberlain; Michael Forthman; Jason E. Bond; Christiane Weirauch (she/her/hers)
3:55 PM - 4:10 PM Pacific: Phylogenomic analyses reveal Putnam scale (Diaspidiotus ancylusPutnam, Hemiptera: Diaspididae) comprises at least three cryptic species. Presenting Author: Mayrolin Garcia Morales- University of Massachusetts. Jeremy Andersen- University of Massachusetts, Amherst. Benjamin Normark- University of Massachusetts - Mayrolin Garcia Morales; Jeremy Andersen; Benjamin Normark
4:10 PM - 4:25 PM Pacific: Have ants muddied up root mealybug classification? Early insights from phylogenetics and machine learning. Presenting Author: Scott Schneider- USDA-ARS - Scott Schneider
4:25 PM - 4:40 PM Pacific: Exploring species-level diversity in the spiny witch-hazel gall aphid (Hamamelistes spinosus). Presenting Author: Gavin Munson- Utah State University. Carol van Dohlen- Utah State University - Gavin Munson; Carol van Dohlen
4:40 PM - 4:45 PM Pacific: Closing remarks. Presenting Author: Christiane Weirauch (she/her/hers)- University of California - Christiane Weirauch (she/her/hers)

Title: A Multi-Faceted Exploration of Bee Symbioses in the Wake of Global Change

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers: Alexia Nichole Martin (she/her/hers)- University of California; Abigail Lehner- University of California
Categories: Member Symposium; Plant-Insect Ecosystems; Early Career; Student
Abstract: This session will bring together early-career bee-microbe, bee-plant, and bee-parasite scientists to present exciting new research on how global change is impacting these symbioses. Following presentations, there will be an interactive panel discussion about major open questions in the field and science communication with the goal of fostering new collaborations.
Tracks: Member Symposium; Plant-Insect Ecosystems; Early Career; Student
Presentations:
2:00 PM - 2:02 PM Pacific: Introductory remarks. Presenting Author: Alexia Nichole Martin (she/her/hers)- University of California - Alexia Nichole Martin (she/her/hers)
2:02 PM - 2:22 PM Pacific: Understanding the impact of the pollen-borne microbiome on host fitness in the solitary bee, Megachile rotundata. Presenting Author: Gagandeep Brar- Bayer Crop Science. Madison A. Floden (she/her/hers)- North Dakota State University. Arun Rajamohan- USDA-ARS. George D. Yocum- USDA. Quinn McFrederick- University of California, Riverside. Julia Bowsher- North Dakota State University - Gagandeep Brar; Madison A. Floden (she/her/hers); Arun Rajamohan; George D. Yocum; Quinn McFrederick; Julia Bowsher
2:22 PM - 2:42 PM Pacific: The impact of an invasive parasite on blue orchard bees (Osmia lignaria). Presenting Author: Abigail Lehner- University of California. Neal M. Williams- University of California - Abigail Lehner; Neal M. Williams
2:42 PM - 3:02 PM Pacific: A sequence- and lab-based approach to investigate chalkbrood disease infection across the western range of blue orchard bees (Osmia lignaria). Presenting Author: Alexia Nichole Martin (she/her/hers)- University of California. Rachel Vannette- University of California. Helen Noroian- University of California, Davis - Alexia Nichole Martin (she/her/hers); Rachel Vannette; Helen Noroian
3:02 PM - 3:22 PM Pacific: Relationship between plant community composition and disease dynamics in a multi-host system. Presenting Author: Kate Borchardt, PhD- University of Massachusetts. Shalene Jha (she/her/hers)- University of Texas. Lynn Adler- University of Massachusetts. Laura Figueroa- University of Massachusetts - Kate Borchardt, PhD; Shalene Jha (she/her/hers); Lynn Adler; Laura Figueroa
3:22 PM - 3:28 PM Pacific: Break -
3:28 PM - 3:48 PM Pacific: Evolving partnership: Adapting pollination strategies in agricultural landscapes. Presenting Author: Lindsie McCabe- USDA-ARS. Steve Peterson- Foothill Bee Ranch. Theresa Singer- Retired USDA-ARS - Lindsie McCabe; Steve Peterson; Theresa Singer
3:48 PM - 4:08 PM Pacific: From neutral neighbor to inner saboteur: Host range expansion of chalkbrood-causing fungal species harms native mason bee species. Presenting Author: Kate LeCroy- Rhodes College. Tobias gerhard Mueller- Cornell University. Gena Kiser- Virginia Master Naturalist Program. Chris Allgyer- Virginia Master Naturalist Program - High Knob Chapter. Tory Hendry (she/her/hers)- Cornell University. Scott McArt- Cornell University - Kate LeCroy; Tobias gerhard Mueller; Gena Kiser; Chris Allgyer; Tory Hendry (she/her/hers); Scott McArt
4:08 PM - 4:28 PM Pacific: Parasites and agroecosystems: Determining the status of bumble bee parasites in Illinois Conservation Reserve Program CP42 lands. Presenting Author: Annaliese Wargin- University of Illinois. Alexandra Harmon-Threatt- University of Illinois Urbana-Champaign - Annaliese Wargin; Alexandra Harmon-Threatt
4:28 PM - 4:58 PM Pacific: Panel discussion -

4:58 PM - 5:00 PM Pacific: Closing remarks. Presenting Author: Alexia Nichole Martin (she/her/hers)- University of California - Alexia Nichole Martin (she/her/hers)

Title: Advancing Digital Pest Monitoring: Technologies, Challenges, and Opportunities

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, E145, OCC
Organizers: Amy Jancewicz, PhD (she/her/hers)- CropVue Technologies; Tyler Seutter- Pennsylvania State University
Categories: Member Symposium; Plant-Insect Ecosystems; Machine Learning and AI
Abstract: Digital pest monitoring is revolutionizing agriculture with AI, IoT sensors, and real-time data analytics. This session explores cutting-edge technologies, industry applications, and research breakthroughs driving smarter, sustainable pest management. Attendees will gain insights into emerging trends, real-world case studies, and opportunities for collaboration in shaping the future of precision entomology.
Tracks: Member Symposium; Plant-Insect Ecosystems; Machine Learning and AI
Presentations:
2:00 PM - 2:10 PM Pacific: Introductory remarks - Part 1. Presenting Author: Amy Jancewicz, PhD (she/her/hers)- CropVue Technologies - Amy Jancewicz, PhD (she/her/hers)
2:10 PM - 2:18 PM Pacific: Data approach to insect monitoring. Presenting Author: Matej Stefancic- Trapview. Katarina Mele- TrapView - Matej Stefancic; Katarina Mele
2:18 PM - 2:26 PM Pacific: RapidAIM: A precision pest management tool for today's farmer. Presenting Author: Nancy Schellhorn, PhD- RapidAIM - Nancy Schellhorn, PhD
2:26 PM - 2:34 PM Pacific: CropVue smart traps: Evolving digital tools for pest management. Presenting Author: Amy Jancewicz, PhD (she/her/hers)- CropVue Technologies - Amy Jancewicz, PhD (she/her/hers)
2:34 PM - 2:42 PM Pacific: Saving cost via digital traps. Presenting Author: Dont Posta- Scout Labs - Dont Posta
2:42 PM - 2:52 PM Pacific: Break -
2:52 PM - 2:57 PM Pacific: Introductory remarks - Part 2. Presenting Author: Amy Jancewicz, PhD (she/her/hers)- CropVue Technologies - Amy Jancewicz, PhD (she/her/hers)
2:57 PM - 3:07 PM Pacific: BeeMonitor: Autonomous IoT video surveillance and an AI-powered video processing system for monitoring the foraging and nesting behavior of solitary bees. Presenting Author: Edward Idun Amoah- Pennsylvania State University. Santosh Sanjel- The Pennsylvania State University. Natalie Boyle- Pennsylvania State University. Christina Grozinger- Pennsylvania State University - Edward Idun Amoah; Santosh Sanjel; Natalie Boyle; Christina Grozinger
3:07 PM - 3:17 PM Pacific: AI-driven solutions for insect monitoring. Presenting Author: Emily Bick- University of Wisconsin. Alex Arovas- University of Wisconsin - Emily Bick; Alex Arovas
3:17 PM - 3:27 PM Pacific: Monitoring insect diversity with AI enabled devices. Presenting Author: Zachary Bunch- Pennsylvania State University. Jiarui Geng- The Pennsylvania State University. Harland Patch- Penn State University. Christina Grozinger- Pennsylvania State University - Zachary Bunch; Jiarui Geng; Harland Patch; Christina Grozinger
3:27 PM - 3:37 PM Pacific: Monitoring monarch predation using Raspberry Pis and computer vision. Presenting Author: Sophia Marie Mucciolo- Pennsylvania State University. Sara Hermann- Pennsylvania State University - Sophia Marie Mucciolo; Sara Hermann
3:37 PM - 3:47 PM Pacific: Ecological modelling of invasive insects. Presenting Author: Alanna Richman- Pennsylvania State University - Alanna Richman
3:47 PM - 3:57 PM Pacific: From sticky traps to smart traps: Improving insect monitoring with automated photo traps. Presenting Author: Tyler Seutter- Pennsylvania State University. Grzegorz Krawczyk- Pennsylvania State University - Tyler Seutter; Grzegorz Krawczyk
3:57 PM - 4:07 PM Pacific: Break -
4:07 PM - 4:50 PM Pacific: Panel discussion Panelist: Amy Jancewicz, PhD (she/her/hers)- CropVue Technologies Panelist: Dont Posta- Scout Labs Panelist: Matej Stefancic- Trapview Panelist: Allan Fetters- AGceleration Advisory Service LLC Panelist: Nancy Schellhorn, PhD- RapidAIM -
4:50 PM - 5:00 PM Pacific: Closing remarks. Presenting Author: Amy Jancewicz, PhD (she/her/hers)- CropVue Technologies - Amy Jancewicz, PhD (she/her/hers) **Tuesday, November 11, 2025**

Title: Historical Data and the Study of Biodiversity

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, B110-112, OCC

Organizers: Jessica L. Ware (she/her/hers)- American Museum of Natural History; Christie Bahlai (she/her/hers)- Kent State University; Eliza Grames (she/her/hers)- Binghamton University
Categories: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Abstract: A challenge in understanding contemporary biodiversity change is finding appropriate historical baselines. Leveraging historical data gives perspective beyond one person's work-- but sometimes requires a creative approach to unlock the information in these heterogeneous records. This symposium will discuss finding historical data opportunities and developing methods to integrate these perspectives.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Jessica L. Ware (she/her/hers)- American Museum of Natural History - Jessica L. Ware (she/her/hers)
2:05 PM - 2:20 PM Pacific: Phenological shifts and increases in voltinism within a moth community over a century of anthropogenic change. Presenting Author: Eliza Grames (she/her/hers)- Binghamton University - Eliza Grames (she/her/hers)
2:20 PM - 2:35 PM Pacific: Herbarium sheets as ecological data caches. Presenting Author: Grace Horne- University of California - Grace Horne
2:35 PM - 2:50 PM Pacific: Lepidoptera, and "notes from nature" AI. Presenting Author: Robert P. Guralnick, Ph.D.- Florida Museum of Natural History - Robert P. Guralnick, Ph.D.
2:50 PM - 3:05 PM Pacific: The Unnatural history of pesticide-resistant insects during the boll weevil eradication campaign. Presenting Author: Bashira Chowdhury - Bashira Chowdhury
3:05 PM - 3:15 PM Pacific: Break -
3:15 PM - 3:30 PM Pacific: Using biodiversity collections to track environmental history, pollution, and policy. Presenting Author: Shane DuBay- University of Texas - Shane DuBay
3:30 PM - 3:45 PM Pacific: What to do when the baseline is a single specimen: Extinctions and rediscoveries of Hawaiian lepidoptera. Presenting Author: Kyhl Austin (he/him/his)- University of Hawaii - Kyhl Austin (he/him/his)
3:45 PM - 4:00 PM Pacific: Paleomiddens. Presenting Author: Angelica Gonzalez- Rutgers University - Angelica Gonzalez
4:00 PM - 4:15 PM Pacific: Using historic agricultural pest data to track shifting insect phenology. Presenting Author: Sara E. Emery (she/her/hers)- Cornell University - Sara E. Emery (she/her/hers)
4:15 PM - 4:35 PM Pacific: Closing remarks. Presenting Author: Jessica L. Ware (she/her/hers)- American Museum of Natural History - Jessica L. Ware (she/her/hers)

Title: Bugs, Barns, and Breakthroughs: Leveraging the past to Advance Livestock and Poultry Pest Control

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers: Valeria Lee (she/her/hers)- Pennsylvania State University; Paige S. Alexander- Pennsylvania State University
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: This section will cover methodologies used in veterinary entomology for livestock and poultry that have been used in the past and how they can inform our future.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
2:00 PM - 2:04 PM Pacific: Introductory remarks -
2:04 PM - 2:18 PM Pacific: Radical imagination in veterinary entomology: From imagination to reality and back again. Presenting Author: Rebecca Trout Fryxell (she/her/hers)- University of Tennessee - Rebecca Trout Fryxell (she/her/hers)
2:18 PM - 2:32 PM Pacific: Economic injury levels: A magic number or snake oil?. Presenting Author: Cassandra Olds- Kansas State University. Victoria Pickens (she/her/hers)- Kansas State University. David Martell- Kansas State University - Cassandra Olds; Victoria Pickens (she/her/hers); David Martell
2:32 PM - 2:46 PM Pacific: Gaining an understanding of animal production systems to leverage pest management practices. Presenting Author: Justin Talley- Oklahoma State University - Justin Talley
2:46 PM - 3:00 PM Pacific: Poultry pest management: Options then, now, and for the future. Presenting Author: Nancy C. Hinkle- University of Georgia. Raymond Fitzpatrick- University of Georgia. Amy C. Murillo- University of California-Riverside - Nancy C. Hinkle; Raymond Fitzpatrick; Amy C. Murillo
3:00 PM - 3:14 PM Pacific: Bed bugs: Re-emerging threat to chickens and workers in the poultry industry. Presenting Author: Coby Schal- North Carolina State University. Rocio Crespo- North Carolina State University. Jenny Nicholds- University of Georgia. Wes Watson- North Carolina State University. Ronald Baynes- North

Carolina State University. Olivia Petritz- North Carolina State University. Mara Gonzlez Morales- North Carolina State University - Coby Schal; Rocio Crespo; Jenny Nicholds; Wes Watson; Ronald Baynes; Olivia Petritz; Mara Gonzlez Morales
3:14 PM - 3:28 PM Pacific: No problem too small: The history and challenges of controlling Culicoides biting midges. Presenting Author: Bethany McGregor- United States Department of Agriculture. Chip Markwardt (they/them/theirs)- Kansas State University - Bethany McGregor; Chip Markwardt (they/them/theirs)
3:28 PM - 3:42 PM Pacific: Alternatives to conventional insecticides for control of biting and nuisance flies on pasture cattle. Presenting Author: Gary Brewer- University of Nebraska-Lincoln. David Boxler- University of Nebraska-Lincoln. Georgina Bingham- University of Nebraska-Lincoln. Natalie M. Johnston (she/her/hers)- University of Nebraska. Matthew Hetherington- Kansas State University. Jerry Zhu- USDA-ARS. Haichuan (John) Wang- USDA-ARS - Gary Brewer; David Boxler; Georgina Bingham; Natalie M. Johnston (she/her/hers); Matthew Hetherington; Jerry Zhu; Haichuan (John) Wang
3:42 PM - 3:56 PM Pacific: Development of female-lethal strains of New World screwworm, Cochliomyia hominivorax. Presenting Author: Alex Arp- USDA-ARS. Sarah Hudadoff- North Carolina State University. Maxwell J. Scott (he/him/his)- North Carolina State University - Alex Arp; Sarah Hudadoff; Maxwell J. Scott (he/him/his)
3:56 PM - 4:06 PM Pacific: Break -
4:06 PM - 4:56 PM Pacific: Poster session -
4:06 PM - 4:56 PM Pacific: Black soldier fly and stable fly larvae in shared media - a complex interaction. Presenting Author: Natalie M. Johnston (she/her/hers)- University of Nebraska. Matthew Hetherington- Kansas State University. Georgina Bingham- University of Nebraska-Lincoln. Gary Brewer- University of Nebraska-Lincoln. David Boxler- University of Nebraska-Lincoln. William Morrison- USDA-ARS - Natalie M. Johnston (she/her/hers); Matthew Hetherington; Georgina Bingham; Gary Brewer; David Boxler; William Morrison
4:06 PM - 4:56 PM Pacific: Development of host and aggregation odors as monitoring tools for the common bed bug, Cimex lectularius. Presenting Author: Charles Kwadha- North Carolina State University. Ahmed M. Saveer- United States Department of Agriculture. Ayako Wada-Katsumata (she/her/hers)- North Carolina State University. Coby Schal- North Carolina State University - Charles Kwadha; Ahmed M. Saveer; Ayako Wada-Katsumata (she/her/hers); Coby Schal
4:06 PM - 4:56 PM Pacific: From pesticides to precision: The evolution of poultry pest control. Presenting Author: Raymond Fitzpatrick- University of Georgia. Sydnie Frost- Purdue University. Sarah Stacy- Lincoln Memorial University. Amy C. Murillo- University of California-Riverside. Nancy C. Hinkle- University of Georgia - Raymond Fitzpatrick; Sydnie Frost; Sarah Stacy; Amy C. Murillo; Nancy C. Hinkle
4:06 PM - 4:56 PM Pacific: Learning from the past, while working in the present, to train the next generation of future veterinary entomologists. Presenting Author: Katy Smith (she/her/hers)- University of Tennessee. Jared Saufley- Oklahoma State University. Andric Fajardo- University of Kentucky. Caycen Ratliff- Mississippi State University. Jason Chavez Renteria- New Mexico State University. Preston Stroup- Mississippi State University. Samuel Piper- Purdue University. Sydnie Frost- Purdue University. Sarah Stacy- Lincoln Memorial University. Cassandra Olds- Kansas State University. Sonja Swiger- Texas A&M University. Nancy C. Hinkle- University of Georgia - Katy Smith (she/her/hers); Jared Saufley; Andric Fajardo; Caycen Ratliff; Jason Chavez Renteria; Preston Stroup; Samuel Piper; Sydnie Frost; Sarah Stacy; Cassandra Olds; Sonja Swiger; Nancy C. Hinkle
4:06 PM - 4:56 PM Pacific: Oh bother! Using fly worry behaviors to predict animals' feeding efficiency. Presenting Author: Victoria Pickens (she/her/hers)- Kansas State University - Victoria Pickens (she/her/hers)
4:06 PM - 4:56 PM Pacific: Sexing sheep blowfly, Lucilia cuprina, using transient expression of fluorescent proteins. Presenting Author: Sarah Hudadoff- North Carolina State University - Sarah Hudadoff
4:06 PM - 4:56 PM Pacific: Sweet relief: The potential of attractive toxic sugar baits for Culicoides control. Presenting Author: Chip Markwardt (they/them/theirs)- Kansas State University - Chip Markwardt (they/them/theirs)
4:06 PM - 4:56 PM Pacific: Validation of a binomial sequential sampling plan for the horn fly (Diptera: Muscidae) in pasture cattle. Presenting Author: Nina Vazquez- Oklahoma State University. Ashley Di Agostino- Oklahoma State University. Mellissa Crosswhite- Oklahoma State University. Kristopher Giles- Oklahoma State University. Jonathan Cammack- Oklahoma State University. Justin Talley- Oklahoma State University - Nina Vazquez; Ashley Di Agostino; Mellissa Crosswhite; Kristopher Giles; Jonathan Cammack; Justin Talley
4:56 PM - 5:00 PM Pacific: Closing remarks –

Title: Successful Partnerships Between Academia, the Research Community, and the Urban Pest Industry

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers: Anna Iversen, BCE (she/her/hers)- Pelsis; Patricia Hottel, BCE- Rentokil Terminix

Categories: Section Symposium; Medical, Urban, and Veterinary Entomology; Professional Development
Abstract: No matter your role in pest management, there are times where it can feel like you're alone. This symposium will highlight successful partnerships within the industry. Learning about the work that's been done to foster connections will not only enlighten but will also inspire you to build your own.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology; Professional Development
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Anna Iversen, BCE (she/her/hers)- Pelsis - Anna Iversen, BCE (she/her/hers)
2:05 PM - 2:20 PM Pacific: Collaborative efforts of the North American Termite Survey (NATS) - PMPs, government, academia, and citizen scientists. Presenting Author: Jose Santos Portugal, III, BCE, PHE- Mississippi State University. Anamika Sharma (she/her/hers)- Florida A & M University. Aaron Ashbrook- Louisiana State University - Jose Santos Portugal, III, BCE, PHE; Anamika Sharma (she/her/hers); Aaron Ashbrook
2:20 PM - 2:35 PM Pacific: Professional pest control industry partnerships for enhancing public policy advocacy and consumer awareness. Presenting Author: Jim Fredericks, BCE- National Pest Management Association - Jim Fredericks, BCE
2:35 PM - 2:50 PM Pacific: Bridging the gap: Student engagement opportunities through the National Pest Management Association. Presenting Author: Laura Rosenwald, BCE- National Pest Management Association - Laura Rosenwald, BCE
2:50 PM - 3:05 PM Pacific: Outreach and innovation: How the gulf south VECTOR (Vector Educational Center for Training, Outreach, & Resources) connects with the community. Presenting Author: Claudia Riegel- New Orleans Mosquito, Termite and Rodent Control Board - Claudia Riegel
3:05 PM - 3:20 PM Pacific: Bridging science and practice: Advancing urban pest management through academia-industry collaboration. Presenting Author: Christian Wilcox A.C.E.,P.H.E.- McCauley Services - Christian Wilcox A.C.E.,P.H.E.
3:20 PM - 3:35 PM Pacific: Break -
3:35 PM - 3:50 PM Pacific: Seeing eye to eye: How to leverage academic-industry partnerships for science innovation. Presenting Author: Sydney Crawley- Rentokil Terminix - Sydney Crawley
3:50 PM - 4:05 PM Pacific: Bridging gaps in pest management through consultancy. Presenting Author: Jeffrey Weier, BCE - Jeffrey Weier, BCE
4:05 PM - 4:20 PM Pacific: Progress through partnership: Innovation and training built with pest control professionals. Presenting Author: James Feston, BCE- Insects Limited - James Feston, BCE
4:20 PM - 4:35 PM Pacific: Filth fly remote monitoring: Partnering with technology for faster & more accurate control solutions. Presenting Author: Anna Iversen, BCE (she/her/hers)- Pelsis - Anna Iversen, BCE (she/her/hers)
4:35 PM - 4:50 PM Pacific: Discussion –

Title: Entomology Collections: Windows to the Past, Present, and Future

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers: Jack Whisenant (he/him/his)- Cornell University
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Formal and Informal Teaching
Abstract: Collections are a critical component of entomological research, with specimen data providing material for countless research questions. We invite everyone for an overview or refresher of best practices for all entomologists to ensure that their specimens are preserved in excellent quality for any current and future work.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Formal and Informal Teaching
Presentations:
2:00 PM - 2:04 PM Pacific: Introductory remarks. Presenting Author: Jack Whisenant (he/him/his)- Cornell University - Jack Whisenant (he/him/his)
2:04 PM - 2:14 PM Pacific: Covering the basics - Online resources for caring for entomology collections. Presenting Author: Ashleigh Whiffin- National Museums Scotland - Ashleigh Whiffin
2:14 PM - 2:24 PM Pacific: Managing vouchers and developing collections to support insect diagnostics. Presenting Author: M. Andrew Johnston- Purdue University - M. Andrew Johnston
2:24 PM - 2:34 PM Pacific: Sharing my methods: Creating datasets using entomological museum specimens. Presenting Author: Lily Hart- University of Illinois - Lily Hart
2:34 PM - 2:44 PM Pacific: Good, clean data from disparate digitization efforts at the M. T. James Museum. Presenting Author: Joel Gardner- Washington State University - Joel Gardner

2:44 PM - 2:54 PM Pacific: Uses of the INHS insect collection - Good, bad, and the future. Presenting Author: Thomas McElrath- Illinois Natural History Survey - Thomas McElrath
2:54 PM - 3:04 PM Pacific: Through a Glass Darkly: Natural History collections as time machines to explore vanished biodiversity. Presenting Author: Maxwell Barclay- Natural History Museum - Maxwell Barclay
3:04 PM - 3:12 PM Pacific: Break -
3:12 PM - 3:22 PM Pacific: Preserving California specimens in an Illinois collection. Presenting Author: Michelle Kohler- Illinois Natural History Survey. Tommy McElrath- Illinois Natural History Survey Insect Collection. Lily Hart- University of Illinois - Michelle Kohler; Tommy McElrath; Lily Hart
3:22 PM - 3:32 PM Pacific: Integrating museum collections in biodiversity and genomics research. Presenting Author: Portia Y.-H. Wong (she/her/hers)- Cornell University. Melissa Guzman, Ph.D.- Cornell University. Jayme Lewthwaite- Simon Fraser University - Portia Y.-H. Wong (she/her/hers); Melissa Guzman, Ph.D.; Jayme Lewthwaite
3:32 PM - 3:42 PM Pacific: Miridae in the museum: Building phylogenies with genetic and distributional data from museum specimens. Presenting Author: MC Fox (they/them/theirs)- University of California. Sarah Elise Schroeder- University of California. Veronica Tyts (she/her/hers)- University of California. Rochelle Hoey-Chamberlain- University of California, Riverside. Mark Stukel- University of California. Randall Schuh- American Museum of Natural History. Michael Schwartz- Canadian National Collection. Jason E. Bond- University of California. Michael Forthman- California Department of Food and Agriculture. Christiane Weirauch (she/her/hers)- University of California - MC Fox (they/them/theirs); Sarah Elise Schroeder; Veronica Tyts (she/her/hers); Rochelle Hoey-Chamberlain; Mark Stukel; Randall Schuh; Michael Schwartz; Jason E. Bond; Michael Forthman; Christiane Weirauch (she/her/hers)
3:42 PM - 3:52 PM Pacific: Considerations for preserving lice (Insecta: Psocodea) and avenues for genomic research. Presenting Author: Ember Clodfelter- University of Illinois - Ember Clodfelter
3:52 PM - 4:02 PM Pacific: Capturing genes in historical stonefly museum specimens. Presenting Author: Anna Eichert- American Museum of Natural History. Jessica L. Ware (she/her/hers)- American Museum of Natural History - Anna Eichert; Jessica L. Ware (she/her/hers)
4:02 PM - 4:10 PM Pacific: Break -
4:10 PM - 4:20 PM Pacific: Fluid preservation best practices 101. Presenting Author: Genevieve Anderegg- Denver Museum of Nature and Science - Genevieve Anderegg
4:20 PM - 4:30 PM Pacific: Protocols for collecting, vouchering and digitization of aquatic Hexapoda and data uses for answering broad ecological and conservation questions. Presenting Author: Phillip N. Hogan- Illinois Natural History Survey. R. Edward Dewalt- Illinois Natural History Survey - Phillip N. Hogan; R. Edward Dewalt
4:30 PM - 4:40 PM Pacific: Insect specimen photography: Creating windows into collections. Presenting Author: Christopher Wirth- Purdue University - Christopher Wirth
4:40 PM - 4:50 PM Pacific: Micro-CTiInsights into silk gland morphology from Natural History collections. Presenting Author: Amanda Markee- American Museum of Natural History. Daniel Davis- Brigham Young University. Hollister Herhold- American Museum of Natural History. Edward Stanley- Florida Museum of Natural History. Janice Edgerly-Rooks- Santa Clara University. Cheryl Hayashi- American Museum of Natural History. Jessica L. Ware (she/her/hers)- American Museum of Natural History - Amanda Markee; Daniel Davis; Hollister Herhold; Edward Stanley; Janice Edgerly-Rooks; Cheryl Hayashi; Jessica L. Ware (she/her/hers)
4:50 PM - 5:00 PM Pacific: Should all entomology collections be using 3D printers...and if not, why are you mistaken?. Presenting Author: Craig Brabant- University of Wisconsin - Craig Brabant

Title: Leaders in the Field of Entomology

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers: Anh K. Tran (She/They)- ISK Biosciences; Dalton Ludwick- USDA-ARS; Alix Whitener, PhD- FMC Corporation
Categories: Member Symposium; Early Career; Professional Development; Student
Abstract: Attendees will learn key characteristics of successful careers and advice for their chosen path. Speakers will share lessons learned, offering guidance to students, early professionals, and senior members who should endeavor to learn from their peers. The symposium also allows attendees to network with influential decision-makers in the field.
Tracks: Member Symposium; Early Career; Professional Development; Student
Presentations:
2:00 PM - 2:20 PM Pacific: The myth of the path: Building a career adventure. Presenting Author: Ronda Hamm- Conner Prairie - Ronda Hamm

2:20 PM - 2:40 PM Pacific: Lead in: Creativity, innovation and action in entomology!. Presenting Author: Sujaya Rao- University of Minnesota - Sujaya Rao
2:40 PM - 3:00 PM Pacific: Invasives, extension, and leadership: Lessons (so far) from an entomological journey. Presenting Author: Hannah Burrack- Michigan State University - Hannah Burrack
3:00 PM - 3:20 PM Pacific: Is that what they say about management?. Presenting Author: Alix Whitener, PhD- FMC Corporation - Alix Whitener, PhD
3:20 PM - 3:30 PM Pacific: Break -
3:30 PM - 3:50 PM Pacific: Your career, your choice: Navigating different paths in Industry. Presenting Author: Renata Bolognesi- Bayer Crop Science - Renata Bolognesi
3:50 PM - 4:10 PM Pacific: I thought I saw a chimera, turned out I was one: From the emergence of a clearwing moth to leading research. Presenting Author: Rosalind James- USDA-ARS - Rosalind James
4:10 PM - 4:30 PM Pacific: Journey in entomology: From research to administration. Presenting Author: Michelle Samuel-Foo- United States Department of Agriculture - Michelle Samuel-Foo

Title: 3rd Annual Empowering Your Future in Industry: An Interactive Career Workshop

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Scott T. O'Neal (he/him/his)- FSS, Inc.; Gabriela Carmona- Corteva Agriscience; Lidia Gual-Gonzalez- University of South Carolina; Jasleen Kaur (she/her/hers)- University of Florida
Categories: Workshop; Early Career; Professional Development; Student
Abstract: Registration is required for this event! Join us for a unique opportunity to learn about applying for jobs outside of academia and government from a diverse group of industry professionals in this interactive career workshop!
Tracks: Workshop; Early Career; Professional Development; Student

Title: 10-min: P-IE, Pollinators

Time: **2:00 PM - 5:00** PM Pacific
Location: Oregon Convention Center, E147-148, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
2:00 PM - 2:12 PM Pacific: Becoming social: The dynamics of task allocation and spatial organization in developing bumblebee colonies. Presenting Author: August C. Easton-Calabria- University of Wisconsin. Shelby Loebertman- University of Wisconsin-Madison. James Crall- University of Wisconsin-Madison - August C. Easton-Calabria; Shelby Loebertman; James Crall
2:12 PM - 2:24 PM Pacific: Dominant co-foraging bee genera exhibit distinct and temporally consistent pollen nutritional niches. Presenting Author: Anthony Domiano Vaudo- USDA-Forest Service. Jillian Luthy- University of Nevada, Reno. Eva Lin- University of Nevada, Reno. Anne Leonard- University of Nevada, Reno - Anthony Domiano Vaudo; Jillian Luthy; Eva Lin; Anne Leonard
2:24 PM - 2:36 PM Pacific: Insect pollinators alter flower-handling time and other behaviors based on proximity to wind turbines. Presenting Author: Michelle Weschler- University of Wyoming. Brenna Martin- University of Wyoming. Lusha Tronstad, PhD- University of Wyoming - Michelle Weschler; Brenna Martin; Lusha Tronstad, PhD
2:36 PM - 2:48 PM Pacific: Mitigating climate change effects through bumble bee nest depth. Presenting Author: Preston M. Thompson- University of Virginia. T'ai Roulston- University of Virginia - Preston M. Thompson; T'ai Roulston
2:48 PM - 3:00 PM Pacific: More bees and fewer weevils: How petal number and disc color affect pollinator and pest presence in sunflower. Presenting Author: Grace E. Hirzel (she/her/hers)- North Dakota State University. Zachary Tarble- USDA-ARS. Jeffrey Daniel Cluever- USDA-ARS. Kendra J. Greenlee (she/her/hers)- North Dakota State University. Jarrad Prasifka- USDA-ARS - Grace E. Hirzel (she/her/hers); Zachary Tarble; Jeffrey Daniel Cluever; Kendra J. Greenlee (she/her/hers); Jarrad Prasifka
3:00 PM - 3:12 PM Pacific: Non-beenary bees. Presenting Author: Mark Gorman- Oregon State University - Mark Gorman
3:12 PM - 3:24 PM Pacific: Break -
3:24 PM - 3:36 PM Pacific: Parasite hideouts: Preserving native hymenopterans through pollinator hotel management. Presenting Author: Bailey Lankford- University of North Carolina. Maria Escobedo- University of North Carolina. Camila Filgueiras- Cornell University - Bailey Lankford; Maria Escobedo; Camila Filgueiras

3:36 PM - 3:48 PM Pacific: Pollen loads vary across species, populations, and individuals of three bumble bee species. Presenting Author: Kaysee Arrowsmith- University of Texas. Madeleine Strait- University of Washington. Manogya Chandar- University of Washington. Berry Brosi- University of Washington. Shalene Jha (she/her/hers)- University of Texas - Kaysee Arrowsmith; Madeleine Strait; Manogya Chandar; Berry Brosi; Shalene Jha (she/her/hers)
3:48 PM - 4:00 PM Pacific: Seasonal and landscape effects on plant diversity and nutrition of bee-collected pollen and bee bread. Presenting Author: Kannan Mani, PhD- Texas A&M University. Mustafa Bozkus- Texas A&M University. Juliana Rangel- Texas A&M University. Spencer Behmer- Texas A&M University - Kannan Mani, PhD; Mustafa Bozkus; Juliana Rangel; Spencer Behmer
4:00 PM - 4:12 PM Pacific: Systematic shifts in floral resource availability to generalist & specialist bees within an island ecosystem. Presenting Author: Isaac Park- Georgia Southern University. Katja Seltmann- University of California - Isaac Park; Katja Seltmann
4:12 PM - 4:24 PM Pacific: Wild bee visitation to sunflower inbred lines appears unaffected by disparate nectar phenotypes. Presenting Author: Jarrad Prasifka- USDA-ARS. Karen Fugate- USDA-ARS-NCSL. Brent Hulke- USDA-ARS-NCSL - Jarrad Prasifka; Karen Fugate; Brent Hulke
4:24 PM - 4:36 PM Pacific: Zooming out: How do small pollinator gardens support bumblebee (Bombus sp.) success in fragmented landscapes?. Presenting Author: Caleb B. Bryan- Connecticut Agricultural Experiment Station. Kelsey Elizabeth Fisher- Connecticut Agricultural Experiment Station - Caleb B. Bryan; Kelsey Elizabeth Fisher

Title: Bridging Fly Generations with Communication and Collaboration

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, F152, OCC
Organizers: Corey Reese (he/him/his)- University of Florida; Peter Witzgall- Saint Louis University
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology
Abstract: Using flies as a model system, exploring how communication and social behavior influence larval and adult perception is critical for manipulating and understanding behavior. Research ranging from neurogenetics to crop protection is brought together to synthesize a current understanding of how sociality and chemical communication modulate behavioral ecology.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology
Presentations:
2:00 PM - 2:15 PM Pacific: Neuroethology of larval social clustering. Presenting Author: Barry Condron- University of Virginia - Barry Condron
2:15 PM - 2:30 PM Pacific: Mechanisms of salt taste detection and modulation. Presenting Author: Michael Gordon- University of British Columbia - Michael Gordon
2:30 PM - 2:45 PM Pacific: Behavioral and neural basis of electrosensation in the Drosophila larva. Presenting Author: Matthieu Louis (he/him/his)- University of California. David Tadres (he/him/his)- University of California Santa Barbara, MCDB Dept & Neuroscience Research Institute (NRI), Santa Barbara. Julia Riedl (he/him/his)- Centre for Genomic Regulation (CRG), The Barcelona Institute for Science and Technology (BIST), 08003 Barcelona, Spain. Alexander Eden- University of California Santa Barbara, Mechanical Engineering Dept., Santa Barbara, CA 93106, USA. Angela Bontempo (she/her/hers)- University of California Santa Barbara, MCDB Dept & Neuroscience Research Institute (NRI), Santa Barbara, CA 93106, USA. Jington Lin (he/him/his)- University of California Santa Barbara, MCDB Dept & Neuroscience Research Institute (NRI), Santa Barbara, CA 93106. Sam Reid (he/him/his)- Centre for Genomic Regulation (CRG), The Barcelona Institute for Science and Technology (BIST), 08003 Barcelona. Brian Roehrich (he/him/his)- University of California Santa Barbara, Chemistry Dept., Santa Barbara, CA 93106. Kevin Williams (he/him/his)- University of California Santa Barbara, MCDB Dept & Neuroscience Research Institute (NRI), Santa Barbara, CA 93106. Lior Sepunaru (he/him/his)- University of California Santa Barbara, Chemistry Dept., Santa Barbara, CA 93106 - Matthieu Louis (he/him/his); David Tadres (he/him/his); Julia Riedl (he/him/his); Alexander Eden; Angela Bontempo (she/her/hers); Jington Lin (he/him/his); Sam Reid (he/him/his); Brian Roehrich (he/him/his); Kevin Williams (he/him/his); Lior Sepunaru (he/him/his)
2:45 PM - 3:00 PM Pacific: Dynamical signatures of cooperative digging in Drosophila. Presenting Author: Benjamin de Bivort- Harvard University - Benjamin de Bivort
3:00 PM - 3:15 PM Pacific: A conserved CDKL kinase contributes to olfactory neuron function in drosophila. Presenting Author: Karen Menuz- University of Connecticut - Karen Menuz
3:15 PM - 3:30 PM Pacific: Chemosensory cells expressing IR94e in the labellum of D. melanogaster impact multiple behaviors related to fitness. Presenting Author: Molly Stanley- University of Vermont - Molly Stanley
3:30 PM - 3:45 PM Pacific: Investigating the mechanisms by which hunger modulates an animal's olfactory behavior. Presenting Author: Dennis Mathew- University of Nevada - Dennis Mathew

3:45 PM - 3:55 PM Pacific: Break -
3:55 PM - 4:10 PM Pacific: Strain-specific olfactory signaling drives divergent social behavior in Drosophila melanogaster. Presenting Author: William Ja (he/him/his)- University of Florida - William Ja (he/him/his)
4:10 PM - 4:25 PM Pacific: Structural neuroplasticity of motor circuits following motor neuron subset loss. Presenting Author: Aref Zarin (he/him/his)- Texas A&M University - Aref Zarin (he/him/his)
4:25 PM - 4:40 PM Pacific: The effect of social experience on gene expression, circuit function, and behaviors. Presenting Author: Pelin Volkan- Duke University - Pelin Volkan
4:40 PM - 4:55 PM Pacific: Functional genomic study to support conventional and genetic strategies for blowfly pest management. Presenting Author: Juan Wulff- North Carolina State University - Juan Wulff
4:55 PM - 5:10 PM Pacific: Developmental stage-specific chemotaxis in the invasive spotted-wing drosophila: Detection of potential competitors and habitat selection. Presenting Author: Corey Reese (he/him/his)- University of Florida - Corey Reese (he/him/his)
5:10 PM - 5:25 PM Pacific: Pheromone communication across fly generations. Presenting Author: Peter Witzgall- Saint Louis University - Peter Witzgall

Title: Insects as Sentinels of Change: Unraveling Ecosystem Function and Environmental Shifts

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, B114, OCC
Organizers: Maddy Pratt Hannappel, PhD (she/her/hers)- California Academy of Sciences; Lauren Esposito, PhD- California Academy of Sciences
Categories: Member Symposium
Abstract: Insects/arthropods are powerful tools for ecological research. This session showcases research using insects as model systems, their roles in ecosystem functioning, and their use as sentinels of environmental change. We invite presentations from any disciplinary focusing on insects in ecological processes and innovative methods for studying biodiversity and environmental shifts.
Tracks: Member Symposium
Presentations:
2:00 PM - 2:10 PM Pacific: Introductory remarks. Presenting Author: Maddy Pratt Hannappel, PhD (she/her/hers)- California Academy of Sciences - Maddy Pratt Hannappel, PhD (she/her/hers)
2:10 PM - 2:25 PM Pacific: How does drought alter the synthesis and cross-ecosystem transfer of long-chain polyunsaturated fatty acids (LC-PUFA) from riverine to adjacent terrestrial ecosystems?. Presenting Author: Maddy Pratt Hannappel, PhD (she/her/hers)- California Academy of Sciences. Robert Fournier- Dept. of Environmental Science, Policy, and Management, University of California Berkeley, Berkeley. Lauren Esposito, PhDCalifornia Academy of Sciences. Adrianne Smits- Dept. of Environmental Science and Policy, University of California, Davis. Albert Ruhi- Dept. of Environmental Science, Policy, and Management, University of California Berkeley - Maddy Pratt Hannappel, PhD (she/her/hers); Robert Fournier; Lauren Esposito, PhD; Adrianne Smits; Albert Ruhi
2:25 PM - 2:40 PM Pacific: Diet affects egg laying, biomass, and stable isotope values in Tetragnathid spiders. Presenting Author: Sarah Kerr- Louisiana State University. Ryan Otter- Middle Tennessee State University - Sarah Kerr; Ryan Otter
2:40 PM - 2:55 PM Pacific: More than sugar water: Specialized nectar chemistry as a driver of pollinator behavior and competition. Presenting Author: Ari Grele- University of Nevada. Lora Richards- Department of Biology, University of Nevada - Ari Grele; Lora Richards
2:55 PM - 3:10 PM Pacific: One Health approaches to pollinator conservation. Presenting Author: Judy Wu-Smart- University of Nebraska-Lincoln - Judy Wu-Smart
3:10 PM - 3:25 PM Pacific: Break -
3:25 PM - 3:40 PM Pacific: Time-scale trends in leaf litter biodiversity following megafires in California. Presenting Author: Jacob Gorneau, M.S.- California Academy of Sciences. Daniel Martinez- Institute for Biodiversity Science and Sustainability, California Academy of Sciences. Prakrit Jain- Department of Environmental Science, Policy, and Management, University of California, Berkeley. Amin Muhammad al-Jamal- California Academy of Sciences. Maddy Pratt Hannappel, PhD (she/her/hers)- California Academy of Sciences. Sarah Crews, PhD- California Academy of Sciences. Natalie R. Graham- University of Hawaii. Damain Elias- Department of Environmental Science, Policy, and Management, University of California, Berkeley. Rosemary Gillespie- Univ of California. Lauren Esposito, PhD- California Academy of Sciences - Jacob Gorneau, M.S.; Daniel Martinez; Prakrit Jain; Amin Muhammad al-Jamal; Maddy Pratt Hannappel, PhD (she/her/hers); Sarah Crews, PhD; Natalie R. Graham; Damain Elias; Rosemary Gillespie; Lauren Esposito, PhD

3:40 PM - 3:55 PM Pacific: Aquatic insect trophic ecology in response to invasive Salmonids in the natural laboratory of Cape Horn Biosphere Reserve. Presenting Author: Sabrina Moore- University of North Texas. Tamara Contador- Cape Horn International Center, University of Magallanes. James kennedy- University of North Texas - Sabrina Moore; Tamara Contador; James kennedy
3:55 PM - 4:10 PM Pacific: Metabarcoding of arthropod stuffs to resolve environmental predictors of species interactions. Presenting Author: Jason Schmidt- University of Georgia. Pedro FS Toledo- University of Georgia. Glynn Tillman- ARS-watershed. Ted Cottrell- USDA, ARS. Erin Grabarczyk- Valdosta Univesity - Jason Schmidt; Pedro FS Toledo; Glynn Tillman; Ted Cottrell; Erin Grabarczyk
4:10 PM - 4:25 PM Pacific: Contrasting and inconsistent insect trait responses to landscape simplification across latitudinal gradients. Presenting Author: Annika Salzberg- Cornell University. Heather Grab (she/her/hers)- Pennsylvania State University. Wee Hao Ng- Department of Entomology, Cornell University. Katja Poveda- Cornell University - Annika Salzberg; Heather Grab (she/her/hers); Wee Hao Ng; Katja Poveda
4:25 PM - 4:40 PM Pacific: Break -
4:40 PM - 5:10 PM Pacific: Discussion

Title: Phenotypic Plasticity for the Next Generation: Insights and Innovations from Diverse Insect Models

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers: Spencer Behmer- Texas A&M University; Christina Grozinger- Pennsylvania State University
Categories: Member Symposium; Machine Learning and AI
Abstract: How do insects adapt to their environment? This symposium explores phenotypic plasticity through diverse insect models and cutting-edge tools including genomics, AI, VR, and extreme field experiments. Join us for engaging talks, interactive discussions, and networking as we uncover how plasticity shapes evolution, behavior, and adaptation in a changing world.
Tracks: Member Symposium; Machine Learning and AI
Presentations:
2:00 PM - 2:04 PM Pacific: Introductory remarks - Part 1. Presenting Author: Spencer Behmer- Texas A&M University - Spencer Behmer
2:04 PM - 2:29 PM Pacific: Phenotypic plasticity in horned beetles: Regulatory mechanisms and evolution. Presenting Author: Sofia Casasa- Boston University - Sofia Casasa
2:29 PM - 2:54 PM Pacific: Gene duplication and the evolution of aphid wing plasticity. Presenting Author: Jennifer Brisson- University of Rochester. Kevin D. Deem (he/him/his)- University of Rochester. Omid Saleh Ziabari- University of Pittsburgh - Jennifer Brisson; Kevin D. Deem (he/him/his); Omid Saleh Ziabari
2:54 PM - 3:19 PM Pacific: Lessons on ant caste morphological plasticity from the clonal raider ant. Presenting Author: Partrick Piekarski- Rockefeller University. Stephany Valdes-Rodrguez- Rockefeller University. Buck Trible- Harvard University. Daniel J.C. Kronauer- The Rockefeller University - Partrick Piekarski; Stephany Valdes-Rodrguez; Buck Trible; Daniel J.C. Kronauer
3:19 PM - 3:44 PM Pacific: Seasonal resource scarcity reduces risk sensitivity and conflict communication in honey bees (Apis mellifera L.). Presenting Author: Clare Rittschof- University of Kentucky - Clare Rittschof
3:44 PM - 3:54 PM Pacific: Panel discussion -
3:54 PM - 4:04 PM Pacific: Break -
4:04 PM - 4:08 PM Pacific: Introductory remarks - Part 2. Presenting Author: Spencer Behmer- Texas A&M University - Spencer Behmer
4:08 PM - 4:33 PM Pacific: Genetic basis of phenotypic plasticity: An insight from locust phase polyphenism. Presenting Author: Hojun Song- Texas A&M University - Hojun Song
4:33 PM - 4:58 PM Pacific: Comparative analyses reveal the role of nature versus nurture in locust collective behavior. Presenting Author: Gregory Sword- Texas A&M University. Audelia Mechti- Texas A&M University. Vishwanath Varma- University of Konstanz. Iain D. Couzin- Max Planck Institute of Animal Behavior - Gregory Sword; Audelia Mechti; Vishwanath Varma; Iain D. Couzin
4:58 PM - 5:23 PM Pacific: Defining environmental and genetic contributions to monarch butterfly migration behavior. Presenting Author: Marcus Kronforst- University of Chicago. Hsiang-Yu Tsai- University of Chicago. Cristian Molina- University of Chicago. John Pleasants- Iowa State University - Marcus Kronforst; Hsiang-Yu Tsai; Cristian Molina; John Pleasants
5:23 PM - 5:48 PM Pacific: Urban gardens and life cycle plasticity of pollinators in the arid West. Presenting Author: Elizabeth Crone- University of California. Emily Erickson- University of California Davis. Sylvana Finn (she/her/hers)- University of California. James Michelini- University of California Davis - Elizabeth Crone; Emily Erickson; Sylvana Finn (she/her/hers); James Michelini

5:48 PM - 5:58 PM Pacific: Panel discussion -
5:58 PM - 6:00 PM Pacific: Closing remarks. Presenting Author: Spencer Behmer- Texas A&M University - Spencer Behmer

Title: Applied Studies and Near-term Solutions to Manage Important Veterinary Pests in the USA

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, B113, OCC
Organizers: Alec C. Gerry (he/him/his)- University of California
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: Participants will learn about ongoing research activities focused on near-term control of arthropod pests of animals. Take-aways will include management outcomes and impacts, including economic impacts and/or impacts to animal health/welfare. Participants can use study outcomes to support research project design and to develop practical recommendations to manage animal pests.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
2:00 PM - 2:10 PM Pacific: Introductory remarks. Presenting Author: Alec C. Gerry (he/him/his)- University of California - Alec C. Gerry (he/him/his)
2:10 PM - 2:30 PM Pacific: Control of spinose ear tick in dairy cows. Presenting Author: Alec C. Gerry (he/him/his)- University of California. Phillip Jardon (he/him/his)- Iowa State. Betsy Karle- UC ANR. Alexandre Rico-Fernandez- UC Davis. Noelia Silva-del-Rio- UC Davis - Alec C. Gerry (he/him/his); Phillip Jardon (he/him/his); Betsy Karle; Alexandre Rico-Fernandez; Noelia Silva-del-Rio
2:30 PM - 2:50 PM Pacific: Evaluating a commercially available prescription platform vaccine for reducing tick burden and preventing tick-borne disease transmission to cattle. Presenting Author: Emily McDermott- University of Arkansas. Cameron Osborne- University of Arkansas. Kelly Loftin, BCE- University of Arkansas. Elizabeth Smith- University of Arkansas. Mahnoor Ahsan- University of Arkansas. Anna Grace Deakins- Univ. Arkansas. Madison Smith- Univ. Arkansas. Naija Sharpley- Univ. Arkansas. Keysha Kindle- Univ. Arkansas. Joshua King- Univ. Arkansas. Jeremy Powell- University of Arkansas - Emily McDermott; Cameron Osborne; Kelly Loftin, BCE; Elizabeth Smith; Mahnoor Ahsan; Anna Grace Deakins; Madison Smith; Naija Sharpley; Keysha Kindle; Joshua King; Jeremy Powell
2:50 PM - 3:10 PM Pacific: Utilizing old tools in new ways: Applied solutions for maximizing filth fly (Diptera: Muscidae) control in cattle operations. Presenting Author: Brandon Smythe- New Mexico State University - Brandon Smythe
3:10 PM - 3:30 PM Pacific: Testing products for fly management in the real world - Texas style. Presenting Author: Sonja Swiger- Texas A&M University - Sonja Swiger
3:30 PM - 3:50 PM Pacific: Application of two methods of cyfluthrin insecticide on prevention of keratoconjunctivitis (pinkeye) in pastured stocker cattle. Presenting Author: Gabriele Maier (she/her/hers)- University of California. Josh Davy- University of California, Agriculture and Natural Resources. Larry Forero- University of California, Agriculture and Natural Resources. Andrea Warner- University of California, Agriculture and Natural Resources. Alec C. Gerry (he/him/his)- University of California - Gabriele Maier (she/her/hers); Josh Davy; Larry Forero; Andrea Warner; Alec C. Gerry (he/him/his)
3:50 PM - 4:10 PM Pacific: Stable flies and pastured cattle. Presenting Author: David Boxler- University of Nebraska-Lincoln. Gary Brewer- University of Nebraska-Lincoln. Jerry Zhu- USDA-ARS - David Boxler; Gary Brewer; Jerry Zhu
4:10 PM - 4:30 PM Pacific: Just turning off the water is easier said than done: Biting fly management at the San Diego Zoo and Safari park. Presenting Author: Lee Cohnstaedt (he/him/his)- USDA-ARS. Stacey Scroggs- USDA. Dustin Swanson- USDA, ARS, National Bio- and Agro-Defense Facility. dustin.swanson@usda.gov Hudson- REE ARS. Phillip Shults- USDA-ARS. Bethany McGregor- United States Department of Agriculture. Travis Davis- USDA-ARS. Lauren Howard- PEEL-TX. Nathan J. McConnell, PhD- University of California. Nikos Gurfield- San Diego County Health Dept.. Angela Pelzel-McCluskey- MRP-APHIS. Kristin Phair- San Diego Zoo Wild Animal Park. Nadine Lamberski- San Diego Zoo Wild Animal Park - Lee Cohnstaedt (he/him/his); Stacey Scroggs; Dustin Swanson; dustin.swanson@usda.gov Hudson; Phillip Shults; Bethany McGregor; Travis Davis; Lauren Howard; Nathan J. McConnell, PhD; Nikos Gurfield; Angela Pelzel-McCluskey; Kristin Phair; Nadine Lamberski
4:30 PM - 4:50 PM Pacific: Use of two multi-dose treatment regimens of injectable eprinomectin for control of southern cattle ticks, Rhipicephalus (Boophilus) microplus. Presenting Author: Kimberly Lohmeyer- USDA-ARS. Sarah Capik- Texas Animal Health. Don Thomas- Deceased. Ron Baynes- North Carolina State University. Juan Castro- Texas A&M - Kimberly Lohmeyer; Sarah Capik; Don Thomas; Ron Baynes; Juan Castro
4:50 PM - 5:10 PM Pacific: Panel discussion –

Title: Advocating for Insect Conservation Within a Changing Political Landscape

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers: Morgan E. Christman (she/her/hers)- Louisiana State University; Rachel L. Walsh, M.S. (she/her/hers)- Florida Museum of Natural History; Vaughn Shirey- Florida Museum of Natural History; David Wagner- University of Connecticut; Dominic Evangelista- University of Illinois
Categories: Section Symposium; Systematics, Evolution, and Biodiversity; Science Policy
Abstract: Insect biodiversity is declining amid political challenges to conservation and research. This symposium unites experts to evaluate the status of global insect biodiversity, explore innovative monitoring techniques, and strategize how entomologists can engage with policymakers to promote insect biodiversity conservation, uphold scientific integrity, and secure support for fundamental entomological research.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity; Science Policy
Presentations:
2:00 PM - 2:15 PM Pacific: Introductory remarks. Presenting Author: Morgan E. Christman (she/her/hers)- Louisiana State University - Morgan E. Christman (she/her/hers)
2:15 PM - 2:45 PM Pacific: From droppings to data: eDNA metabarcoding for use in insect monitoring. Presenting Author: Lillian Hendrick- University of Florida. Ivone de Bem Oliveira (she/her/hers)- University of Florida. Michael Belitz- Florida Museum of Natural History. Jaret C. Daniels, Ph.D.- University of Florida. Robert P. Guralnick, Ph.D.- Florida Museum of Natural History - Lillian Hendrick; Ivone de Bem Oliveira (she/her/hers); Michael Belitz; Jaret C. Daniels, Ph.D.; Robert P. Guralnick, Ph.D.
2:45 PM - 3:15 PM Pacific: Mothbox: Open source, low cost, insect monitoring at scale. Presenting Author: Andy Quitmeyer- Digital Naturalism Labs - Andy Quitmeyer
3:15 PM - 3:45 PM Pacific: The importance of protecting scientific collections. Presenting Author: Cole Donovan- Federation of American Scientists - Cole Donovan
3:45 PM - 4:15 PM Pacific: The Xerces Society's evidence-based approach to advancing protection and conservation of endangered invertebrates. Presenting Author: Rich Hatfield- Xerces Society for Invertebrate Conservation. Sarina Jepsen- Xerces Society - Rich Hatfield; Sarina Jepsen
4:15 PM - 4:30 PM Pacific: Break -
4:30 PM - 4:40 PM Pacific: Navigating the policy landscape to support research and higher education. Presenting Author: Dominique Carter- Lewis-Burke Associates LLC - Dominique Carter
4:40 PM - 4:50 PM Pacific: How entomologists can engage with science policy today. Presenting Author: Kevin Burls (he/him/his)- Xerces Society for Invertebrate Conservation - Kevin Burls (he/him/his)
4:50 PM - 5:00 PM Pacific: Long term advocacy is essential to insect conservation under the ESA. Presenting Author: Jess Tyler- Center for Biological Diversity - Jess Tyler
5:00 PM - 5:55 PM Pacific: Panel discussion -
5:55 PM - 6:00 PM Pacific: Closing remarks. Presenting Author: Morgan E. Christman (she/her/hers)- Louisiana State University - Morgan E. Christman (she/her/hers)

Title: Larry Larson Symposium: Responsible Crop Protection, a Journey of Innovation from Past to Future

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, D137-138, OCC
Organizers: Boris Castro- Corteva Agriscience; Luis Gomez- Corteva Agriscience; Amanda Jacobson- Corteva Agriscience
Categories: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Abstract: The 2025 Larry Larson Symposium brings together experts across disciplines and institutions with vast experience in responsible crop protection (RCP). We will discuss the evolution of different components of RCP towards the modernization of agricultural food production to meet the needs of a growing world population.
Tracks: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Presentations:
2:00 PM - 2:10 PM Pacific: Introductory remarks. Presenting Author: Amanda Jacobson- Corteva Agriscience - Amanda Jacobson
2:10 PM - 2:35 PM Pacific: Machine learning vision for insect monitoring. Presenting Author: Ivan Grijalva- Louisiana State University. Joshua Broussard- Louisiana State University. Rodrigo Diaz (he/him/his)- Louisiana State University. Brian McCornack- Kansas State University - Ivan Grijalva; Joshua Broussard; Rodrigo Diaz (he/him/his); Brian McCornack

2:35 PM - 3:00 PM Pacific: Enhancing Corteva's traits through emerging technologies. Presenting Author: Molly Ryan- Corteva Agriscience - Molly Ryan
3:00 PM - 3:25 PM Pacific: The origin of IPM and new hope for adoption. Presenting Author: Rayda Krell- Corteva Agriscience. Larry Pedigo- Iowa State University - Rayda Krell; Larry Pedigo
3:25 PM - 3:50 PM Pacific: The past, present, future and regulation of insect resistance management. Presenting Author: Nicholas Storer- American Sugarbeet Growers Association. Clint Pilcher- Corteva Agriscience - Nicholas Storer; Clint Pilcher
3:50 PM - 4:00 PM Pacific: Break -
4:00 PM - 4:25 PM Pacific: Sterile Insect Technique (SIT) development and state of the art applications with special attention to plant and animal health. Presenting Author: Pedro Rendon- USDA-APHIS. Eswin Castaneda- Corteva Agriscience - Pedro Rendon; Eswin Castaneda
4:25 PM - 4:50 PM Pacific: Biological control, influencing and leading pest control tactics into a sustainable future. Presenting Author: Carlos Bogrn- BioWorks Inc. - Carlos Bogrn
4:50 PM - 5:15 PM Pacific: Evolution of insecticide discovery. Presenting Author: Beth Lorsbach- Nufarm. Thomas Sparks- Agrilucent LLC. Martin Walsh- Nufarm. Thais Rodrigues- Nufarm - Beth Lorsbach; Thomas Sparks; Martin Walsh; Thais Rodrigues
5:15 PM - 5:40 PM Pacific: Discovery and development of a novel class of natural product-based insect control agents. Presenting Author: Thomas Sparks- Agrilucent LLC. Natalie Giampietro- Corteva Agriscience. Melissa Willrich Siebert- Corteva Agriscience. Luis Gomez- Corteva Agriscience - Thomas Sparks; Natalie Giampietro; Melissa Willrich Siebert; Luis Gomez
5:40 PM - 5:55 PM Pacific: Panel discussion -
5:55 PM - 6:00 PM Pacific: Closing remarks. Presenting Author: Amanda Jacobson- Corteva Agriscience - Amanda Jacobson

Title: Be the Bridge: Generational Connection Through STEM Mentorship

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 256, OCC
Organizers: Fiona Goggin- University of Arkansas; Austin Jones- University of Arkansas; Scott Longing- Texas Tech University
Categories: Program Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems; Early Career; Professional Development; Student
Abstract: This symposium provides a safe space to discuss what junior scientists need from their mentors, and a forum to showcase innovative approaches to meet these needs. Best of all, it creates a setting for mentors and mentees to find each other. Come for the cookies, stay for the connections!
Tracks: Program Symposium; Formal and Informal Teaching; Plant-Insect Ecosystems; Early Career; Professional Development; Student
Presentations:
2:00 PM - 2:10 PM Pacific: Introductory remarks. Presenting Author: Fiona Goggin- University of Arkansas - Fiona Goggin
2:10 PM - 2:30 PM Pacific: ESA initiatives to promote mentorship: PACT, EntoMentos, and more. Presenting Author: Jennifer A. Henke, BCE (she/her/hers)- Coachella Valley Mosquito and Vector Control District - Jennifer A. Henke, BCE (she/her/hers)
2:30 PM - 3:10 PM Pacific: Panel discussion: What do mentees need from their mentors?Panelist: Michelle Boone (she/her/hers)- Colorado State University Panelist: Morgan Grace Pinkerton- University of Florida Panelist: Jonathan Rene Hernandez- Texas A&M University Panelist: Mandeep Tayal (he/him/his)- North Carolina State University -
3:10 PM - 3:30 PM Pacific: Stuck in the middle: A postdoctoral scholar's perspective on proactively seeking mentors and mentees. Presenting Author: Hillary Fischer- Michigan State University - Hillary Fischer
3:30 PM - 3:45 PM Pacific: Break -
3:45 PM - 4:05 PM Pacific: Fostering successful mentor-mentee relationships by aligning expectations. Presenting Author: Joanna C. Chiu- University of California - Joanna C. Chiu
4:05 PM - 4:25 PM Pacific: Preparing the professoriate: Meeting the mentoring needs of new faculty and future faculty in entomology. Presenting Author: Fiona Goggin- University of Arkansas - Fiona Goggin
4:25 PM - 4:45 PM Pacific: Teaching the teachers: The role of faculty in training teaching assistants to be next-generation mentors. Presenting Author: Austin Jones- University of Arkansas - Austin Jones
4:45 PM - 5:00 PM Pacific: Break -
5:00 PM - 5:20 PM Pacific: Outside and inside: A mid-career perspective on mentoring students in the field and the lab. Presenting Author: Scott Longing- Texas Tech University - Scott Longing

5:20 PM - 6:00 PM Pacific: Panel discussion: How can we be better mentors? Panelist: Laura Corley Lavine (she/her/hers)- Washington State University Panelist: Sajjan Grover- Bayer Crop Science Panelist: Kelly Carruthers- University of Georgia Panelist: Hongmei Li-Byarlay (she/her/hers)- Central State University –

Title: The Ecological and Social Dimensions of Pest, Predator, and Pollinator Management in Urban Systems and Green Spaces

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers: Tania Kim- Kansas State University; Kaitlin Schieuer- Kansas State University; Heidi Liere- Lewis and Clark College; Hannah Talton- North Carolina A&T State University
Categories: Section Symposium; Plant-Insect Ecosystems; Formal and Informal Teaching
Abstract: Food production in urban settings is becoming more popular as urban centers expand, and the desire to consume locally sourced food grows. Our symposium will highlight recent work in insect pest and pollinator management in different urban food systems and integrate the ecological and social dimensions of urban farming.
Tracks: Section Symposium; Plant-Insect Ecosystems; Formal and Informal Teaching
Presentations:
2:00 PM - 2:10 PM Pacific: Introductory remarks. Presenting Author: Tania Kim- Kansas State University - Tania Kim
2:10 PM - 2:25 PM Pacific: Arthropod communities and their ecosystem services on farms across an urbanization gradient. Presenting Author: Kaitlin Schieuer- Kansas State University. Tania Kim- Kansas State University - Kaitlin Schieuer; Tania Kim
2:25 PM - 2:40 PM Pacific: Species- and trait-based natural enemy-herbivore networks in urban agroecosystems show similar responses to management and landscape shifts. Presenting Author: Stacy Philpott- University of California. Azucena Lucatero- University of California Santa Cruz. Brenda Lin- CSIRO. Shalene Jha (she/her/hers)- University of Texas. Edith Gonzales- University of California, Santa Cruz. Peter Bichier- University of California, Santa Cruz. Heidi Liere- Lewis and Clark College - Stacy Philpott; Azucena Lucatero; Brenda Lin; Shalene Jha (she/her/hers); Edith Gonzales; Peter Bichier; Heidi Liere
2:40 PM - 2:55 PM Pacific: Syrphidae (Diptera) communities and their floral associations in urban gardens. Presenting Author: Nina Miller- Oregon State University. Scott J. Fitzgerald- PNW Diptera Research Lab. Lillian F. Langen Swartzendruber- Oregon State University. Anna Carolyn Perry- Oregon State University. Leo A. Case- Oregon State University. Jen J-M. Hayes- Oregon State University. Kailey N. Legier- Oregon State University. Gail A. Langellotto- Oregon State University - Nina Miller; Scott J. Fitzgerald; Lillian F. Langen Swartzendruber; Anna Carolyn Perry; Leo A. Case; Jen J-M. Hayes; Kailey N. Legier; Gail A. Langellotto
2:55 PM - 3:15 PM Pacific: The value of forests for supporting ground-dwelling predator communities in urban greenspaces. Presenting Author: Kayla I. Perry- The Ohio State University. Larry Phelan- The Ohio State University. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University - Kayla I. Perry; Larry Phelan; Mary M. Gardiner, M.S., Ph.D. (she/her/hers)
3:15 PM - 3:30 PM Pacific: The multifunctional role of cut flowers in urban gardens. Presenting Author: Mary Rogers- University of Minnesota. Isabela Arias- University of Minnesota. Noah Burley- University of Minnesota - Mary Rogers; Isabela Arias; Noah Burley
3:30 PM - 3:50 PM Pacific: Frass fertilizer for enhanced circularity in urban food systems. Presenting Author: Helen Amorim- University of Arkansas. Amanda Ashworth- USDA - Helen Amorim; Amanda Ashworth
3:50 PM - 4:05 PM Pacific: Break -
4:05 PM - 4:25 PM Pacific: Socio-ecological factors influence the adoption and value of pollinator gardens across residential landscapes. Presenting Author: Rachel Mallinger- University of Florida. Joanna Jaramillo- University of Florida. Opeyemi Adedoja, Ph.D.- University of Central Arkansas. Laura Warner (she/her/hers)- University of Florida. Colby Silvert- University of Maryland. Cody Gusto- University of Florida, Gainesville - Rachel Mallinger; Joanna Jaramillo; Opeyemi Adedoja, Ph.D.; Laura Warner (she/her/hers); Colby Silvert; Cody Gusto
4:25 PM - 4:40 PM Pacific: What drives participation in sustainable landscaping programs and their conservation impact?. Presenting Author: Ellen Danford- The Ohio State University. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University - Ellen Danford; Mary M. Gardiner, M.S., Ph.D. (she/her/hers)
4:40 PM - 5:00 PM Pacific: The role of community science for urban farm insect monitoring and public engagement. Presenting Author: Kathleen Prudic- University of Arizona. Natalie A. Melkonoff1- University of Arizona, eButterfly, Space for Life. Michelle C. Toshack- Xerces Society. Theresa Crimmins- USA National Phenology Network, School of Natural Resources and the Environment, University of Arizona - Kathleen Prudic; Natalie A. Melkonoff1; Michelle C. Toshack; Theresa Crimmins
5:00 PM - 5:15 PM Pacific: Utilizing integrated pest and pollinator management strategies to improve bee communities and plant production in urban community gardens. Presenting Author: Jennifer Noseworthy- Indiana

Wesleyan University. Jacob Buck- Indiana Wesleyan University. Laura Ingwell (she/her/hers)- Purdue University. Brock Harpur- Purdue University. Rob Jean- Environmental Solutions and Innovations - Jennifer Noseworthy; Jacob Buck; Laura Ingwell (she/her/hers); Brock Harpur; Rob Jean
5:15 PM - 5:35 PM Pacific: Bug2School: Growing diversity within urban gardens and beyond. Presenting Author: Carmen Blubaugh- University of Illinois - Carmen Blubaugh
5:35 PM - 5:50 PM Pacific: The Bee Urban Growers (BUG) Project: Bringing accessible pollinator management practices and education to urban farming communities. Presenting Author: Jennifer Roedel- Michigan State University. Karma Kashmir Thomas, M.S.- Michigan State University. Zsofia Szendrei- Michigan State University - Jennifer Roedel; Karma Kashmir Thomas, M.S.; Zsofia Szendrei
5:50 PM - 6:00 PM Pacific: Closing remarks. Presenting Author: Tania Kim- Kansas State University - Tania Kim

Title: Integrated Pest Management Strategies to Manage Invasive Species in Specialty Crops

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 254, OCC
Organizers: Jasleen Kaur (she/her/hers)- University of Florida; Emily Clare Kraus, PhD (she/her/hers)- University of California
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: Discover innovative solutions to the growing challenges of invasive pests in high-value specialty crops. This symposium brings together a diverse group of experts across generations and disciplines to share the latest research, foster collaboration, and explore actionable strategies for sustainable IPM. Play Ento-Bingo plus gain knowledge and interact with experts!
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
2:00 PM - 2:05 PM Pacific: Introductory remarks. Presenting Author: Jasleen Kaur (she/her/hers)- University of Florida - Jasleen Kaur (she/her/hers)
2:05 PM - 2:25 PM Pacific: Whitefly behavioral responses to multisensory attractants: A laboratory study of odor-visual cue combinations. Presenting Author: Thomson Paris- University of Florida. Samanta Christophe- University of Florida. Xavier Martini- University of Florida - Thomson Paris; Samanta Christophe; Xavier Martini
2:25 PM - 2:45 PM Pacific: Extension and research updates for the black fig fly (Silba adipata): An emergent pest in the U.S. fig industry. Presenting Author: Melissa Rae Thayer- University of California. Houston Wilson (he/him/his)- University of California - Melissa Rae Thayer; Houston Wilson (he/him/his)
2:45 PM - 3:05 PM Pacific: Navigating the challenges of invasive pests on nut trees and vines in California. Presenting Author: Idongesit Mokwunye- University of California - Idongesit Mokwunye
3:05 PM - 3:25 PM Pacific: Tomato pinworm (Keiferia lycopersicella) invading high tunnel tomatoes in the north. Presenting Author: Laura Ingwell (she/her/hers)- Purdue University - Laura Ingwell (she/her/hers)
3:25 PM - 3:35 PM Pacific: Break and poster session -
3:25 PM - 3:35 PM Pacific: Breaking the cycle: Insecticide rotation strategies for chilli thrips in southern highbush blueberries. Presenting Author: Jasleen Kaur (she/her/hers)- University of Florida. Kendi Muthomi- University of Florida. Oscar Liburd- University of Florida - Jasleen Kaur (she/her/hers); Kendi Muthomi; Oscar Liburd
3:25 PM - 3:35 PM Pacific: Evaluation of trap performance for the detection of Bactrocera dorsalis (Diptera: Tephritidae) in mango agroecosystems of Somanya, Eastern Ghana. Presenting Author: Simon Yeboah- University of Florida - Simon Yeboah
3:25 PM - 3:35 PM Pacific: Fatty acid profiles for host identification of Trissolcus japonicus, a biological control agent of brown marmorated stink bug. Presenting Author: Claire K. Donahoo (she/her/hers)- Oregon State University - Claire K. Donahoo (she/her/hers)
3:25 PM - 3:35 PM Pacific: Integrated pest management of Mexican Rice Borer, Eoreuma loftini (Dyar), in California lemongrass. Presenting Author: ZinThuZar Maung- University of California - ZinThuZar Maung
3:25 PM - 3:35 PM Pacific: Integrating semiochemical tools in IPM: attract-and-kill for diamondback moth (Lepidoptera: Plutellidae). Presenting Author: Kendi Muthomi- University of Florida - Kendi Muthomi
3:25 PM - 3:35 PM Pacific: Laboratory and field trials test potential for entomopathogenic nematodes as biological control agents for spotted wing drosophila in southern highbush blueberries. Presenting Author: Arden R. Lambert- University of Florida - Arden R. Lambert
3:25 PM - 3:35 PM Pacific: Monitoring insecticide resistance in western flower thrips (Frankliniella occidentalis) populations in fruiting vegetable production systems. Presenting Author: Mandeep Tayal (he/him/his)- North Carolina State University. Emily C. Ogburn- North Carolina State University. Tom Bilbo- Clemson University. Scott Lee- USDA-APHIS - Mandeep Tayal (he/him/his); Emily C. Ogburn; Tom Bilbo; Scott Lee

3:25 PM - 3:35 PM Pacific: Proactively evaluating the biological control potential of a native predatory mirid against the South American tomato leaf miner. Presenting Author: Briley F. Mullin (she/her/hers)- University of California - Briley F. Mullin (she/her/hers)
3:25 PM - 3:35 PM Pacific: The lethal and sublethal effects of three entomopathogenic fungal genera against two aphid species in Oregon hazelnut orchards. Presenting Author: Mathhew Pedersen- Oregon State University - Mathhew Pedersen
3:25 PM - 3:35 PM Pacific: The Rutgers IPM program: An educational delivery program for commercial growers in New Jersey. Presenting Author: Janine M. Spies- Rutgers University - Janine M. Spies
3:25 PM - 3:35 PM Pacific: Volatile compounds from anthracnose-infected blueberries effectively repel spotted wing drosophila. Presenting Author: Beth Ferguson (she/her/hers)- Rutgers University - Beth Ferguson (she/her/hers)
3:35 PM - 3:55 PM Pacific: Biology and management of Scirtothrips dorsalis (Thripidae: Thysanoptera) in southern highbush blueberry plantings. Presenting Author: Oscar Liburd- University of Florida. Kendi Muthomi- University of Florida. Jasleen Kaur (she/her/hers)- University of Florida - Oscar Liburd; Kendi Muthomi; Jasleen Kaur (she/her/hers)
3:55 PM - 4:15 PM Pacific: Responding to the establishment of Megalurothrips usitatus in Florida and Guatemala. Presenting Author: Hugh Smith- University of Florida. Astrid Coyoy- Institute of Agricultural Science and Technology (ICTA). Jose Ochaeta- Ministry of Agriculture (MAGA). Cleveland Ivey- University of Florida. Manuel Zapeta- Guatemalan Center for Sugarcane Research and Training (CENGICAA). David Chojoj- San Carlos University. Felipe Soto-Adames- Florida Department of Agriculture and Consumer Services - Hugh Smith; Astrid Coyoy; Jose Ochaeta; Cleveland Ivey; Manuel Zapeta; David Chojoj; Felipe Soto-Adames
4:15 PM - 4:35 PM Pacific: Improving invasive species management in specialty crops through integrated research and extension efforts: Two case studies looking at organic management of Western flower thrips and extension to non-english speakers. Presenting Author: Margaret Lloyd- University of California - Margaret Lloyd
4:35 PM - 4:55 PM Pacific: What is the future?: Management of diamondback moth in California's cole crops and the challenges and opportunities. Presenting Author: Ian Grettenberger- University of California. Daniel Hasegawa- USDA-ARS. Kevin Goding- University of California. Dylan Joseph Beal- University of California. Ricky Lara- California Department of Food and Agriculture. Oleg Daugovish- UC Agriculture and Natural Resources. Hamutahl Cohen- University of California. Matthew Grieshop- Cal Poly College of Agriculture - Ian Grettenberger; Daniel Hasegawa; Kevin Goding; Dylan Joseph Beal; Ricky Lara; Oleg Daugovish; Hamutahl Cohen; Matthew Grieshop
4:55 PM - 5:05 PM Pacific: Break and poster session -
5:05 PM - 5:25 PM Pacific: Ant mediated disruption of Citrus Mealybug (Planococcus citri) biological control in California citrus orchards. Presenting Author: Jacob Wenger- California State University. Kelby Keeling- California State University. Sandipa G. Gautam- University of California - Jacob Wenger; Kelby Keeling; Sandipa G. Gautam
5:25 PM - 5:45 PM Pacific: Developing management tools for the invasive mealybug, Nipaecoccus viridis, in Florida citrus groves. Presenting Author: Emilie P. Demard, PhD (she/her/hers)- Utah State University. Lauren Diepenbrock- University of Florida - Emilie P. Demard, PhD (she/her/hers); Lauren Diepenbrock
5:45 PM - 6:00 PM Pacific: Panel discussion –

Title: The Sterile Insect Technique: Innovations, Challenges, and Future Directions

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Marion Le Gall (she/her/hers)- M3 Agriculture Technologies
Categories: Member Symposium; Plant-Insect Ecosystems; Medical, Urban, and Veterinary Entomology
Abstract: This symposium showcases the broad scope of SIT research: from genetic strain to stakeholder outreach and spans agricultural, veterinary, and public health pests. It highlights the global move from gamma to X-ray irradiation alongside innovations in radiobiology, system design, and interdisciplinary approaches driving the future of sustainable pest management.
Tracks: Member Symposium; Plant-Insect Ecosystems; Medical, Urban, and Veterinary Entomology
Presentations:
2:00 PM - 2:02 PM Pacific: Introductory remarks. Presenting Author: Marion Le Gall (she/her/hers)- M3 Agriculture Technologies - Marion Le Gall (she/her/hers)
2:02 PM - 2:20 PM Pacific: A flow cytometry-based diagnosis: Electron beam radiation induces DNA endoreplication in holometabolous juvenile insects. Presenting Author: Keyan Zhu Salzman- Texas A&M University. Jiaxin Lei- Texas A&M University. Suresh Pillai- Texas A&M University - Keyan Zhu Salzman; Jiaxin Lei; Suresh Pillai

2:20 PM - 2:38 PM Pacific: Unnatural selection: Using x-rays to stop the spread of deadly Aedes mosquitoes. Presenting Author: Brent Phelan- Rad Source Technologies, Inc. - Brent Phelan
2:38 PM - 2:56 PM Pacific: Operationalising use of X-rays for SIT application against an African malaria vector species. Presenting Author: Jodi Lieberman- Sandia National Laboratories. Givemore Munhenga- Vector Reference Laboratory, Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases, National Health Laboratory Services. Thabo Mashatola- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Windy Segkele- Vector Reference Laboratory, Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases, National Health Laboratory Services. Theresa Mazarire- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Nonhlanhla Ntoyi- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Elliot Marubini- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Melba Makhubela- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Witness Ramashia- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Fortunate Moletsane- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Malibongwe Zulu- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Joseph Segkele- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Dumisani Dlamini- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Nondumiso Mabaso- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Thobelani Mabaso- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Zandile Ntuli- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Michael Samuel- Wits Research Institute for Malaria, Faculty of Health Sciences, University of the Witwatersrand. Desmond Conlong- Stellenbosch University - Jodi Lieberman; Givemore Munhenga; Thabo Mashatola; Windy Segkele; Theresa Mazarire; Nonhlanhla Ntoyi; Elliot Marubini; Melba Makhubela; Witness Ramashia; Fortunate Moletsane; Malibongwe Zulu; Joseph Segkele; Dumisani Dlamini; Nondumiso Mabaso; Thobelani Mabaso; Zandile Ntuli; Michael Samuel; Desmond Conlong
2:56 PM - 3:14 PM Pacific: X-rays are just as good as gamma rays for sterilization and sterile male mating competitiveness in the mosquito Aedes aegypti, but are there source-based differences in cellular damage?. Presenting Author: Daniel Hahn- University of Florida - Daniel Hahn
3:14 PM - 3:24 PM Pacific: Break -
3:24 PM - 3:42 PM Pacific: Hard and soft Xrays as alternatives to gamma-irradiation for sterilization of navel orangeworm (A. transitella) used in sterile insect technique. Presenting Author: Lars Laber (he/him/his)- University of California. Charles S. Burks (he/him/his)- USDA-ARS. Houston Wilson (he/him/his)- University of California - Lars Laber (he/him/his); Charles S. Burks (he/him/his); Houston Wilson (he/him/his)
3:42 PM - 4:00 PM Pacific: Advances in chilled adult insect SIT x-ray irradiation systems. Presenting Author: William McLaughlin- Precision X-Ray Inc.. Jiaqi Lyu- Precision X-Ray Inc. - William McLaughlin; Jiaqi Lyu
4:00 PM - 4:18 PM Pacific: Advancing codling moth SIT: Precision sterilization using a modular x-ray system. Presenting Author: Marion Le Gall (she/her/hers)- M3 Agriculture Technologies. Joe Hull- USDA-ARS. Carolyn Huynh (she/her/hers)- M3 Agriculture Technologies. Kevin Rice- Virginia Polytechnic Institute and State University. Inana Schutze Szczepanek- USDA ARS, U.S. Arid Land Agricultural Research Center, Maricopa, AZ, 85138, USA. Tom Tiedemann Jr- M3 Agriculture Technologies. Nathan Moses-Gonzales- M3 Agriculture Technologies - Marion Le Gall (she/her/hers); Joe Hull; Carolyn Huynh (she/her/hers); Kevin Rice; Inana Schutze Szczepanek; Tom Tiedemann Jr; Nathan Moses-Gonzales
4:18 PM - 4:36 PM Pacific: Understanding apple growers' perspectives on the sterile insect technique for codling moth management in Virginia: Implications for adoption and outreach. Presenting Author: Jean Parella- Virginia Polytechnic Institute and State University. Kevin Rice- Virginia Polytechnic Institute and State University. Marion Le Gall (she/her/hers)- M3 Agriculture Technologies - Jean Parella; Kevin Rice; Marion Le Gall (she/her/hers)
4:36 PM - 4:46 PM Pacific: Break -
4:46 PM - 5:04 PM Pacific: Gamma and X rays to be used for the sterile insect technique. Presenting Author: Chantel de Beer- International Atomic Energy Agency - Chantel de Beer
5:04 PM - 5:22 PM Pacific: The use of x-ray irradiation as a tool forLygus hesperussterilization. Presenting Author: Inana X. Schutze (she/her/hers)- USDA-ARS. Colin Brent- USDA ARS, U.S. Arid Land Agricultural Research Center, Maricopa, AZ, 85138, USA. Yu-Hui Wang- USDA ARS, U.S. Arid Land Agricultural Research Center, Maricopa, AZ, 85138, USA. Scott Machtley- USDA. Jeffrey A. Fabrick (he/him/his)- USDA-ARS. Marion Le Gall (she/her/hers)- M3 Agriculture Technologies. Nathan Moses-Gonzales- M3 Agriculture Technologies. Joe Hull- USDA-ARS - Inana X. Schutze (she/her/hers); Colin Brent; Yu-Hui Wang; Scott Machtley; Jeffrey A. Fabrick (he/him/his); Marion Le Gall (she/her/hers); Nathan Moses-Gonzales; Joe Hull

5:22 PM - 5:40 PM Pacific: Outbreak population genetics of the New World screwworm, Cochliomyia hominivorax, and a comparison to the new production strain. Presenting Author: Mackenzie Tietjen- USDA-ARS - Mackenzie Tietjen
5:40 PM - 5:58 PM Pacific: Modern innovations and future directions in high energy SIT. Presenting Author: Nathan Moses-Gonzales- M3 Agriculture Technologies. Carolyn Huynh (she/her/hers)- M3 Agriculture Technologies. Marion Le Gall (she/her/hers)- M3 Agriculture Technologies - Nathan Moses-Gonzales; Carolyn Huynh (she/her/hers); Marion Le Gall (she/her/hers)
5:58 PM - 6:00 PM Pacific: Closing remarks. Presenting Author: Marion Le Gall (she/her/hers)- M3 Agriculture Technologies - Marion Le Gall (she/her/hers)

Title: Diverg-Ent: Challenges, Successes, and Strategies of Neurodiverse Entomologists

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Codey Mathis (she/they)- Pennsylvania State University; Brittany Kohler- University of California; Rae Olsson- Washington State University
Categories: Workshop; Diversity, Equity, and Inclusion
Abstract: Neurodiversity defines that individuals experience and interact with the world differently. By better understanding these differences, we can be more compassionate and accommodating in our professional and personal lives. In this workshop, attendees can learn more and discuss this topic with neurodivergent colleagues in a safe and accepting environment.
Tracks: Workshop; Diversity, Equity, and Inclusion

Title: From Legacy to Innovation: Machine Learning for Modern Systematic Entomology

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, A106, OCC
Organizers: Marek Borowiec (he/him/his)- Colorado State University; Bruno de Medeiros- Field Museum
Categories: Workshop; Machine Learning and AI
Abstract: Learn how machine learning is transforming systematic entomology! This hands-on workshop covers AI tools for species identification, literature mining, and specimen data extraction. Through interactive tutorials in Google Colab, Claude, and RoboFlow, participants will gain practical skills to apply AI in research. No coding experience required, but bring a laptop!
Tracks: Workshop; Machine Learning and AI

Title: 10-min: PBT, Honey Bee and Social Insects Toxicology and Physiology

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, F151, OCC
Organizers:
Categories: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Tracks: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Presentations:
2:00 PM - 2:12 PM Pacific: A glyphosate-based herbicide compromises male fertility in common eastern bumble bees,Bombus impatiens. Presenting Author: Anderw Brown- University of Bern. Verena Strobl, n/a- University of Bern. Andree Rousseau, n/a- Quebec center for Biodiversity Science. Peter Neumann, n/a- University of Bern. Pierre Giovenazzo, n/a- Laval University. Lars Straub, PhD- Institute of Bee Health - Anderw Brown; Verena Strobl, n/a; Andree Rousseau, n/a; Peter Neumann, n/a; Pierre Giovenazzo, n/a; Lars Straub, PhD
2:12 PM - 2:24 PM Pacific: Aging in a solitary bee, Megachile rotundata, the alfalfa leafcutting bee. Presenting Author: Kendra J. Greenlee (she/her/hers)- North Dakota State University. Jacob Pithan- North Dakota State University. Joseph Rinehart- USDA-ARS. Julia Bowsher- North Dakota State University - Kendra J. Greenlee (she/her/hers); Jacob Pithan; Joseph Rinehart; Julia Bowsher
2:24 PM - 2:36 PM Pacific: Bees, birds, and buffets: The effects of ad libitum feeding on pathogen burden in the Western honey bee. Presenting Author: Josiah Benjamin Kaderis- University of Georgia - Josiah Benjamin Kaderis
2:36 PM - 2:48 PM Pacific: Can high-quality pollen supplementation improve honey bee (Apis mellifera) overwintering survival?. Presenting Author: Myra Dickey- University of Illinois. Alexandria Payne- United States Department of Agriculture. Ashley St. Clair (she/her/hers)- Corteva Agriscience. Vincent Prayugo- University of Illinois. Gyan Harwood- University of Illinois Urbana-Champaign. Madeleine Shapiro- UIUC. Lincoln Nian Taylor (he/him/his)- University of Colorado. Adam Dolezal- University of Illinois - Myra Dickey; Alexandria Payne; Ashley

St. Clair (she/her/hers); Vincent Prayugo; Gyan Harwood; Madeleine Shapiro; Lincoln Nian Taylor (he/him/his); Adam Dolezal
2:48 PM - 3:00 PM Pacific: Cellular stress to collective action: How heat and social context influence honeybee fanning behavior. Presenting Author: Rachael Halby (she/her/hers)- Marquette University. Chelsea Cook- Marquette University - Rachael Halby (she/her/hers); Chelsea Cook
3:00 PM - 3:12 PM Pacific: Comparative evaluation of commercial protein supplements on honey bee (Apis mellifera) health under laboratory conditions. Presenting Author: Saeed Mohamadzade Namin- Oregon State University. Hannah Lucas- Department of Horticulture, Oregon State University. Carolyn Breece (she/her/hers)- Oregon State University. Ellen Topotzhofer- Department of Horticulture, Oregon State University. Nathalie A. Steinhauer- Oregon State University. Ramesh Sagili (he/him/his)- Oregon State University - Saeed Mohamadzade Namin; Hannah Lucas; Carolyn Breece (she/her/hers); Ellen Topotzhofer; Nathalie A. Steinhauer; Ramesh Sagili (he/him/his)
3:12 PM - 3:24 PM Pacific: Break -
3:24 PM - 3:36 PM Pacific: Dynamics of virus infection and immune response reaction in honey bees (Apis melliferaL.) castes. Presenting Author: Bita Valizadeh, PhD- Mississippi State University - Bita Valizadeh, PhD
3:36 PM - 3:48 PM Pacific: Effects of chronic sub-lethal exposure to thiamethoxam and flupyradifurone on the foraging behavior of Apis mellifera (Hymenoptera: Apidae) monitored using an RFID system. Presenting Author: Youngcheon Lim- Seoul National University. Joonhee Lee- Seoul National University. Si Hyeock Lee- Seoul National University - Youngcheon Lim; Joonhee Lee; Si Hyeock Lee
3:48 PM - 4:00 PM Pacific: Exploring larva-synthesized attractants for managing small hive beetles, Aethina tumida: Implications for honeybee health. Presenting Author: Bashiru Adams, PhD- Mississippi State University. Natraj Krishnan- Mississippi State University. Esmaeil Amiri- Mississippi State University. Jian Chen- Biological Control of Pests Research Unit, USDA-ARS, Stoneville, MS - Bashiru Adams, PhD; Natraj Krishnan; Esmaeil Amiri; Jian Chen
4:00 PM - 4:12 PM Pacific: Friend or foe? Aggressive and non-aggressive behaviors in Dorymyrmex species. Presenting Author: Renee Nowicki- Georgia Southern University. Joshua Gibson- Georgia Southern University - Renee Nowicki; Joshua Gibson
4:12 PM - 4:24 PM Pacific: Kleptocytosis: A novel parasitic strategy for accelerated reproduction via host protein stealing in Varroa destructor. Presenting Author: Samuel D. Ramsey- University of Colorado. Lincoln Nian Taylor (he/him/his)- University of Colorado. Madison Sankovitz- University of Colorado. Justin Hein (he/him/his)- CU Boulder. Connor Gulbronson- Indiana University School of Medicine. Jay Evans- USDA-ARS. Steven Cook- USDA-ARS. Dennis VanEngelsdorp- University of Maryland. Ronald Ochoa- USDA-ARS. Daniel Sonenshine (he/him/his)- Old Dominion University - Samuel D. Ramsey; Lincoln Nian Taylor (he/him/his); Madison Sankovitz; Justin Hein (he/him/his); Connor Gulbronson; Jay Evans; Steven Cook; Dennis VanEngelsdorp; Ronald Ochoa; Daniel Sonenshine (he/him/his)
4:24 PM - 4:36 PM Pacific: Lethal and sublethal effects of a frequently used pesticide synergist, piperonyl butoxide (PBO), on the common eastern bumblebee (Bombus impatiens). Presenting Author: Danielle Dryer, M.S.- Cornell University. Karen Salazar- California State University Fullerton. Leeah I. Richardson- University of Texas. Felicity Muth- University of Nevada, Reno. Scott McArt- Cornell University - Danielle Dryer, M.S.; Karen Salazar; Leeah I. Richardson; Felicity Muth; Scott McArt
4:36 PM - 4:48 PM Pacific: Break -
4:48 PM - 5:00 PM Pacific: Metabolic resilience to starvation is shaped by early-life maternal care in bumble bees. Presenting Author: Claudineia Pereira Costa- University of California. Hollis Woodard (she/her/hers)- University of California - Claudineia Pereira Costa; Hollis Woodard (she/her/hers)
5:00 PM - 5:12 PM Pacific: Social and individual responses to novel odor stimuli between honey bee genotypes. Presenting Author: Ysabel Milton Giraldo- University of California. Barbara Bar-Imhoof- University of California, Riverside. V. Gowri- University of California, Riverside. Boris Baer- University of California - Ysabel Milton Giraldo; Barbara Bar-Imhoof; V. Gowri; Boris Baer
5:12 PM - 5:24 PM Pacific: Stressful aging: Telomere dynamics and oxidative stress from extreme heat in Megachile rotundata. Presenting Author: Andre Sigal- North Dakota State University. Julia Bowsher- North Dakota State University. Kendra J. Greenlee (she/her/hers)- North Dakota State University - Andre Sigal; Julia Bowsher; Kendra J. Greenlee (she/her/hers)
5:24 PM - 5:36 PM Pacific: The effects of heat stress on honey bee (Apis mellifera) physiology and health. Presenting Author: Adrian Fisher- Arizona State University. Sarah Jendresky- Arizona State University. Cahit Ozturk- Arizona State University - Adrian Fisher; Sarah Jendresky; Cahit Ozturk
5:36 PM - 5:48 PM Pacific: Understanding the dose-dependent effect of Nosema ceranae infection on honey bee innate immune system. Presenting Author: Michael Edward Oeth- University of Southern Mississippi. Deepak Kumar- BEES, The University of Southern Mississippi. Mohamed Alburaki, USDA-ARS Research Entoologist- USDA-ARS. Michael Goblirsch, USDA-ARS Research Entoologist- USDA-ARS Poplarville. John adamczyk,

USDA-ARS Research Entoologist- USDA-ARS Poplarville. shahid Karim- The University of Southern Mississippi - Michael Edward Oeth; Deepak Kumar; Mohamed Alburaki, USDA-ARS Research Entoologist; Michael Goblirsch, USDA-ARS Research Entoologist; John adamczyk, USDA-ARS Research Entoologist; shahid Karim
5:48 PM - 6:00 PM Pacific: Using a two-level system to test toxicity to honey bees (Apis mellifera) for development of pollinator-friendly pesticide adjuvants. Presenting Author: Weiqiang Zhang (he/him/his)- USDA-ARS. Narayanan Kannan- Pollinator Health in Southern Crop Ecosystems Research Unit, USDA - ARS - Weiqiang Zhang (he/him/his); Narayanan Kannan

Title: 10-min: SysEB, Biodiversity 2 - Functional Ecology

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:
2:00 PM - 2:12 PM Pacific: Biogeography of Neotropical stingless bees (Apidae: Meliponini). Presenting Author: Jillian Kristine Schat, Ph.D.- Biodiversity Outreach Network. Oscar Martinez Lopez, PhD- University of California. Melissa Guzman, Ph.D.- Cornell University. Neil Cobb, Ph.D.- Biodiversity Outreach Network - Jillian Kristine Schat, Ph.D.; Oscar Martinez Lopez, PhD; Melissa Guzman, Ph.D.; Neil Cobb, Ph.D.
2:12 PM - 2:24 PM Pacific: Captive conditions, wild relevance: Reproductive status and sex influence lifespan in sentinel species Tetragnatha versicolor. Presenting Author: Kyra D. Ortiz- California Academy of Sciences - Kyra D. Ortiz
2:24 PM - 2:36 PM Pacific: Diversity and population dynamics of some predatory spiders from district Loralai, Balochistan, Pakistan. Presenting Author: Bilal Saeed Khan, PhD (he/him/his)- University of Agriculture. Muhammad Aneeb Shahzad- University of Agriculture, FSD, PAK. Abdul Rehman- University of Agriculture, FSD, PAK - Bilal Saeed Khan, PhD (he/him/his); Muhammad Aneeb Shahzad; Abdul Rehman
2:36 PM - 2:48 PM Pacific: Ecological drivers of vector abundance across Lithuania. Presenting Author: Nathan Jay Baker (he/him/his)- State Scientific Research Institute Nature Research Centre. Vaidas Palinauskas, n/a- State Scientific Research Institute Nature Research Centre - Nathan Jay Baker (he/him/his); Vaidas Palinauskas, n/a
2:48 PM - 3:00 PM Pacific: Effects of ranching for predator coexistence on bee habitat in the Greater Yellowstone Ecosystem. Presenting Author: Sarah Red-Laird (she/her/hers)- Bee Regenerative - Sarah Red-Laird (she/her/hers)
3:00 PM - 3:12 PM Pacific: From flowers to provisions: How resource availability shapes foraging and nesting success in Osmia lignaria (Megachilidae). Presenting Author: Magda Paola Argueta (she/her/hers)- University of California - Magda Paola Argueta (she/her/hers)
3:12 PM - 3:24 PM Pacific: Break -
3:24 PM - 3:36 PM Pacific: Functions and role of soil arthropod diversity in succession in reclaimed mine spoil system. Presenting Author: Vidya Kumari- Ranchi University. Brajkishore Sinha, PhD- Department of Zoology, Ranchi University - Vidya Kumari; Brajkishore Sinha, PhD
3:36 PM - 3:48 PM Pacific: How does colony aggression influence nest architecture in honey bees?. Presenting Author: Peter R. Marting- Auburn University. Michael Smith- Cornell University - Peter R. Marting; Michael Smith
3:48 PM - 4:00 PM Pacific: Land-use intensification as a major driver of decreasing butterfly populations in Mexico. Presenting Author: Jorge L. Leon-Cortes- El Colegio de la Frontera Sur. Andrea Murillo-Vzquez- El Colegio de la Frontera Sur (ECOSUR) - Jorge L. Leon-Cortes; Andrea Murillo-Vzquez
4:00 PM - 4:12 PM Pacific: Large-bodied, kleptoparasitic, and social bee species are overrepresented on the iNaturalist platform in California. Presenting Author: Lucia Weinman (she/her/hers)- University of California. Elizabeth Crone- University of California. Abigail Lehner- University of California. Neal M. Williams- University of California. John Ascher (he/him/his)- National University of Singapore. Keng-Lou James Hung (he/him/his)- The University of Oklahoma - Lucia Weinman (she/her/hers); Elizabeth Crone; Abigail Lehner; Neal M. Williams; John Ascher (he/him/his); Keng-Lou James Hung (he/him/his)
4:12 PM - 4:24 PM Pacific: Microbial communities and host plants of Megachilidae in the Greater Grand Forks Area (GGFA). Presenting Author: Sara Margit Wallace- University of North Dakota. Rebecca Simmons- University of North Dakota - Sara Margit Wallace; Rebecca Simmons
4:24 PM - 4:36 PM Pacific: Break -
4:36 PM - 4:48 PM Pacific: Parallel or divergent paths? The impact of intracellular mutualism on genome evolution in prokaryotes and eukaryotes. Presenting Author: Vincent Martinson- University of New Mexico - Vincent Martinson

4:48 PM - 5:00 PM Pacific: Post-wildfire recovery of macrolepidopteran communities in the northern California chaparral. Presenting Author: Donald G. Miller, III, Ph.D.- California State University - Donald G. Miller, III, Ph.D.
5:00 PM - 5:12 PM Pacific: Structure-function relationships in mole crickets: Patterns of transition metal allocation among cuticular tools support the metal-prioritization hypothesis. Presenting Author: Matthew S. Lehnert- Kent State University - Matthew S. Lehnert
5:12 PM - 5:24 PM Pacific: The abundance-distribution relationship of two sympatric millipede species, the critically imperiled Florida scrub millipede, Floridobolus penneri, and the smokey oak millipede, Narceus gordanus. Presenting Author: Anne Sawl- University of South Florida. Deby Cassill- University of South Florida - Anne Sawl; Deby Cassill
5:24 PM - 5:36 PM Pacific: A non-lethal native bee camera trap to support sustainable agriculture practice and environmental protection. Presenting Author: Hannah Markle- VecTech, LLC. Jaykob Cave-Stevens- VecTech, LLC. Harriet Harris- VecTech, LLC. Audrey Talish- VecTech, LLC. Samantha Frink- VecTech, LLC. Roy Faiman- VecTech, LLC. Autumn Goodwin- VecTech LLC - Hannah Markle; Jaykob Cave-Stevens; Harriet Harris; Audrey Talish; Samantha Frink; Roy Faiman; Autumn Goodwin
5:36 PM - 5:48 PM Pacific: The phylogenomic landscape of an understory ant-plant symbiosis in the Neotropics. Presenting Author: Rodolfo S. Probst- University of Utah. John T. Longino (he/him/his)- University of Utah. Michael Branstetter- USDA-ARS - Rodolfo S. Probst; John T. Longino (he/him/his); Michael Branstetter
5:48 PM - 6:00 PM Pacific: The impact of extinction on biological communities through deep time. Presenting Author: Gianpiero Fiorentino- New Jersey Institute of Technology. Phillip Barden (he/him/his)- New Jersey Institute of Technology - Gianpiero Fiorentino; Phillip Barden (he/him/his)

Title: 10-min: P-IE, IPM - Horticulture 2

Time: **2:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, E146, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
2:00 PM - 2:12 PM Pacific: AI-based morphometric profiling of the tenebrionidae triad for species identification using image fragment analysis and EfficientNet B0. Presenting Author: Ronnie Opone Serfa Juan, PhD (he/him/his)- USDA-ARS. Alison Gerken- USDA-ARS - Ronnie Opone Serfa Juan, PhD (he/him/his); Alison Gerken
2:12 PM - 2:24 PM Pacific: Can hedgerows near diverse cropping systems enhance beneficial arthropod communities?. Presenting Author: Heather E. Andrews- Oregon State University. Scott Lukas- Oregon State University North Willamette Research and Extension Center. Lloyd Nackley- Oregon State University North Willamette Research and Extension Center. Heidi Noordijk- Oregon State University North Willamette Research and Extension Center. Andony Melothopoulos- Oregon State University. Christopher Adams- Oregon State University. Maggie Freeman- Oregon State University. Corin Pease- Xerces Society. Kody Transue- Oregon State University North Willamette Research and Extension Center. Nik Wiman- Oregon State University - Heather E. Andrews; Scott Lukas; Lloyd Nackley; Heidi Noordijk; Andony Melothopoulos; Christopher Adams; Maggie Freeman; Corin Pease; Kody Transue; Nik Wiman
2:24 PM - 2:36 PM Pacific: Comparative analysis of European pepper moth damage and host preference in greenhouse vs. field-grown container plants. Presenting Author: Rafia Khan- Texas A&M University - Rafia Khan
2:36 PM - 2:48 PM Pacific: Damage characterization of Chrysobothris mali Horn (Coleoptera: Buprestidae) in California walnuts. Presenting Author: Samaneh Sakaki (she/her/hers)- UC Agriculture and Natural Resources. Sudan Gyawaly- University of California. Jhalendra Rijal (he/him/his)- University of California - Samaneh Sakaki (she/her/hers); Sudan Gyawaly; Jhalendra Rijal (he/him/his)
2:48 PM - 3:00 PM Pacific: Effectiveness of Citrus clementina peel and leaf powder in managing Sitophilus zeamais. Presenting Author: Bongumusa Gumede. Gugulethu Mathews Miya. Adebola Omowunmi Oyedeji. Yiseyon Sunday Hosu. Opeoluwa Oyehan Oyedeji. Ludwe Majiza. Simon Kamande Kuria - Bongumusa Gumede; Gugulethu Mathews Miya; Adebola Omowunmi Oyedeji; Yiseyon Sunday Hosu; Opeoluwa Oyehan Oyedeji; Ludwe Majiza; Simon Kamande Kuria
3:00 PM - 3:12 PM Pacific: Break -
3:12 PM - 3:24 PM Pacific: Evaluation of repellent effects of plant-based essential oils, red dye, and kaolin on Asian citrus psyllid. Presenting Author: Romain Exilien, PhD- University of Florida. Xavier Martini- University of Florida. Jawwad Qureshi- University of Florida - Romain Exilien, PhD; Xavier Martini; Jawwad Qureshi

3:24 PM - 3:36 PM Pacific: Feeding potential of Amblyseius swirskii (Acari: Phytoseiidae) against two stored product mites: Carpoglyphus lactis and Tetranychus urticae. Presenting Author: Mujahid Manzoor, PhD- Crop Defenders - Mujahid Manzoor, PhD
3:36 PM - 3:48 PM Pacific: Integrating AI-based image recognition and DNA barcoding for the assessment of insect bioindicators in urban rivers and grassland ecosystems of central Texas. Presenting Author: Jose Rodolfo Valdez Barillas- Texas A&M University. Elizabeth Borda- Texas A&M University-San Antonio. Ashley Teufel- Texas A&M University-San Antonio - Jose Rodolfo Valdez Barillas; Elizabeth Borda; Ashley Teufel
3:48 PM - 4:00 PM Pacific: Integrating technology in pest management: A focus on spotted wing drosophila. Presenting Author: Waana Kaluwasha (she/her/hers)- Lincoln University of Missouri. Jianfeng Zhou- University of Missouri. Maciej Pszczolkowski- Missouri State University. Clement Akotsen-Mensah- Lincoln University. Tianqi Yao- University of Missouri. Bishal Pandey- Lincoln University of Missouri. Sarah Turner- Lincoln University of Missouri - Waana Kaluwasha (she/her/hers); Jianfeng Zhou; Maciej Pszczolkowski; Clement Akotsen-Mensah; Tianqi Yao; Bishal Pandey; Sarah Turner
4:00 PM - 4:12 PM Pacific: Machine learning for predicting western flower thrips population dynamics. Presenting Author: Arinder Arora- Texas A&M University. Kristen Tatro- Texas A&M AgriLife Research. Bethany Martinek- Texas A&M AgriLife Research. Nolan Anderson- Texas A&M AgriLife Research. Kiran Gadhave- Texas A&M University - Arinder Arora; Kristen Tatro; Bethany Martinek; Nolan Anderson; Kiran Gadhave
4:12 PM - 4:24 PM Pacific: Modeling ambrosia beetle flight phenology in Ohio. Presenting Author: Julie Baniszewski- United States Department of Agriculture. Patrick Tobin- University of Washington. Alejandro Del-Pozo- Virginia Polytechnic Institute and State University. Michael Reding- United States Department of Agriculture. Christopher M. Ranger (he/him/his)- USDA-ARS - Julie Baniszewski; Patrick Tobin; Alejandro Del-Pozo; Michael Reding; Christopher M. Ranger (he/him/his)
4:24 PM - 4:36 PM Pacific: Break -
4:36 PM - 4:48 PM Pacific: Putting ants to work: A scalable eDNA approach for detecting spotted lanternfly. Presenting Author: Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University. Tracy C. Leskey- United States Department of Agriculture. Wei-Jiun Lin- Department of Entomology, Virginia Tech. Fang-Ling Liu- Virginia Polytechnic Institute and State University - Chin-Cheng Scotty Yang; Tracy C. Leskey; Wei-Jiun Lin; Fang-Ling Liu
4:48 PM - 5:00 PM Pacific: Rapid and non-destructive method to discriminate irradiated Mediterranean fruit fly (medfly),Ceratitis capitata(Wiedemann) for sterile insect release programs using near-infrared spectroscopy. Presenting Author: Peishih Liang (she/her/hers)- USDA-ARS. Peter Follett- USDA-ARS. Charles Mason- USDA ARS - Peishih Liang (she/her/hers); Peter Follett; Charles Mason
5:00 PM - 5:12 PM Pacific: Sustainable management of red flour beetle, Tribolium castaneum(Coleoptera: Tenebrionidae) by using plant derivates and its combination with entomopathogen fungi. Presenting Author: Shahbaz Ahmad, PhD- University of the Punjab - Shahbaz Ahmad, PhD
5:12 PM - 5:24 PM Pacific: Understanding seasonal phenology of carpophilus beetle in California's nut orchards. Presenting Author: Mahesh Ghimire- University of California. Houston Wilson (he/him/his)- University of California. David Haviland- University of California Coop. Ext.. Sudan Gyawaly- University of California. Raman Bansal- USDA-ARS. Jhalendra Rijal (he/him/his)- University of California. David Madge- Agriculture Victoria - Mahesh Ghimire; Houston Wilson (he/him/his); David Haviland; Sudan Gyawaly; Raman Bansal; Jhalendra Rijal (he/him/his); David Madge
5:24 PM - 5:36 PM Pacific: UV-C applicator to manage western flower thrips in greenhouse ornamentals. Presenting Author: Somaiyeh Ghasemzadeh (she/her/hers)- University of Vermont. Richard Bamford- University of Vermont. Margaret Skinner- University of Vermont. Bruce L. Parker- University of Vermont - Somaiyeh Ghasemzadeh (she/her/hers); Richard Bamford; Margaret Skinner; Bruce L. Parker

Title: INSECTOPOLIS: A Graphic Novel History of Insects and Book Signing

Time: **3:00 PM - 3:40** PM Pacific
Location: Oregon Convention Center, Demonstration Stage (in the Exhibit Hall), OCC
Organizers:
Categories: Meetings & Events; Exhibit Hall; Exhibitor Demonstration Stage
Abstract: Join this year's ESA Science Communication award winner, Peter Kuper, as discusses his graphic novel, Insectopolis a history of insects and the people who have studied them. Through a visual presentation, Kuper gives you a tour through his process of creating his book and much more. Peter's illustrations and comics have appeared in publications around the world including; The New Yorker, The Nation, Charlie Hebdo and MAD magazine where he has written and illustrated SPY vs. SPY since 1997.He is the co-founder of World War 3 Illustrated a political graphics magazine and has produced over two dozen books. He was the recipient of the 2020-21 Cullman Fellowship at The New York Public Library,t he 2024 RFK Journalism Award for cartooning and

the 2025 Herblock Finalist Prize.He teaches cartooning at Harvard University. Graphic novelist Peter Kuper will be signing copies of his recent books following his presentation and again on Wednesday, November 12, **9:30 - 10:30** a.m. in the ESA Booth. "It's generous of the insects to share their planet with us, and that's never been more powerfully (and charmingly) illustrated than by Peter Kuper. This book will reorient your understanding of humanity's place on earth." -- Bill McKibben, author of The End of Nature
Tracks: Meetings & Events; Exhibit Hall; Exhibitor Demonstration Stage

Title: The Pin Down: Insect Mounting Challenge
Time: **3:00 PM - 4:30** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers: Laissa Cavallini (she/her/hers)- North Carolina State University; Thomas Sheehan (he/him/his)- University of Georgia; Carmela Buono- Ecology Supplies
Categories: Meetings & Events; Exhibit Hall
Tracks: Meetings & Events; Exhibit Hall

Title: Student Affairs Committee Meeting
Time: **3:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Danielle Tempesta- Entomological Society of America; Michelle G. Au- University of Hawaii
Categories: Meetings & Events; Committee Meeting; Student
Tracks: Meetings & Events; Committee Meeting; Student

Title: Publications Council Meeting
Time: **3:30 PM - 5:00** PM Pacific
Location: Oregon Convention Center, G130, OCC
Organizers: Josh Lancette- Entomological Society of America
Categories: Meetings & Events; Committee Meeting; Publications
Tracks: Meetings & Events; Committee Meeting; Publications

Title: Professional Advancement Career Training (PACT) Reception (Invitation Only)
Time: **4:00 PM - 5:00** PM Pacific
Location: Hyatt Regency Portland, Multnomah Room, Hyatt
Organizers: Erin Cadwalader- Entomological Society of America
Categories: Meetings & Events
Tracks: Meetings & Events

Title: 10-min: P-IE, Host Plant Resistance
Time: **4:00 PM - 6:00** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
4:00 PM - 4:12 PM Pacific: A Methylorubrum extorquens product, TS201, uses induced systemic resistance and plant volatile emissions to control corn rootworm. Presenting Author: Natalie Breakfield, Ph.D. (she/her/hers)- NewLeaf Symbiotics. Man Huynh (he/him/his)- University of Missouri. Khanh-Van Ho- University of Missouri - Columbia. Anne Phillips, Ph.D.- NewLeaf Symbiotics. Amanda Ernwall- University of Missouri - Columbia. Dalton Ludwick- USDA-ARS. Deborah Finke- University of Missouri. Zhentian Lei- University of Missouri - Columbia. Allison Jack, Ph.D.- NewLeaf Symbiotics. Bruce Hibbard- USDA-ARS - Natalie Breakfield, Ph.D. (she/her/hers); Man Huynh (he/him/his); Khanh-Van Ho; Anne Phillips, Ph.D.; Amanda Ernwall; Dalton Ludwick; Deborah Finke; Zhentian Lei; Allison Jack, Ph.D.; Bruce Hibbard
4:12 PM - 4:24 PM Pacific: Anatomy of an outbreak: once a Dendroctonus, always a Dendroctonus. Presenting Author: Brian Aukema- University of Minnesota. Grace Graham- Alaska Division of Forestry and Fire Protection. Fraser McKee- Alberta Forestry & Parks. Daniel Griffin- Department of Geography, Environment & Society. Marcella Windmuller-Campione- Department of Forest Resources - Brian Aukema; Grace Graham; Fraser McKee; Daniel Griffin; Marcella Windmuller-Campione

4:24 PM - 4:36 PM Pacific: Compost amendment alters kale (Brassica oleracea) susceptibility to green peach aphids (Myzus persicae) in a soil microbiome-dependent manner. Presenting Author: Clare L. Casteel- Cornell University. Ethan J. McAnally- Cornell University. Elias H. Bloom- Cornell University - Clare L. Casteel; Ethan J. McAnally; Elias H. Bloom
4:36 PM - 4:48 PM Pacific: Harnessing host plant resistance in Betula spp. to manage Popillia japonicain ornamental landscapes. Presenting Author: Matthew Gullickson- University of Minnesota. Katrina Freund Saxhaug- University of Minnesota. Forest Hunt- University of Minnesota. Mary Rogers- University of Minnesota. Adrian Hegeman- University of Minnesota. Brandon Miller- University of Minnesota - Matthew Gullickson; Katrina Freund Saxhaug; Forest Hunt; Mary Rogers; Adrian Hegeman; Brandon Miller
4:48 PM - 5:00 PM Pacific: Integration of host plant resistance and biological control: Effects of resistant sorghum cultivars on Melanaphis sorghi (Hemiptera: Aphididae) development and Coccinella septempunctata (Coleoptera: Coccinellidae) predation. Presenting Author: Rafael Hayashida- Oklahoma State university. Marina Olbrick Marabesi- Department of Plant Protection, Universidade Estadual Paulista "Jlio de Mesquita Filho", Botucatu, SP, BR. Wyatt Wyatt Hoback (he/him/his)- Oklahoma State University - Rafael Hayashida; Marina Olbrick Marabesi; Wyatt Wyatt Hoback (he/him/his)
5:00 PM - 5:12 PM Pacific: Metabolomic insights into host specialization and nutritional adaptation in a specialist root-feeding insect. Presenting Author: Man Huynh (he/him/his)- University of Missouri. Khanh-Van Ho- University of Missouri - Columbia. Deborah Finke- University of Missouri. Bruce Hibbard- USDA-ARS - Man Huynh (he/him/his); Khanh-Van Ho; Deborah Finke; Bruce Hibbard
5:12 PM - 5:24 PM Pacific: Root lignification as a defense against western corn rootworm. Presenting Author: Kyle Paddock- University of Missouri. Max Bentelspacher- University of Missouri. Jaime Barros-Rios- University of Missouri - Kyle Paddock; Max Bentelspacher; Jaime Barros-Rios
5:24 PM - 5:36 PM Pacific: Seasonal dynamics and rapidly induced changes in walnut phloem chemistry in response to infection with Geosmithia morbida. Presenting Author: Scott Gula- Purdue University. John Couture- Purdue University. Matthew Ginzel- Purdue University - Scott Gula; John Couture; Matthew Ginzel
5:36 PM - 5:48 PM Pacific: Targeting plant-aphid-microbe interactions for aphid control. Presenting Author: Honglin Feng- Louisiana State University - Honglin Feng
5:48 PM - 6:00 PM Pacific: Transgenerational effects induced by plant's anti-herbivory defenses. Presenting Author: Moshe Zaguri, PhD- Agricultural Research Organization. Jennifer Thaler- Cornell University - Moshe Zaguri, PhD; Jennifer Thaler

Title: Entomology Games - Finals
Time: **5:00 PM - 7:00** PM Pacific
Location: Oregon Convention Center, Oregon Ballroom, OCC
Organizers: Ashley Kennedy, BCE (she/her/hers)- Delaware Division of Fish & Wildlife Mosquito Control
Categories: Meetings & Events; Student
Abstract: The Entomology Games are a lively question-and-answer, college bowl-style competition on entomological facts played between university-sponsored student teams. Come root for your favorite team!
Tracks: Meetings & Events; Student

Title: BOMBUSS Working Group
Time: **5:00 PM - 7:00** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: James P. Strange, PhD- The Ohio State University; Elaine Evans (she/they)- University of Minnesota
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Korean Young Entomologists (KYE)
Time: **5:30 PM - 8:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers: Donghun Kim- Kyungpook National University; Jinmo Koo- Kyungpook National University; Sangwoo Seok- University of Florida
Categories: Member Symposium
Abstract: Korea Young Entomologists (KYE) is a global network of Korean entomologists, primarily based in the Americas and Korea. The goal is to share scientific research and provide information on studying abroad and job

opportunities. This section features presentations from various career levels, ranging from students to senior researchers.
Tracks: Member Symposium
Presentations:
5:30 PM - 5:35 PM Pacific: Introductory remarks. Presenting Author: Sangwoo Seok- University of Florida - Sangwoo Seok
5:35 PM - 5:45 PM Pacific: Stylopization of vespine wasps by Xenos and Nipponoxenos (Strepsiptera: Xenidae) in South Korea. Presenting Author: Jaehee Kim- Kyungpook National University. Ohseok Kwon- Kyungpook National University. Moon Bo Choi- Kyungpook National University - Jaehee Kim; Ohseok Kwon; Moon Bo Choi
5:45 PM - 5:55 PM Pacific: Insecticide response to fall webworm, Hyphantria cunea according to host plant species. Presenting Author: Dae Geun Lee- Kyungpook National University. Yi Seul Kim- Research Institute of Invertebrate Vector, Kyungpook National University. Young-hak Jeong- SM Biovision Co.. Abraham Okki Mwamula- Kyungpook National University. Dong-Woon Lee- Kyungpook National University - Dae Geun Lee; Yi Seul Kim; Young-hak Jeong; Abraham Okki Mwamula; Dong-Woon Lee
5:55 PM - 6:05 PM Pacific: Individual-based model to evaluate strategies to balance symbiont acquisition and predation avoidance by Riptortus pedestris (Hemiptera: Alydidae). Presenting Author: Jung-Wook Kho. Joo-Young Kim- Gachon University. Doo-Hyung Lee- Department of Life Sciences, Gachon University, South Korea - Jung-Wook Kho; Joo-Young Kim; Doo-Hyung Lee
6:05 PM - 6:15 PM Pacific: Current status of genetic resource research on endangered insect in Korea. Presenting Author: Jun Yang Jeong- Soonchunhyang University. Chan Eui Hong- Soonchunhyang University. Hyeon Jun Shin- Soonchunhyang University. Hyeok Lee- Soonchunhyang University. Gyeong Won Lee- Soonchunhyang University. Yi Seon Jang- Soonchunhyang University. Min Kyu Sang- Soonchunhyang University. Jie Eun Park- Soonchunhyang University. Dae Kwon Song- Soonchunhyang University. Yong Seok Lee- Soonchunhyang University - Jun Yang Jeong; Chan Eui Hong; Hyeon Jun Shin; Hyeok Lee; Gyeong Won Lee; Yi Seon Jang; Min Kyu Sang; Jie Eun Park; Dae Kwon Song; Yong Seok Lee
6:15 PM - 6:25 PM Pacific: Applying convolutional recurrent neural network on identification of four South Korean mosquitoes' wingbeat frequencies in a laboratory setting. Presenting Author: HakHyun Kim- Korea University. Jungyoon Lee- Division of Vectors and Parasitic Diseases, Korea Disease Control and Prevention Agency, Cheongju. Changseob Lim- Ojeong Resilience Institute. Eunbeen Kim- Korea University. Een Jun Hwang- Korea University. Hee-Il Ree- Division of Vectors and Parasitic Diseases, Korea Disease Control and Prevention Agency, Cheongju. Yeon Jae Bae- Korea University - HakHyun Kim; Jungyoon Lee; Changseob Lim; Eunbeen Kim; Een Jun Hwang; Hee-Il Ree; Yeon Jae Bae
6:25 PM - 6:45 PM Pacific: Panel discussion -
6:45 PM - 6:55 PM Pacific: Break -
6:55 PM - 7:10 PM Pacific: Integrative study of Vespa mandarinia ecology and management: Nesting behavior, trophic interactions, symbionts, and trap effectiveness. Presenting Author: Moon Bo Choi- Kyungpook National University. Jaehee Kim- Kyungpook National University. Ohseok Kwon- Kyungpook National University - Moon Bo Choi; Jaehee Kim; Ohseok Kwon
7:10 PM - 7:25 PM Pacific: From RNAi to virus: A long journey. Presenting Author: June Sunny Yoon- Jeonbuk National University - June Sunny Yoon
7:25 PM - 7:40 PM Pacific: Edible insects industry, history and challenge in the changing world. Presenting Author: Chuleui Jung- Gyeongkuk National University - Chuleui Jung
7:40 PM - 7:55 PM Pacific: Study on the criteria for pesticide efficacy and toxicity tests on trees in forests and residential areas. Presenting Author: Dong-Woon Lee- Kyungpook National University. Yi Seul Kim- Research Institute of Invertebrate Vector, Kyungpook National University. Oh-Gyeong Kwon- Department of Ecological Science, Kyungpook National University. Dae Geun Lee- Kyungpook National University. Young-hak Jeong- SM Biovision Co.. Sang-myeong Lee- SM Biovision Co.. Abraham Okki Mwamula- Kyungpook National University - Dong-Woon Lee; Yi Seul Kim; Oh-Gyeong Kwon; Dae Geun Lee; Young-hak Jeong; Sang-myeong Lee; Abraham Okki Mwamula
7:55 PM - 8:00 PM Pacific: Closing remarks. Presenting Author: Sangwoo Seok- University of Florida - Sangwoo Seok

Title: IOBC-NRS Annual Meeting
Time: **6:00 PM - 8:00** PM Pacific
Location: Oregon Convention Center, B115, OCC
Organizers: Mark Hoddle, Ph.D. D.Sc. (he/him/his)- University of California
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Tour: Portland After Dark: Nighttime Adventure and Foodie Tour
Time: **6:00 PM - 10:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: Experience Portland's nightlife! Visit Voodoo Doughnuts (or the group's choice), enjoy craft brews in the Pearl District, explore retro gaming at a legendary arcade, and savor dinner at Portland's famous food carts. End the night with breathtaking views from the Eastbank Esplanade. Note: food and beverage (outside of the van) is not included on this tour. Cost: $125 per person (minimum number of participants: 4)Includes: Voodoo Doughnuts (or the group's choice), Craft brews in the Pearl District, Retro gaming at a legendary arcade bar, Dinner at a famous Portland food cart pod, Views from the Eastbank Esplanade, Dedicated guide, and luxury transportation with snacks.
Tracks: Meetings & Events

Title: Overseas Chinese Entomologists Association Meeting
Time: **6:30 PM - 9:30** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers: Hongmei Li-Byarlay (she/her/hers)- Central State University; Zinan Wang (he/him/his)- Uiniversity of Kentucky
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Student Awards Ceremony
Time: **7:00 PM - 8:00** PM Pacific
Location: Oregon Convention Center, Oregon Ballroom, OCC
Organizers: Lina Bernaola- Texas A&M University; Michelle G. Au- University of Hawaii; Dalton Ludwick- USDA-ARS; Anh K. Tran (She/They)- ISK Biosciences
Categories: Plenary; Student
Abstract: Join us in celebrating this year's ESA student awards winners. Winners will be recognized for all ESA student awards, Entomology Games, and the student competition.
Tracks: Plenary; Student

Title: Editors Reception
Time: **7:00 PM - 8:00** PM Pacific
Location: Hyatt Regency Portland, Deschutes Ballroom C, Hyatt
Organizers: Josh Lancette- Entomological Society of America
Categories: Meetings & Events; Publications
Tracks: Meetings & Events; Publications

Title: The Coleopterists Society Meeting and Mixer
Time: **7:00 PM - 9:00** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Jennifer C. Girn- Museum of Texas Tech University; Pat Bouchard (he/him/his)- Canadian National Collection of Insects, Arachnids and Nematodes
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Society of Overseas Nepalese Entomologists Annual Meeting
Time: **7:00 PM - 9:00** PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers: Pragya Kiju (she/her/hers)- Clemson University; Kushal Naharki (he/him/his)- West Virginia University; Anjana Duwal (she/her/hers)- Louisiana State University; Saurav Ranabhat (he/him/his)- Louisiana State University; Yuna Gaire- University of Georgia; Binita Sigdel- Tennessee State University; Aradhana Shrestha- University of Hawaii; Bhawana Regmi (she/her/hers)- University of California
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Dipterists Society 34th General Meeting
Time: **7:00 PM - 9:00** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers: Matthew A. Bertone (he/him/his)- North Carolina State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Electropenetrography (EPG) Informational Meeting
Time: **7:00 PM - 9:00** PM Pacific
Location: Oregon Convention Center, B114, OCC
Organizers: Elaine A. Backus (she/her/hers)- USDA-ARS; Lauren Diepenbrock- University of Florida
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Taiwanese Entomologists Association Meeting
Time: **7:00 PM - 10:00** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers: Yu-Hsiu Lin- Texas A&M University; De-Fen Mou (she/her/hers)- University of Florida; Ching-Wen Tan- National Chung-Hsing University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Governing Board Reception
Time: **8:00 PM - 9:00** PM Pacific
Location: Hyatt Regency Portland, Deschutes Ballroom B, Hyatt
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Chris Stelzig, CAE- Entomological Society of America
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Early Career Professionals Mixer
Time: **8:00 PM - 9:30** PM Pacific
Location: Spirit of 77, Spirit of 77, Spirit of 77
Organizers: Emily Struckhoff, M.S.- Pennsylvania State University; Meaghan-Li Mcardle- Entomological Society of America
Categories: Meetings & Events; Early Career
Tracks: Meetings & Events; Early Career

Title: Korean Young Entomologists (KYE) Mixer
Time: **8:00 PM - 10:00** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers: Donghun Kim- Kyungpook National University; Jinmo Koo- Kyungpook National University; Sangwoo Seok- University of Florida
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Student Reception
Time: **8:00 PM - 10:30** PM Pacific
Location: Punch Bowl Social, Punch Bowl Social, Punch Bowl Social
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Danielle Tempesta- Entomological Society of America; Michelle G. Au- University of Hawaii
Categories: Meetings & Events; Student
Tracks: Meetings & Events; Student

Wednesday, November 12, 2025

Title: Awards Breakfast featuring the Founders' Memorial Lecture & Closing Plenary
Time: **7:00 AM - 9:15 AM** Pacific
Location: Oregon Convention Center, Oregon Ballroom, OCC
Organizers: Lina Bernaola- Texas A&M University
Categories: Plenary
Abstract: Join us in congratulating all ESA Professional and Early Career Professional award winners, followed by the Founders' Memorial Lecture. This years Founders' Memorial Award will be presented by Dr. Kelley Tilmon. Tilmon's keynote will share untold story of Maud Doria Haviland, pioneering woman entomologist. Read the Press Release. Our 2026 Strategic Outlook and Member Forum will immediately follow the breakfast with incoming 2026 President, Melissa Siebert, sharing her vision for the upcoming year.
Tracks: Plenary

Title: Presentation Preview Room (PPR)
Time: **7:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, A108-109, OCC
Organizers:
Categories: General; Presentation Preview Room (PPR)
Abstract: The Presentation Preview Room (PPR) is located in A108-109 of the Oregon Convention Center. Presenters are expected to upload their presentation the day before their scheduled talk. Operating hours are as follows: Saturday, November 8 3-6 p.m. Sunday, November 9 7 a.m. - 5 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m.
Tracks: General; Presentation Preview Room (PPR)

Title: Registration and Information Center
Time: **7:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: General; Registration and Information Center
Abstract: Registration will be held in Pre-Function Lobby A of the Oregon Convention Center, during the following times: Saturday, November 8 2-6 p.m Sunday, November 9 7 a.m. - 8 p.m. Monday, November 10 7 a.m. - 5 p.m. Tuesday, November 11 7 a.m. - 5 p.m. Wednesday, November 12 7 a.m. - 12 p.m. Phone number to the Registration and Information Center: + 1 (301) 731-4535 x3512
Tracks: General; Registration and Information Center

Title: Self Service Coat and Bag Check
Time: **7:00 AM - 6:00** PM Pacific
Location: Oregon Convention Center, A102, OCC
Organizers:
Categories: General; Self Service Coat and Bag Check
Abstract: Self Service coat and bag check can be found in A102 during the following times. This is an unattended, self-service coat and bag check area. Use at your own risk. ESA is not responsible for any lost, stolen, or damaged items.Sunday, November 9 7 a.m. - 10 p.m. Monday, November 10 7 a.m. - 8 p.m. Tuesday, November 11 7 a.m. - 8 p.m. Wednesday, November 12 7 a.m. - 6 p.m. The OCC has locker rentals available for short-term storage of personal items through their partners at LocketGo. These salmon-colored lockers are reservable with your mobile device and a credit card. There are three convenient locations throughout the building: MLK Lobby (near main entrance), Holladay Lobby (north end of the building), and Ginkoberry Concourse (south end of the building).
Tracks: General; Self Service Coat and Bag Check

Title: Lactation Room
Time: **7:00 AM - 6:00** PM Pacific
Location: Oregon Convention Center, C127, OCC
Organizers:
Categories: General; Lactation Room

Abstract: ESA is happy to provide a private and secure space for all nursing parents. ESA supports all nursing parents to nurse as needed in all general meeting spaces and nursing in public is protected by Oregon law. The ESA dedicated Lactation Room is located in C127 of the Oregon Convention Center. The room is equipped with a mini fridge for storage. OCC also provides two Mamava nursing suites. These private and secure suites are located near the A and E meeting rooms on Level 1.
Tracks: General; Lactation Room

Title: Relaxation Retreat
Time: **7:00 AM - 6:00** PM Pacific
Location: Oregon Convention Center, C128, OCC
Organizers:
Categories: General; Relaxation Retreat
Abstract: Take a break from the conference environment, improve your focus, reduce stress and anxiety, and relax. This room is a designated space designed to provide a calming and soothing environment for attendees.
Tracks: General; Relaxation Retreat

Title: Exhibit Hall
Time: **9:00 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Exhibit Hall A-A1, OCC
Organizers:
Categories: General; Exhibit Hall
Abstract: The Exhibit Hall will feature exhibitors, poster display presentations, student club tables, and Artisan Row. Our exhibitors have the latest entomological equipment, supplies, gifts, and reference materials. Be sure to check out The Hive -- an interactive networking space in the Exhibit Hall where attendees can connect, collaborate, and spark new ideas. Join us for conversation starters and creative exchanges! Don't miss the Exhibitor Demonstration Stage, where industry leaders will showcase the latest technologies and innovations shaping the future. Check the program to see when your favorite exhibitor will be . Presenting. Daily Exhibit Hall Hours: Sunday, November 9: **7:30**-**9:30** p.m. Monday, November 10: 9 a.m. - 5 p.m. Tuesday, November 11: 9 a.m. - 5 p.m. Wednesday, November 12: 9 a.m. - 12 p.m.
Tracks: General; Exhibit Hall

Title: Tour: Columbia River Gorge Landscapes and Ecology Tour
Time: **9:00 AM - 6:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: Embark on a breathtaking journey through the Columbia River Gorge, where dramatic landscapes and rich ecological diversity await. The tour begins with a scenic drive along the historic Columbia Gorge Highway, punctuated by stops at iconic viewpoints like Chanticleer Point, Vista House, and the majestic Multnomah Falls. Discover the fascinating world of giant sturgeon at the Bonneville Fish Hatchery before indulging in a delightful lunch and exploration of downtown Hood River. Ascend to the panoramic vistas of Rowena Crest, where sweeping views of the Gorge unfold. Conclude your adventure with a visit to the Gorge Discovery Center in The Dalles, delving into the natural and cultural history of the region, before returning to Portland. Cost: $165 per person (20 person maximum)Includes: Transportation, Tour Guide, and Bottled Water. Time for lunch on your own is included in the schedule.
Tracks: Meetings & Events

Title: Ecosystem Impacts of Insects in Drylands Under Global Change
Time: **9:30 AM - 11:30 AM** Pacific
Location: Oregon Convention Center, C124, OCC
Organizers: Elizabeth G. Pringle, PhD (she/her/hers)- University of Nevada; Victoria Luizzi (they/them/theirs)- University of Nevada; Joseph Coolidge (he/they)- University of Nevada
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: Drylands cover 40% of Earth's land surface, contain ~30% of global carbon, and are hotspots of insect diversity. Insects are dryland ecosystem engineers, whose roles in determining invasion dynamics, fire cycles, and resilience to drought remain surprisingly understudied. This session will explore how the fate of drylands depends on insects.

Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Elizabeth G. Pringle, PhD (she/her/hers)- University of Nevada - Elizabeth G. Pringle, PhD (she/her/hers)
9:35 AM - 9:50 AM Pacific: Bugs balance bacterial belowground biogeochemistry. Presenting Author: Nathan Lemoine- Marquette University. Michelle Budny- Marquette University. Jane Lucas- Cary Institute of Ecosystem Studies - Nathan Lemoine; Michelle Budny; Jane Lucas
9:50 AM - 10:05 AM Pacific: Pollinators and decomposers associated with a Mediterranean climate in southern California. Presenting Author: Daniel A. Marschalek- University of Central Missouri. Douglas H. Deutschman- Wilfrid Laurier University - Daniel A. Marschalek; Douglas H. Deutschman
10:05 AM - 10:20 AM Pacific: Hide and seek: Can biocrust buffer the effects of climate change on soil microarthropods across an elevation gradient?. Presenting Author: Christina Trimingham- Northern Arizona University - Christina Trimingham
10:20 AM - 10:30 AM Pacific: Break -
10:30 AM - 10:45 AM Pacific: Effects of simulated drought on bumble bee foraging behavior in drought-tolerant landscape perennials in North-Central Texas. Presenting Author: Addison L. Singleton- Tarleton State University. Blake Liggett- Tarleton State University. Adam Mitchell- Tarleton State University. Heather Mathewson- Tarleton State University. Derald Harp- Texas A&M University - Addison L. Singleton; Blake Liggett; Adam Mitchell; Heather Mathewson; Derald Harp
10:45 AM - 11:00 AM Pacific: Patch-level effects of harvester ants on seed survivorship of a rare plant in a changing landscape. Presenting Author: Ian Robertson- Boise State University - Ian Robertson
11:00 AM - 11:15 AM Pacific: Harvester ant ecology: How ants may affect and be used in restoration of drylands. Presenting Author: Derek Uhey- Northern Arizona University. Richard Hofstetter- Northern Arizona University. Sneha Vissa- Northern Arizona University. Catherine A. Gehring- Northern Arizona University. Margaret Moore- Northern Arizona University. Karen Haubensak- Northern Arizona University - Derek Uhey; Richard Hofstetter; Sneha Vissa; Catherine A. Gehring; Margaret Moore; Karen Haubensak
11:15 AM - 11:30 AM Pacific: Exploring synergism of biological invasions and drought on plant-insect interactions in restoring grassland health. Presenting Author: Adam Mitchell- Tarleton State University - Adam Mitchell

Title: Innovations in Integrated Pest Management to Protect Beneficial Insects

Time: **9:30 AM - 11:30 AM** Pacific
Location: Oregon Convention Center, Portland Ballroom 254, OCC
Organizers: Hongmei Li-Byarlay (she/her/hers)- Central State University; Muhammad Haseeb (he/him/his)- Florida Agricultural and Mechanical University
Categories: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Abstract: We aim to attract attendees from academia, extension, industry, and government. Our session offers actionable insights and expert discussions on pollinator-friendly pest management.
Tracks: Section Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Presentations:
9:30 AM - 9:33 AM Pacific: Introductory remarks. Presenting Author: Hongmei Li-Byarlay (she/her/hers)- Central State University - Hongmei Li-Byarlay (she/her/hers)
9:33 AM - 9:45 AM Pacific: Opportunities in watermelon: Drive-row enhancement for beneficial arthropod conservation. Presenting Author: Josh Grant (he/him/his)- University of Georgia. Bodie Pennisi, PhD- The University of Georgia. Timothy Coolong- University of Georgia, Athens Campus. Jason Schmidt- University of Georgia - Josh Grant (he/him/his); Bodie Pennisi, PhD; Timothy Coolong; Jason Schmidt
9:45 AM - 9:57 AM Pacific: Innovative strategies for strengthening biological control and IPM in citrus. Presenting Author: Jawwad Qureshi- University of Florida - Jawwad Qureshi
9:57 AM - 10:09 AM Pacific: Sustainable Varroa control: Investigating the impact of queen caging on mite dynamics and colony health. Presenting Author: Hongmei Li-Byarlay (she/her/hers)- Central State University. Danielle Kroh- Central State University. Hongmei Li-Byarlay (she/her/hers)- Central State University - Hongmei Li-Byarlay (she/her/hers); Danielle Kroh; Hongmei Li-Byarlay (she/her/hers)
10:09 AM - 10:21 AM Pacific: Working toward developing the non-chemical methods of insect pest management. Presenting Author: Simon Zebelo- University of Maryland. Simon Zebelo- University of Maryland. Tigist Tolosa- University of Maryland. Kimberly Okpah- University of Maryland. Asim Ahmed- University of Maryland - Simon Zebelo; Simon Zebelo; Tigist Tolosa; Kimberly Okpah; Asim Ahmed
10:21 AM - 10:36 AM Pacific: Break and poster session -
10:21 AM - 10:36 AM Pacific: Enhancing the efficacy of entomopathogenic nematodes for improved biological control. Presenting Author: Jermaine D. Perier (he/him/his)- Mississippi State University. Jermaine D. Perier

(he/him/his)- Mississippi State University. Fatma Kaplan- Pheronym, Inc. Mike Toews- University of Georgia. David Shapiro-Ilan (he/him/his)- USDA-ARS - Jermaine D. Perier (he/him/his); Jermaine D. Perier (he/him/his); Fatma Kaplan; Mike Toews; David Shapiro-Ilan (he/him/his)
10:36 AM - 10:48 AM Pacific: Recruiting refuge crops to protect beneficial Insects for effective IPM in the specialty crops in North Florida. Presenting Author: Muhammad Haseeb (he/him/his)- Florida Agricultural and Mechanical University - Muhammad Haseeb (he/him/his)
10:48 AM - 11:00 AM Pacific: Linking arthropod biodiversity and weed communities in organic and ecologically-intensified agroecosystems. Presenting Author: Coy St Clair, III- Purdue University. Coy St Clair, IIIPurdue University. Hira Poudel (she/her/hers)- Purdue University. W Johnson- Purdue University. Julie Young- Purdue University. Christian Krupke- Purdue University - Coy St Clair, III; Coy St Clair, III; Hira Poudel (she/her/hers); W Johnson; Julie Young; Christian Krupke
11:00 AM - 11:12 AM Pacific: Integrated pest management (IPM) in Brazil: Efficiency with sustainability of biological control. Presenting Author: Marcus Alvarenga Soares- Universidade Federal dos Vales Jequitinhonha e Mucuri - Marcus Alvarenga Soares
11:12 AM - 11:22 AM Pacific: Closing remarks. Presenting Author: Muhammad Haseeb (he/him/his)- Florida Agricultural and Mechanical University - Muhammad Haseeb (he/him/his)

Title: 10-min: MUVE, Veterinary Entomology and Related Disease Vector Research

Time: **9:30 AM - 11:30 AM** Pacific
Location: Oregon Convention Center, B115, OCC
Organizers:
Categories: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Tracks: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Presentations:
9:30 AM - 9:42 AM Pacific: Digestion of fruit wastes by black soldier fly (Diptera: Stratiomyidae) larvae alters moisture content and emissions of greenhouse gas, noxious gases, and odors. Presenting Author: Amber E. MacInnis (she/her/hers)- Texas A&M University. Casey A. Flint- Texas A&M University. Chelsea Miranda- Howard Payne University. Rachel McNeal (she/her/hers)- Texas A&M University. Anjel M. Helms- Texas A&M University. Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)- Texas A&M University - Amber E. MacInnis (she/her/hers); Casey A. Flint; Chelsea Miranda; Rachel McNeal (she/her/hers); Anjel M. Helms; Jeffery K. Tomberlin, PhD, D-ABFE (he/him/his)
9:42 AM - 9:54 AM Pacific: Incriminating the culicoides vector of an avian blood parasiteHaemoproteus. Presenting Author: Phillip Shults- USDA-ARS - Phillip Shults
9:54 AM - 10:06 AM Pacific: Microbes in flight: Flies as vectors of antimicrobial resistance. Presenting Author: Alicia Ann Montemayor- Texas A&M University - Alicia Ann Montemayor
10:06 AM - 10:18 AM Pacific: Pasture pest fly management for grazing cattle: The efficacy of organic and chemical approaches. Presenting Author: Bryony Sands- University of Vermont. Lucy Beeton- University of Vermont. Kenneth L. Wise- Cornell University. Hannah Tolz- Cornell University-NYS Integrated Pest Management Program - Bryony Sands; Lucy Beeton; Kenneth L. Wise; Hannah Tolz
10:18 AM - 10:30 AM Pacific: RESCUE! Fly Bucket Top: A new lid entrance structure for 5-gallon bucket traps. Presenting Author: Qing-He Zhang- Sterling International, Inc. - Qing-He Zhang
10:30 AM - 10:42 AM Pacific: Sequencing and analysis of a draft genome for the biting midge Culicoides paraensis, a vector of Oropouche virus. Presenting Author: Stephanie Zapata (she/her/hers)- Rutgers University. Dana Price- Rutgers University - Stephanie Zapata (she/her/hers); Dana Price
10:42 AM - 10:54 AM Pacific: Sublethal insecticide exposure and its consequences for bluetongue virus transmission by Culicoides sonorensis. Presenting Author: Blythe Emily Lawson- University of Arkansas. Bethany McGregor- United States Department of Agriculture. Barbara Drolet (she/her/hers)- USDA. Emily McDermott- University of Arkansas - Blythe Emily Lawson; Bethany McGregor; Barbara Drolet (she/her/hers); Emily McDermott
10:54 AM - 11:06 AM Pacific: The diversity of the genus Sarcophaga (Diptera: Sarcophagidae) in Greece. Presenting Author: Ian R. Dadour, PhD- Murdoch University. Savvas Zafeiriou, MSc- University of the Aegean. Gabriella Rakapoulou- University of Florida. Georgios AGAPAKIS- Agricultural University of Athens. Theodora Petanidou- University of the Aegean. Sotiris Alexiou- Korinthian Museum of Natural History - Ian R. Dadour, PhD; Savvas Zafeiriou, MSc; Gabriella Rakapoulou; Georgios AGAPAKIS; Theodora Petanidou; Sotiris Alexiou
11:06 AM - 11:18 AM Pacific: Year one results of an ongoing investigation into vector-borne transmission of Cache Valley virus and bluetongue virus in northwest Arkansas. Presenting Author: Cameron Osborne- University of Arkansas. Lilly Conteh- Michigan State University. Mahnoor Ahsan- University of Arkansas. Joan Burke-

USDA-ARS. Lee Cohnstaedt (he/him/his)- USDA-ARS. Emily McDermott- University of Arkansas - Cameron Osborne; Lilly Conteh; Mahnoor Ahsan; Joan Burke; Lee Cohnstaedt (he/him/his); Emily McDermott
11:18 AM - 11:30 AM Pacific: Productivities and survival rates of mosquitoes in different breeding sites in Calabar South, Nigeria. Presenting Author: Emmanuel Uttah. Chinasa Uttah- University of Calabar - Emmanuel Uttah; Chinasa Uttah

Title: 10-min: PBT, Toxicology

Time: **9:30 AM - 11:30 AM** Pacific
Location: Oregon Convention Center, F149, OCC
Organizers:
Categories: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Tracks: 10-Minute Presentation; Physiology, Biochemistry, and Toxicology
Presentations:
9:30 AM - 9:42 AM Pacific: Characterization of the mechanism of action of a re-engineered spider toxin acting on insect voltage-gated sodium channels. Presenting Author: Felipe Andreazza (he/him/his)- Duke University. Lin Bao- Vestaron Corporation. Wilson Valbon (he/him/his)- Duke University. Kyle Schneider- Vestaron Corporation. Ke Dong (she/her/hers)- Duke University - Felipe Andreazza (he/him/his); Lin Bao; Wilson Valbon (he/him/his); Kyle Schneider; Ke Dong (she/her/hers)
9:42 AM - 9:54 AM Pacific: Development of novel nature-inspired technologies for control of disease vector mosquitoes and One Health perspectives in their application. Presenting Author: Andres Felipe Felipe Oliveros Diaz, PhD- Purdue University. Catherine Hill, n/a- Purdue University. Phurchhoki Sherpa- Purdue University. Maria Murgia, n/a- Purdue University - Andres Felipe Felipe Oliveros Diaz, PhD; Catherine Hill, n/a; Phurchhoki Sherpa; Maria Murgia, n/a
9:54 AM - 10:06 AM Pacific: Elucidating the regulation of insect ecdysis through nicotinic acetylcholine receptors in the model organism Drosophila melanogaster. Presenting Author: Sabrina Purtee- University of Maryland. Steve Bradbury- Iowa State University. Aaron Gross- Virginia Polytechnic Institute and State University. Russ Jurenka- Iowa State University. Niranjana Krishnan (she/her/hers)- University of Maryland - Sabrina Purtee; Steve Bradbury; Aaron Gross; Russ Jurenka; Niranjana Krishnan (she/her/hers)
10:06 AM - 10:18 AM Pacific: Feeding assay to test bioactive peptide effects on survival in Western flower thrips. Presenting Author: Alana Pohlman- Oregon State University. Ryssa Parks (she/her/hers)- USDA-ARS. Man-Yeon Choi- United States Department of Agriculture - Alana Pohlman; Ryssa Parks (she/her/hers); Man-Yeon Choi
10:18 AM - 10:30 AM Pacific: Fumigants potential of Azadirachta indica and Eucalyptus camaldulensis against destructive stored grain beetles: Knockdown and mortality assessment. Presenting Author: Awais Ali Chatha, PhD (he/him/his)- Zarai Doctor Zarat House. Shabab Nasir, Associate Pofessor, n/a- Government College University, Faisalabad - Awais Ali Chatha, PhD (he/him/his); Shabab Nasir, Associate Pofessor, n/a
10:30 AM - 10:42 AM Pacific: Gene networks associated with recovery of Tribolium castaneum after exposure to pyrethroid treated insect netting. Presenting Author: Matthew Joseph Murphy- USDA-ARS. Qinglei Ming- USDA-ARS. Kun Yan Zhu- Kansas State University. William Morrison- USDA-ARS. James Campbell- USDA-ARS. Erin Scully- USDA-ARS - Matthew Joseph Murphy; Qinglei Ming; Kun Yan Zhu; William Morrison; James Campbell; Erin Scully
10:42 AM - 10:54 AM Pacific: Larvicidal efficacy of seven medicinal plant leaf extracts including characterization andin silicomolecular docking of Melia azedarach against dengue vector Aedes aegypti L (Diptera : Culicidae). Presenting Author: Muhammad Zahid, PhD- Qassim University. Naveeda Akhtar Qureshi- Quaid-i-Azam University - Muhammad Zahid, PhD; Naveeda Akhtar Qureshi
10:54 AM - 11:06 AM Pacific: Neonicotinoid exposure reduces fitness of a widespread butterfly, Vanessa cardui. Presenting Author: Lars Straub, PhD- Institute of Bee Health. Alexandria Schauer- University of Bern. Lewis Flintham- University College London. Sophie Dtschler- University Hospital of Bern. Christian Kropf- University of Bern - Lars Straub, PhD; Alexandria Schauer; Lewis Flintham; Sophie Dtschler; Christian Kropf
11:06 AM - 11:18 AM Pacific: Receptor interference targeting a GPCR to identify insecticidal peptides against Western flower thrips. Presenting Author: Ryssa Parks (she/her/hers)- USDA-ARS. Alana Pohlman- Oregon State University. Daniel Hasegawa- USDA-ARS. Seung-Hwan Yun- Gyeonggi-do Agricultural Research and Extension Services, Hwaseong, Korea. Man-Yeon Choi- United States Department of Agriculture - Ryssa Parks (she/her/hers); Alana Pohlman; Daniel Hasegawa; Seung-Hwan Yun; Man-Yeon Choi
11:18 AM - 11:30 AM Pacific: Small molecules as arthropod kinin receptor antagonists, feeding modulators, or novel mosquitocidal agents. Presenting Author: Bianca Monteiro Henriques Santos (she/her/hers)- Texas A&M University. Patricia Pietrantonio- Texas A&M University - Bianca Monteiro Henriques Santos (she/her/hers); Patricia Pietrantonio

Title: Immersive Insectarium: Sharing the Passion for and Legacy of Insects Through Alt-Tech Innovations

Time: **9:30 AM - 12:00** PM Pacific
Location: Oregon Convention Center, Demonstration Stage (in the Exhibit Hall), OCC
Organizers: Melanie Margarita Kirby, M.S. (she/her/hers)- Institute of American Indian Arts; Jennifer Tsuruda, PhD (she/her/hers)- University of Tennessee; Justin Brierly- Institute of American Indian Arts
Categories: Workshop; Professional Development
Abstract: 'Immersive Insectarium' workshop attendees will co-create an immersive installation that integrates alternative and innovative technology methods to highlight the relationships between insects, the environment, and stewards. This interactive exercise is unique as the attendees input and collaborative decisions will manifest an experience that unfold depending on group dynamics.
Tracks: Workshop; Professional Development

Title: Conversations Between Entomologists and Plant Pathologists: Joining Forces to Control Pathogens

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Berenice Romero (she/her/hers)- Louisiana State University; Jeffrey Davis- Louisiana State University
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: How do thrips, aphids, and leafhoppers affect crop systems in North America? Can the pathogens they carry be easily identified and studied? Join this enthusiastic group of entomologists and plant pathologists to find some answers to these questions and learn about new approaches to working with plant-insect-pathogen interactions.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:40 AM Pacific: Introductory remarks. Presenting Author: Berenice Romero (she/her/hers)- Louisiana State University - Berenice Romero (she/her/hers)
9:40 AM - 9:55 AM Pacific: Beet leafhopper-transmitted Spiroplasma citri and 'Candidatus Phytoplasma trifolii' in Cannabis sativa: Insights on detection and management. Presenting Author: Hannah Rivedal- USDA-ARS. Kenneth Frost- Oregon State University. Cynthia Ocamb- Oregon State Universit - Hannah Rivedal; Kenneth Frost; Cynthia Ocamb
9:55 AM - 10:10 AM Pacific: Bactericera maculipennisis a vector of "Candidatus Liberibacter solanacearum" to field bindweed. Presenting Author: Rodney Cooper- USDA-ARS. Bonnie Ohler- University of Wisconsin-Madison - Rodney Cooper; Bonnie Ohler
10:10 AM - 10:25 AM Pacific: Identifying factors influencing the dynamics of a phytoplasma disease in Western Canada. Presenting Author: Berenice Romero (she/her/hers)- Louisiana State University. Sean Prager- University of Saskatchewan - Berenice Romero (she/her/hers); Sean Prager
10:25 AM - 10:40 AM Pacific: Dissecting the molecular interactions between maize mosaic virus and the corn planthopper, Peregrinus maidis. Presenting Author: Anna Whitfield- North Carolina State University. Cesar Xavier- North Carolina State University - Anna Whitfield; Cesar Xavier
10:40 AM - 10:55 AM Pacific: Using an interdisciplinary approach to understand dynamics of pollen-borne viruses in peach orchards. Presenting Author: Mandeep Tayal (he/him/his)- North Carolina State University. Elizabeth J. Cieniewicz (she/her/hers)- Clemson University - Mandeep Tayal (he/him/his); Elizabeth J. Cieniewicz (she/her/hers)
10:55 AM - 11:10 AM Pacific: Break -
11:10 AM - 11:25 AM Pacific: Bemisia tabaciproteins modulate interactions with plant infecting single stranded DNA viruses. Presenting Author: Rajagopalbabu Srinivasan (he/him/his)- University of Georgia. Saptarshi Ghosh- University of Georgia. Murad Ghanim- Agricultural Research Organization - Rajagopalbabu Srinivasan (he/him/his); Saptarshi Ghosh; Murad Ghanim
11:25 AM - 11:40 AM Pacific: A multi-omics informed investigation ofFrankliniella occidentalis-specific molecular factors underlying its transmission of tomato spotted wilt virus. Presenting Author: Lucas De Oliviera- North Carolina State University. Jinlong Han- Colorado State University. Karen B. Alviar- University of the Philippines Los Banos. Hao Teh- University Of Florida. Anna Whitfield- North Carolina State University. Dorith Rotenberg- North Carolina State University - Lucas De Oliviera; Jinlong Han; Karen B. Alviar; Hao Teh; Anna Whitfield; Dorith Rotenberg
11:40 AM - 11:55 AM Pacific: Cracking the code of chaos: Thrips, TSWV, and the integrated fight back. Presenting Author: Kiran Gadhave- Texas A&M University. Arinder Arora- Texas A&M University. Surender

Kumar- Texas A&M University. Rahul Mohan Singh- Texas A&M University. Udvashika Puri- Texas A&M University. Senthilraja Chinnaiah- Middle Tennessee State University - Kiran Gadhave; Arinder Arora; Surender Kumar; Rahul Mohan Singh; Udvashika Puri; Senthilraja Chinnaiah
11:55 AM - 12:20 PM Pacific: Discussion -
12:20 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Berenice Romero (she/her/hers)- Louisiana State University - Berenice Romero (she/her/hers)

Title: Symposium in Honor of Dr Michael Rust's 50 Years Contributions to the Science of Urban Entomology

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers: Chow-Yang Lee, BCE (he/him/his)- University of California; Dong-Hwan Choe, BCE- University of California
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: This symposium celebrates Dr. Mike Rust's career and contributions to urban entomology over the past 50 years. Attendees will gain insights into evolution of this subdiscipline, shaped by his research and mentorship. It will also highlight his innovative approaches to managing urban pests and the enduring legacy of his mentees.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
9:30 AM - 9:40 AM Pacific: Introductory remarks. Presenting Author: Chow-Yang Lee, BCE (he/him/his)- University of California - Chow-Yang Lee, BCE (he/him/his)
9:40 AM - 9:55 AM Pacific: Building a world-renowned legacy of urban entomology research program: From the beginning. Presenting Author: Donald Reierson (he/him/his)- University of California - Donald Reierson (he/him/his)
9:55 AM - 10:10 AM Pacific: Cockroach biology, physiology, and management: Mike Rust's contributions, mentorship, and legacy. Presenting Author: Arthur Appel- Auburn University - Arthur Appel
10:10 AM - 10:30 AM Pacific: Symposium introduction and Dr Mike Rust's legacy in urban entomology. Presenting Author: Chow-Yang Lee, BCE (he/him/his)- University of California - Chow-Yang Lee, BCE (he/him/his)
10:30 AM - 10:50 AM Pacific: Mike Rust's contributions and legacy on pest ant research at UC Riverside. Presenting Author: Dong-Hwan Choe, BCE- University of California - Dong-Hwan Choe, BCE
10:50 AM - 11:00 AM Pacific: Break -
11:00 AM - 11:15 AM Pacific: Strong extension programs required trusted science--honoring Mike Rust's integrity in structural pest management. Presenting Author: Faith M. Oi- University of Florida - Faith M. Oi
11:15 AM - 11:30 AM Pacific: Are you in grad school for a degree and job, or a "GURU"? Think twice....before you start!. Presenting Author: Raj Saran- Syngenta - Raj Saran
11:30 AM - 11:45 AM Pacific: Biologists with jobs: Mike Rust's impact on my career in the pest control industry. Presenting Author: Ryan Neff- MGK - Ryan Neff
11:45 AM - 12:00 PM Pacific: Dr. Mike Rust: How one person impacted my life in career. Presenting Author: Marco Metzger, PhD- California Department of Public Health - Marco Metzger, PhD
12:00 PM - 12:15 PM Pacific: The grounded mentor: Lessons from Dr. Michael Rust. Presenting Author: Rattanan Chungsawat (he/him/his)- University of California - Rattanan Chungsawat (he/him/his)
12:15 PM - 12:30 PM Pacific: Urban entomology is ever changing!. Presenting Author: Michael Rust- University of California - Michael Rust

Title: Genomics, Physiology, and IPM of Scale Insects

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, F152, OCC
Organizers: Zheng Li (he/him/his)- Miami University; Zinan Wang (he/him/his)- Uiniversity of Kentucky; Hongmin Qin- Texas A&M University
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology; Systematics, Evolution, and Biodiversity
Abstract: Scale insects have unique morphology, physiology, and life history traits. Many scale insects are also economically important pests. This session discusses recent genomic, physiological, and evolutionary findings on scale insects, as well as novel IPM strategies for managing various scale pests.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology; Systematics, Evolution, and Biodiversity
Presentations:

9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Zinan Wang (he/him/his)- Uiniversity of Kentucky - Zinan Wang (he/him/his)
9:35 AM - 9:50 AM Pacific: Mitigating the consequences of introduction and management of an invasive felt scale. Presenting Author: David W. Held- Auburn University - David W. Held
9:50 AM - 10:05 AM Pacific: Assessing oak lecanium distribution, intervention thresholds, and natural enemy communities in urban forests. Presenting Author: Benjamin Knowlton- University of Kentucky. Caleb J. Wilson- University of Kentucky - Benjamin Knowlton; Caleb J. Wilson
10:05 AM - 10:20 AM Pacific: A new genus from Chile and the origins of armored scale insects (Diaspididae). Presenting Author: Benjamin Normark- University of Massachusetts. Roxanna Normark- University of Massachusetts. Paul Amouroux- Universidad Mayor - Benjamin Normark; Roxanna Normark; Paul Amouroux
10:20 AM - 10:35 AM Pacific: Improving IPM of San Jose scale in pome and stone fruit orchards: Case studies from Michigan and Georgia. Presenting Author: Julianna Wilson- Michigan State University. Brett Blaauw- University of Georgia - Julianna Wilson; Brett Blaauw
10:35 AM - 10:50 AM Pacific: Break -
10:50 AM - 11:05 AM Pacific: Leaving X: How scale insects found success ditching a popular sex determination system. Presenting Author: Andrew Mongue- University of Florida. Tracy Liesenfelt (she/her/hers)- University of Florida. Erin Powell- Florida State Collection of Arthropods - Andrew Mongue; Tracy Liesenfelt (she/her/hers); Erin Powell
11:05 AM - 11:20 AM Pacific: Understanding the Genomic basis of wax biosynthesis in scale insects. Presenting Author: Zheng Li (he/him/his)- Miami University. Kenadie Glasgow- Miami University. Zinan Wang (he/him/his)- Uiniversity of Kentucky - Zheng Li (he/him/his); Kenadie Glasgow; Zinan Wang (he/him/his)
11:20 AM - 11:35 AM Pacific: Wax synthesis physiology and genetics in scale insects. Presenting Author: Zinan Wang (he/him/his)- Uiniversity of Kentucky. Zheng Li (he/him/his)- Miami University. Amanda Abshire- University of Kentucky. Guifang Lin- University of Kentucky - Zinan Wang (he/him/his); Zheng Li (he/him/his); Amanda Abshire; Guifang Lin
11:35 AM - 11:40 AM Pacific: Closing remarks. Presenting Author: Zinan Wang (he/him/his)- Uiniversity of Kentucky - Zinan Wang (he/him/his)

Title: Conservation Biological Control Through Habitat Management: Bridging Challenges and Innovations

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D135, OCC
Organizers: Pragya Kiju (she/her/hers)- Clemson University; Anjana Duwal (she/her/hers)- Louisiana State University; Kushal Naharki (he/him/his)- West Virginia University
Categories: Section Symposium; Plant-Insect Ecosystems; Plant-Insect Ecosystems
Abstract: Discover how habitat management can enhance conservation biological control by supporting natural enemies of pests. This symposium explores innovative strategies and cutting-edge research to optimize pest suppression through ecological approaches. Attendees will gain practical insights and recent advances in designing sustainable ecosystems that balance pest control, biodiversity, and agricultural productivity.
Tracks: Section Symposium; Plant-Insect Ecosystems; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Pragya Kiju (she/her/hers)- Clemson University - Pragya Kiju (she/her/hers)
9:35 AM - 9:50 AM Pacific: Enhancing conservation biological control through cropping system diversifications. Presenting Author: Subodh Adhikari- Utah State University - Subodh Adhikari
9:50 AM - 10:05 AM Pacific: No-till, cover crops, and IPM combine to make conservation biological control possible in field crops. Presenting Author: John Tooker- Pennsylvania State University - John Tooker
10:05 AM - 10:20 AM Pacific: The effects of conservation agricultural management practices on the pollinator nutritional landscape. Presenting Author: Giovanni Tundo- United States Department of Agriculture - Giovanni Tundo
10:20 AM - 10:35 AM Pacific: Trade-offs of cover crops for arthropod pest regulation, a meta-analysis. Presenting Author: Elizabeth Rowen- University of California. Carmen Blubaugh- University of Illinois - Elizabeth Rowen; Carmen Blubaugh
10:35 AM - 10:50 AM Pacific: How landscape composition modulates natural enemy attraction to a common plant volatile. Presenting Author: Yahel Ben-Zvi (he/they)- Rutgers University. Cesar Rodriguez-Saona (he/him/his)- Rutgers University - Yahel Ben-Zvi (he/they); Cesar Rodriguez-Saona (he/him/his)
10:50 AM - 11:00 AM Pacific: Break -

11:00 AM - 11:15 AM Pacific: Prairie strips as a source of ground beetles for biological control in adjacent crops. Presenting Author: Matthew E O'Neal- Iowa State University. Andreas Vargas- University of Idaho. Lisa Schulte Moore- Iowa State University - Matthew E O'Neal; Andreas Vargas; Lisa Schulte Moore
11:15 AM - 11:30 AM Pacific: Does creating habitat for natural enemies control pests?. Presenting Author: Heather Grab (she/her/hers)- Pennsylvania State University. Gregory Loeb- Cornell University. Katja Poveda- Cornell University - Heather Grab (she/her/hers); Gregory Loeb; Katja Poveda
11:30 AM - 11:45 AM Pacific: An evaluation of semi-arid landscape effects on pest and predator communities in alfalfa. Presenting Author: Evangelina Carabotta- New Mexico State University. Ricardo Ramirez (he/him/his)- New Mexico State University - Evangelina Carabotta; Ricardo Ramirez (he/him/his)
11:45 AM - 12:00 PM Pacific: Predator communities and predation in adjacent row crops and conservation grasslands. Presenting Author: Hannah Stowe- University of California. Julie A. Peterson- University of Nebraska-Lincoln - Hannah Stowe; Julie A. Peterson
12:00 PM - 12:15 PM Pacific: Flowering plants and conservation biological control. Presenting Author: Kaushalya Amarasekare- Tennessee State University. Yuna Gaire- University of Georgia. Binita Sigdel- Tennessee State University. Manju Yogi- Tennessee State University - Kaushalya Amarasekare; Yuna Gaire; Binita Sigdel; Manju Yogi
12:15 PM - 12:30 PM Pacific: Mitigating pollinator decline with habitat enhancements. Presenting Author: Garima Gupta- University of Minnesota. Vera Krischik- University of Minnesota - Garima Gupta; Vera Krischik

Title: Insect Biodiversity in Urban Landscapes

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers: Yasmin Tavares- Columbia University; Emily Leggat- Columbia University; Ellie Gamett- American Museum of Natural History; Isobel Mifsud- Columbia University; Bekka Brodie- Columbia University
Categories: Section Symposium; Systematics, Evolution, and Biodiversity
Abstract: This symposium offers insights on innovative methods for assessing urban insect diversity, explores their contributions to ecosystems, and addresses the unique challenges they face in metropolitan environments. Attendees will gain insights into the health and economic impacts of urban insects and learn strategies to promote biodiversity in urban planning.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Yasmin Tavares- Columbia University - Yasmin Tavares
9:35 AM - 9:55 AM Pacific: Drivers of arthropod biodiversity in an urban ecosystem. Presenting Author: Jayme Lewthwaite- Simon Fraser University. Teagan Baiotto- Marine and Environmental Section, Department of Biological Sciences, University of Southern California. Brian Brown- Natural History Museum of Los Angeles County. Yan Yin Jenny Cheung- Cornell University. Austin Baker (he/him/his)- Natural History Museum of Los Angeles County. Charles Lehnen- Marine and Environmental Section, Department of Biological Sciences, Human Evolutionary Biology Section, Department of Biological Sciences, University of Southern California. Terry McGlynn (he/him/his)- California State University Dominguez Hills. Vaughn Shirey- Florida Museum of Natural History. Lisa Gonzalez- Natural History Museum of Los Angeles County, Los Angeles. Emily Hartop- Center for Integrative Biodiversity Discovery, Museum fr Naturkunde, Berlin, Germany. Peter Kerr- California State Collection of Arthropods, CDFA Plant Pest Diagnostics Center, Sacramento, California. Eric Wood- Department of Biological Sciences, California State University, Los Angeles, California. Laura Melissa Guzman- Marine and Environmental Section, Department of Biological Sciences, University of Southern California, Los Angeles, California - Jayme Lewthwaite; Teagan Baiotto; Brian Brown; Yan Yin Jenny Cheung; Austin Baker (he/him/his); Charles Lehnen; Terry McGlynn (he/him/his); Vaughn Shirey; Lisa Gonzalez; Emily Hartop; Peter Kerr; Eric Wood; Laura Melissa Guzman
9:55 AM - 10:15 AM Pacific: Molecular methods of assessing community diversity in cities. Presenting Author: Emily Leggat- Columbia University. Yasmin Tavares- Columbia University. Shahid Naeem- Columbia University - Emily Leggat; Yasmin Tavares; Shahid Naeem
10:15 AM - 10:35 AM Pacific: Mosquito control management strategies and their impacts on mosquitoes, disease prevalence, and non-target species. Presenting Author: Carly Tolle- The Ohio State University - Carly Tolle
10:35 AM - 10:55 AM Pacific: Patterns and drivers of wild bee biodiversity in an urban island system. Presenting Author: Elyse Talley- Rutgers University. Rachael Winfree, PhD- Rutgers University - Elyse Talley; Rachael Winfree, PhD
10:55 AM - 11:05 AM Pacific: Break -

11:05 AM - 11:25 AM Pacific: Insect community diversity at the world's largest landfill to park project. Presenting Author: Jose R. Ramirez-Garofalo (he/him/his)- Rutgers University - Jose R. Ramirez-Garofalo (he/him/his)
11:25 AM - 11:45 AM Pacific: Influence of urban landscape characteristics on the invasive insect,Fiorinia phantasma, in South Florida. Presenting Author: Minor V. Solano Gutierrez- University of Florida. Lillian J. Shoemaker- University of Florida. Ryan Klein- University of Florida, Department of Environmental Horticulture. Adam G. Dale- University of Florida - Minor V. Solano Gutierrez; Lillian J. Shoemaker; Ryan Klein; Adam G. Dale
11:45 AM - 12:05 PM Pacific: Illuminating complexity: How artificial light at night influences insect richness and abundance across a vehicle pollution gradient. Presenting Author: Marielle S. Hansel Friedman (she/her/hers)- University of California. Emily K. Meineke- UC Davis, Department of Entomology and Nematology. Elizeth Cinto Mejia- UC Davis, Department of Entomology and Nematology - Marielle S. Hansel Friedman (she/her/hers); Emily K. Meineke; Elizeth Cinto Mejia
12:05 PM - 12:25 PM Pacific: The blueprint for survival: The blue dasher dragonfly as a model for urban adaptation. Presenting Author: Manpreet Kohli- City University of New York. Ellie Gamett- American Museum of Natural History. Christopher D. Beatty (he/him/his)- Stanford University. Aaron M. Goodman- University of Illinois. Brittney Hahn- Department of Invertebrate Zoology, American Museum of Natural History. Christian Benischek- Conservation Connection Foundation, The College of Idaho, Caldwell, Idaho, USA. Gracie Castillo- Conservation Connection Foundation, The College of Idaho. Ethan Derderian- Conservation Connection Foundation. Santiago Fernandez-Juarez- Conservation Connection Foundation, The College of Idaho. Ben Gallafent- Conservation Connection Foundation. James Jenson- Conservation Connection Foundation, Boise State University. Dick Jordan- Conservation Connection Foundation. Magnolia Schneider- Conservation Connection Foundation, The College of Idaho. Roberto Salazar- Department of Biological Sciences, Virginia Tech. Towako Tamano- Conservation Connection Foundation. Maleah Wei- Conservation Connection Foundation. Jacob H. Idec (he/him/his)- University of Florida. Rob Guralnick- Florida Museum of Natural History, University of Florida. Jessica L. Ware (she/her/hers)- American Museum of Natural History - Manpreet Kohli; Ellie Gamett; Christopher D. Beatty (he/him/his); Aaron M. Goodman; Brittney Hahn; Christian Benischek; Gracie Castillo; Ethan Derderian; Santiago Fernandez-Juarez; Ben Gallafent; James Jenson; Dick Jordan; Magnolia Schneider; Roberto Salazar; Towako Tamano; Maleah Wei; Jacob H. Idec (he/him/his); Rob Guralnick; Jessica L. Ware (she/her/hers)
12:25 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Isobel Mifsud- Columbia University. Ellie Gamett- American Museum of Natural History - Isobel Mifsud; Ellie Gamett

Title: Past and Future: Integrative Approaches for Sustainable Sugarcane Pest Management

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E147-148, OCC
Organizers: Fabricio Francischini, PhD (he/him/his)- CTC; Caroline Sakuno, PhD (she/her/hers)- CTC
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: Sugarcane plays an important role in the world's food security. The damage caused by pests result in reducing yield and product quality. Past and Future: Integrative Approaches for Sustainable Sugarcane Pest Management provide a platform to discuss how entomological researchers and industry professionals could work together to mitigate these impacts.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:36 AM Pacific: Introductory remarks. Presenting Author: Fabricio Francischini, PhD (he/him/his)- CTC - Fabricio Francischini, PhD (he/him/his)
9:36 AM - 10:04 AM Pacific: Associations of sugarcane borer damage with prior damage, cultivar, and crop year. Presenting Author: Hannah Penn- USDA-ARS - Hannah Penn
10:04 AM - 10:32 AM Pacific: Diatraea saccharalis in North and Central America-genetic variability in populations and implications for management. Presenting Author: Andrea Joyce- University of California - Andrea Joyce
10:32 AM - 11:00 AM Pacific: Genetic diversity and structure of Brazilian populations of Diatraea saccharalis. Presenting Author: Fabricio Francischini, PhD (he/him/his)- CTC - Fabricio Francischini, PhD (he/him/his)
11:00 AM - 11:28 AM Pacific: Optimizing integrated controls for sugarcane stem borer management in Louisiana, USA. Presenting Author: Blake Wilson- Louisiana State University - Blake Wilson
11:28 AM - 11:56 AM Pacific: Transgenic sugarcane expressing Bacillus thuringiensis Cry1Ac protein offers new possibilities for controlling the giant borer, Telchin licus (Drury), a pest difficult to control. Presenting Author: Caroline Sakuno, PhD (she/her/hers)- CTC - Caroline Sakuno, PhD (she/her/hers)
11:56 AM - 12:24 PM Pacific: The success of Bt corn for sugarcane borer management in the US: Is it a good indication for a stainable use of the biotech sugarcane to control the pest in South America?. Presenting Author: Fangneng Huang- Louisiana State University - Fangneng Huang

12:24 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Fabricio Francischini, PhD (he/him/his)- CTC - Fabricio Francischini, PhD (he/him/his)

Title: Navigating Ethical Challenges in Entomological Education

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 256, OCC
Organizers: Bob Fischer (he/him/his)- Texas State University; Meghan Barrett- Indiana University
Categories: Program Symposium; Formal and Informal Teaching; Early Career; Professional Development; Student
Abstract: This workshop addresses growing ethical puzzles in entomological education, including student concerns about invasive procedures, collection impacts, and the role of ethics instruction. Experts will highlight practical solutions and alternatives, followed by a collaborative discussion of best practices for maintaining educational quality while addressing ethical concerns.
Tracks: Program Symposium; Formal and Informal Teaching; Early Career; Professional Development; Student
Presentations:
9:30 AM - 9:45 AM Pacific: Introductory remarks. Presenting Author: Bob Fischer (he/him/his)- Texas State University - Bob Fischer (he/him/his)
9:45 AM - 10:05 AM Pacific: Your new PI is ChatGPT? The ethics of AI in scientific education. Presenting Author: Malcolm Peavy- University of Georgia. Carla-Cristina Melo Edwards- University of California - Malcolm Peavy; Carla-Cristina Melo Edwards
10:05 AM - 10:25 AM Pacific: Best practices for safe and ethical student-centered entomological field work. Presenting Author: Robin Verble- Missouri University of Science and Technology - Robin Verble
10:25 AM - 10:45 AM Pacific: How to have productive conversations with students about best practices. Presenting Author: Aimee S. Dunlap- University of Missouri - Aimee S. Dunlap
10:45 AM - 11:00 AM Pacific: Break -
11:00 AM - 11:20 AM Pacific: Modifying collection practices in response to ethical concerns. Presenting Author: Jennifer Lynn Apple- State University of New York - Jennifer Lynn Apple
11:20 AM - 11:40 AM Pacific: Considering the cockroach: Humane practices in electrophysiology and anatomy lessons. Presenting Author: Meghan Barrett- Indiana University - Meghan Barrett
11:40 AM - 12:20 PM Pacific: Panel discussion -
12:20 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Bob Fischer (he/him/his)- Texas State University - Bob Fischer (he/him/his)

Title: Ecophysiology of Social Insects

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC
Organizers: Jelena Bujan- Ruder Boskovic Institute; Victor Hugo Gonzalez (he/him/his)- University of Kansas; Karl Adam Roeder- USDA-ARS
Categories: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Abstract: Attendees will learn about recent findings and innovative methods on social insect ecophysiology across various taxonomic, geographic, and biological scales of organization. Specifically, what physiological traits are important for understanding how insects interact and respond to environmental change. A mini-poster session and break-out groups will occur to discuss emerging topics.
Tracks: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Karl Adam Roeder- USDA-ARS - Karl Adam Roeder
9:35 AM - 9:50 AM Pacific: Colonial thermoregulation and its limits during heat waves for honey bees. Presenting Author: Jon Harrison- Arizona State University. Jun Chen (she/her/hers)- Arizona State University. Cahit Ozturk- Arizona State University. Adrian Fisher- Arizona State University. Jordan Robert Glass- University of Wyoming. Brian Smith- Arizona State University. Jennifer Fewell- Arizona State University. Yun Kang- Arizona State University - Jon Harrison; Jun Chen (she/her/hers); Cahit Ozturk; Adrian Fisher; Jordan Robert Glass; Brian Smith; Jennifer Fewell; Yun Kang
9:50 AM - 10:05 AM Pacific: Can sick bees take the heat? Assessing how trypanosome infection influences pollinator thermal tolerance. Presenting Author: Julie Cruz- Pennsylvania State University. Rudolf Schilder- The Pennsylvania State University. Margarita Lopez-Uribe- Pennsylvania State University - Julie Cruz; Rudolf Schilder; Margarita Lopez-Uribe

10:05 AM - 10:20 AM Pacific: The fuzz factor: How pile presence and color, along with wing-generated airflow, shape bumble bee thermal balance. Presenting Author: Jordan Robert Glass- University of Wyoming. Hannah Vanderlinden- University of Wyoming. Camden Foley- University of Wyoming. Michael Dillon- University of Wyoming - Jordan Robert Glass; Hannah Vanderlinden; Camden Foley; Michael Dillon
10:20 AM - 10:35 AM Pacific: Thermal tolerance and desiccation resistance of Bombus impatiens. Presenting Author: Jamieson Botsch- Austin Peay State University. Jesse Daniels- USDA-ARS. Karl Adam Roeder- USDA-ARS - Jamieson Botsch; Jesse Daniels; Karl Adam Roeder
10:35 AM - 10:50 AM Pacific: The cost of staying cool: Water balance and desiccation in a small-bodied bee. Presenting Author: Meredith G. Johnson (she/her/hers)- North Dakota State University. Christopher Waylett- Washington State University. Lukas John Sokalski- North Dakota State University. Joseph Rinehart- USDA-ARS. Julia Bowsher- North Dakota State University. Kendra J. Greenlee (she/her/hers)- North Dakota State University - Meredith G. Johnson (she/her/hers); Christopher Waylett; Lukas John Sokalski; Joseph Rinehart; Julia Bowsher; Kendra J. Greenlee (she/her/hers)
10:50 AM - 11:20 AM Pacific: Poster session and break -
10:50 AM - 11:20 AM Pacific: Ecophysiology of highly eusocial bees. Presenting Author: Victor Hugo Gonzalez (he/him/his)- University of Kansas. Anna Dreusicke- University of Iowa. Claus Rasmussen- Aarhus University - Victor Hugo Gonzalez (he/him/his); Anna Dreusicke; Claus Rasmussen
10:50 AM - 11:20 AM Pacific: Effects of desiccation on managed and native bee species. Presenting Author: Karl Adam Roeder- USDA-ARS - Karl Adam Roeder
10:50 AM - 11:20 AM Pacific: Thermal constraints and climate-driven habitat loss in nocturnal tropical bees. Presenting Author: Liam Wrixon- University of Kansas - Liam Wrixon
10:50 AM - 11:20 AM Pacific: Thermal performance curves for eusocial insects: Individual and group responses to temperature in bumble bees. Presenting Author: Michael Dillon- University of Wyoming - Michael Dillon
10:50 AM - 11:20 AM Pacific: Thermal tolerance in the cellophane bee Colletes inaequalis reflects early spring adaptation and is independent of body size and sex. Presenting Author: Andres F. Herrera-Motta (he/him/his)- University of Kansas. Natalie Diane Herbison- University of Kansas. Kennan Oyen- Animal Diseases Research Unit, Agricultural Research Service, United States Department of Agriculture. Deborah Smith- University of Kansas. Victor Hugo Gonzalez (he/him/his)- University of Kansas - Andres F. Herrera-Motta (he/him/his); Natalie Diane Herbison; Kennan Oyen; Deborah Smith; Victor Hugo Gonzalez (he/him/his)
10:50 AM - 11:20 AM Pacific: Using 3D modeling to evaluate body size metrics in bee ecophysiological studies. Presenting Author: Isabella Manning- University of Kansas. Victor Hugo Gonzalez (he/him/his)- University of Kansas. Abigail Youngblood- University of California. Charles Thrift (he/him/his)- University of California - Isabella Manning; Victor Hugo Gonzalez (he/him/his); Abigail Youngblood; Charles Thrift (he/him/his)
11:20 AM - 11:35 AM Pacific: Seasonality, microclimate, or macroclimate: What governs the plasticity of ant thermal tolerance?. Presenting Author: Jelena Bujan- Ruder Boskovic Institute. Lina Bajic- Ruder Boskovic Institut. Antonia Smolic- Ruder Boskovic Institute. Marko Bracic- Ruder Boskovic Institute - Jelena Bujan; Lina Bajic; Antonia Smolic; Marko Bracic
11:35 AM - 11:50 AM Pacific: Temporal plasticity of thermal tolerance in ants. Presenting Author: Diane Roeder- Augustana University. Anna Paraskevopoulos- University of Colorado. Karl Adam Roeder- USDA-ARS - Diane Roeder; Anna Paraskevopoulos; Karl Adam Roeder
11:50 AM - 12:05 PM Pacific: Within-colony variation in thermal performance among eusocial Hymenoptera: Lessons from ants, bees, and paper wasps. Presenting Author: Kaitlin M. Baudier- University of Southern Mississippi. Kristin M. Robinson (she/her/hers)- University of Southern Mississippi - Kaitlin M. Baudier; Kristin M. Robinson (she/her/hers)
12:05 PM - 12:20 PM Pacific: Is bigger better: Re-assessing the effects of body size on bee climate responses. Presenting Author: Clint Penick- Auburn University. Theresa Wolff- Auburn University - Clint Penick; Theresa Wolff
12:20 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Karl Adam Roeder- USDA-ARS - Karl Adam Roeder

Title: Pollinators in Grazing Lands

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers: Elinor Lichtenberg- University of North Texas; Katherine Kral-O'Brien- Iowa State University; Bethany Roberton- North Dakota State University
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: This session brings together the growing number of researchers who are studying or plan to study pollinators in grazing lands. Rangelands and pastures, at the interface of agricultural and natural lands, pose

exciting research and conservation opportunities. The session will highlight current research and emerging technologies, while fostering new connections.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:45 AM Pacific: Pollinators in grazing lands: Overview of conservation efforts, obstacles, and emerging technologies. Presenting Author: Katherine Kral-O'Brien- Iowa State University - Katherine Kral-O'Brien
9:45 AM - 10:00 AM Pacific: Native grass and forb restoration on monotypic crested wheatgrass (Agropyron cristatum) pasture increases pollinator abundance and ground-nesting bees. Presenting Author: Joshua Campbell- USDA-ARS. Natalie West- USDA-ARS - Joshua Campbell; Natalie West
10:00 AM - 10:15 AM Pacific: Grazing management method alters butterfly abundance in Midwestern U.S. pastures. Presenting Author: Anna Skye Bruce- Association of Fish & Wildlife Agencies. Karen Oberhauser- University of Wisconsin-Madison. Claudio Gratton- University of Wisconsin - Anna Skye Bruce; Karen Oberhauser; Claudio Gratton
10:15 AM - 10:30 AM Pacific: Assessing pollinator and floral communities in remnant and restored prairies under flexible, monitoring-informed management. Presenting Author: Kylee Nissen- University of Minnesota - Kylee Nissen
10:30 AM - 10:45 AM Pacific: Grassland management for pollinators in a working landscape. Presenting Author: Diane Debinski- Montana State University - Diane Debinski
10:45 AM - 11:00 AM Pacific: Bison create heterogeneous habitat that benefits wild bees: A decade of research in restored tallgrass prairie. Presenting Author: Bethanne Bruninga-Socolar- Western EcoSystems Technology, Inc.. Sean R. Griffin- Lady Bird Johnson Wildflower Center - Bethanne Bruninga-Socolar; Sean R. Griffin
11:00 AM - 11:15 AM Pacific: Break -
11:15 AM - 11:30 AM Pacific: Rotational grazing: Boon or bane for plants, pollinators, and interactions?. Presenting Author: Avery Pearson- University of North Texas. Laura Russo- University of Tennessee. Braeden R. Duffee- University of North Texas. Aidan O. McKinnis- University of North Texas. Nick Medina- University of North Texas. Julian Moore- University of North Texas. John L. Neff- Central Texas Melittological Institute. Ethan W. Phillips- University of North Texas. Elinor Lichtenberg- University of North Texas - Avery Pearson; Laura Russo; Braeden R. Duffee; Aidan O. McKinnis; Nick Medina; Julian Moore; John L. Neff; Ethan W. Phillips; Elinor Lichtenberg
11:30 AM - 11:45 AM Pacific: Ungulates alter floral community composition and increase competition with native bees. Presenting Author: Will Glenny- U.S. Forest Service. Sandra Debano- Oregon State University. Bridgett Naylor- U.S. Forest Service, Pacific Northwest Research Station. Scott Mitchell- Oregon State University. Mike Wisdom- U.S. Forest Service, Pacific Northwest Research Station. Mary M. Rowland- U.S. Forest Service, Pacific Northwest Research Station - Will Glenny; Sandra Debano; Bridgett Naylor; Scott Mitchell; Mike Wisdom; Mary M. Rowland
11:45 AM - 12:00 PM Pacific: Exploring the influence of a non-native rangeland forb as a competitor, facilitator, or friendly neighbor of a common co-flowering native rangeland forb. Presenting Author: CK Pei- USDA-ARS. Joshua Campbell- USDA-ARS - CK Pei; Joshua Campbell
12:00 PM - 12:15 PM Pacific: Finding Franklin's bumble bee: Development and application of eDNA in the hunt for one of North America's most elusive pollinators. Presenting Author: Jeff Everett- U.S. Fish and Wildlife Service. Michaela R. Grossklaus- U.S. Geological Survey. David S. Pilliod- U.S. Geological Survey - Jeff Everett; Michaela R. Grossklaus; David S. Pilliod
12:15 PM - 12:30 PM Pacific: Exploring nonlethal identification methods in grassland bee ecology research. Presenting Author: Bethany Roberton- North Dakota State University. Jason Harmon- Oklahoma State University. Dillon Fogarty- North Dakota State University. Kevin Sedivec- North Dakota State University - Bethany Roberton; Jason Harmon; Dillon Fogarty; Kevin Sedivec

Title: Bioacoustic Approaches Shaping Entomology's Future: Applications Across Diverse Study Systems

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers: Lillian H.P Johnson- The Ohio State University; Luke Hearon- The Ohio State University
Categories: Section Symposium; Plant-Insect Ecosystems; Machine Learning and AI
Abstract: Bioacoustics is a versatile methodology that allows researchers to study a vast range of systems based on the sounds that organisms make. This symposium explores its legacy, ongoing research, and current automated approaches. Attendees will gain a sense of how bioacoustic methods could be leveraged in their own study system.
Tracks: Section Symposium; Plant-Insect Ecosystems; Machine Learning and AI

Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Lillian H.P Johnson- The Ohio State University - Lillian H.P Johnson
9:35 AM - 9:55 AM Pacific: Friendly companions--Field studies of insect behavior and bioacoustics in new contexts with IoT and deep learning. Presenting Author: Richard W. Mankin- USDA-ARS. Seth McNeill- Embry Riddle University - Richard W. Mankin; Seth McNeill
9:55 AM - 10:15 AM Pacific: Using bioacoustics to explore the ecology of neotropical katydids. Presenting Author: Sharon Martinson- Dartmouth College. Laurel Symes- Cornell University. Shyam Madhusudhana- Cornell University. Hannah TerHofstede- University of Windsor - Sharon Martinson; Laurel Symes; Shyam Madhusudhana; Hannah TerHofstede
10:15 AM - 10:35 AM Pacific: Integrating acoustic monitoring and machine learning for orthoptera biodiversity assessment. Presenting Author: Robert Boyd- Kent State University. Christie Bahlai (she/her/hers)- Kent State University - Robert Boyd; Christie Bahlai (she/her/hers)
10:35 AM - 10:55 AM Pacific: The buzzing of the bees: Machine-learning bioacoustics as a targeted and non-lethal method for monitoring bees. Presenting Author: Laura Figueroa- University of Massachusetts. Anna Kohlberg- Oregon State University. Lauren Cody- Cornell University. Laurel Symes- Cornell University. Shyam Madhusudhana- Cornell University. Christopher Myers- Cornell University - Laura Figueroa; Anna Kohlberg; Lauren Cody; Laurel Symes; Shyam Madhusudhana; Christopher Myers
10:55 AM - 11:05 AM Pacific: Break -
11:05 AM - 11:25 AM Pacific: Comparing diel pollinator foraging patterns between patches using passive acoustic monitoring. Presenting Author: Luke Hearon- The Ohio State University - Luke Hearon
11:25 AM - 11:45 AM Pacific: Applying biotremology to monitor hemipteran pests. Presenting Author: Edwin T. Harris- Oregon State University. Vincent Vaughn- Oregon State University. Nik Synytsia- Oregon State University. Chet Udell- Oregon State University. Vaughn M. Walton- Oregon State University - Edwin T. Harris; Vincent Vaughn; Nik Synytsia; Chet Udell; Vaughn M. Walton
11:45 AM - 12:05 PM Pacific: Insect sensing technology for smart agricultural monitoring and pest management. Presenting Author: Eamonn Keogh, Ph.D.- University of California. Leslie Hickle, PhDFarmSense, Inc.. Shailendra Singh, PhD- FarmSense, Inc.. Tracy Ellis- FarmSense, Inc.. Cliff Kitayama, Ph.D.- FarmSense, Inc. - Eamonn Keogh, Ph.D.; Leslie Hickle, PhD; Shailendra Singh, PhD; Tracy Ellis; Cliff Kitayama, Ph.D.
12:05 PM - 12:10 PM Pacific: Closing remarks. Presenting Author: Lillian H.P Johnson- The Ohio State University - Lillian H.P Johnson
12:10 PM - 12:30 PM Pacific: Panel discussion –

Title: Emerging Model Systems Enabling Host-Microbial Science

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, F150, OCC
Organizers: Zakee Sabree (he/him/his)- University of Toronto; Elizabeth Ottesen (she/her/hers)- University of Georgia; Jose Pietri- Purdue University
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology
Abstract: Invertebrate are inclusive model systems enabling new investigative avenues in host-microbiome research. Our symposium will highlight cockroaches, bed bugs and kissing bugs as emerging model systems that will demonstrate how microbes are critical partners in animal growth, development and evolution, and are essential for developing mechanistic understandings of host-microbe interactions.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology
Presentations:
9:30 AM - 9:32 AM Pacific: Introductory remarks. Presenting Author: Zakee Sabree (he/him/his)- University of Toronto - Zakee Sabree (he/him/his)
9:32 AM - 9:57 AM Pacific: Decoding gut microbial responses to dietary polysaccharides in the model omnivore Periplaneta americana. Presenting Author: Elizabeth Ottesen (she/her/hers)- University of Georgia - Elizabeth Ottesen (she/her/hers)
9:57 AM - 10:22 AM Pacific: Modeling microbiome-mediated host growth and development using germ-free cockroach system. Presenting Author: Zakee Sabree (he/him/his)- University of Toronto. Kayla Cross- The Ohio State University. Victoria Barnette (she/her/hers)- Ohio State University - Zakee Sabree (he/him/his); Kayla Cross; Victoria Barnette (she/her/hers)
10:22 AM - 10:47 AM Pacific: Contribution of the gut microbial community in German cockroach biology. Presenting Author: Ayako Wada-Katsumata (she/her/hers)- North Carolina State University. Madhavi Kakumanu- North Carolina State University. Coby Schal- North Carolina State University - Ayako Wada-Katsumata (she/her/hers); Madhavi Kakumanu; Coby Schal

10:47 AM - 10:52 AM Pacific: Break -
10:52 AM - 11:17 AM Pacific: The German cockroach as a vector and model for host-pathogen interactions. Presenting Author: Jose Pietri- Purdue University - Jose Pietri
11:17 AM - 11:42 AM Pacific: Bed bugs as a model for exploring host-microbe interactions in urban environments. Presenting Author: Seun Oladipupo- The Ohio State University - Seun Oladipupo
11:42 AM - 12:07 PM Pacific: Symbiont mediated immune priming in the kissing bug Rhodnius prolixus. Presenting Author: Kevin Vogel- University of Georgia - Kevin Vogel
12:07 PM - 12:25 PM Pacific: Panel discussion -
12:25 PM - 12:27 PM Pacific: Closing remarks. Presenting Author: Zakee Sabree (he/him/his)- University of Toronto - Zakee Sabree (he/him/his)

Title: Insects as Agents and Beneficiaries of Restoration in Highly Degraded Habitats

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers: Frances Sivakoff- The Ohio State University; Nathan Haan- University of Kentucky
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: Humans have transformed three quarters of the terrestrial biosphere. In the face of sustainability challenges, restoring degraded landscapes is a global priority. Here, we explore insects' connections to restoration from two complementary perspectives: how they benefit from ecosystem restoration/recovery, and how they can be used as tools in this process.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:40 AM Pacific: Introductory remarks. Presenting Author: Nathan Haan- University of Kentucky - Nathan Haan
9:40 AM - 9:55 AM Pacific: Roadsides as pollinator habitat: The promises and perils of roadside restorations. Presenting Author: Ashley Darst- Michigan State University. Tim Mitchell- University of Minnesota. Lindsey Kemmerling- Michigan State University. Emilie Snell-Rood- University of Minnesota. Nick Haddad- Michigan State University - Ashley Darst; Tim Mitchell; Lindsey Kemmerling; Emilie Snell-Rood; Nick Haddad
9:55 AM - 10:10 AM Pacific: Extent, impact, and restoration of lead polluted urban greenspaces for butterflies and other insects. Presenting Author: Lindsey Kemmerling- Michigan State University. Emilie Snell-Rood- University of Minnesota - Lindsey Kemmerling; Emilie Snell-Rood
10:10 AM - 10:25 AM Pacific: Bumble bees in restored tallgrass prairie. Presenting Author: Jade Kochanski- University of Wisconsin. Stephanie L. McFarlane- University of Wisconsin. Claudio Gratton- University of Wisconsin - Jade Kochanski; Stephanie L. McFarlane; Claudio Gratton
10:25 AM - 10:40 AM Pacific: Does the surrounding land affect the bee community in prairie strips?. Presenting Author: Abigail Miller- Iowa State University. Tim Youngquist- Iowa State University. Matthew E O'Neal- Iowa State University - Abigail Miller; Tim Youngquist; Matthew E O'Neal
10:40 AM - 10:55 AM Pacific: Break -
10:55 AM - 11:10 AM Pacific: Quantifying natural enemy activity along a heat gradient in a legacy city. Presenting Author: Erika Wright- The Ohio State University. Christopher Riley- Bartlett Tree Expert Company. Ellen Danford- The Ohio State University. Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University - Erika Wright; Christopher Riley; Ellen Danford; Mary M. Gardiner, M.S., Ph.D. (she/her/hers)
11:10 AM - 11:25 AM Pacific: Understanding the legacy of mining and reclamation on insect communities and ecosystem function. Presenting Author: Frances Sivakoff- The Ohio State University - Frances Sivakoff
11:25 AM - 11:40 AM Pacific: Leveraging dung beetles to restore degraded soils. Presenting Author: Nathan Haan- University of Kentucky - Nathan Haan
11:40 AM - 11:55 AM Pacific: Hidden in plain sight: Opportunities to restore degraded farmland to perennial grasslands for biodiversity conservation. Presenting Author: Nick Haddad- Michigan State University. Annabelle McCarthy- Michigan State University. Alice Puchalsky- Michigan State University. Jamie Smith- Michigan State University. Lindsey Kemmerling- Michigan State University - Nick Haddad; Annabelle McCarthy; Alice Puchalsky; Jamie Smith; Lindsey Kemmerling

Title: Indigenous Perspectives on Entomological Research Across Generations

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 253, OCC
Organizers: Willow Lovecky (she/her/hers)- University of Virginia; Melissa Lynn Reed- Oklahoma State University; Cheyenne I. Reuben-Thomas (she/they)- Cornell University; Sky Wildcat- Advancing Indigenous People in STEM; Daniel Marshall- Washington State University

Categories: Member Symposium; Diversity, Equity, and Inclusion
Abstract: This symposium highlights the diverse contributions of Indigenous and tribal-adjacent scholars across all career stages in entomology. Featuring a broad scope, we will showcase innovative research in arthropod science and present ongoing research on topics relevant to tribal communities, including public health and education.
Tracks: Member Symposium; Diversity, Equity, and Inclusion
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Willow Lovecky (she/her/hers)- University of Virginia - Willow Lovecky (she/her/hers)
9:35 AM - 9:50 AM Pacific: Enemies or allies? Entomopathogenic nematodes increase terpene aldehyde production in cotton roots. Presenting Author: Adriane Fifield (she/her/hers)- Texas A&M University. Anjel M. Helms- Texas A&M University. Charles Suh- USDA-ARS, ICCDRU - Adriane Fifield (she/her/hers); Anjel M. Helms; Charles Suh
9:50 AM - 10:05 AM Pacific: Understanding soil particle size and bulk density preferences of the mining bee, Anthophora abrupta (Apidae). Presenting Author: Willow Lovecky (she/her/hers)- University of Virginia - Willow Lovecky (she/her/hers)
10:05 AM - 10:20 AM Pacific: Caring for our insect kin the ANTie way: Applying critical indigenous perspectives in entomology. Presenting Author: Cheyenne I. Reuben-Thomas (she/they)- Cornell University - Cheyenne I. Reuben-Thomas (she/they)
10:20 AM - 10:35 AM Pacific: Reimagining biocollections by and for indigenous communities: Give our kin back and let us lead. Presenting Author: Leke Hutchins- Arizona State University - Leke Hutchins
10:35 AM - 10:50 AM Pacific: Break -
10:50 AM - 11:50 AM Pacific: Poster session -
10:50 AM - 11:50 AM Pacific: Characterization of gut microbiomes among New York City cockroaches. Presenting Author: Kate Olivia Montana- American Museum of Natural History - Kate Olivia Montana
10:50 AM - 11:50 AM Pacific: Do carbon dioxide-baited traps increase local lone star tick abundance?. Presenting Author: Daniel Marshall- Washington State University - Daniel Marshall
10:50 AM - 11:50 AM Pacific: Xindoco: The significance of edible leafcutter ants in Oaxaca's indigenous culture and ecology. Presenting Author: Leonela Bolanos- California Polytechnic State University - Leonela Bolanos
11:50 AM - 11:55 AM Pacific: Closing remarks. Presenting Author: Willow Lovecky (she/her/hers)- University of Virginia - Willow Lovecky (she/her/hers)

Title: Flatheaded Borers in Specialty Crops: Lessons Learned and the Challenges Ahead

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers: Karla M. Addesso- Tennessee State University; Cynthia Perkovich- Ashland University; Alfred Daniel Johnson- University of Guam
Categories: Member Symposium; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity
Abstract: This session will provide research updates on Chrysobothris spp. and other Buprestids of concern in specialty crop production. Topics will include species diversity and phylogenetics, behavioral ecology and management in diverse systems. The symposium will end with a discussion of unanswered questions, emerging problems and future directions for research.
Tracks: Member Symposium; Plant-Insect Ecosystems; Systematics, Evolution, and Biodiversity
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Karla M. Addesso- Tennessee State University - Karla M. Addesso
9:35 AM - 9:50 AM Pacific: Molecular phylogeny of selected North American Chrysobothris species (Coleoptera: Buprestidae) inferred from assembled mitochondrial genomes. Presenting Author: Axel Gonzalez Murillo- University of Tennessee. John Moulton- The University of Tennessee. Kurt Lamour- University of Tennessee. Karla M. Addesso- Tennessee State University. Joshua Basham- USDA-APHIS. Jhalendra Rijal (he/him/his)- University of California. William Klingeman- University of Tennessee - Axel Gonzalez Murillo; John Moulton; Kurt Lamour; Karla M. Addesso; Joshua Basham; Jhalendra Rijal (he/him/his); William Klingeman
9:50 AM - 10:05 AM Pacific: Novel host-plant association for Chrysobothris mali Horn, 1886 (Coleoptera: Buprestidae) larvae found infesting Pyrus communis L. 'Bartlett' (Rosaceae) fruit in Lake County, California orchards. Presenting Author: Cindy Kron- UC Agriculture and Natural Resources. Axel Gonzalez Murillo- University of Tennessee. Clebson Goncalves- University of California Agriculture and Natural Resources. Broc Zoller- The Pear Doctor, Inc.. Karla M. Addesso- Tennessee State University. William Klingeman- University of

Tennessee. John Moulton- The University of Tennessee - Cindy Kron; Axel Gonzalez Murillo; Clebson Goncalves; Broc Zoller; Karla M. Addesso; William Klingeman; John Moulton
10:05 AM - 10:20 AM Pacific: Unraveling host selection in Chrysobothris: Stress cues, cultivar resistance, and future directions in buprestid ecology. Presenting Author: Cynthia Perkovich- Ashland University. Asmita Gautam- Mississippi State University. Paul O'Neal- Tennessee State University. Karla M. Addesso- Tennessee State University - Cynthia Perkovich; Asmita Gautam; Paul O'Neal; Karla M. Addesso
10:20 AM - 10:35 AM Pacific: Unintended invitations: Herbicide stress signals favor Chrysobothris oviposition in red maples. Presenting Author: Melanie Eichler- Ashland University. Cynthia Perkovich- Ashland University - Melanie Eichler; Cynthia Perkovich
10:35 AM - 10:45 AM Pacific: Break and poster session -
10:35 AM - 10:45 AM Pacific: Risk factors for insect borer attack in Georgia's urban landscapes. Presenting Author: Zia Valerie Williamson- University of Georgia - Zia Valerie Williamson
10:35 AM - 10:45 AM Pacific: The genus Chrysobothris: Future research directions. Presenting Author: Karla M. Addesso- Tennessee State University - Karla M. Addesso
10:35 AM - 10:45 AM Pacific: Trap development for targeting Chrysobothris spp.. Presenting Author: Jason Oliver- Tennessee State University. Nadeer Youssef- Tennessee State University. Asmita Gautam- Mississippi State University. Paul O'Neal- Tennessee State University. Karla M. Addesso- Tennessee State University - Jason Oliver; Nadeer Youssef; Asmita Gautam; Paul O'Neal; Karla M. Addesso
10:45 AM - 11:00 AM Pacific: Irrigation and cover cropping as cultural management practices for prevention of Chrysobothris damage in nursery fields. Presenting Author: Alfred Daniel Johnson- University of Guam. Karla M. Addesso- Tennessee State University. Anthony Witcher- Tennessee State University. Jason Oliver- Tennessee State University - Alfred Daniel Johnson; Karla M. Addesso; Anthony Witcher; Jason Oliver
11:00 AM - 11:15 AM Pacific: Comparing monitoring traps and experimental lures for the surveying of Chrysobothris species (Coleoptera: Buprestidae) in Florida southern highbush blueberries. Presenting Author: Alexis Zapata- University of Florida. Esnai Munthali- University of Florida. Arden R. Lambert- University of Florida. Joshua Basham- USDA-APHIS. Karla M. Addesso- Tennessee State University. Oscar Liburd- University of Florida - Alexis Zapata; Esnai Munthali; Arden R. Lambert; Joshua Basham; Karla M. Addesso; Oscar Liburd
11:15 AM - 11:30 AM Pacific: Multi-year effort in developing IPM tools for Pacific flatheaded borer, Chrysobothris mali, in California walnuts. Presenting Author: Jhalendra Rijal (he/him/his)- University of California. Samaneh Sakaki (she/her/hers)- UC Agriculture and Natural Resources. Sudan Gyawaly- University of California. Karla M. Addesso- Tennessee State University - Jhalendra Rijal (he/him/his); Samaneh Sakaki (she/her/hers); Sudan Gyawaly; Karla M. Addesso
11:30 AM - 11:40 AM Pacific: Break and poster session -
11:40 AM - 11:55 AM Pacific: Biology and management of flatheaded borers in Oregon hazelnuts. Presenting Author: Nik Wiman- Oregon State University. Heather E. Andrews- Oregon State University. Erica Rudolph- FMC Corporation. Mathew Pedersen- Oregon State University. Kody Transue- Oregon State University North Willamette Research and Extension Center - Nik Wiman; Heather E. Andrews; Erica Rudolph; Mathew Pedersen; Kody Transue
11:55 AM - 12:10 PM Pacific: Assessment of flatheaded borers infesting fruit and nut crops in Texas. Presenting Author: Eddie Slusher- Texas A&M University - Eddie Slusher
12:10 PM - 12:25 PM Pacific: Chronicles of Agrilus cuprescens across North America as an introduced a pest of Rosa and Rubus. Presenting Author: Justin O'Dea- Washington State University - Justin O'Dea
12:25 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Karla M. Addesso- Tennessee State University - Karla M. Addesso

Title: Connecting Legacy and Innovation in Stored Product Entomology to Promote Global Food Security

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers: Scott T. O'Neal (he/him/his)- FSS, Inc.; Deanna Scheff- USDA-ARS
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: The challenge of protecting stored products from pest infestations has long been an integral part of entomology. Join us as we bridge the gap between time-tested methods and forward-thinking solutions, fostering a collective commitment to safeguarding food security across the globe.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
9:30 AM - 9:33 AM Pacific: Introductory remarks. Presenting Author: Scott T. O'Neal (he/him/his)- FSS, Inc. - Scott T. O'Neal (he/him/his)

9:33 AM - 9:57 AM Pacific: Successful IPM for stored products: A history of time-tested tools and potential for recent innovations. Presenting Author: Thomas Phillips- Kansas State University. David Hagstrum - Thomas Phillips; David Hagstrum
9:57 AM - 10:09 AM Pacific: Omics-based methods for identifying mechanisms of stress tolerance in stored product insects. Presenting Author: Erin Scully- USDA-ARS - Erin Scully
10:09 AM - 10:21 AM Pacific: New automated traps for real-time monitoring of nonquarantine and quarantined stored product insects. Presenting Author: William Morrison- USDA-ARS. Matthew Hetherington- Kansas State University. Jacqueline Maille- Kansas State University. Joseph Castaldi- Kansas State University. Jennifer Abshire- USDA-ARS. Christos Athanassiou (he/him/his)- University of Thessaly. Thomas Phillips- Kansas State University. Alison Gerken- USDA-ARS - William Morrison; Matthew Hetherington; Jacqueline Maille; Joseph Castaldi; Jennifer Abshire; Christos Athanassiou (he/him/his); Thomas Phillips; Alison Gerken
10:21 AM - 10:33 AM Pacific: The use of imaging and sensors in stored product entomology: Past success builds future innovation. Presenting Author: Alison Gerken- USDA-ARS - Alison Gerken
10:33 AM - 10:45 AM Pacific: USDA-ARS update on phytosanitary approaches to control stored product insect pests. Presenting Author: Spencer Walse- USDA-ARS - Spencer Walse
10:45 AM - 10:57 AM Pacific: Advances in hermetic bag technology for postharvest protection. Presenting Author: Dieudonne Baributsa- Purdue University - Dieudonne Baributsa
10:57 AM - 11:09 AM Pacific: Closed loop fumigation: Successful for over 40 years. Presenting Author: Edmond Bonjour- Oklahoma State University - Edmond Bonjour
11:09 AM - 11:21 AM Pacific: Navigating the regulatory path through research and development to sustain fumigant use, an essential tool for the global food supply and biosecurity. Presenting Author: Suresh Prabhakaran- Douglas Products - Suresh Prabhakaran
11:21 AM - 11:33 AM Pacific: The next chapter in Plodia interpunctella mating disruption: Using collaborative research to lead us to advanced integrated pest management techniques. Presenting Author: James F. Miller, ACE- Trece Inc.. Jessica Lindenmayer, BCE- Trece Inc. - James F. Miller, ACE; Jessica Lindenmayer, BCE
11:33 AM - 11:45 AM Pacific: Keys to a successful fumigation. Presenting Author: Todd Wilhelm- UPL - Todd Wilhelm
11:45 AM - 11:57 AM Pacific: What is the role of fumigation in modern food safety?. Presenting Author: Peter Mueller- FSS, Inc.. Scott T. O'Neal (he/him/his)- FSS, Inc. - Peter Mueller; Scott T. O'Neal (he/him/his)
11:57 AM - 12:27 PM Pacific: Panel discussion -
12:27 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Scott T. O'Neal (he/him/his)- FSS, Inc. - Scott T. O'Neal (he/him/his)

Title: Innovations in Invasive Species Response

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, D137-138, OCC
Organizers: Cody Holthouse- Oregon Department of Agriculture; Max Ragozzino- Oregon Department of Agriculture
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: The scale of the invasive species crisis is poorly understood. Impacts include increased pesticide use, loss of pollinator diversity, shrinking forests, and extinction. Yet little attention is given. Management faces new pests to anticipate, identify, monitor, understand and control. We will discuss efforts to innovate, respond and future needs.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Max Raggozino- Oregon Department of Agiculture - Max Raggozino
9:35 AM - 9:52 AM Pacific: Regulatory solutions to stop the invasion. Presenting Author: Joshua Vlach- Oregon Department of Agriculture - Joshua Vlach
9:52 AM - 10:09 AM Pacific: Oviposition, behavior, and establishment studies of Leucotaraxis silver flies: Insights into a specialist biocontrol agent of hemlock woolly adelgid. Presenting Author: Olivia Andrews- Virginia Polytechnic Institute and State University. Chin-Cheng Scotty Yang- Virginia Polytechnic Institute and State University. Albert Mayfield- USDA-FS Southern Research Station. Mark Whitmore- Cornell University. Thomas Kuhar- Virginia Polytechnic Institute and State University. Scott S. Salom- Virginia Tech - Olivia Andrews; Chin-Cheng Scotty Yang; Albert Mayfield; Mark Whitmore; Thomas Kuhar; Scott S. Salom
10:09 AM - 10:26 AM Pacific: Mediterranean oak borer status in Oregon. Presenting Author: Christine Buhl- Oregon Department of Forestry. Wyatt Williams- Oregon Department of Forestry - Christine Buhl; Wyatt Williams

10:26 AM - 10:43 AM Pacific: Evaluating Dryinus sinicus, a nymphal parasitoid of spotted lanternfly and a promising biological control agent. Presenting Author: Lisa Tewksbury- University of Rhode Island. Hannah Broadley- U.S. Department of Agriculture, Animal Plant Health Inspection Service, Plant Protection and Quarantine, Forest Pest Methods Laboratory. Steven Sipolski- U.S. Department of Agriculture, Animal Plant Health Inspection Service, Plant Protection and Quarantine, Forest Pest Methods Laboratory. Corrine Losch- U.S. Department of Agriculture, Animal Plant Health Inspection Service, Plant Protection and Quarantine, Forest Pest Methods Laboratory. Greg J. Wiggins (he/him/his)- North Carolina Department of Agriculture & Consumer Services. Charles Bartlett- University of Delaware. Xingeng Wang- USDA-ARS. Dana Terrill- University of Rhode Island, Department of Plant Science and Entomology. Alexandra Johnson (she/her/hers)- University of Rhode Island - Lisa Tewksbury; Hannah Broadley; Steven Sipolski; Corrine Losch; Greg J. Wiggins (he/him/his); Charles Bartlett; Xingeng Wang; Dana Terrill; Alexandra Johnson (she/her/hers)
10:43 AM - 10:53 AM Pacific: Discussion -
10:53 AM - 11:07 AM Pacific: Break -
11:07 AM - 11:24 AM Pacific: History of emerald ash borer survey and readiness planning in Oregon. Presenting Author: Christine Buhl- Oregon Department of Forestry. Wyatt Williams- Oregon Department of Forestry - Christine Buhl; Wyatt Williams
11:24 AM - 11:41 AM Pacific: Advances in proactive pest management of EAB in California. Presenting Author: Ricky Lara- California Department of Food and Agriculture. Daniel Roberts- California Department of Food and Agriculture. Vincent Maiquez- California Department of Food and Agriculture - Ricky Lara; Daniel Roberts; Vincent Maiquez
11:41 AM - 11:58 AM Pacific: Early detection of Agrilus planipennis using environmental DNA. Presenting Author: Blythe Layton- Clean Water Services. Hannah Ferguson- Clean Water Services. Taylor Warnick- Clean Water Services. Matthew Mills- Oregon Department of Forestry. Randy Lawrence- Clean Water Services. Max Ragozzino- Oregon Department of Agriculture - Blythe Layton; Hannah Ferguson; Taylor Warnick; Matthew Mills; Randy Lawrence; Max Ragozzino
11:58 AM - 12:15 PM Pacific: Effect of oviposition substrates on egg-laying behavior inAgrilus planipennis: Implications for development of traps to detect the beetle eggs. Presenting Author: Jian Duan- USDA-ARS. Mitchell Green- University of Massachusetts - Jian Duan; Mitchell Green
12:15 PM - 12:25 PM Pacific: Discussion -
12:25 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Max Raggozino- Oregon Department of Agiculture - Max Raggozino

Title: Innovative Risk Assessment Methods for Biological Products' Impact on Non-Target Arthropods

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, F151, OCC
Organizers: Ashley St. Clair (she/her/hers)- Corteva Agriscience; Giovana Matos Franco- Corteva Agriscience
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Abstract: Join us to explore cutting-edge risk assessment methodologies for biological products impacting non-target arthropods. Attendees will gain insights into innovative tools, intergenerational collaboration, and tailored testing strategies, ensuring accurate safety evaluations. Discover how integrating legacy knowledge with modern advancements can promote sustainable agricultural practices.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Ashley St. Clair (she/her/hers)- Corteva Agriscience - Ashley St. Clair (she/her/hers)
9:35 AM - 9:55 AM Pacific: Rethinking hazard testing: Addressing the potential shortcomings of traditional methods for non-target arthropods and biologicals. Presenting Author: Ashley St. Clair (she/her/hers)- Corteva Agriscience. Sian Ellis- Corteva Agriscience - Ashley St. Clair (she/her/hers); Sian Ellis
9:55 AM - 10:15 AM Pacific: Challenges in the testing and evaluation of risk to non-target arthropods for biological products. Presenting Author: Henry Krueger- Eurofins Agroscience - Henry Krueger
10:15 AM - 10:30 AM Pacific: Break -
10:30 AM - 10:50 AM Pacific: Towards safer microbial innovations in agriculture: Challenges and successes. Presenting Author: Giovana Matos Franco- Corteva Agriscience. Renata Belisrio- Corteva Agriscience. Christine Kraus- Corteva Agriscience. Monica B. Olson (she/her/hers)- Corteva Agriscience. Cassandra Marin- Corteva Agriscience. Alicia Walker- Corteva Agriscience. Amanda Rosier- Corteva Agriscience. Carla Menegatti- Corteva Agriscience. Christian Santos Medelln- Corteva Agriscience. Meranda Hasty- Corteva Agriscience. Cecilia Chagas de Freitas- Corteva Agriscience. Trent Stafford- Corteva Agriscience. Travis McClure- Corteva

Agriscience. Jaema Howard- Corteva Agriscience. Deepa Acharya- Corteva Agriscience. Rosana Serikawa- Corteva Agriscience. Vera Bonardi- Corteva Agriscience - Giovana Matos Franco; Renata Belisrio; Christine Kraus; Monica B. Olson (she/her/hers); Cassandra Marin; Alicia Walker; Amanda Rosier; Carla Menegatti; Christian Santos Medelln; Meranda Hasty; Cecilia Chagas de Freitas; Trent Stafford; Travis McClure; Jaema Howard; Deepa Acharya; Rosana Serikawa; Vera Bonardi
10:50 AM - 11:10 AM Pacific: Limitations of current approaches to ecological risk assessment for biopesticides. Presenting Author: James Rouse- APIS Applied Insect Science. Michael Ramsey- APIS Applied Insect Science. Mark Whittaker- APIS Applied Insect Science - James Rouse; Michael Ramsey; Mark Whittaker
11:10 AM - 11:30 AM Pacific: American painted lady (Vanessa carduiL.) non-target insect test method for microbial pesticides registration. Presenting Author: Michael Patnaude- Smithers. Ashlee Kirkwood- Smithers - Michael Patnaude; Ashlee Kirkwood
11:30 AM - 11:45 AM Pacific: Break -
11:45 AM - 12:05 PM Pacific: Are microbes 'safer' pesticides? Tailored approaches to characterize risk of microbial products to bees. Presenting Author: Ana Cabrera (she/her/hers)- Bayer Crop Science. Daniel R. Schmehl (he/him/his)- Bayer Crop Science. Lisa Ortego- Bayer Crop Science - Ana Cabrera (she/her/hers); Daniel R. Schmehl (he/him/his); Lisa Ortego
12:05 PM - 12:25 PM Pacific: Endophytic entomopathogens and IPM: The risks and benefits of fungal biological control in crop protection. Presenting Author: Adrianna Szczepaniec- Colorado State University. Neha Panwar- Colorado State University. Jorge Ibarra Caballero- Colorado State University. Jane Stewart- Colorado State University - Adrianna Szczepaniec; Neha Panwar; Jorge Ibarra Caballero; Jane Stewart
12:25 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Ashley St. Clair (she/her/hers)- Corteva Agriscience - Ashley St. Clair (she/her/hers)

Title: From the Bench to the Field: Emerging Technologies to Advance Honey Bee Health

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers: Vincent Ricigliano- USDA-ARS; Julia Fine- USDA-ARS; Sascha Nicklisch- University of California
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology
Abstract: As honey bee populations continue to decline, researchers and beekeepers are in need of expanded toolkits for colony management. Importantly, solutions must be scalable and sustainable. This session explores the application of emerging molecular, biochemical, and computational approaches to improve bee health and resilience in a rapidly changing world.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology
Presentations:
9:30 AM - 9:40 AM Pacific: Introductory remarks. Presenting Author: Vincent Ricigliano- USDA-ARS - Vincent Ricigliano
9:40 AM - 9:55 AM Pacific: What can forensic methods tell us? Using non-lethal pathogen screens to identify bee pathogens. Presenting Author: Elena Gratton- University of Illinois - Elena Gratton
9:55 AM - 10:10 AM Pacific: Are honey bee detoxicative cytochrome P450 genes different from other bees?. Presenting Author: Reed Johnson- The Ohio State University - Reed Johnson
10:10 AM - 10:25 AM Pacific: Progress and current applications of marker assisted selection in honey bees. Presenting Author: Arian Avalos- USDA-ARS - Arian Avalos
10:25 AM - 10:35 AM Pacific: Break -
10:35 AM - 10:45 AM Pacific: Mapping the invisible: How advanced AMS technology reveals chemical communication and contamination pathways in bee colonies. Presenting Author: Angela Encerrado- University of California - Angela Encerrado
10:45 AM - 11:00 AM Pacific: Poison or potion: Walking a fine line to develop queen therapeutics. Presenting Author: Julia Fine- USDA-ARS - Julia Fine
11:00 AM - 11:15 AM Pacific: Precision nutrition for honey bees enabled by the use and modification of microalgae. Presenting Author: Alexander McMenamin- Pennsylvania State University - Alexander McMenamin
11:15 AM - 11:25 AM Pacific: Break and poster session -
11:15 AM - 11:25 AM Pacific: From controlled environments to real-world applications: Advancing honey bee health. Presenting Author: Elina Nino- University of California - Elina Nino
11:25 AM - 11:40 AM Pacific: Leveraging a honey bee pest to improve honey bee health: Bioconversion of excess bee-collected pollen by the small hive beetle, and effects of excess pollen on honey bee colony health and productivity. Presenting Author: Steven Cook- USDA-ARS - Steven Cook

11:40 AM - 11:55 AM Pacific: Bridging the gap: Using automation to link laboratory bioassays to field-relevant outcomes in honey bees. Presenting Author: Adam Hamilton- ForgeBee, Inc - Adam Hamilton
11:55 AM - 12:10 PM Pacific: Managing honey bees in the face of widespread colony losses. Presenting Author: Jay Evans- USDA-ARS - Jay Evans
12:10 PM - 12:30 PM Pacific: Panel discussion –

Title: Bridging Research and Communities: Advancing Entomology Through Collaborative Science

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E145, OCC
Organizers: Eric O. Stiner- California Academy of Sciences; Lauren Esposito, PhD- California Academy of Sciences; Sara E. Emery (she/her/hers)- Cornell University
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems; Diversity, Equity, and Inclusion; Early Career; Student
Abstract: Participatory science is transforming entomology by uniting researchers, communities, and stakeholders to monitor biodiversity and drive conservation. This symposium explores best practices, ethical considerations, and innovative tools for inclusive, community-driven research. Join us to discover how collaboration strengthens science, fosters engagement, and advances insect conservation in a changing world.
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems; Diversity, Equity, and Inclusion; Early Career; Student
Presentations:
9:30 AM - 9:50 AM Pacific: Opportunities at the interface of entomology and citizen science. Presenting Author: Sean Ryan- Exponent - Sean Ryan
9:50 AM - 10:10 AM Pacific: Operationalizing indigenous data sovereignty in entomological research. Presenting Author: Leke Hutchinson- Arizona State University - Leke Hutchinson
10:10 AM - 10:30 AM Pacific: If you build it, they will come - Community science as a mutual resource. Presenting Author: Rachel Curtis-Robles- San Mateo County Mosquito and Vector Control District. Sarah Hamer- Texas A&M University - Rachel Curtis-Robles; Sarah Hamer
10:30 AM - 10:40 AM Pacific: Break -
10:40 AM - 11:00 AM Pacific: Growers as experimenters in a research-extension project for integrated pear pest management. Presenting Author: Robert Orpet- Oregon State University - Robert Orpet
11:00 AM - 11:20 AM Pacific: Developing scientific equity for biodiversity research: A thematic analysis of ecological change impacts on ranchers in Baja California Sur, Mexico. Presenting Author: Eric O. Stiner- California Academy of Sciences. Lauren Esposito, PhD- California Academy of Sciences. Christothea Herodotou- Open University, UK. Judith Taylor- Open university, UK. David Canseco-Vielma- University of California at Riverside. Miranda Dyson- Open University, UK. Mark Gaved- Open University, UK. Valeria Bastida-Segobiano- Universidad Autnoma de Baja California Sur, Mexico. Bernardo Villavicencio- Islands & Seas - Eric O. Stiner; Lauren Esposito, PhD; Christothea Herodotou; Judith Taylor; David Canseco-Vielma; Miranda Dyson; Mark Gaved; Valeria Bastida-Segobiano; Bernardo Villavicencio
11:20 AM - 11:55 AM Pacific: Panel discussion -
11:55 AM - 12:00 PM Pacific: Closing remarks. Presenting Author: Eric O. Stiner- California Academy of Sciences - Eric O. Stiner

Title: Appalachian Arthropods: Continuing the Legacy of Biodiversity Research in the Smokies and Beyond

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers: William R. Kuhn (he/him/his)- Discover Life In America; Todd Witcher (he/him/his)- Discover Life in America
Categories: Section Symposium; Systematics, Evolution, and Biodiversity
Abstract: The Southern Appalachians are teeming with life! This symposium celebrates the latest research into the biodiversity of this region, with a special emphasis on the All Taxa Biodiversity Inventory (ATBI) in the Great Smoky Mountains. Learn what students, established researchers, and community scientists are discovering in America's backyard.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity
Presentations:

9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: William R. Kuhn (he/him/his)- Discover Life In America - William R. Kuhn (he/him/his)
9:35 AM - 9:50 AM Pacific: From meadows to mountains: Citizen scientists reveal pollinator riches along the Blue Ridge Parkway. Presenting Author: Jennifer Geib (she/her/hers)- Appalachian State University - Jennifer Geib (she/her/hers)
9:50 AM - 10:05 AM Pacific: Syrphidae of the Southern Appalachians: Diversity, floral associations, and foraging behavior. Presenting Author: P.J. Coleman (he/him/his)- Appalachian State University. Paul Super (he/him/his)- National Park Service. Jennifer Geib (she/her/hers)- Appalachian State University - P.J. Coleman (he/him/his); Paul Super (he/him/his); Jennifer Geib (she/her/hers)
10:05 AM - 10:20 AM Pacific: The 3-mm frontier: Leveraging macrophotography, computer vision, and community science to document biodiversity in the Smokies. Presenting Author: Douglas Bruce (he/him/his)- Amateur Naturalist. Melinda Fawver (she/her/hers)- Amateur naturalist - Douglas Bruce (he/him/his); Melinda Fawver (she/her/hers)
10:20 AM - 10:30 AM Pacific: Break -
10:30 AM - 10:45 AM Pacific: Insect community shifts and bird population declines in response to habitat and climate change in Great Smoky Mountains National Park, U.S.A.. Presenting Author: Graham Montgomery (he/him/his)- University of California. David Wagner- University of Connecticut. David Wilcove (he/him/his)- Princeton University. Morgan Tingley (he/him/his)- University of California, Los Angeles - Graham Montgomery (he/him/his); David Wagner; David Wilcove (he/him/his); Morgan Tingley (he/him/his)
10:45 AM - 11:00 AM Pacific: National Ecological Observatory Network (NEON): Helping researchers identify and monitor biodiversity locally and across the continent. Presenting Author: Lindsey Hayter (she/her/hers)- National Ecological Observatory Network (NEON) Program. Callie Puntenney (she/her/hers)- National Ecological Observatory Network (NEON) Program - Lindsey Hayter (she/her/hers); Callie Puntenney (she/her/hers)
11:00 AM - 11:15 AM Pacific: Ideal real estate: The ecological and disturbance variables associated with Trechus (Coleoptera: Carabidae) distribution in the Great Smoky Mountains. Presenting Author: Patricia Louise Wooden (she/her/hers)- Mississippi State University. Michael S. Caterino- Clemson University - Patricia Louise Wooden (she/her/hers); Michael S. Caterino
11:15 AM - 11:30 AM Pacific: Pseudoscorpion biodiversity in the Southern Appalachians. Presenting Author: Charles Stephen (he/him/his)- Georgia State University - Charles Stephen (he/him/his)
11:30 AM - 11:40 AM Pacific: Break -
11:40 AM - 11:55 AM Pacific: COI barcoding as a tool to improve parasitoid wasp taxonomy. Presenting Author: James Marrin (he/him/his)- Farmingdale State College. Carly M. Tribull- Farmingdale State College - James Marrin (he/him/his); Carly M. Tribull
11:55 AM - 12:10 PM Pacific: New records of spider wasps (Hymenoptera: Pompilidae) of Great Smoky Mountains National Park. Presenting Author: Aiden Starry (he/him/his)- Union University. MacKenzie Cooper- Union University. Georgia Jinks (she/her/hers)- Union University. Danielle Lowe (she/her/hers)- Union University. Alexander Shoemaker (he/him/his)- Union University. Grace Orewiler (she/her/hers)- Union University. Jacob Taylor (he/him/his)- Union University. William R. Kuhn (he/him/his)- Discover Life In America. Jeremy Blaschke- Union University - Aiden Starry (he/him/his); MacKenzie Cooper; Georgia Jinks (she/her/hers); Danielle Lowe (she/her/hers); Alexander Shoemaker (he/him/his); Grace Orewiler (she/her/hers); Jacob Taylor (he/him/his); William R. Kuhn (he/him/his); Jeremy Blaschke
12:10 PM - 12:25 PM Pacific: Blitzing through the backlog: The ID Blitz as a particularly effective tool in the Smokies All Taxa Biodiversity Inventory (ATBI) toolbox. Presenting Author: William R. Kuhn (he/him/his)- Discover Life In America. Todd Witcher (he/him/his)- Discover Life in America - William R. Kuhn (he/him/his); Todd Witcher (he/him/his)

Title: Recent Advancement and Innovation in Microbial Biocontrol with Entomopathogens

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, E146, OCC
Organizers: Shaohui Wu- The Ohio State University; Eric Clifton (he/him/his)- BioWorks Inc.; Pasco B. Avery- University of Florida; Lorenzo Rossi- Texas A&M University
Categories: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology
Abstract: This symposium features presentations on cutting-edge advancement in fundamental and applied research in various types of entomopathogens. Topics include: insect molecular pathology and resistance, host-pathogen interactions, novel agents and application technologies, and integration of microbial biocontrol into pest management strategies.
Tracks: Member Symposium; Plant-Insect Ecosystems; Physiology, Biochemistry, and Toxicology

Presentations:
9:30 AM - 9:35 AM Pacific: Introductory remarks. Presenting Author: Shaohui Wu- The Ohio State University - Shaohui Wu
9:35 AM - 9:55 AM Pacific: Mycoinsecticides - Where are we? Where are we going?. Presenting Author: Stefan Jaronski- United States Department of Agriculture - Stefan Jaronski
9:55 AM - 10:15 AM Pacific: Agronomic and environmental drivers of entomopathogenic nematode performance in turfgrass pest management. Presenting Author: Matthew Brown- Rutgers University. Ming-Yi Chou- Dept. of Plant Biology, Rutgers University. Tarikul Islam- Dept. of Entomology, Rutgers University. Albrecht Koppenhfer- Rutgers University - Matthew Brown; Ming-Yi Chou; Tarikul Islam; Albrecht Koppenhfer
10:15 AM - 10:35 AM Pacific: Exploring new agricultural targets of symbiotic bacteria from entomopathogenic nematodes. Presenting Author: Juan Luis Jurat-Fuentes- University of Tennessee. Stefanie Menezes de Moura- University of Tennessee. Heba Abdelgaffar- Department of Entomology and Plant Pathology, University of Tennessee. David Shapiro-Ilan (he/him/his)- USDA-ARS. Shaohui Wu- The Ohio State University - Juan Luis Jurat-Fuentes; Stefanie Menezes de Moura; Heba Abdelgaffar; David Shapiro-Ilan (he/him/his); Shaohui Wu
10:35 AM - 10:55 AM Pacific: Impact of Nosema maddoxi and Colletotrichum fioriniae on brown marmorated stink bugs. Presenting Author: Ann Hajek- Cornell University. Carrie Preston- Oregon State University. Manana Kereselidze- Department of Integrated Plant Protection Research. Jennifer B. Gonzalez- Biology Department, Nazareth College. Gengping Zhu- Washington State University. Christopher Borkent- California Department of Food and Agriculture - Ann Hajek; Carrie Preston; Manana Kereselidze; Jennifer B. Gonzalez; Gengping Zhu; Christopher Borkent
10:55 AM - 11:05 AM Pacific: Break -
11:05 AM - 11:25 AM Pacific: Native entomopathogenic nematodes for agriculture insect pest management in Nebraska: Identity, phylogeny, persistence, and efficacy. Presenting Author: Pin-Chu Lai- University of Nebraska-Lincoln. Julie Peterson- University of Nebraska-Lincoln. Thomas Powers- UNL - Pin-Chu Lai; Julie Peterson; Thomas Powers
11:25 AM - 11:45 AM Pacific: Potential of bacterial bioactive compounds in pecan crop protection. Presenting Author: Shaohui Wu- The Ohio State University. Shane Moran (he/him/his)- The Ohio State University. David Shapiro-Ilan (he/him/his)- USDA-ARS. Charles L. Cantrell- USDA-ARS, Natural Products Utilization Research Unit. Jason Schmidt- University of Georgia. Mike Toews- University of Georgia. Clive H. Bock- USDA-ARS, US Horticultural Research Laboratory - Shaohui Wu; Shane Moran (he/him/his); David Shapiro-Ilan (he/him/his); Charles L. Cantrell; Jason Schmidt; Mike Toews; Clive H. Bock
11:45 AM - 12:05 PM Pacific: Biological control of Thrips parvispinus (Karny) (Thysanoptera: Thripidae) using commercially available entomopathogenic fungi. Presenting Author: Alexandra Revynthi- University of Florida. Livia M.S. Ataide (she/her/hers)- Tropical Research and Education Center, University of Florida. Yisell Velazquez-Hernandez- University of Florida. German Vargas- University of Florida. Marcello De Giosa- University of Florida. Isamar Sofia Reyes-Arauz (she/her/hers)- University of Florida. Paola Villamarin- University of Florida. Maria Canon- University of Florida. Terri Price- Indian River Research and Education Center, Institute of Food and Agricultural Sciences, University of Florida. Pasco B. Avery- University of Florida - Alexandra Revynthi; Livia M.S. Ataide (she/her/hers); Yisell Velazquez-Hernandez; German Vargas; Marcello De Giosa; Isamar Sofia Reyes-Arauz (she/her/hers); Paola Villamarin; Maria Canon; Terri Price; Pasco B. Avery
12:05 PM - 12:25 PM Pacific: Tree covers that exclude foliar pests alter the soil microbiome and reveal potential bacterial antagonists of diaprepes root weevil. Presenting Author: Larry Duncan- University of Florida. H. Regmi- USDA-ARS, U.S. Vegetable Laboratory. A. Dritsoulas- Agricultural University of Athens. Shokoofeh Kamali (she/her/hers)- University of Florida. Lukasz Stelinski- University of Florida. Lauren Diepenbrock- University of Florida - Larry Duncan; H. Regmi; A. Dritsoulas; Shokoofeh Kamali (she/her/hers); Lukasz Stelinski; Lauren Diepenbrock
12:25 PM - 12:30 PM Pacific: Closing remarks. Presenting Author: Shaohui Wu- The Ohio State University - Shaohui Wu

Title: Life in Wood: Advances in Cerambycidae and Buprestidae Research

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Patrick Gorring- Florida State Collection of Arthropods; DIEGO d S SOUZA- Field Museum
Categories: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Abstract: Wood-boring beetles are species-rich and are important decomposers in natural habitats. Speakers in this session will present on the evolution of these beetles, how factors like host-plants influence their life history, and how to find and identify different taxa. Expect to learn something new and see some beautiful beetles!
Tracks: Member Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems

Presentations:
9:30 AM - 9:48 AM Pacific: Exploring ecology using museum specimen sequencing in cerambycid beetles (Coleoptera: Cerambycidae). Presenting Author: Patrick Gorring- Florida State Collection of Arthropods - Patrick Gorring
9:48 AM - 10:06 AM Pacific: Wood trait preferences of Neotropical xylophagous beetles (Coleoptera: Cerambycidae). Presenting Author: Christina Torres- City University of New York. Hector Barrios- Univeristy of Panama, STRI. Sara Pinzon-Navarro- University of New Mexico. Amy Berkov (she/her/hers)- City College of New York - Christina Torres; Hector Barrios; Sara Pinzon-Navarro; Amy Berkov (she/her/hers)
10:06 AM - 10:24 AM Pacific: An illustrated key to the Buprestidae (Coleoptera) of eastern North America. Presenting Author: Kyle Schnepp- North Carolina State University - Kyle Schnepp
10:24 AM - 10:42 AM Pacific: Revision of the West Indies genus, Nesanoplium (Cerambycinae: Elaphidiini), with new species and an illustrated key. Presenting Author: Kenneth Geisert- North Carolina State University. Gareth Powell- North Carolina State University - Kenneth Geisert; Gareth Powell
10:42 AM - 10:57 AM Pacific: Break -
10:57 AM - 11:15 AM Pacific: Diversity and microhabitat specificity of saproxylic beetles in a Costa Rican rainforest. Presenting Author: Jhunior Morillo- City University of New York. Lin Li- City College of New York. Reinaldo Aguilar- Los Charcos de Osa. Amy Berkov (she/her/hers)- City College of New York - Jhunior Morillo; Lin Li; Reinaldo Aguilar; Amy Berkov (she/her/hers)
11:15 AM - 11:33 AM Pacific: Studies in the Nearctic non-anthophilous Acmaeoderini (Coleoptera: Buprestidae) reveal a shared morphological trait between two groups. Presenting Author: Joel DuBois- New Mexico State University. Nathan Lord- Lousiana State University - Joel DuBois; Nathan Lord
11:33 AM - 11:51 AM Pacific: State of knowledge of woodboring beetles (Buprestidae and Cerambycidae) in Colombia, with an emphasis on the Caribbean region. Presenting Author: Kimberly Paola Garcia Lopez- University of Georgia - Kimberly Paola Garcia Lopez
11:51 AM - 12:09 PM Pacific: Systematics and evolution of Cerambycidae: Advances, insights, and future directions. Presenting Author: DIEGO d S SOUZA- Field Museum - DIEGO d S SOUZA
12:09 PM - 12:30 PM Pacific: Discussion –

Title: So You Want to Do a Survey: How to Work with Social Scientists to Conduct Surveys, Interviews & More

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Katie Dentzman (she/her/hers)- Iowa State University; Jessica Goldberger, PhD- Washington State University; Derek Franklin- Iowa State University; Edem Avemegah, PhD- Washington State University; Zsofia Szendrei- Michigan State University
Categories: Workshop; Professional Development
Abstract: If you've ever thought about surveying or interviewing people for your research, but did not know where to start, this workshop is for you! Meet four rural sociologists involved in entomological research, bring a project for feedback, and learn best practices for collaboration and how to do social science research.
Tracks: Workshop; Professional Development

Title: Entomology Outreach on Parade! Bridging Institutions to Share Innovations in Student-Driven Outreach

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Rachel Leigh Johnson (she/her/hers)- Kansas State University; Chip Markwardt (they/them/theirs)- Kansas State University; Victoria Pickens (she/her/hers)- Kansas State University
Categories: Workshop; Professional Development; Student
Abstract: Attendees will explore how student entomology clubs form bridges between generations and local institutions to engage communities in outreach. The workshop will feature presentations highlighting club outreach activities, followed by hands-on activity demonstrations. Participants will also receive take-home materials to enable them to incorporate fresh ideas into their outreach toolbox.
Tracks: Workshop; Professional Development; Student

Title: 10-min: MUVE, Medical, Veterinary, and Forensic Entomology

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B114, OCC

Organizers:
Categories: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Tracks: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Presentations:
9:30 AM - 9:42 AM Pacific: Advancing the design of the kissing bug kill trap for surveillance of triatomines. Presenting Author: Yuexun Tian- Texas A&M University. Gabriel Hamer (he/him/his)- Texas A&M University - Yuexun Tian; Gabriel Hamer (he/him/his)
9:42 AM - 9:54 AM Pacific: Case studies in delusional parasitosis: How to manage issues as an entomologist. Presenting Author: Michael Goldman, BCE (he/him/his)- Environmental Resources Management - Michael Goldman, BCE (he/him/his)
9:54 AM - 10:06 AM Pacific: Enhanced detection of arthropod contaminants in food using targeted metagenomics. Presenting Author: Monica Pava-Ripoll (she/her/hers)- Center for Food Safety and Applied Nutrition. Padmini Ramachandran. Mark K. Mammel. Elizabeth Reed - Monica Pava-Ripoll (she/her/hers); Padmini Ramachandran; Mark K. Mammel; Elizabeth Reed
10:06 AM - 10:18 AM Pacific: Host associations of biting midges (Diptera: Ceratopogonidae: Culicoides) near sentinel chicken surveillance locations and their potential implications for Oropouche virus transmission and surveillance.. Presenting Author: Kristin Sloyer- University of Florida. Nathan Burkett-Cadena- University of Florida - Kristin Sloyer; Nathan Burkett-Cadena
10:18 AM - 10:30 AM Pacific: House fly metagenomics: A promising xenosurveillance tool for monitoring livestock and human health threats. Presenting Author: Dana Nayduch- USDA-ARS. Edward Bird- Kansas State University - Dana Nayduch; Edward Bird
10:30 AM - 10:42 AM Pacific: Physiology of the cat flea (Ctenocephalides felis) gut: Intestinal permeability, pH, and digestive enzymes. Presenting Author: Lisa D. Brown- Georgia Southern University. Piper Zellner- Georgia Southern University. Eric Njoroge- Georgia Southern University - Lisa D. Brown; Piper Zellner; Eric Njoroge
10:42 AM - 10:54 AM Pacific: Break -
10:54 AM - 11:06 AM Pacific: Reconsidering entomological surveillances of disease vectors in unstable conflict-affected settings: An insight from Sudan's ongoing war. Presenting Author: Rasha Siddig Azrag, PhD- State University of New York. Omama Fathelrahman Babiker- AlNeelain University. Marc S. Halfon- Jacobs School of Medicine and Biomedical Sciences - Rasha Siddig Azrag, PhD; Omama Fathelrahman Babiker; Marc S. Halfon
11:06 AM - 11:18 AM Pacific: Size matters: From insecticide susceptibility to AI-driven mosquito metrics. Presenting Author: Karthikeyan Chandrasegaran, PhD- University of California. Parikshit Kumar- University of California Riverside. Benjamin Nyman (he/him/his)- University of California. Amit Roy Chowdhury- Electrical and Computer Engineering, University of California Riverside - Karthikeyan Chandrasegaran, PhD; Parikshit Kumar; Benjamin Nyman (he/him/his); Amit Roy Chowdhury
11:18 AM - 11:30 AM Pacific: The role of native Aedes (Aedimorphus) vittatus in the epidemiology of Chikungunya virus in the newly invaded coastal island city of Mombasa, Kenya. Presenting Author: Joel Lutomiah- Kenya Medical Research Institute. Francis Mulwa- Kenya Medical Research Institute (KEMRI). James Mutisya- Kenya Medical Research Institute (KEMRI). Solomon Langat- Kenya Medical Research Institute (KEMRI). Betty Chelangat- Kenya Medical Research Institute (KEMRI). Victor Anyango- Texas Tech University. Edith Chepkorir- Kenya Medical Research Institute (KEMRI). Samson Konongoi- Kenya Medical Research Institute (KEMRI). Armanda Bastos- University of Pretoria. Rosemary Sang- Kenya Medical Research Institute (KEMRI) - Joel Lutomiah; Francis Mulwa; James Mutisya; Solomon Langat; Betty Chelangat; Victor Anyango; Edith Chepkorir; Samson Konongoi; Armanda Bastos; Rosemary Sang
11:30 AM - 11:42 AM Pacific: Virtual training, real-world impact: Developing the AMCA's free educational resources. Presenting Author: Jennifer R. Gordon, Ph.D., M.S. (she/her/hers)- Bug Lessons Consulting LLC - Jennifer R. Gordon, Ph.D., M.S. (she/her/hers)
11:42 AM - 11:54 AM Pacific: Urban development predicts human health and insect fitness. Presenting Author: Alexandria Abbott- University of Memphis. Pinar Kohlmeier- University of Memphis. Akassia Tickles- University of Memphis. Ashlee Yancey- University of Memphis. Karl Taylor- University of Memphis. Moriah Conley- University of Memphis. Lauryn Johnson- University of Memphis. Erenne Coats- University of Memphis. Philip Kohlmeier- University of Memphis - Alexandria Abbott; Pinar Kohlmeier; Akassia Tickles; Ashlee Yancey; Karl Taylor; Moriah Conley; Lauryn Johnson; Erenne Coats; Philip Kohlmeier
11:54 AM - 12:06 PM Pacific: Evaluating the efficacy of Bacillus thuringiensis israelensis (Bti) for control ofSimulium vittatum, a medically significant black fly species. Presenting Author: Sarah Sial- North Oconee High School. Elmer W. Gray- University of Georgia - Sarah Sial; Elmer W. Gray

Title: 10-min: SysEB, Genomic Frontiers

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, B113, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:
9:30 AM - 9:42 AM Pacific: Chromosome-level genome assemblies of Osmia cornifrons and Osmia taurus (Hymenoptera: Megachilidae), two introduced species in North America. Presenting Author: Stephania Sandoval Arango (she/her/hers)- USDA-ARS. Rena Schweizer- US Department of Agriculture, Agricultural Research Service. Michael Branstetter- USDA-ARS. Margarita Lopez-Uribe- Pennsylvania State University. Sheina Sim (she/her/hers)- USDA-ARS. Scott Geib (he/him/his)- USDA-ARS-PBARC. Jay Evans- USDA-ARS - Stephania Sandoval Arango (she/her/hers); Rena Schweizer; Michael Branstetter; Margarita Lopez-Uribe; Sheina Sim (she/her/hers); Scott Geib (he/him/his); Jay Evans
9:42 AM - 9:54 AM Pacific: From trees to genes: Tracking the invasive citrus pest, Nipaecoccus viridis(Hemiptera: Pseudococcidae), across Florida using genomic tools. Presenting Author: Tracy Liesenfelt (she/her/hers)- University of Florida. Erin Powell- Florida State Collection of Arthropods. Lauren Diepenbrock- University of Florida. Nicole Quinn- University of Florida. Andrew Mongue- University of Florida - Tracy Liesenfelt (she/her/hers); Erin Powell; Lauren Diepenbrock; Nicole Quinn; Andrew Mongue
9:54 AM - 10:06 AM Pacific: Genome sequence of the striped ambush bug, Phymata fasciata (Gray). Presenting Author: Ethan Eli Carman Grebler- University of Florida. Andrew Mongue- University of Florida - Ethan Eli Carman Grebler; Andrew Mongue
10:06 AM - 10:18 AM Pacific: Genome-wide SNPs identify a cryptic species and population genetic structure across Wallace's Line in the Paleotropical butterfly Euploea Mulciber (Nymphalidae: Danainae). Presenting Author: David J. Lohman- City University of New York. Renato Nunes (he/him/his)- City University of New York - David J. Lohman; Renato Nunes (he/him/his)
10:18 AM - 10:30 AM Pacific: Genomic evidence for mitonuclear coevolution and climate adaptation in bumblebees (Bombus). Presenting Author: Leonardo Tresoldi Gonalves- Federal University of Rio Grande do Sul. Pedro Henrique Pezzi- Federal University of Rio Grande do Sul. Marindia Depr- Federal University of Rio Grande do Sul. Elaine Franoso- Royal Holloway, University of London - Leonardo Tresoldi Gonalves; Pedro Henrique Pezzi; Marindia Depr; Elaine Franoso
10:30 AM - 10:42 AM Pacific: Interspecific relationships of Bilobata subsecivella (Lepidoptera: Gelechiidae): A nuclear DNA perspective. Presenting Author: Nokubekezela Makhosi Buthelezi, PhD- Cape Peninsula University of Technology. Desmond Conlong- Stellenbosch University. Godfrey Zharare- University of Zululand - Nokubekezela Makhosi Buthelezi, PhD; Desmond Conlong; Godfrey Zharare
10:42 AM - 10:54 AM Pacific: Population structure across genomic, environmental, and morphological axes in Synthemis eustalacta (Anisoptera: Synthemistidae). Presenting Author: Aaron M. Goodman- University of Illinois. Jessica L. Ware (she/her/hers)- American Museum of Natural History - Aaron M. Goodman; Jessica L. Ware (she/her/hers)
10:54 AM - 11:06 AM Pacific: Break -
11:06 AM - 11:18 AM Pacific: Population structure and genetic diversity of one of the smallest-ranged grass skipper butterflies in North America, the Mardon skipper (Polites mardon). Presenting Author: Cas Carroll- University of Nevada. Thomas Parchman- University of Nevada, Reno. Joshua Jahner- New Mexico Institue of Mining and Technology. Seth Romero- University of Nevada, Reno. Matthew Forister (he/him/his)- University of Nevada - Cas Carroll; Thomas Parchman; Joshua Jahner; Seth Romero; Matthew Forister (he/him/his)
11:18 AM - 11:30 AM Pacific: Re-evaluating species boundaries inOmus(Coleoptera: Cicindelidae) based on phylogenomics. Presenting Author: Ming-Hsun Chou (he/him/his)- Northern Arizona University. Grey Gustafson (he/him/his)- Northern Arizona University - Ming-Hsun Chou (he/him/his); Grey Gustafson (he/him/his)
11:30 AM - 11:42 AM Pacific: Sex and tissue specific gene expression across nutritional and temperature environments in a horn polyphenic dung beetle. Presenting Author: Sarah Elizabeth Britton, PhD (she/her/hers)- University of California. Patrick Rohner- University of California, San Diego - Sarah Elizabeth Britton, PhD (she/her/hers); Patrick Rohner
11:42 AM - 11:54 AM Pacific: The complex gene evolution of sericins, a group of lepidopteran silk fiber coating proteins. Presenting Author: Bert Foquet- University of Florida. Akito Y. Kawahara, Ph.D.- Florida Museum of Natural History - Bert Foquet; Akito Y. Kawahara, Ph.D.
11:54 AM - 12:06 PM Pacific: The genomic basis of ant association in lycaenid butterflies. Presenting Author: Trey Scott- Harvard University. Naomi Pierce- Harvard University - Trey Scott; Naomi Pierce

12:06 PM - 12:18 PM Pacific: Uncovering thousands of horizontal gene transfer events within single cockroach genomes. Presenting Author: Nate Lo- University of Sydney - Nate Lo
12:18 PM - 12:30 PM Pacific: Phylogeny of mayflies (Ephemeroptera): A new classification system. Presenting Author: Heath Ogden- Utah Valley University - Heath Ogden

Title: 10-min: MUVE, Mosquito Biology and Ecology

Time: **9:30 AM - 12:30** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers:
Categories: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Tracks: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Presentations:
9:30 AM - 9:42 AM Pacific: Assessing the fitness of genetically engineered mosquitoes: Susceptibility to predation. Presenting Author: Claire M. Egan- University of California. Hester Weaving- University of California, Davis. Danspaid P. Mabuka- University of California, Davis. Brian Leetakubuulidde- University of California, Davis. Ivan Mugeni- University of California, Davis. Gregory C. Lanzaro- University of California, Davis - Claire M. Egan; Hester Weaving; Danspaid P. Mabuka; Brian Leetakubuulidde; Ivan Mugeni; Gregory C. Lanzaro
9:42 AM - 9:54 AM Pacific: Controphic control: Freshwater microcrustaceans discourage mosquito oviposition. Presenting Author: Ann Rose Dunn (she/her/hers)- Florida Museum of Natural History - Ann Rose Dunn (she/her/hers)
9:54 AM - 10:06 AM Pacific: Differences in temperature mean and regime representative of socioeconomically diverse urban blocks affect Aedes albopictus and Culex pipiens (Diptera: Culicidae) mosquitoes. Presenting Author: Sarah E. Rothman (she/her/hers)- University of Maryland. Shannon L. LaDeau- Cary Institute of Ecosystem Studies. Paul Leisnham- University of Maryland - Sarah E. Rothman (she/her/hers); Shannon L. LaDeau; Paul Leisnham
10:06 AM - 10:18 AM Pacific: Fantastic feasts and where to find them: Plant preference among mosquitoes of the Greater Salt Lake area. Presenting Author: Christopher Stephen Bibbs- Salt Lake City Mosquito Abatement District. Thomas Widmer, BSc- Salt Lake City Mosquito Abatement District. Ella Branham- University of Southern Mississippi. Nathaniel Byers, PhD- Salt Lake City Mosquito Abatement District. Ary Faraji, BCE (he/him/his)- Salt Lake City Mosquito Abatement District - Christopher Stephen Bibbs; Thomas Widmer, BSc; Ella Branham; Nathaniel Byers, PhD; Ary Faraji, BCE (he/him/his)
10:18 AM - 10:30 AM Pacific: Fatal attraction: Exploring the interaction between Aedes japonicus mosquitoes and the fly poison plant. Presenting Author: Chloe Lahondere- Virginia Polytechnic Institute and State University - Chloe Lahondere
10:30 AM - 10:42 AM Pacific: Indoor vs. outdoor habitat of Aedes aegypti and Aedes albopictus: A meta-analysis. Presenting Author: Ubydul Haque- Rutgers University. Moeen Hamid Bukhari- Quad-i-Azam University - Ubydul Haque; Moeen Hamid Bukhari
10:42 AM - 10:54 AM Pacific: Break -
10:54 AM - 11:06 AM Pacific: Land use type and locality characterize the diversity and composition of midgut microbiota ofAedes albopictus. Presenting Author: Chang-Hyun Kim- Illinois Natural History Survey. Megan Cooper- Eastern Illinois University. Arif Ciloglu (he/him/his)- Erciyes University. Antony Oluoch- Eastern Illinois University. Kylee Noel (she/her/hers)- University of Illinois. Jiayue (Gabriel) Yan (he/him/his)- University of Illinois. Andrew Mackay- Illinois Natural History Survey. Chris Stone- Illinois Natural History Survey. Thomas Canam- Eastern Illinois University - Chang-Hyun Kim; Megan Cooper; Arif Ciloglu (he/him/his); Antony Oluoch; Kylee Noel (she/her/hers); Jiayue (Gabriel) Yan (he/him/his); Andrew Mackay; Chris Stone; Thomas Canam
11:06 AM - 11:18 AM Pacific: Modulation of mosquitoes' responses to visual threats. Presenting Author: Martin Dessart, PhD- Virginia Polytechnic Institute and State University. Lily Smith- Virginia Tech. Nicole Wynne- Virginia Tech. Karthikeyan Chandrasegaran, PhD- University of California. Clement Vinauger- Virginia Polytechnic Institute and State University - Martin Dessart, PhD; Lily Smith; Nicole Wynne; Karthikeyan Chandrasegaran, PhD; Clement Vinauger
11:18 AM - 11:30 AM Pacific: And stay out: Testing how competitive interactions may shape the distribution of Aedes in the Caribbean. Presenting Author: Donald A. Yee (he/him/his)- University of Southern Mississippi. Cassandra Urquhart- University of Southern Mississippi. Anna Elizabeth Wynne- University of Southern Mississippi. Kelly James- University of Southern Mississippi. Ella Branham- University of Southern Mississippi. Barry Alto- Florida Medical Entomology Laboratory - Donald A. Yee (he/him/his); Cassandra Urquhart; Anna Elizabeth Wynne; Kelly James; Ella Branham; Barry Alto
11:30 AM - 11:42 AM Pacific: Reptile rumpus: Invasive lizard-mediated risk of mosquito-borne virus transmission. Presenting Author: Nathan Burkett-Cadena- University of Florida. Lawrence Reeves, PhD University of Florida.

Miles McCollum- University of Florida. Eric Suarez- University of Florida. Melissa Miller- California Department of Fish and Wildlife. Maria Ojeda- University of Florida - Nathan Burkett-Cadena; Lawrence Reeves, PhD; Miles McCollum; Eric Suarez; Melissa Miller; Maria Ojeda
11:42 AM - 11:54 AM Pacific: Size-mediated activity and fecundity impacts of irradiation for sterile insect technique in Aedes aegypti. Presenting Author: Benjamin Nyman (he/him/his)- University of California. Karthikeyan Chandrasegaran, PhD- University of California. Solomon Birhanie- West Valley Mosquito and Vector Control - Benjamin Nyman (he/him/his); Karthikeyan Chandrasegaran, PhD; Solomon Birhanie
11:54 AM - 12:06 PM Pacific: The mosquito microbiome responds to dietary shifts in adult female Aedes aegypti. Presenting Author: Daniel Perez-Ramos, PhD (he/him/his)- University of Florida. Alexandra Bauer- University of Florida. Leena Salama- University of Florida. Eric Caragata, PhD- The University of Florida - Daniel Perez-Ramos, PhD (he/him/his); Alexandra Bauer; Leena Salama; Eric Caragata, PhD
12:06 PM - 12:18 PM Pacific: Understanding and targeting the taste system of mosquitoes. Presenting Author: Lisa Baik- University of California - Lisa Baik

Title: NE 2443 Multistate Meeting: Biology, Ecology, and Management of Emerging Disease Vectors

Time: **9:30 AM - 1:30** PM Pacific
Location: Oregon Convention Center, A106, OCC
Organizers: Kristopher Silver (he/him/his)- Kansas State University
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Past Presidents' Brunch

Time: **10:00 AM - 11:00 AM** Pacific
Location: Hyatt Regency Portland, Columbia 3, Hyatt
Organizers: Rosina Romano, CMP, DES- Entomological Society of America; Chris Stelzig, CAE- Entomological Society of America
Categories: Meetings & Events
Tracks: Meetings & Events

Title: Tour: Willamette Valley: Insiders Tasting Experience

Time: **11:00 AM - 4:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: Experience the enchanting allure of the Willamette Valley on an afternoon winery tour, where the golden hues of midday illuminate the sprawling vineyards. Journey through two esteemed wineries, Rex Hill Winery, and Ponzi Vineyards, savoring the rich aromas and flavors of their finest vintages. Immerse yourself in the picturesque landscapes and indulge in exquisite wines, creating memories framed by the breathtaking beauty of Oregon's wine country. Cost: $250 per person (minimum number of participants: 4)
Tracks: Meetings & Events

Title: MUVE Final Business Meeting

Time: **12:00 PM - 1:30** PM Pacific
Location: Oregon Convention Center, B115, OCC
Organizers: Alexander Ko, PhD- Envu
Categories: Meetings & Events; Medical, Urban, and Veterinary Entomology
Tracks: Meetings & Events; Medical, Urban, and Veterinary Entomology

Title: P-IE Member Feedback Lunch

Time: **12:00 PM - 1:30** PM Pacific
Location: Oregon Convention Center, C124, OCC
Organizers: Anjel M. Helms- Texas A&M University; Lauren Diepenbrock- University of Florida
Categories: Meetings & Events; Plant-Insect Ecosystems
Tracks: Meetings & Events; Plant-Insect Ecosystems

Title: Training Educators to Support Endangered Species Act Compliance
Time: **1:00 PM - 2:00** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Thomas Assefa Jima- Oregon State University; Silvia I. Rondon (she/her/hers)- Oregon State University
Categories: Mini Workshop; Professional Development; Science Policy
Abstract: Learn how to make sense of Endangered Species Act label rules in this hands-on two-hour workshop. You will get practical tips on using EPA's Bulletins Live! Two (BLT) systems, spotting key label info, and choosing the right mitigation steps - perfect for educators looking to simplify compliance and boost confidence.
Tracks: Mini Workshop; Professional Development; Science Policy

Title: Entomology 2026 Program Committee Meeting
Time: **1:30 PM - 2:30** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America; Rosina Romano, CMP, DES- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Solidari-flea: Labor Unions and Entomology
Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, C123, OCC
Organizers: Tiffany Pan (they/them/theirs)- University of Calgary; Max Ragozzino- Oregon Department of Agriculture; Thomas Sheehan (he/him/his)- University of Georgia
Categories: Member Symposium
Abstract: Whether you are an active union member, sympathetic to unions, or even agnostic to unions, you have benefitted from organized labor. This symposium will discuss the role of labor unions from speakers active in their unions at the state government, academic faculty, and graduate student worker level.
Tracks: Member Symposium
Presentations:
1:30 PM - 1:45 PM Pacific: What is a labor union?. Presenting Author: Thomas Sheehan (he/him/his)- University of Georgia - Thomas Sheehan (he/him/his)
1:45 PM - 2:00 PM Pacific: The power of graduate unions and solidarity. Presenting Author: Tiffany Pan (they/them/theirs)- University of Calgary - Tiffany Pan (they/them/theirs)
2:00 PM - 2:15 PM Pacific: Postdocs, instructors, researchers, and professors - All workers need unions!. Presenting Author: Louisa Hooven- Oregon State University - Louisa Hooven
2:15 PM - 2:30 PM Pacific: Organizing field staff. Presenting Author: Francesca Edmonds- SEIU Local 503. Max Ragozzino- Oregon Department of Agriculture - Francesca Edmonds; Max Ragozzino
2:30 PM - 3:30 PM Pacific: Panel discussion -

Title: Understanding Drivers of Insect Biodiversity Loss Through Synthesis
Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, B113, OCC
Organizers: Eliza Grames (she/her/hers)- Binghamton University; Joseph Millard- Cambridge University; Christopher Halsch- Binghamton University; Chris Elphick, PhD- University of Connecticut
Categories: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Abstract: Understanding the relative importance of stressors contributing to insect declines, and how impacts vary with taxa and region, is only possible through synthesis. This session will summarize the state of insect decline synthesis, report meta-analysis findings on key drivers, and provide a roadmap for future syntheses on drivers of decline.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Eliza Grames (she/her/hers)- Binghamton University - Eliza Grames (she/her/hers)
1:35 PM - 1:55 PM Pacific: What do we know about insect responses to global change? The current state of meta-analyses evaluating global change impacts on insects. Presenting Author: Mayra Vidal- University of Massachusetts. Mariana Abarca (she/her/hers)- Smith College. Kristi Backe- Oregon State University. Anne Cure-

Syracuse University. Deborah Finke- University of Missouri. Amanda Koltz- University of Texas at Austin. Alycia Lackey- University of Louisville. Christina Mitchell- Institute for Applied Ecology. Rebecca Prather- Florida State University. Ellen Welti (she/her/hers)- Smithsonian Institute. Gina M. Wimp- Georgetown University. Shannon M. Murphy (she/her/hers)- University of Denver - Mayra Vidal; Mariana Abarca (she/her/hers); Kristi Backe; Anne Cure; Deborah Finke; Amanda Koltz; Alycia Lackey; Christina Mitchell; Rebecca Prather; Ellen Welti (she/her/hers); Gina M. Wimp; Shannon M. Murphy (she/her/hers)
1:55 PM - 2:05 PM Pacific: Alien vs insect: Meta-analysis reveals negative but variable impacts of invasive alien species on insects. Presenting Author: Grace Skinner- UK Centre for Ecology & Hydrology - Grace Skinner
2:05 PM - 2:10 PM Pacific: Break -
2:10 PM - 2:25 PM Pacific: Using meta-analysis to assess insect responses to habitat fragmentation and urbanization: A retrospective. Presenting Author: Holly M. Martinson- McDaniel College - Holly M. Martinson
2:25 PM - 2:40 PM Pacific: A multi-threat meta-analytic framework and database for understanding insect biodiversity change. Presenting Author: Joseph Millard- Cambridge University - Joseph Millard
2:40 PM - 3:20 PM Pacific: Panel discussion Panelist: Christopher Halsch- Binghamton University Panelist: Anna Eichert- American Museum of Natural History Panelist: Elias H. Bloom- Cornell University Panelist: Gyanpriya Maharaj- University of Guyana Panelist: Nadya Muchoney- Emory University -
3:20 PM - 3:30 PM Pacific: Closing remarks. Presenting Author: Eliza Grames (she/her/hers)- Binghamton University - Eliza Grames (she/her/hers)

Title: 10-min: P-IE, Vectors of Plant Disease

Time: **1:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, D137-138, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:42 PM Pacific: Corn leafhopper IPM in maize: A case study from Brazil and implications for emerging corn stunt in Alabama, USA. Presenting Author: Eder M. Carrilho- State University of Londrina. Paulo G. Cremonez (he/him/his)- Auburn University. Edward J. Sikora- Auburn University. Mauricio U. Ventura- State University of Londrina. Joao R. S. Lopes- University of Sao Paulo. Nathalie K. P. Maluta- University of Sao Paulo - Eder M. Carrilho; Paulo G. Cremonez (he/him/his); Edward J. Sikora; Mauricio U. Ventura; Joao R. S. Lopes; Nathalie K. P. Maluta
1:42 PM - 1:54 PM Pacific: Curbing the threat of HLB in Texas through sustainable management of Asian citrus psyllid. Presenting Author: Tolulope Agunbiade (she/her/hers)- Texas A&M University. Mamoudou Setamou- Texas A&M University-Kingsville Citrus Center - Tolulope Agunbiade (she/her/hers); Mamoudou Setamou
1:54 PM - 2:06 PM Pacific: Distinct viromes of thrips vectors: Comparing Neohydato thrips variabilis and Franklinella fusca. Presenting Author: Kathleen Marie Martin- Auburn University. Aasma Sharma- Auburn University. Alana Jacobson- Auburn University. Scott Graham- Auburn University - Kathleen Marie Martin; Aasma Sharma; Alana Jacobson; Scott Graham
2:06 PM - 2:18 PM Pacific: Evaluating the effects of thermal stress on the symbiont-mediated transmission of Serratia ureilyticain Anasa tristis. Presenting Author: Patrick Thomas Stillson (he/him/his)- Emory University. Nicole Gerardo- Emory University - Patrick Thomas Stillson (he/him/his); Nicole Gerardo
2:18 PM - 2:30 PM Pacific: How might beet leafhopper host plant preference mediate phytopathogen transmission risks?. Presenting Author: Gina Marie Angelella- USDA-ARS. Joanna Galindo-Schuller- USDA-ARS Temperate Tree Fruit and Vegetable Research Unit - Gina Marie Angelella; Joanna Galindo-Schuller
2:30 PM - 2:42 PM Pacific: Identification and validation of putative TSWV receptors in the gut of the supervector Frankliniella occidentalis. Presenting Author: Rahul Mohan Singh- Texas A&M University. Arinder Arora- Texas A&M University. Kiran Gadhave- Texas A&M University - Rahul Mohan Singh; Arinder Arora; Kiran Gadhave
2:42 PM - 2:54 PM Pacific: Independent-mobile RNA silences key genes of the supervector Frankliniella occidentalis. Presenting Author: Surender Kumar- Texas A&M University. Arinder Arora- Texas A&M University. Kiran Gadhave- Texas A&M University - Surender Kumar; Arinder Arora; Kiran Gadhave
2:54 PM - 3:06 PM Pacific: Interactions between ambrosia beetles, their associated microorganisms, and the causal agent of the Dutch elm disease. Presenting Author: Juan Carlos Cambronero-Heinrichs- University of Padova. Alessia Lucia Pepori- National Research Council, Institute for Sustainable Plant Protection (CNR-IPSP). Giacomo Santoiemma (he/him/his)- Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova. Alberto Santini- National Research Council, Institute for Sustainable Plant Protection (CNR-IPSP). Francesco Pecori- National Research Council, Institute for Sustainable Plant Protection (CNR-IPSP). Davide Rassati (he/him/his)- Department of Agronomy, Food, Natural Resources,

Animals and Environment (DAFNAE) - Juan Carlos Cambronero-Heinrichs; Alessia Lucia Pepori; Giacomo Santoiemma (he/him/his); Alberto Santini; Francesco Pecori; Davide Rassati (he/him/his)
3:06 PM - 3:18 PM Pacific: Resistant-breaking and wild type strains of TSWV differentially up-regulate an immunosuppressive EpOME signal of the insect vector, Frankliniella occidentalis, to suppress the antiviral response. Presenting Author: Yong Gyun Kim (he/him/his)- Andong National University. Niayesh Shahmohammadi- Andong National University - Yong Gyun Kim (he/him/his); Niayesh Shahmohammadi
3:18 PM - 3:30 PM Pacific: Quantifying ecosystem services with a foraging biology lens: Floral resources interact with pollinator communities to mediate the pollination service cascade. Presenting Author: Shalene Jha (she/her/hers)- University of Texas. Elena Tran- University of Texas at Austin. Monika Egerer- Technical University of Munich. Hamutahl Cohen- University of California. Heidi Liere- Lewis and Clark College. Azucena Lucatero- University of California Santa Cruz. Peter Bichier- University of California, Santa Cruz. Brenda Lin- CSIRO. Stacy Philpott- University of California - Shalene Jha (she/her/hers); Elena Tran; Monika Egerer; Hamutahl Cohen; Heidi Liere; Azucena Lucatero; Peter Bichier; Brenda Lin; Stacy Philpott

Title: Innovations in IPM: Celebrating the Legacy of Bill Hutchison

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, D139-140, OCC
Organizers: Erin W. Hodgson (she/her/hers)- Iowa State University; Robert L. Koch (he/him/his)- University of Minnesota
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: This symposium honors Dr. William (Bill) Hutchison, one of the most productive entomologists to work in the area of plant-insect ecosystems. This session will feature current research and extension work from some of Bill's successful mentees and collaborators. The symposium will include presenters from different stages in Bill's career.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:45 PM Pacific: Expanding the boundaries of IPM: Some observations on the multi-faceted career of Dr. Bill Hutchison. Presenting Author: Steve Naranjo- USDA-ARS - Steve Naranjo
1:45 PM - 2:00 PM Pacific: Mitigating invasive plant pest movement: A career of innovation and adventures with Plant Protection and Quarantine. Presenting Author: David Bartels- USDA-APHIS - David Bartels
2:00 PM - 2:15 PM Pacific: Bill-ing a future of Bt success through Hutchison's impact on efficacy and resistance management. Presenting Author: Dominic Reisig- North Carolina State University - Dominic Reisig
2:15 PM - 2:30 PM Pacific: The importance of nutritional ecology in IPM. Presenting Author: Carrie Deans- University of Alabama - Carrie Deans
2:30 PM - 2:50 PM Pacific: Break -
2:50 PM - 3:05 PM Pacific: Responding to new pest challenges as an extension entomologist. Presenting Author: Robert L. Koch (he/him/his)- University of Minnesota - Robert L. Koch (he/him/his)
3:05 PM - 3:20 PM Pacific: The art of happiness while doing research: Lessons from Dr. Hutchison. Presenting Author: Silvana Paula-Moraes- West Florida Research and Education Center - Silvana Paula-Moraes
3:20 PM - 3:35 PM Pacific: Pesticide-treated seeds, water quality, and integrated pest management. Presenting Author: Theresa Cira- Minnesota Department of Agriculture - Theresa Cira
3:35 PM - 3:50 PM Pacific: The integrated approach: Recognizing the importance of monitoring and phenology in pest management. Presenting Author: Dominique Ebbenga- Valent Biosciences - Dominique Ebbenga
3:50 PM - 4:10 PM Pacific: Symposium conclusions. Presenting Author: William Hutchison- University of Minnesota - William Hutchison

Title: Advancing Careers, Fostering Community, and Celebrating Contribution

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 254, OCC
Organizers: Barbara Amoah (she/her/hers)- Eva Garland Consulting, LLC
Categories: Member Symposium; Early Career; Professional Development; Student
Abstract: We expect attendees to experience an informative session where seasoned experts and emerging talents unite to ignite passion for entomology. Attendees will gain cutting-edge research insights, valuable mentorship, and networking opportunities that span generations, and walk away with fresh ideas, practical strategies, and lasting connections to fuel their professional journey.
Tracks: Member Symposium; Early Career; Professional Development; Student

Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Barbara Amoah (she/her/hers)- Eva Garland Consulting, LLC - Barbara Amoah (she/her/hers)
1:35 PM - 1:55 PM Pacific: The state of Ghana's dengue fever surveillance: A mixed-methods study. Presenting Author: Esther Annan- Princeton University. Aham Okorozo- Albert Einstein College of Medicine-Montefiore Medical Center. Yaw Asare Afrane- University of Ghana. Joseph Bonney- Noguchi Memorial Institute for Medical Research. Emmanuel Parbie Abbeyquaye- Military Hospital. Judith Dzifa Azumah- University of Ghana Medical School - Esther Annan; Aham Okorozo; Yaw Asare Afrane; Joseph Bonney; Emmanuel Parbie Abbeyquaye; Judith Dzifa Azumah
1:55 PM - 2:15 PM Pacific: Navigating academic excellence: My journey across continents. Presenting Author: Joseph Amoah- University of Sydney - Joseph Amoah
2:15 PM - 2:35 PM Pacific: Public trust building in forest health. Presenting Author: Sara Lalk- Clemson University - Sara Lalk
2:35 PM - 2:45 PM Pacific: Break -
2:45 PM - 3:05 PM Pacific: Assessing the impact of insect pests on yield performance of cowpea (Vigna unguiculata) varieties. Presenting Author: Joshua Baffoe-Ansah- University of Ghana. Silas Avicor- Cocoa Research Institute. Thomas Buxton- University of Ghana, Legon. Ebenezer Owusu- University of Ghana, Legon - Joshua Baffoe-Ansah; Silas Avicor; Thomas Buxton; Ebenezer Owusu
3:05 PM - 3:25 PM Pacific: Exploring diverse opportunities: Funding science and innovation at every stage. Presenting Author: Barbara Amoah (she/her/hers)- Eva Garland Consulting, LLC - Barbara Amoah (she/her/hers)
3:25 PM - 3:45 PM Pacific: Harnessing indigenous Ghanaian plants for postharvest grain protection. Presenting Author: Rebecca Tetteh- University of Ghana. Thomas Buxton- University of Ghana, Legon. Dorcas Osei-Safo- University of Ghana. Clinton Gyabeng- University of Ghana. Ebenezer Oduro Owusu- University of Ghana - Rebecca Tetteh; Thomas Buxton; Dorcas Osei-Safo; Clinton Gyabeng; Ebenezer Oduro Owusu
3:45 PM - 3:55 PM Pacific: Break and poster session -
3:45 PM - 3:55 PM Pacific: Drawing the line in gender blind land restoration: Case studies from the savanna parklands of Ghana and Burkina Faso. Presenting Author: Gloria Kukurije Adeyiga- Council for Scientific and Industrial Research. Tim Pagella- University of Bangor. Emilie Smith Dumont- Freelance Consultant. Katrine Turner- Freelance Consultant. Adama Kekele- CIFOR-ICRAF. Peter Cronkelton- CIFOR-ICRAF. Sabine Nadembega- Laval University - Gloria Kukurije Adeyiga; Tim Pagella; Emilie Smith Dumont; Katrine Turner; Adama Kekele; Peter Cronkelton; Sabine Nadembega
3:55 PM - 4:15 PM Pacific: Panel discussion -
4:15 PM - 4:20 PM Pacific: Closing remarks. Presenting Author: Barbara Amoah (she/her/hers)- Eva Garland Consulting, LLC - Barbara Amoah (she/her/hers)

Title: Forensic Entomology Beyond the Crime Scene: Using Arthropods as Environmental Detectives

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, C120-122, OCC
Organizers: Charity Grace Owings (she/her/hers)- University of Tennessee; Heo Chong Chin- Universiti Teknologi; Christine J Picard- Indiana University; Michael Monzon- Purdue University; Samantha Sawyer- University of New Haven; Krystal Hans- Purdue University
Categories: Member Symposium; Medical, Urban, and Veterinary Entomology; Systematics, Evolution, and Biodiversity
Abstract: Environmental Forensic Entomology is an emerging and cross-cutting discipline that investigates the use of carrion arthropods as environmental sentinels. This symposium aims to gather a diverse and international group of researchers working in this area to highlight innovative research and applied methods.
Tracks: Member Symposium; Medical, Urban, and Veterinary Entomology; Systematics, Evolution, and Biodiversity
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Charity Grace Owings (she/her/hers)- University of Tennessee - Charity Grace Owings (she/her/hers)
1:35 PM - 1:47 PM Pacific: From fly gut to global insight: Unlocking the hidden data in blow fly digestive systems. Presenting Author: Christine J Picard- Indiana University - Christine J Picard
1:47 PM - 1:59 PM Pacific: Flies as vectors of disease: Advanced pathogen detection in environmental forensics in Malaysia. Presenting Author: Heo Chong Chin- Universiti Teknologi. Moriah Jackson- Universiti Teknologi MARA. Isaac Seow- University of Nottingham Malaysia. Zhen Yun Siew- University of Nottingham Malaysia. Kenny Voon- University of Nottingham Malaysia. Navindra Palanisamy- Universiti Teknologi MARA. Sara

Contente- Uniformed Services University of Health Sciences. Razuin Rahimi- Universiti Teknologi MARA - Heo Chong Chin; Moriah Jackson; Isaac Seow; Zhen Yun Siew; Kenny Voon; Navindra Palanisamy; Sara Contente; Razuin Rahimi
1:59 PM - 2:11 PM Pacific: Insect evidence to locate missing persons and aid in unresolved homicide investigations. Presenting Author: Krystal Hans- Purdue University - Krystal Hans
2:11 PM - 2:23 PM Pacific: Fly on the wall: Using blow flies (Diptera: Calliphoridae) as biological monitors of wildlife pathogens. Presenting Author: Makhali S. Voss (she/her/hers)- University of Tennessee. Richard Gerhold, DVM, MS, PhD, DACVM (Parasitology)- University of Tennessee. Charity Grace Owings (she/her/hers)- University of Tennessee - Makhali S. Voss (she/her/hers); Richard Gerhold, DVM, MS, PhD, DACVM (Parasitology); Charity Grace Owings (she/her/hers)
2:23 PM - 2:35 PM Pacific: Assessing the potential use of blow fly sampling in xenosurveillance of pathogens in the environment. Presenting Author: Abigail Orr- Texas A&M University - Abigail Orr
2:35 PM - 2:40 PM Pacific: Break -
2:40 PM - 2:52 PM Pacific: Using necrophagous flies to monitor zoonotic pathogen movement between wildlife and livestock. Presenting Author: Samantha Sawyer- University of New Haven - Samantha Sawyer
2:52 PM - 3:04 PM Pacific: Red imported fire ants (Solenopsis invicta) as potential indicators for locating clandestine graves. Presenting Author: Tammy Lee Bouldin (she/her/hers)- Texas A&M University. Nadya Kandel- Texas A&M University. Aaron Tarone- Texas A&M University. Micky Eubanks- Colorado State University. Robert Puckett- Texas A&M University. Edward Vargo- Texas A&M University - Tammy Lee Bouldin (she/her/hers); Nadya Kandel; Aaron Tarone; Micky Eubanks; Robert Puckett; Edward Vargo
3:04 PM - 3:16 PM Pacific: What flies eat and excrete: Insights from puke, poop, and gut contents of blow flies for wildlife and forensic applications. Presenting Author: Lauren M. Weidner (she/her/hers)- Arizona State University. Bailey Jannuzzi- Utah Valley University. Andrew Meeds- Arizona State University. Carl E. Hjelmen- Utah Valley University - Lauren M. Weidner (she/her/hers); Bailey Jannuzzi; Andrew Meeds; Carl E. Hjelmen
3:16 PM - 3:28 PM Pacific: The mechanical vector ecology of blow flies under field and laboratory conditions. Presenting Author: Michael Monzon- Purdue University - Michael Monzon
3:28 PM - 3:40 PM Pacific: Livestock forensics: Utilizing stable fly microbiome profiles as investigative tools and to monitor agricultural health. Presenting Author: Lauren Beebe- Texas A&M University. Abigail Orr- Texas A&M University. Phillip Kaufman, PhD (he/him/his)- Texas A&M University - Lauren Beebe; Abigail Orr; Phillip Kaufman, PhD (he/him/his)
3:40 PM - 3:52 PM Pacific: Ethical considerations for implementing environmental forensic entomology methods in casework. Presenting Author: Charity Grace Owings (she/her/hers)- University of Tennessee - Charity Grace Owings (she/her/hers)
3:52 PM - 3:57 PM Pacific: Break -
3:57 PM - 4:30 PM Pacific: Panel discussion –

Title: European Foulbrood: New Perspectives on a Changing Honey Bee Brood Disease

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, E146, OCC
Organizers: Andony Melathopoulos- Oregon State University; Priya Chakrabarti Basu (she/her/hers)- Washington State University; Ryan Kuesel- Washington State University; Ramesh Sagili (he/him/his)- Oregon State University; Meghan Milbrath- Michigan State University
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: European foulbood (EFB) disease is one of the oldest and least understood disease of honey bees in the U.S. The symposium considers recent research to better resolves the etiology of EFB, to understand why the incidence and severity is increasing, and how to best intervene in the disease cycle.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Andony Melathopoulos- Oregon State University - Andony Melathopoulos
1:35 PM - 1:52 PM Pacific: Unraveling European foulbrood: Preliminary insights from a longitudinal study. Presenting Author: Ramesh Sagili (he/him/his)- Oregon State University. Andony Melathopoulos- Oregon State University - Ramesh Sagili (he/him/his); Andony Melathopoulos
1:52 PM - 2:09 PM Pacific: Impacts of blueberry pollination on European foulbrood incidence and honey bee colony health. Presenting Author: Ryan Kuesel- Washington State University. Brandon Hopkins- Washington State University. Taydin Macon- Washington State University - Ryan Kuesel; Brandon Hopkins; Taydin Macon

2:09 PM - 2:26 PM Pacific: Understanding the European foulbrood diseases epidemiology in honey bee larvae. Presenting Author: Priya Chakrabarti Basu (she/her/hers)- Washington State University - Priya Chakrabarti Basu (she/her/hers)
2:26 PM - 2:43 PM Pacific: Quantifying Melissococcus plutonius in honey bee larvae to investigate spatiotemporal patterns of European foulbrood disease. Presenting Author: Tori Schummer- Oregon State University. Maud David- Oregon State University. Isabella Risser- Oregon State University - Tori Schummer; Maud David; Isabella Risser
2:43 PM - 2:58 PM Pacific: Break -
2:58 PM - 3:15 PM Pacific: Antimicrobial control of European foulbrood disease in western Canada. Presenting Author: Sarah Wood- Western College of Veterinary Medicine. Midhun Jose- University of Saskatchewan. Thanuri Edirithilake- University of Saskatchewan. Yashoda Wickramasinghe- University of Saskatchewan. Oleksii Obshta- University of Saskatchewan. Julia Tregobov- University of Saskatchewan. Marina Bezerra Da Silva- University of Saskatchewan. Emilio Tellarini Prieto- University of Saskatchewan. Serhii Kondratiuk- University of Saskatchewan. Marcelo Camilli- University of Saskatchewan. Alvaro De La Mora- University of Saskatchewan. Rosephine Enadeghe- University of Saskatechewan. Belarmino Neto- University of Saskatchewan. Igor Moshynskyy- University of Saskatechewan. Ryan Merkl- University of Saskatchewan. Elemir Simko- University of Saskatchewan - Sarah Wood; Midhun Jose; Thanuri Edirithilake; Yashoda Wickramasinghe; Oleksii Obshta; Julia Tregobov; Marina Bezerra Da Silva; Emilio Tellarini Prieto; Serhii Kondratiuk; Marcelo Camilli; Alvaro De La Mora; Rosephine Enadeghe; Belarmino Neto; Igor Moshynskyy; Ryan Merkl; Elemir Simko
3:15 PM - 3:32 PM Pacific: Probiotics as a possible EFB management tool. Presenting Author: Elina Nino- University of California. Brendan Daisley- Uniiversity of Guelph. Maud David- Oregon State University - Elina Nino; Brendan Daisley; Maud David
3:32 PM - 3:49 PM Pacific: Estimating the economic value of EFB treatment using mathematical optimization. Presenting Author: Logan McGlamery- Oregon State University - Logan McGlamery
3:49 PM - 4:06 PM Pacific: Topics in European foulbrood. Presenting Author: Peter Fowler- Michigan State University. Meghan Milbrath- Michigan State University - Peter Fowler; Meghan Milbrath
4:06 PM - 4:11 PM Pacific: Closing remarks. Presenting Author: Andony Melathopoulos- Oregon State University - Andony Melathopoulos

Title: Innovative Research and Development of Insect Repellents

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, B116, OCC
Organizers: Mustapha Debboun, BCE-Emeritus- Baylor College of Medicine; Agenor Mafra-Neto- ISCA, Inc
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology
Abstract: The attendees will learn about the innovative insect repellents such as topical, spatial, electric, essential oils, polymer-based repellents, short-term repellency vs long-term repellency, etc ... from passionate national and international insect repellent researchers who will show their important role in human personal protection against insect bites and disease vectors.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Mustapha Debboun, BCE-Emeritus- Baylor College of Medicine - Mustapha Debboun, BCE-Emeritus
1:35 PM - 1:48 PM Pacific: Natural products as imported fire ants repellents/digging suppressants. Presenting Author: Abbas Ali- University of Mississippi. Farhan Mahmood Shah, PhD- University of Mississippi. Ikhlas A Khan- NCNPR, The University of Mississippi - Abbas Ali; Farhan Mahmood Shah, PhD; Ikhlas A Khan
1:48 PM - 2:01 PM Pacific: Overview of the spatial repellent product class: Updates from clinical trials against malaria and dengue. Presenting Author: Nicole Achee- University of Notre Dame. John Grieco- University of Notre Dame - Nicole Achee; John Grieco
2:01 PM - 2:14 PM Pacific: Recent research on semiochemical repellents to protect trees from colonization by bark beetles in the western United States. Presenting Author: Christopher J. Fettig- USDA-Forest Service - Christopher J. Fettig
2:14 PM - 2:27 PM Pacific: Repellency as an integrated pest management strategy. Presenting Author: Agenor Mafra-Neto- ISCA, Inc. Kim Spencer- Arc Gen Pro Technologies, Inc.. Jess Saroli- Arc Gen Pro Technologies, Inc. Rubem Machota- Isca Inc.. Ligia Bortoli- Isca Inc.. Dick Pederson- ISCA Technologies, Inc.. Max Lasiter- Isca Inc.. Carmem Bernardi- ISCA Technologies, Inc.. Vanessa Soria- ISCA Technologies, Inc.. Mark Wright- University of Hawaii. Christopher J. Fettig- USDA-Forest Service - Agenor Mafra-Neto; Kim Spencer; Jess Saroli; Rubem Machota; Ligia Bortoli; Dick Pederson; Max Lasiter; Carmem Bernardi; Vanessa Soria; Mark Wright; Christopher J. Fettig

2:27 PM - 2:40 PM Pacific: Rethinking repellents: Climate, public health, and the limits of current regulatory models. Presenting Author: Scott Carroll- Carroll-Loye Biological Research. Shawn King- Carroll Loye Biological Research. Trevor Fowles- Carroll Loye Biological Research. Cassandre Kaplinski- Carroll Loye Biological Research. David Nielsen- Carroll Loye Biological Research - Scott Carroll; Shawn King; Trevor Fowles; Cassandre Kaplinski; David Nielsen
2:40 PM - 2:53 PM Pacific: Indoor spatial repellents: Current usage and experience in tropical environments; future directions in product development. Presenting Author: Joanelis Medina (she/her/hers)- Puerto Rico Science, Technology and Research Trust. Grayson Brown- Puerto Rico Science, Technology, and Research Trust - Joanelis Medina (she/her/hers); Grayson Brown
2:53 PM - 3:03 PM Pacific: Break -
3:03 PM - 3:16 PM Pacific: Involvement of multiple ion channels and receptors in the action of limonene as a repellent and insecticide. Presenting Author: Yuan Li- Duke University. Wilson Valbon (he/him/his)- Duke University. Felipe Andreazza (he/him/his)- Duke University. Ke Dong (she/her/hers)- Duke University - Yuan Li; Wilson Valbon (he/him/his); Felipe Andreazza (he/him/his); Ke Dong (she/her/hers)
3:16 PM - 3:29 PM Pacific: The pros and cons of natural repellents. Presenting Author: Joel Coats- Iowa State University. Caleb Corona- Metropolitan Mosquito Control District. Edmund Norris- United States Department of Agriculture - Joel Coats; Caleb Corona; Edmund Norris
3:29 PM - 3:42 PM Pacific: Discovery of tick repellents and attractants using ionotropic receptor ligand-binding domain structures. Presenting Author: Robert Renthal- University of Texas - Robert Renthal
3:42 PM - 3:55 PM Pacific: Spatial repellents: From efficacy to impact. Presenting Author: Thomas Mascari- SC Johnson - Thomas Mascari
3:55 PM - 4:08 PM Pacific: Assessing tick repellent effectiveness amidst rising acaricide resistance. Presenting Author: Ratree Takhampunya- U.S. Army. Alyssa Mann- US Army. Erica Lindroth, BCE (she/her/hers)- WRAIR-AFRIMS - Ratree Takhampunya; Alyssa Mann; Erica Lindroth, BCE (she/her/hers)
4:08 PM - 4:21 PM Pacific: Updates on evaluations of attractants and repellents with stable flies in laboratory and semi-field conditions. Presenting Author: Jerry Hogsette- USDA-ARS. Dan Kline- USDA - ARS. Edmund Norris- United States Department of Agriculture - Jerry Hogsette; Dan Kline; Edmund Norris
4:21 PM - 4:25 PM Pacific: Closing remarks. Presenting Author: Mustapha Debboun, BCE-Emeritus- Baylor College of Medicine - Mustapha Debboun, BCE-Emeritus

Title: Enhancing Bee Taxonomy via Community Building, Research Prioritization, and Innovation

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, C125-126, OCC
Organizers: Michael Branstetter- USDA-ARS; Victor Hugo Gonzalez (he/him/his)- University of Kansas
Categories: Workshop
Abstract: Workshop participants will explore the current state of bee taxonomy, learn about research gaps and innovative technologies, and actively participate in discussions of how the community can push research into the future. The workshop will lead to new collaborative efforts and ideas from the meeting will be integrated for publication.
Tracks: Workshop

Title: 10-min: MUVE, Ticks and Tick-borne Diseases

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, B114, OCC
Organizers:
Categories: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Tracks: 10-Minute Presentation; Medical, Urban, and Veterinary Entomology
Presentations:
1:30 PM - 1:42 PM Pacific: Ixodes scapularis phenology: Modeling immature dormancy. Presenting Author: Cynthia Lord, PhD- University of Florida. Jean Tsao- Michigan State University. Jannelle Couret- University of Rhode Island. Sara Farless- Florida Medical Entomology Laboratory, University of Florida. Daniel Post- Florida Medical Entomology Laboratory, University of Florida. Flvia Virginio, PhD- University of Florida - Cynthia Lord, PhD; Jean Tsao; Jannelle Couret; Sara Farless; Daniel Post; Flvia Virginio, PhD
1:42 PM - 1:54 PM Pacific: Host-targeted delivery of an anti-tick vaccine targeting Ixodes scapularis: Challenges, gaps, and opportunities. Presenting Author: Tammi Lynne Johnson- Texas A&M University. Pia Olafson- USDA/ARS. Kelly Persinger- Texas A&M AgriLife Research. Alec Baker- South Dakota Game, Fish, and Parks Department. Yoonsung Jung- Texas A&M University. Moiz Ansari- Texas A&M University. Thuy Thu Nguyen-

Texas A&M University. Alex Gaithuma- Texas A&M University. William Tae Hueng Kim- Texas A&M University. Albert Mulenga- Texas A&M University - Tammi Lynne Johnson; Pia Olafson; Kelly Persinger; Alec Baker; Yoonsung Jung; Moiz Ansari; Thuy Thu Nguyen; Alex Gaithuma; William Tae Hueng Kim; Albert Mulenga
1:54 PM - 2:06 PM Pacific: Importance of environment and infection on Ixodes scapularis host-seeking behavior.. Presenting Author: Flvia Virginio, PhD- University of Florida. Sara Farless- Florida Medical Entomology Laboratory, University of Florida. Daniel Post- Florida Medical Entomology Laboratory, University of Florida. Cynthia Lord, PhD- University of Florida - Flvia Virginio, PhD; Sara Farless; Daniel Post; Cynthia Lord, PhD
2:06 PM - 2:18 PM Pacific: Investigating the effect of climate on blacklegged tick phenology in Maine using long-term passive surveillance data. Presenting Author: Lydia Fyie- University of Maine. Griffin Dill- University of Maine. Susan Elias- Maine Medical Center Research Institute. Allison Gardner (she/her/hers)- University of Maine. Thomas Rounsville- University of Maine - Lydia Fyie; Griffin Dill; Susan Elias; Allison Gardner (she/her/hers); Thomas Rounsville
2:18 PM - 2:30 PM Pacific: Mapping lone star tick distributions: How micro-landscapes shape habitat use. Presenting Author: Dayvion R. Adams- North Carolina State University. Roland Kays- North Carolina State University. Michael Reiskind- North Carolina State University - Dayvion R. Adams; Roland Kays; Michael Reiskind
2:30 PM - 2:42 PM Pacific: Microbial community shifts in Ixodes scapularis in response to infection. Presenting Author: Patil Tawidian, PhD- University of Wisconsin. Brad Tucker- University of Wisconsin-Madison. Tela Zembsch- University of Wisconsin-Madison. Hon Ip- The work by Dr. Ip was done while serving as a virologist with the United States Geological Survey. Lyric Bartholomay- University of Wisconsin-Madison - Patil Tawidian, PhD; Brad Tucker; Tela Zembsch; Hon Ip; Lyric Bartholomay
2:42 PM - 2:54 PM Pacific: Break -
2:54 PM - 3:06 PM Pacific: Movement and abundance are important for tick detection. Presenting Author: Daniel Marshall- Washington State University. Karen Poh (she/her/hers)- USDA-ARS. Jeb Owen- Washington State University - Daniel Marshall; Karen Poh (she/her/hers); Jeb Owen
3:06 PM - 3:18 PM Pacific: Residual barrier pesticide applications negatively impact non-target arthropods in Delaware. Presenting Author: Ashley Kennedy, BCE (she/her/hers)- Delaware Division of Fish & Wildlife Mosquito Control. Vincenzo Ellis- University of Delaware. Brian Kunkel- University of Delaware. Wil Winter, BCE- Delaware Division of Fish and Wildlife: Mosquito Control - Ashley Kennedy, BCE (she/her/hers); Vincenzo Ellis; Brian Kunkel; Wil Winter, BCE
3:18 PM - 3:30 PM Pacific: The need for standardization of tick mortality using nootkatone as a case study. Presenting Author: Aydan Roth- BanfieldBio Inc.. Jillian Joiner (she/her/hers)- BanfieldBio Inc.. John Borden- JHB Consulting. Christopher Wheeler- Chris Wheeler Consulting LLC. Daniel Marshall- Washington State University. Devin Rihtarshich- BanfieldBio Inc.. Doug Snyder- BanfieldBio Inc.. Alyssa Branca- BanfieldBio Inc.. Christopher Downs (he/him/his)- BanfieldBio Inc.. Michael Banfield- BanfieldBio, Inc. - Aydan Roth; Jillian Joiner (she/her/hers); John Borden; Christopher Wheeler; Daniel Marshall; Devin Rihtarshich; Doug Snyder; Alyssa Branca; Christopher Downs (he/him/his); Michael Banfield
3:30 PM - 3:42 PM Pacific: The role of soil moisture and burrowing on tick reproductive success. Presenting Author: Kosisochukwu Dematus Onyeagba- University of Cincinnati. Joshua Benoit- University of Cincinnati. Joshua Tompkins (he/him/his)- University of Cincinnati. Pia Olafson- USDA/ARS - Kosisochukwu Dematus Onyeagba; Joshua Benoit; Joshua Tompkins (he/him/his); Pia Olafson
3:42 PM - 3:54 PM Pacific: Tick (Acari: Ixodidae) trapping as a potential mass surveillance tool. Presenting Author: Alyssa Branca- BanfieldBio Inc.. Christopher Wheeler- Chris Wheeler Consulting LLC. Jillian Joiner (she/her/hers)- BanfieldBio Inc.. Christopher Downs (he/him/his)- BanfieldBio Inc.. Daniel Marshall- Washington State University. Yuexun Tian- Texas A&M University. Gabriel Hamer (he/him/his)- Texas A&M University. Sarah Hamer- Texas A&M University. Michael Banfield- BanfieldBio, Inc.. John Borden- JHB Consulting - Alyssa Branca; Christopher Wheeler; Jillian Joiner (she/her/hers); Christopher Downs (he/him/his); Daniel Marshall; Yuexun Tian; Gabriel Hamer (he/him/his); Sarah Hamer; Michael Banfield; John Borden

Title: 10-min: P-IE, Mircobial and EPN Control

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, E147-148, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:42 PM Pacific: Assessing entomopathogenic nematodes for western corn rootworm management and non-target effects: A two-year field study. Presenting Author: Ana Paula Lima (she/her/hers)- University of Nebraska-Lincoln. Priscila Maria Colombo Da Luz- University of Nebraska-Lincoln. Md Mizanur Rahman-

University of Nebraska-Lincoln. Vojin Milosevic- University of Nebraska-Lincoln. Abigail Lyons (she/her/hers)- University of Nebraska-Lincoln. Thomas Powers- UNL. Julie Peterson- University of Nebraska-Lincoln - Ana Paula Lima (she/her/hers); Priscila Maria Colombo Da Luz; Md Mizanur Rahman; Vojin Milosevic; Abigail Lyons (she/her/hers); Thomas Powers; Julie Peterson
1:42 PM - 1:54 PM Pacific: Biopesticides for the control of major insect pests in food legumes and cactus in Morocco. Presenting Author: Karim El Fakhouri, PhD- Mohammed VI Polytechnic University. Chaimae Ramdani- Mohammed VI Polytechnic University. Rachid Boulamtat- ICARDA - Rabat. Noamane Taarji- Mohammed VI Polytechnic University. Mansour Sobeh- Mohammed VI Polytechnic University. Adil Mazar- Mohammed VI Polytechnic University. Meryem El Fadil- Mohammed VI Polytechnic University. Issam Meftah Kadmiri- Mohammed VI Polytechnic University. Mustapha El Bouhssini- Mohammed VI Polytechnic University - Karim El Fakhouri, PhD; Chaimae Ramdani; Rachid Boulamtat; Noamane Taarji; Mansour Sobeh; Adil Mazar; Meryem El Fadil; Issam Meftah Kadmiri; Mustapha El Bouhssini
1:54 PM - 2:06 PM Pacific: Entomopathogenic fungi and spinosad for sustainable management of Tetranychus urticae on tomato plants: Laboratory to greenhouse. Presenting Author: Waqas Wakil, PhD- University of Agriculture - Waqas Wakil, PhD
2:06 PM - 2:18 PM Pacific: Evaluating the effect of pheromone extracts on entomopathogenic nematode movement through wood substrates. Presenting Author: Abigail L. Kropf (she/her/hers)- USDA-ARS. Eddie Slusher- Texas A&M University. Fatma Kaplan- Pheronym, Inc. David Shapiro-Ilan (he/him/his)- USDA-ARS - Abigail L. Kropf (she/her/hers); Eddie Slusher; Fatma Kaplan; David Shapiro-Ilan (he/him/his)
2:18 PM - 2:30 PM Pacific: Evaluation of liquid formulations of entomopathogenic fungi agains tBactrocera zonata. Presenting Author: Mirza Abdul Qayyum, PhD- Muhammad Nawaz Shareef University of Agriculture - Mirza Abdul Qayyum, PhD
2:30 PM - 2:42 PM Pacific: Fusion of microbial biocontrol and smart agriculture: A generational leap toward sustainable pest management. Presenting Author: Ismaila Adeniran Aderolu, PhD (he/him/his)- Yakubu Gowon University (Formerly University of Abuja). Akeem Oyerinde- Yakubu Gowon University (Formerly University of Abuja). Olajide Oladamolami McKelvin Agunloye- Yakubu Gowon University (Formerly University of Abuja) - Ismaila Adeniran Aderolu, PhD (he/him/his); Akeem Oyerinde; Olajide Oladamolami McKelvin Agunloye
2:42 PM - 2:54 PM Pacific: Break -
2:54 PM - 3:06 PM Pacific: Laboratory evaluation of indigenous and commercial entomopathogenic nematodes against red palm weevil, Rhynchophorus ferrugineus (Coleoptera: Curculionidae). Presenting Author: Mureed Husain (he/him/his)- King Saud University. Abdulrahman Saad Aldawood (he/him/his)- King Saud University. Khawaja Ghulam Rasool- King Saud University. Abdalsalam Osman Ali- King Saud University - Mureed Husain (he/him/his); Abdulrahman Saad Aldawood (he/him/his); Khawaja Ghulam Rasool; Abdalsalam Osman Ali
3:06 PM - 3:18 PM Pacific: Power bars and immunity: Grasshoppers confer a survival advantage to fungally-infected mormon crickets Anabrus simplex. Presenting Author: Robert B. Srygley- USDA-ARS. David H. Branson- USDA-ARS - Robert B. Srygley; David H. Branson
3:18 PM - 3:30 PM Pacific: The artificial selection process using an odor cue enhances the efficacy of the entomopathogenic nematode Steinernema austral against Aegorhinus superciliosus weevil larvae in berry orchards. Presenting Author: Patricia D. Navarro (she/her/hers)- Instituto de Investigaciones Agropecuarias - Patricia D. Navarro (she/her/hers)
3:30 PM - 3:42 PM Pacific: PRINCIPLE WP - a new Beauveria bassiana insecticide from BioWorks. Presenting Author: Eric Clifton (he/him/his)- BioWorks Inc.. Chris Rose- BioWorks Inc.. Julie Graesch (she/her/hers)- BioWorks Inc. - Eric Clifton (he/him/his); Chris Rose; Julie Graesch (she/her/hers)
3:42 PM - 3:54 PM Pacific: Role of Liguleless (LG1) gene in sorghum defense against sap-feeding aphids. Presenting Author: Corrine Pouliot- University of Oregon. Tom Clemente- University of Nebraska-Lincoln. Joe Louis- University of Nebraska-Lincoln. Pritha Kundu- University of Nebraska-Lincoln - Corrine Pouliot; Tom Clemente; Joe Louis; Pritha Kundu

Title: 10-min: P-IE, Biodiversity

Time: **1:30 PM - 4:30** PM Pacific
Location: Oregon Convention Center, E141-142, OCC
Organizers:
Categories: 10-Minute Presentation; Plant-Insect Ecosystems
Tracks: 10-Minute Presentation; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:42 PM Pacific: Assessing arthropod communities in dry bean fields of southern Idaho and management factors influencing abundance and diversity. Presenting Author: Henry C. Trujillo- University of Idaho - Henry C. Trujillo

1:42 PM - 1:54 PM Pacific: Community assembly of insects in pennycress, a novel winter cash cover crop. Presenting Author: Carl Scott Clem- Illinois State University. Josh Graunke- Illinois State University - Carl Scott Clem; Josh Graunke
1:54 PM - 2:06 PM Pacific: Crab biomass dominates insect biomass within terrestrial atoll food webs. Presenting Author: Charles A. Braman- University of California. John P. McLaughlin- University of California Santa Barbara. Nick D. Holmes- The Nature Conservancy. Alex S. Wegmann- The Nature Conservancy. Hillary S. Young- University of California Santa Barbara - Charles A. Braman; John P. McLaughlin; Nick D. Holmes; Alex S. Wegmann; Hillary S. Young
2:06 PM - 2:18 PM Pacific: Diversity of native natural enemies in different berry cultivation systems in Mexico. Presenting Author: Gerardo Arias-Robledo- Driscoll's. Cristian Aragon-Flores- Koppert. Jose Ramon Saucedo-Carabez- Driscolls - Gerardo Arias-Robledo; Cristian Aragon-Flores; Jose Ramon Saucedo-Carabez
2:18 PM - 2:30 PM Pacific: Invertebrate diversity at Kalaeloa. Presenting Author: Nathan Kealoha Keung Chan- University of Hawaii - Nathan Kealoha Keung Chan
2:30 PM - 2:42 PM Pacific: Latitudinal gradients in oak gall and parasitoid trait diversity: Generalist parasitoids provide functional resilience in a poleward range expansion. Presenting Author: Kirsten M. Prior- Binghamton University. Dylan G. Jones- Binghamton University. Kathy Fridrich- Binghamton University, SUNY. Rachel Chen- Binghamton University. Aly K. Milks- Binghamton University. Thomas H.Q. Powell- Binghamton University - Kirsten M. Prior; Dylan G. Jones; Kathy Fridrich; Rachel Chen; Aly K. Milks; Thomas H.Q. Powell
2:42 PM - 2:54 PM Pacific: Monitoring on-farm ecosystem services with aerial arthropods - linking taxonomic structure and ecological function. Presenting Author: Bill Lamp- University of Maryland. Helen Craig (she/her/hers)- University of Maryland. Yasmine Helbling- University of Maryland. Jenna Kraemer- University of Maryland. Shane Windsor (he/him/his)- University of Maryland - Bill Lamp; Helen Craig (she/her/hers); Yasmine Helbling; Jenna Kraemer; Shane Windsor (he/him/his)
2:54 PM - 3:06 PM Pacific: Break -
3:06 PM - 3:18 PM Pacific: Pan-metagenome of Drosophila suzukii gut microbiome reveals variation among berry hosts and microbial community changes throughout the growing season. Presenting Author: Katharine Eastman- USDA-ARS. Rishi Bhandari- USDA-ARS. David kang- USDA ARS Biological Control of Insects Research Lab - Katharine Eastman; Rishi Bhandari; David kang
3:18 PM - 3:30 PM Pacific: Pollinator resilience in a rare tarplant amid wind energy development. Presenting Author: Sarah Cusser, PhD- Santa Barbara Botanic Garden. Kylie Etter, n/a- Santa Barbara Botanic Garden. Denise Knapp- Santa Barbara Botanic Garden - Sarah Cusser, PhD; Kylie Etter, n/a; Denise Knapp
3:30 PM - 3:42 PM Pacific: Soil sand content is a driving force in structuring bee communities. Presenting Author: Marissa H. Chase (she/her/hers)- University of Minnesota. Nicole Gerjets- Minnesota Biological Survey, Minnesota Department of Natural Resources. Ian G. Lane- U.S. Fish and Wildlife Service - National Wildlife Refuge Program. Jessica D. Petersen (she/her/hers)- Minnesota Biological Survey, Minnesota Department of Natural Resources. Zachary M. Portman (he/him/his)- University of Minnesota. Daniel P. Cariveau- University of Minnesota - Marissa H. Chase (she/her/hers); Nicole Gerjets; Ian G. Lane; Jessica D. Petersen (she/her/hers); Zachary M. Portman (he/him/his); Daniel P. Cariveau
3:42 PM - 3:54 PM Pacific: Sound decisions: Optimizing bioacoustic monitoring for insects in agroecosystems. Presenting Author: Christine Elliott (she/her/hers)- Purdue University. Ian Kaplan- Purdue University. Kristen Bellisario - Christine Elliott (she/her/hers); Ian Kaplan; Kristen Bellisario
3:54 PM - 4:06 PM Pacific: Ten years of bee data from restored habitats reveal upward trends in abundance and diversity, while successional shifts to later bloom phenologies miss important early spring pollinators. Presenting Author: Lilia Stemet, PhD (she/her/hers)- University of Arkansas. David Biddinger (he/him/his)- Penn State University. Kusum Naithani, PhD, n/a- University of Arkansas. Neelendra Joshi- University of Arkansas - Lilia Stemet, PhD (she/her/hers); David Biddinger (he/him/his); Kusum Naithani, PhD, n/a; Neelendra Joshi
4:06 PM - 4:18 PM Pacific: The role of year-round vegetation in agricultural ditches as refugia for key insect pests and their natural enemies in Ventura County. Presenting Author: Maripaula Valdes-Berriz (she/her/hers)- University of California. Oleg Daugovish- UC Agriculture and Natural Resources. Hamutahl Cohen- University of California. Ben Faber- University of California, ANR. Julie Clark- UC ANR - Maripaula Valdes-Berriz (she/her/hers); Oleg Daugovish; Hamutahl Cohen; Ben Faber; Julie Clark
4:18 PM - 4:30 PM Pacific: Trapped in leaves and **Time:** Insects preserved in alpine sunflower herbarium specimens with glandular trichomes. Presenting Author: Zoe Makepeace Wood- University of California - Zoe Makepeace Wood

Title: Disabled Entomologists: Bug Buddies Breaking Barriers

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 251, OCC

Organizers: Stephanie A. Olson (she/her/hers)- Arcadia University; Abigail Hayes- University of Virginia; Stephanie A. Rainer (she/her/hers)- Arcadia University
Categories: Member Symposium; Diversity, Equity, and Inclusion; Professional Development
Abstract: This symposium will explore challenges faced by disabled entomologists and offer strategies for improving accessibility in labs, fieldwork, and academia. Attendees will gain practical solutions and connect with allies to foster inclusivity, ensuring all entomologists can contribute fully to the field while inspiring lasting change in scientific environments.
Tracks: Member Symposium; Diversity, Equity, and Inclusion; Professional Development
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Stephanie A. Rainer (she/her/hers)- Arcadia University - Stephanie A. Rainer (she/her/hers)
1:35 PM - 1:50 PM Pacific: Buzzing on empty: Navigating chronic illness in a discipline that demands flight. Presenting Author: Savanna R. Brown- University of Connecticut - Savanna R. Brown
1:50 PM - 2:05 PM Pacific: Developing my STEM Career while navigating OCD and disordered eating. Presenting Author: Madison Karram- University of Virginia - Madison Karram
2:05 PM - 2:20 PM Pacific: Dripping out: Disability in the context of the leaky pipeline. Presenting Author: Abigail Hayes- University of Virginia - Abigail Hayes
2:20 PM - 2:35 PM Pacific: Accessible entomology: A perspective on persistence and possibility. Presenting Author: Bradon Coy- Lil Dudes Insect Academy - Bradon Coy
2:35 PM - 2:50 PM Pacific: Widespread lack of article accessibility policies among ecology and evolution journals. Presenting Author: Olivia Smith- Michigan State University - Olivia Smith
2:50 PM - 3:05 PM Pacific: Fieldwork isn't always a sweet deal with Type 1 diabetes. Presenting Author: Karly Regan- Certis Biologicals - Karly Regan
3:05 PM - 3:10 PM Pacific: Break -
3:10 PM - 3:25 PM Pacific: Neurodiversity in entomology: Successes and strategies for accommodating different brains. Presenting Author: Codey Mathis (she/they)- Pennsylvania State University - Codey Mathis (she/they)
3:25 PM - 3:40 PM Pacific: Fits and starts: Working around an invisible disability in the lab and field. Presenting Author: Karl Magnacca- State of Hawaii - Karl Magnacca
3:40 PM - 3:55 PM Pacific: Invisible disabilities: Encouraging a better understanding of accommodative measures for students and faculty within the academic field. Presenting Author: Maya Harris- Johnson C. Smith University - Maya Harris
3:55 PM - 4:10 PM Pacific: The worst of both worlds: Navigating academia with physical and learning disabilities. Presenting Author: Skye Austin- University of California - Skye Austin
4:10 PM - 4:25 PM Pacific: Navigating the classroom and lab: What faculty can do to support students with chronic illness and disabilities. Presenting Author: Stephanie A. Olson (she/her/hers)- Arcadia University - Stephanie A. Olson (she/her/hers)
4:25 PM - 4:30 PM Pacific: Break -
4:30 PM - 5:00 PM Pacific: Panel discussion -
5:00 PM - 5:05 PM Pacific: Closing remarks. Presenting Author: Stephanie A. Rainer (she/her/hers)- Arcadia University - Stephanie A. Rainer (she/her/hers)

Title: Gene Drive and Genetic Engineering for Pest Control

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, B117-119, OCC
Organizers: Jackson Champer (he/him/his)- Peking University; Samuel Champer (he/him/his)- Michigan State University; Jie Du (she/her/hers)- Peking University; Xinyue Zhang (she/her/hers)- Peking University; Yingke Wu (she/her/hers)- Peking University
Categories: Section Symposium; Medical, Urban, and Veterinary Entomology; Systematics, Evolution, and Biodiversity
Abstract: Attendees at this session will gain a better understanding of gene drive and genetic control. They will learn about the differences between the many different drive types, especially the level of confinement. Finally, attendees will learn about the current the state of the field in mosquitoes and other insect species.
Tracks: Section Symposium; Medical, Urban, and Veterinary Entomology; Systematics, Evolution, and Biodiversity
Presentations:
1:30 PM - 1:45 PM Pacific: Employing allelic-drives to re-wild insect populations. Presenting Author: Ethan Bier- University of California - Ethan Bier

1:45 PM - 2:00 PM Pacific: Evaluating the epidemiological impact of novel genetic control strategies: Considerations for the design of trials for endemic infections. Presenting Author: Alun Lloyd- North Carolina State University - Alun Lloyd
2:00 PM - 2:15 PM Pacific: Next-generation gene drive system for suppression of malaria vector populations. Presenting Author: Akash Sharma- Imperial College London. Andrea Crisanti- Imperial College London - Akash Sharma; Andrea Crisanti
2:15 PM - 2:30 PM Pacific: A highly effective daisy-chain gene drive in Anopheles stephensi caged population. Presenting Author: Eunice Adedeji- University of York. Joshua X.D. Ang- University of York. Lewis Shackleford- University of York. Alexander Dodds- University of York. Morgan Mckee- University of York. James C. Y. Luk- University of York. Jake Creasey- University of York. Jack Aked- University of York. Matthew P. Edgington- University of York. Sebald A. N. Verkuijl- Imperial College London. Philip T. Leftwich- University of East Anglia. Michelle A. E. Anderson- University of York. Luke Alphey- University of York - Eunice Adedeji; Joshua X.D. Ang; Lewis Shackleford; Alexander Dodds; Morgan Mckee; James C. Y. Luk; Jake Creasey; Jack Aked; Matthew P. Edgington; Sebald A. N. Verkuijl; Philip T. Leftwich; Michelle A. E. Anderson; Luke Alphey
2:30 PM - 2:40 PM Pacific: Impact from evolution of genetic variation in response to suppression gene drive systems. Presenting Author: Xinyue Zhang (she/her/hers)- Peking University - Xinyue Zhang (she/her/hers)
2:40 PM - 2:50 PM Pacific: Finding the perfect promoter: Relating single-cell transcriptome data to gene drive performance. Presenting Author: Yingke Wu (she/her/hers)- Peking University - Yingke Wu (she/her/hers)
2:50 PM - 3:00 PM Pacific: Experimental demonstration of a confined two-locus CRISPR toxin-antidote gene drive. Presenting Author: Ruobing Feng- Peking University. Yinuo Tan- Peking University. Jackson Champer (he/him/his)- Peking University - Ruobing Feng; Yinuo Tan; Jackson Champer (he/him/his)
3:00 PM - 3:15 PM Pacific: Decoding a deadly efficiency: Why one Wolbachia strain excels at killing insect embryos. Presenting Author: Lore Van Vlaenderen- Lehigh University. Dylan Shropshire- Lehigh University. Jocelyn Lu- Lehigh University. Josh Mirsky- Lehigh University - Lore Van Vlaenderen; Dylan Shropshire; Jocelyn Lu; Josh Mirsky
3:15 PM - 3:40 PM Pacific: Break -
3:40 PM - 3:55 PM Pacific: Genetic engineering to control agricultural insect pest populations. Presenting Author: Angela Meccariello- Imperial College London - Angela Meccariello
3:55 PM - 4:10 PM Pacific: Performances of two population replacement gene drives within cage populations ofAedes aegypti. Presenting Author: Zachary Speth- University of Missouri. David Rehard- University of Missouri. Patricia Norton- University of Missouri. Alexander E. Franz- University of Missouri - Zachary Speth; David Rehard; Patricia Norton; Alexander E. Franz
4:10 PM - 4:25 PM Pacific: Alternate Cas9 expression systems for gene drive and transgene knock-in. Presenting Author: Jie Du (she/her/hers)- Peking University - Jie Du (she/her/hers)
4:25 PM - 4:40 PM Pacific: Development and evaluation of suppression gene drive strategies for spotted-wing drosophila. Presenting Author: Ariel Tarrand- North Carolina State University. Amarish Yadav- North Carolina State University. Akihiko Yamamoto- North Carolina State University. Maxwell J. Scott (he/him/his)- North Carolina State University - Ariel Tarrand; Amarish Yadav; Akihiko Yamamoto; Maxwell J. Scott (he/him/his)
4:40 PM - 4:55 PM Pacific: Gene drive applications with Cleave and Rescue selfish genetic elements. Presenting Author: Georg Oberhofer- California Institute of Technology. Michelle Johnson- California Institute of Technology. Tobin Ivy- California Institute of Technology. Bruce Hay- California Institute of Technology - Georg Oberhofer; Michelle Johnson; Tobin Ivy; Bruce Hay
4:55 PM - 5:10 PM Pacific: Engineering CRISPR/Cas9 toolkit to control Mexfly, Anastrepha ludens. Presenting Author: Georgia Gouvi- Imperial College London. Junru Liu- University of California, San Diego. Ting Yang- University of California, San Diego. Nikolai Kandul- University of California, San Diego. Evan W. Braswell- USDA-ARS. Omar S. Akbari- University of California, San Diego. Angela Meccariello- Imperial College London - Georgia Gouvi; Junru Liu; Ting Yang; Nikolai Kandul; Evan W. Braswell; Omar S. Akbari; Angela Meccariello
5:10 PM - 5:25 PM Pacific: Competition and predation: Ecological interactions and gene drive. Presenting Author: Samuel Champer (he/him/his)- Michigan State University - Samuel Champer (he/him/his)
5:25 PM - 5:30 PM Pacific: Closing remarks. Presenting Author: Jackson Champer (he/him/his)- Peking University - Jackson Champer (he/him/his)

Title: Innovations in Tree Fruit Integrated Pest Management from Coast to Coast

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, E145, OCC
Organizers: Kelsey Tobin- University of Idaho; Monique Rivera- Cornell University
Categories: Member Symposium; Plant-Insect Ecosystems

Abstract: Discover the latest innovations in tree fruit IPM with experts sharing cutting-edge research on monitoring, trapping, and sustainable control strategies. This session will explore practical solutions for tackling key pests in fruit production while fostering discussion on emerging challenges. Attendees will gain actionable insights to enhance IPM in orchard systems.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Kelsey Tobin- University of Idaho - Kelsey Tobin
1:35 PM - 1:50 PM Pacific: Evaluating the push-pull management strategy for ambrosia beetles in eastern apple orchards. Presenting Author: Kelsey Tobin- University of Idaho. Monique Rivera- Cornell University - Kelsey Tobin; Monique Rivera
1:50 PM - 2:10 PM Pacific: A novel new tool to improve conservation biological control against pear psylla in Oregon. Presenting Author: Christopher Adams- Oregon State University - Christopher Adams
2:10 PM - 2:30 PM Pacific: Cooperative implementation programs benefit alternative pest management practices: The science of adopting pheromone mating disruption in tree and nut crops. Presenting Author: Peter McGhee- Pacific Biocontrol - Peter McGhee
2:30 PM - 2:50 PM Pacific: Semiochemicals across the country: Comparing the role of semiochemicals in Eastern and Western tree fruit systems. Presenting Author: Thomas Martin- Trece Inc.. Brent Short- Trece Inc. - Thomas Martin; Brent Short
2:50 PM - 3:05 PM Pacific: The tangler: Weapons of mass disruption. Presenting Author: Kelsey Benthall- Ridge Quest Inc. - Kelsey Benthall
3:05 PM - 3:20 PM Pacific: Predicting pest phenology: A climate-based model for Drosophila suzukii detection. Presenting Author: Blake Dawson- Michigan State University. Julianna Wilson- Michigan State University. Steven Van Timmeren- Michigan State University. Heather Leach- Michigan State University. Rufus Isaacs- Michigan State University - Blake Dawson; Julianna Wilson; Steven Van Timmeren; Heather Leach; Rufus Isaacs
3:20 PM - 3:35 PM Pacific: Break -
3:35 PM - 3:50 PM Pacific: Rooted in resistance: Prunus rootstocks as a defense against peachtree borer (Synanthedon exitiosa) in peach orchards. Presenting Author: Adam Schacherer- University of Georgia. Ted Cottrell- USDA, ARS. Dario Chavez- University of Georgia. Brett Blaauw- University of Georgia - Adam Schacherer; Ted Cottrell; Dario Chavez; Brett Blaauw
3:50 PM - 4:10 PM Pacific: Evaluating attractants as decision support tools for plum curculio management. Presenting Author: Laura Nixon- USDA-ARS. Tracy C. Leskey- United States Department of Agriculture. Torri Hancock- USDA-ARS. John Cullum- USDA-ARS - Laura Nixon; Tracy C. Leskey; Torri Hancock; John Cullum
4:10 PM - 4:25 PM Pacific: Work smart, trap smart: Monitoring navel orangeworm with automated traps. Presenting Author: Jean (Tzu-Chin) Liu- University of California. Camila Oliveira- University of California Riverside. Charles S. Burks (he/him/his)- USDA-ARS. Houston Wilson (he/him/his)- University of California - Jean (Tzu-Chin) Liu; Camila Oliveira; Charles S. Burks (he/him/his); Houston Wilson (he/him/his)
4:25 PM - 4:40 PM Pacific: Biological control beyond the lab: Tracking entomopathogenic fungi of codling moth in Pacific Northwest orchards. Presenting Author: Cesar Reyes Corral- Washington State University. Tobin Northfield- Washington State University. Scott Harper- Washington State University. Robert Curtiss- Washington State University - Cesar Reyes Corral; Tobin Northfield; Scott Harper; Robert Curtiss
4:40 PM - 5:00 PM Pacific: Using drones for predatory insect releases in temperate tree fruit. Presenting Author: Daniel Hausler- USDA-ARS. Rebecca Schmidt-Jeffris- USDA-ARS. Erica Moretti- USDA-ARS. Rodney Cooper- USDA-ARS - Daniel Hausler; Rebecca Schmidt-Jeffris; Erica Moretti; Rodney Cooper
5:00 PM - 5:20 PM Pacific: Estimating codling moth populations with lure-baited traps. Presenting Author: Robert Curtiss- Washington State University. Toriani Kent- Washington State University. Tobin Northfield- Washington State University. Louis Nottingham- Washington State University - Robert Curtiss; Toriani Kent; Tobin Northfield; Louis Nottingham
5:20 PM - 5:25 PM Pacific: Closing remarks. Presenting Author: Kelsey Tobin- University of Idaho - Kelsey Tobin

Title: Bridging Generations: Collaborative Mentoring in Entomological Research and Education

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, F149, OCC
Organizers: Harit K. Bal- Bayer Crop Science; Sajjan Grover- Bayer Crop Science; Morgan Grace Pinkerton- University of Florida; Ldia Gual Gonzalez (she/her/hers)- Clemson University; Julien Saguez- CROM; Lidia Gual-Gonzalez- University of South Carolina
Categories: Member Symposium; Early Career; Professional Development; Student

Abstract: This symposium aims to bridge the generational gap in entomological research and education while highlighting ways to enhance collaborative mentoring across generations and offering practical advice and insights from both early career and experienced entomologists as well as mentoring specialists from other disciplines across academia, industry, government, and other professions.
Tracks: Member Symposium; Early Career; Professional Development; Student
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Harit K. Bal- Bayer Crop Science - Harit K. Bal
1:35 PM - 1:55 PM Pacific: From larva to leader: Growing your wings in entomology. Presenting Author: Erin Cadwalader- Entomological Society of America - Erin Cadwalader
1:55 PM - 2:15 PM Pacific: Guiding the next generation: Building relationships to foster growth in academia. Presenting Author: Maria (Masha) Gartstein (she/her/hers)- Washington State University - Maria (Masha) Gartstein (she/her/hers)
2:15 PM - 2:35 PM Pacific: Quiet mentoring while living out loud. Presenting Author: Patricia Moore- University of Georgia - Patricia Moore
2:35 PM - 2:55 PM Pacific: An extension entomologist's perspective on building cross-generational relationships. Presenting Author: Anthony Justin McMechan- University of Nebraska-Lincoln - Anthony Justin McMechan
2:55 PM - 3:05 PM Pacific: Break -
3:05 PM - 3:25 PM Pacific: Can reciprocal mentoring build better bridges?. Presenting Author: Michelle Smith, BCE-Emeritus- Corteva Agriscience - Michelle Smith, BCE-Emeritus
3:25 PM - 3:45 PM Pacific: Bridging generations with positivity: The power of attitude and communication in mentorship. Presenting Author: Erik Roldan (he/him/his)- Corteva Agriscience - Erik Roldan (he/him/his)
3:45 PM - 4:05 PM Pacific: Mentorship by design: Frameworks for fostering long-term collaborative growth. Presenting Author: Stephen Onayemi- Washington State Department of Agriculture - Stephen Onayemi
4:05 PM - 4:15 PM Pacific: Break -
4:15 PM - 5:05 PM Pacific: Panel discussion -
5:05 PM - 5:10 PM Pacific: Closing remarks. Presenting Author: Harit K. Bal- Bayer Crop Science - Harit K. Bal

Title: Cerambycid Beetles: Bridging Ecology, Evolution, and Management Across Borders

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, B110-112, OCC
Organizers: Robert Mitchell- Pennsylvania State University; Ann Ray- Xavier University; Duane McKenna- University of Memphis
Categories: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Abstract: This symposium brings together researchers from around the world to explore the biology of cerambycid beetles (Cerambycidae), including systematics, evolution, ecology, chemical communication, and pest management. By applying cutting-edge research to long-standing questions, we aim to foster cross-disciplinary collaboration and advance our understanding of these ecologically and economically important insects.
Tracks: Section Symposium; Systematics, Evolution, and Biodiversity; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:33 PM Pacific: Introductory remarks. Presenting Author: Robert Mitchell- Pennsylvania State University - Robert Mitchell
1:33 PM - 1:53 PM Pacific: Genomes illuminate the evolution and genomic basis of phytophagy in beetles. Presenting Author: Duane McKenna- University of Memphis. Na Ra Shin- University of Memphis. Rich Adams- University of Arkansas. Robert Mitchell- Pennsylvania State University. Terrence Sylvester- University of Memphis. Kevin Moran- University of Memphis - Duane McKenna; Na Ra Shin; Rich Adams; Robert Mitchell; Terrence Sylvester; Kevin Moran
1:53 PM - 2:13 PM Pacific: Phylogeny and evolution of Cerambycidae s.l.. Presenting Author: Kevin Moran- University of Memphis. Robert Mitchell- Pennsylvania State University. Duane McKenna- University of Memphis - Kevin Moran; Robert Mitchell; Duane McKenna
2:13 PM - 2:33 PM Pacific: Longhorned beetle (Cerambycidae s.l.) genome architecture and evolution. Presenting Author: Terrence Sylvester- University of Memphis - Terrence Sylvester
2:33 PM - 2:53 PM Pacific: Phylogeny and macroevolution of exaggerated male antennae in roughskin longhorned beetles (Coleoptera: Cerambycidae: Trachyderini). Presenting Author: Rowan French- University of Toronto. DIEGO d S SOUZA- Field Museum. Na Ra Shin- University of Memphis. Lech Karpiski- Polish Academy of Sciences. Duane McKenna- University of Memphis. Locke Rowe- University of Toronto. Luke Mahler-

University of Toronto - Rowan French; DIEGO d S SOUZA; Na Ra Shin; Lech Karpiski; Duane McKenna; Locke Rowe; Luke Mahler
2:53 PM - 3:13 PM Pacific: A conserved lineage of chemoreceptors in longhorned beetles (Coleoptera: Cerambycidae) is tuned to green leaf volatiles. Presenting Author: Robert Mitchell- Pennsylvania State University. Jacob Corcoran- USDA-ARS - Robert Mitchell; Jacob Corcoran
3:13 PM - 3:33 PM Pacific: Break -
3:33 PM - 3:53 PM Pacific: Do aggregation-sex pheromones exist in the sub-family Prioninae (Coleoptera: Cerambycidae)?. Presenting Author: Jacob Wickham- Rutgers University. Quang Thu Pham- Vietnamese Academy of Forest Sciences. Lawrence Hanks- University of Illinois Urbana-Champaign. Jocelyn Millar- University Of California - Jacob Wickham; Quang Thu Pham; Lawrence Hanks; Jocelyn Millar
3:53 PM - 4:13 PM Pacific: Pheromone chemistry of Saperda tridentata- Closing in on an unknown. Presenting Author: Peter D. Mayo (he/him/his)- Canadian Forest Service. Jon D. Sweeney- Natural Resources Canada. Kate Van Rooyen- Natural Resources Canada. Giacomo Santoiemma (he/him/his)- Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova. Davide Rassati (he/him/his)- Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE) - Peter D. Mayo (he/him/his); Jon D. Sweeney; Kate Van Rooyen; Giacomo Santoiemma (he/him/his); Davide Rassati (he/him/his)
4:13 PM - 4:33 PM Pacific: Color vision in longhorn beetles: From electrophysiological recordings to practical application. Presenting Author: Laura Besana- University of Padova. Giacomo Santoiemma (he/him/his)- Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE), University of Padova. Giacomo Cavaletto- University of Padova. Gregor Belusi- University of Ljubljana. Antonio Biondi- University of Catania. Joseph Francese- USDA. Emily KL Franzen- Xavier University. Antonio Gugliuzzo- University of Catania. Jerzy Gutowski- Forest Research Institute, Poland. Robert Johns- Canadian Forest Service. Domen Lazar- University of Ljubljana. Emily Owens- Canadian Forest Service. Radosaw Plewa- Department of Forest Protection, Poland. Ann Ray- Xavier University. Alain Roques- INRAE. Johannes Spaethe- University of Wurzburg. Krzysztof Suko- Forest Research Institute, Poland. Jon D. Sweeney- Natural Resources Canada. Casper van der Kooi- University of Groningen. Davide Rassati (he/him/his)- Department of Agronomy, Food, Natural Resources, Animals and Environment (DAFNAE) - Laura Besana; Giacomo Santoiemma (he/him/his); Giacomo Cavaletto; Gregor Belusi; Antonio Biondi; Joseph Francese; Emily KL Franzen; Antonio Gugliuzzo; Jerzy Gutowski; Robert Johns; Domen Lazar; Emily Owens; Radosaw Plewa; Ann Ray; Alain Roques; Johannes Spaethe; Krzysztof Suko; Jon D. Sweeney; Casper van der Kooi; Davide Rassati (he/him/his)
4:33 PM - 4:53 PM Pacific: Biological and molecular characterization of invasive Anoplophora horsfieldii. Presenting Author: Seunghyun Lee- Seoul National University - Seunghyun Lee
4:53 PM - 5:13 PM Pacific: Stop, drop, and roll: Putting out the fire of Asian longhorned beetle. Presenting Author: Kelly Oten- North Carolina State University - Kelly Oten
5:13 PM - 5:16 PM Pacific: Closing remarks. Presenting Author: Robert Mitchell- Pennsylvania State University - Robert Mitchell **Wednesday, November 12, 2025**

Title: The Increasingly High Profile of Bemisia Tabaci Cryptic Species Group, a Super Pest and Virus Vector

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, E143-144, OCC
Organizers: Rajagopalbabu Srinivasan (he/him/his)- University of Georgia; Alvin Simmons- USDA-ARS; Judith Brown- University of Arizona; Mike Toews- University of Georgia; Christopher Cunningham- University of Georgia
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: An all-inclusive symposium on whitefly and whitefly-transmitted viruses in the United States. This symposium will provide a comprehensive coverage on whitefly as a pest in its own right, and as a super vector, threatening food and nutritional security. This symposium will offer a glimpse of recent advancements.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:33 PM Pacific: Introductory remarks. Presenting Author: Rajagopalbabu Srinivasan (he/him/his)- University of Georgia - Rajagopalbabu Srinivasan (he/him/his)
1:33 PM - 1:48 PM Pacific: Extending phyogenomics and niche partitioning analyses to the Bemisia tabaci cryptic species complex and B. tabaci-like Bemisia species group. Presenting Author: Judith Brown- University of Arizona. Dinusha Maheepala- University of Arizona. Jorge Paredes-Montero- Saginaw state Valley University. Amir Raza- University of Arizona. Gregory A. Evans, Ph.D.- USDA-APHIS. Raymond Gill- California Department of Food and Agriculture - Judith Brown; Dinusha Maheepala; Jorge Paredes-Montero; Amir Raza; Gregory A. Evans, Ph.D.; Raymond Gill

1:48 PM - 2:03 PM Pacific: Single cell RNA-seq profiling of ovaries after dnmt1 gene expression knockdown. Presenting Author: Christopher Cunningham- University of Georgia. Allen Moore- University of Georgia. Patricia Moore- University of Georgia - Christopher Cunningham; Allen Moore; Patricia Moore
2:03 PM - 2:18 PM Pacific: Dynamics of whitefly-transmitted viruses in Georgia vegetable systems: Epidemiology and evolution. Presenting Author: Sudeep Bag- University of Georgia - Sudeep Bag
2:18 PM - 2:33 PM Pacific: Unstable mixed virus infection of two whitefly-transmitted begomovirus in a solanaceae host and effects on virus transmission and vector fitness. Presenting Author: Kamran Rashid (he/him/his)- University of Georgia - Kamran Rashid (he/him/his)
2:33 PM - 2:48 PM Pacific: Resistance to squash silverleaf (SSL) disorder caused by the sweetpotato whitefly (Bemisia tabaci) is controlled by a QTL on chromosome 8 inCucurbita moschata. Presenting Author: Cecilia McGregor- University of Georgia - Cecilia McGregor
2:48 PM - 3:03 PM Pacific: An overview of tomato plants resistance to sweetpotato whitefly: The importance of proper cultivar selection and future of breeding programs. Presenting Author: Andre Luiz Biscaia Ribeiro da Silva- Auburn University. Camila Rodrigues- Auburn University. Jessica Pizzo- Auburn University. Victor Hugo Cruz- Auburn University. Paulo G. Cremonez (he/him/his)- Auburn University. Alvin Simmons- USDA-ARS - Andre Luiz Biscaia Ribeiro da Silva; Camila Rodrigues; Jessica Pizzo; Victor Hugo Cruz; Paulo G. Cremonez (he/him/his); Alvin Simmons
3:03 PM - 3:18 PM Pacific: Volatile-mediated resistance in watermelon against whiteflies. Presenting Author: Isiaka Owolabi- University of Georgia - Isiaka Owolabi
3:18 PM - 3:33 PM Pacific: GWAS uncovers resistance-linked variants against whitefly-transmitted begomovirus in snap bean (Phaseolus vulgaris L.) populations in Georgia. Presenting Author: Anoop A. Malik (he/him/his)- University of Georgia - Anoop A. Malik (he/him/his)
3:33 PM - 3:43 PM Pacific: Break -
3:43 PM - 3:58 PM Pacific: Recent host plant resistance studies for the management of sweetpotato whitefly in Alabama. Presenting Author: Paulo G. Cremonez (he/him/his)- Auburn University. Neilly Cope- Auburn University. Laura Ribeiro- Auburn University. Priya Shahi- Auburn University - Paulo G. Cremonez (he/him/his); Neilly Cope; Laura Ribeiro; Priya Shahi
3:58 PM - 4:13 PM Pacific: Gene expression profiling of TYLCV-resistant tomato lines reveals key defense mechanisms. Presenting Author: Sudeep Pandey- University of Georgia. Uday Suresh- University of Georgia. Jessica Chitwood-Brown- University of Florida. Andrew Ogden- University of Georgia. Rajagopalbabu Srinivasan (he/him/his)- University of Georgia - Sudeep Pandey; Uday Suresh; Jessica Chitwood-Brown; Andrew Ogden; Rajagopalbabu Srinivasan (he/him/his)
4:13 PM - 4:28 PM Pacific: Integrated pest management of whiteflies. Presenting Author: Muhammad A. Noor ul Ane- University of Florida. Jawwad Qureshi- University of Florida. Xuedong A. Chen- University of Florida - Muhammad A. Noor ul Ane; Jawwad Qureshi; Xuedong A. Chen
4:28 PM - 4:43 PM Pacific: Determining biocontrol options and compatibility within systems challenged with whiteflies (Bemisia tabaci). Presenting Author: Jessica Martins- Universidade Federal De Viosa. Jason Schmidt- University of Georgia. David Shapiro-Ilan (he/him/his)- USDA-ARS. Itohan Aigbedion-Atalor (she/her/hers)- University of Georgia. Albertha J. Parkins- University of Georgia. Alvin Simmons- USDA-ARS - Jessica Martins; Jason Schmidt; David Shapiro-Ilan (he/him/his); Itohan Aigbedion-Atalor (she/her/hers); Albertha J. Parkins; Alvin Simmons
4:43 PM - 4:58 PM Pacific: Can the combined application of entomopathogens and insecticides result in synergy?. Presenting Author: Sanower Warsi- Fort Valley State University. George Mbata- Fort Valley State University. David Shapiro-Ilan (he/him/his)- USDA-ARS. Alvin Simmons- USDA-ARS - Sanower Warsi; George Mbata; David Shapiro-Ilan (he/him/his); Alvin Simmons
4:58 PM - 5:13 PM Pacific: Implementing diverse non-pesticidal approaches to control whitefly and whitefly-transmitted viruses in major vegetable crops of southern Georgia. Presenting Author: Saumik Basu- University of Georgia. Sourav Pal- University of Georgia. Rajesh udavant- University of Georgia. Abdul Jalloh- University of Georgia. Amol Nankar- University of Georgia. Ted McAvoy- University of Georgia - Saumik Basu; Sourav Pal; Rajesh udavant; Abdul Jalloh; Amol Nankar; Ted McAvoy
5:13 PM - 5:28 PM Pacific: Mechanisms of insecticide resistance in Bemisia tabaci from the Southeastern USA. Presenting Author: Donald Champagne- University of Georgia. Md Abdullah Al-Baki- University of Georgia. Thomas P. Dunn- University of Georgia. Zachary krausman- University of Georgia. David Riley- University of Georgia. Alvin Simmons- USDA-ARS - Donald Champagne; Md Abdullah Al-Baki; Thomas P. Dunn; Zachary krausman; David Riley; Alvin Simmons
5:28 PM - 5:30 PM Pacific: Discussion –

Title: Building Bridges: Long-term Collaborations Link Entomologists Globally and Across Generations

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 256, OCC
Organizers: Dave Crowder (he/him/his)- Washington State University; Emily Allyce Rampone- Washington State University
Categories: Program Symposium; Plant-Insect Ecosystems
Abstract: Entomologists are at the forefront of cutting-edge research to address the world's biggest challenges. These global issues can only be solved through collaboration and sustained partnerships. Hear how experts build and leverage these diverse networks to make big discoveries and affect change in their communities, states, regions, and worldwide.
Tracks: Program Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:33 PM Pacific: Introductory remarks. Presenting Author: Emily Allyce Rampone- Washington State University - Emily Allyce Rampone
1:33 PM - 1:48 PM Pacific: Forming collaborative partnerships between data scientists and farmer collaborative research networks to identify best management practices. Presenting Author: Emily Allyce Rampone- Washington State University. Dave Crowder (he/him/his)- Washington State University. Carrie Wohleb- Washington State University. Tim Waters- Washington State University - Emily Allyce Rampone; Dave Crowder (he/him/his); Carrie Wohleb; Tim Waters
1:48 PM - 2:08 PM Pacific: Forming a collaborative network for potato pest management. Presenting Author: Zsofia Szendrei- Michigan State University. Dave Crowder (he/him/his)- Washington State University. Russell L. Groves, PhD- University of Wisconsin. Brian Nault- Cornell University. Tim Waters- Washington State University. Andrei Alyokhin- University of Maine. Punya Nachappa- Colorado State University. Gina Marie Angelella- USDA-ARS. Dave Douches- Michigan State University. Jessica Goldberger, PhD- Washington State University. Katie Dentzman (she/her/hers)- Iowa State University. Paul Mitchell- University of Wisconsin-Madison - Zsofia Szendrei; Dave Crowder (he/him/his); Russell L. Groves, PhD; Brian Nault; Tim Waters; Andrei Alyokhin; Punya Nachappa; Gina Marie Angelella; Dave Douches; Jessica Goldberger, PhD; Katie Dentzman (she/her/hers); Paul Mitchell
2:08 PM - 2:28 PM Pacific: From brown marmorated stink bug to spotted lanternfly: Building effective tools for management of invasive species through collaboration and mentorship. Presenting Author: Tracy C. Leskey- United States Department of Agriculture - Tracy C. Leskey
2:28 PM - 2:48 PM Pacific: Achieving transdisciplinary collaboration for sustainable agricultural systems under global change: The view from entomology. Presenting Author: Sanford Eigenbrode- University of Idaho - Sanford Eigenbrode
2:48 PM - 2:58 PM Pacific: Break -
2:58 PM - 3:18 PM Pacific: Watching a forest grow: Long-term experiments as catalysts for collaborative science. Presenting Author: Karin Burghardt- University of Maryland. Morgan Thompson- University of Maryland. John Parker- Smithsonian Environmental Research Center - Karin Burghardt; Morgan Thompson; John Parker
3:18 PM - 3:38 PM Pacific: How municipal investments in greening and vector control shape urban ecosystem health. Presenting Author: Mary M. Gardiner, M.S., Ph.D. (she/her/hers)- The Ohio State University. Caralee Shepard- The Ohio State University. Hannah Dehus, M.S.- The Ohio State University. Carly Tolle- The Ohio State University. Megan E. Meuti, PhD (she/her/hers)- The Ohio State University - Mary M. Gardiner, M.S., Ph.D. (she/her/hers); Caralee Shepard; Hannah Dehus, M.S.; Carly Tolle; Megan E. Meuti, PhD (she/her/hers)
3:38 PM - 3:58 PM Pacific: Linking entomologists, microbial ecologists, and farmer pest management decisions through social science and econometric analysis. Presenting Author: Elias H. Bloom- Cornell University. Yizun Yan- University of Illinois Urbana-Champaign. Shadi S. Atallah- University of Illinois. Clare L. Casteel- Cornell University - Elias H. Bloom; Yizun Yan; Shadi S. Atallah; Clare L. Casteel
3:58 PM - 4:08 PM Pacific: Break -
4:08 PM - 4:28 PM Pacific: From molecules to models: Merging chemical signals with artificial intelligence in insect research. Presenting Author: Jared Ali- Pennsylvania State University. Natalie Boyle- Pennsylvania State University. Christina Grozinger- Pennsylvania State University - Jared Ali; Natalie Boyle; Christina Grozinger
4:28 PM - 4:48 PM Pacific: Bridging place and space: Synthesizing insect observations across scale to build consensus on insect declines. Presenting Author: Christie Bahlai (she/her/hers)- Kent State University - Christie Bahlai (she/her/hers)
4:48 PM - 5:08 PM Pacific: The herbivory variability network: Bridging local natural history and global patterns through collaboration. Presenting Author: William Wetzel- Montana State University. Karen Abbott- Case Western Reserve University. Emilio M. Bruna- University of Florida. Ival Cacho- Universidad Nacional Autnoma de Mexico.

Lee Dyer- University of Nevada, Reno. Andrea Galmn- Montana State University. Phillip G. Hahn, Dr- University of Florida. Brian Inouye- Florida State University. Nora Underwood- Florida State University. Susan Whitehead- Virginia Tech - William Wetzel; Karen Abbott; Emilio M. Bruna; Ival Cacho; Lee Dyer; Andrea Galmn; Phillip G. Hahn, Dr; Brian Inouye; Nora Underwood; Susan Whitehead
5:08 PM - 5:28 PM Pacific: Gathering the collective wisdom of professional societies to identify priorities for entomology. Presenting Author: Lynn V. Dicks, FRES- University of Cambridge. Sarah luke- University of Nottingham. Helen Roy- UKCEH. Chris Thomas- University of York - Lynn V. Dicks, FRES; Sarah luke; Helen Roy; Chris Thomas
5:28 PM - 5:30 PM Pacific: Closing remarks. Presenting Author: Emily Allyce Rampone- Washington State University - Emily Allyce Rampone

Title: Bridging Current Honey Bee Health Research

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 255, OCC
Organizers: Edward Hsieh- USDA-ARS; Elizabeth Walsh (she/her/hers)- USDA-ARS
Categories: Section Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Abstract: This symposium examines honey bee health in the context of toxicology, parasitology, ecology, nutritional biology, chemistry, molecular biology, behavioral ecology, and acarology. These works are done by a variety of people in different career stages and in very different workplace types which include extension, academic, industry, and federal work contexts.
Tracks: Section Symposium; Physiology, Biochemistry, and Toxicology; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Elizabeth Walsh (she/her/hers)- USDA-ARS - Elizabeth Walsh (she/her/hers)
1:35 PM - 1:55 PM Pacific: Working together: Impacts of a honey bee apiary on native bees in wild lands. Presenting Author: Diana Cox-Foster- USDA-ARS. Lindsie McCabe- USDA-ARS. Kelsey Graham- USDA-ARS. Byron Love- USDA-ARS. Jonathan Koch- USDA-ARS-PWA-PIRU - Diana Cox-Foster; Lindsie McCabe; Kelsey Graham; Byron Love; Jonathan Koch
1:55 PM - 2:15 PM Pacific: Nationwide genetics of honey bees revealed through community science. Presenting Author: Brock Harpur- Purdue University. Dylan Ryals- Purdue University. Mulu Fikere- Purdue University. Andrew Patterson- University of Georgia. Luiz F. Brito- Purdue University - Brock Harpur; Dylan Ryals; Mulu Fikere; Andrew Patterson; Luiz F. Brito
2:15 PM - 2:35 PM Pacific: Using propolis and mite-resistant honey bees to improve health of honey bees used for commercial pollination of blueberries. Presenting Author: Michael Simone-Finstrom- USDA-ARS. Frank Rinkevich- USDA-ARS. Meghan Milbrath- Michigan State University - Michael Simone-Finstrom; Frank Rinkevich; Meghan Milbrath
2:35 PM - 2:55 PM Pacific: Variable susceptibility to chalkbrood infection between Russian honey bee lines and life stages. Presenting Author: Edward Hsieh- USDA-ARS. Alexis Masnjak- University of Florida. Cameron Jack- University of Florida. Michael Simone-Finstrom- USDA-ARS. Elizabeth Walsh (she/her/hers)- USDA-ARS - Edward Hsieh; Alexis Masnjak; Cameron Jack; Michael Simone-Finstrom; Elizabeth Walsh (she/her/hers)
2:55 PM - 3:15 PM Pacific: Screening antifungal compounds for inhibitory action against Ascosphaera apis, the causative agent of chalkbrood. Presenting Author: Alexis Masnjak- University of Florida. Edward Hsieh- USDA-ARS. Michael Simone-Finstrom- USDA-ARS. Elizabeth Walsh (she/her/hers)- USDA-ARS. Cameron Jack- University of Florida - Alexis Masnjak; Edward Hsieh; Michael Simone-Finstrom; Elizabeth Walsh (she/her/hers); Cameron Jack
3:15 PM - 3:30 PM Pacific: Break -
3:30 PM - 3:50 PM Pacific: The paradox of tolerance: Being intolerant of Varroa tolerant bees is necessary for Varroa resistance evolution. Presenting Author: Lewis Bartlett- University of Georgia. Nina Ariadne Sokolov (she/her/hers)- University of California. Xander O'Neill- Heriot-Watt. Andy White- Heriot-Watt. Mike Botts- University of California-Berkeley - Lewis Bartlett; Nina Ariadne Sokolov (she/her/hers); Xander O'Neill; Andy White; Mike Botts
3:50 PM - 4:10 PM Pacific: Exploring vitellogenin variants in U.S. commercial honey bee (Apis mellifera) stocks. Presenting Author: Hasim Hakanoglu- Louisiana State University. Garett Slater- Texas A&M AgriLife Research & Extension Center. Qian Sun- Louisiana State University. Kate Ihle- USDA-ARS Honey Bee Breeding, Genetics and Physiology Lab. Arian Avalos- USDA-ARS - Hasim Hakanoglu; Garett Slater; Qian Sun; Kate Ihle; Arian Avalos

4:10 PM - 4:30 PM Pacific: Adult honey bee queens consume pollen and nectar. Presenting Author: Adam Dolezal- University of Illinois. Ashley St. Clair (she/her/hers)- Corteva Agriscience - Adam Dolezal; Ashley St. Clair (she/her/hers)
4:30 PM - 4:50 PM Pacific: Bridging the gap in honey bee research between academia, extension and outreach. Presenting Author: Janae Becher- Washington State University. Priya Chakrabarti Basu (she/her/hers)- Washington State University - Janae Becher; Priya Chakrabarti Basu (she/her/hers)
4:50 PM - 5:25 PM Pacific: Poster session -
4:50 PM - 5:25 PM Pacific: Deformed wing virus influences honey bee foraging preferences. Presenting Author: Alexandria Payne- United States Department of Agriculture. Joseph E. McCarthy- USDA-ARS. Michael Simone-Finstrom- USDA-ARS. Elizabeth Walsh (she/her/hers)- USDA-ARS - Alexandria Payne; Joseph E. McCarthy; Michael Simone-Finstrom; Elizabeth Walsh (she/her/hers)
4:50 PM - 5:25 PM Pacific: Field comparisons of stock, Varroa, and economics in two commercial honey bee (Apis mellifera) operations. Presenting Author: Elizabeth Walsh (she/her/hers)- USDA-ARS. Arian Avalos- USDA-ARS - Elizabeth Walsh (she/her/hers); Arian Avalos
4:50 PM - 5:25 PM Pacific: High resolution monitoring and analysis of variation in foraging behavior across populations of honey bees during almond bloom. Presenting Author: Arian Avalos- USDA-ARS - Arian Avalos
4:50 PM - 5:25 PM Pacific: Innovative AI and machine learning solutions for monitoring honey bee colony health. Presenting Author: Ashley St. Clair (she/her/hers)- Corteva Agriscience. Vincent Kramer- Corteva. Nitin Kandpal- Corteva - Ashley St. Clair (she/her/hers); Vincent Kramer; Nitin Kandpal
4:50 PM - 5:25 PM Pacific: Insights into winter gut microbiota of managed honey bee colonies across storage environments. Presenting Author: Gagandeep Brar- Bayer Crop Science - Gagandeep Brar
4:50 PM - 5:25 PM Pacific: Potassium ion channels as a pharmacological target for regulation of the honey bee immune response. Presenting Author: Scott T. O'Neal (he/him/his)- FSS, Inc.. Christopher Fellows- Eurofins - Scott T. O'Neal (he/him/his); Christopher Fellows
5:25 PM - 5:30 PM Pacific: Closing remarks. Presenting Author: Elizabeth Walsh (she/her/hers)- USDA-ARS - Elizabeth Walsh (she/her/hers)

Title: Advances in Controlled Environment Agriculture

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, Portland Ballroom 252, OCC
Organizers: Samantha Willden (she/her/hers)- Cornell University; Michael Wolfin- Pennsylvania State University
Categories: Member Symposium; Plant-Insect Ecosystems
Abstract: Controlled Environment Agriculture (CEA) is one of the fastest-growing sectors in U.S. food production. This session will highlight recent advances in CEA that enhance crop productivity and invertebrate management. We will also identify key areas where future research, extension, and policy changes are needed to support this increasingly vital industry.
Tracks: Member Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Samantha Willden (she/her/hers)- Cornell University - Samantha Willden (she/her/hers)
1:35 PM - 1:55 PM Pacific: Evaluation of insect screens on natural enemies in commercial high tunnels. Presenting Author: Carlos Quesada- West Virginia University - Carlos Quesada
1:55 PM - 2:15 PM Pacific: Biocontrol and behavior- developing novel methods to control mushroom flies on controlled environment mushroom farms. Presenting Author: Michael Wolfin- Pennsylvania State University. Malachi Brought- Pennsylvania State University. Afure Ejomah- Pennsylvania State University. Luke Reynolds- Pennsylvania State University. Fatima Diarra- The Pennsylvania State University. Eliudes Marcano- University of Puerto Rico - Michael Wolfin; Malachi Brought; Afure Ejomah; Luke Reynolds; Fatima Diarra; Eliudes Marcano
2:15 PM - 2:35 PM Pacific: LED me hunt! Artificial lighting impacts on the predatory bugOrius insidiosusand its thrips biocontrol. Presenting Author: Morgane Canovas- Universite Laval. Adam Barrada- National Optics Institute. Jean-Franois Cormier- National Optics Institute. Tigran Galstian- Physics dept, Universite Laval. Paul Abram- Agriculture and Agri-Food Canada. Martine Dorais- Plant Research and Innovation Center - Morgane Canovas; Adam Barrada; Jean-Franois Cormier; Tigran Galstian; Paul Abram; Martine Dorais
2:35 PM - 2:55 PM Pacific: Thrips parvispinus biology and management in Canadian greenhouse crops. Presenting Author: Preetpal Singh- Vineland Research Center. Laxmi Khadka- Vineland Research Centre. Taro Saito- Vineland Research Centre. Ashley Summerfield- Vineland Research Centre. Sarah E. Jandricic- Ontario Ministry of Agriculture, Food and Rural Affairs. Cara McCreary- Ontario Ministry of Agriculture. Rose Labbe- Agriculture and Agri-Food Canada - Preetpal Singh; Laxmi Khadka; Taro Saito; Ashley Summerfield; Sarah E. Jandricic; Cara McCreary; Rose Labbe

2:55 PM - 3:05 PM Pacific: Break -
3:05 PM - 3:25 PM Pacific: Developing biocontrol based integrated pest management strategy for CEA tomato pests. Presenting Author: Arash Kheirodin- Texas A&M University. Katerina Graham- Texas A&M University. Subin Neupane- University of Georgia. Albertha J. Parkins- University of Georgia. Jason Schmidt- University of Georgia - Arash Kheirodin; Katerina Graham; Subin Neupane; Albertha J. Parkins; Jason Schmidt
3:25 PM - 3:45 PM Pacific: Applied soil and foliar microbials. Presenting Author: Julie Graesch (she/her/hers)- BioWorks Inc.. Michael Brownbridge- Bioworks - Julie Graesch (she/her/hers); Michael Brownbridge
3:45 PM - 4:05 PM Pacific: Pesticide applications predict bumble bee parasite prevalence and pollination intensity in a commercial tomato greenhouse. Presenting Author: Emily Runnion- The Ohio State University. Frances Sivakoff- The Ohio State University - Emily Runnion; Frances Sivakoff
4:05 PM - 4:25 PM Pacific: Compatibility of two entomopathogenic fungal strains with whitefly biocontrol. Presenting Author: Subin Neupane- University of Georgia. Arash Kheirodin- Texas A&M University - Subin Neupane; Arash Kheirodin
4:25 PM - 4:30 PM Pacific: Closing remarks. Presenting Author: Samantha Willden (she/her/hers)- Cornell University - Samantha Willden (she/her/hers)
4:30 PM - 5:30 PM Pacific: Poster session -
4:30 PM - 5:30 PM Pacific: An IPM plan for protected cucumber production. Presenting Author: Leslie Alejandra Aviles Lopez- Purdue University. Laura Ingwell (she/her/hers)- Purdue University - Leslie Alejandra Aviles Lopez; Laura Ingwell (she/her/hers)
4:30 PM - 5:30 PM Pacific: Bacterial metabolites from entomopathogenic nematode symbionts as novel insecticides for western flower thrips control and their compatibility with generalist predators. Presenting Author: Pedro FS Toledo- University of Georgia. Abolfazl Hajihassani- University of Florida. Bijaya Sapkota- Texas A&M University. Subin Neupane- University of Georgia. Arash Kheirodin- Texas A&M University - Pedro FS Toledo; Abolfazl Hajihassani; Bijaya Sapkota; Subin Neupane; Arash Kheirodin
4:30 PM - 5:30 PM Pacific: Comparison of three insect sampling methods in tomatoes in commercial high tunnels. Presenting Author: Carlos Quesada- West Virginia University - Carlos Quesada
4:30 PM - 5:30 PM Pacific: Developing mite application protocols to control mushroom flies in controlled environments. Presenting Author: Luke Reynolds- Pennsylvania State University. Michael Wolfin- Pennsylvania State University - Luke Reynolds; Michael Wolfin
4:30 PM - 5:30 PM Pacific: Environmental conditions in temperate high tunnel systems. Presenting Author: Marlo Gunnar McCarter- Purdue University. Laura Ingwell (she/her/hers)- Purdue University - Marlo Gunnar McCarter; Laura Ingwell (she/her/hers)
4:30 PM - 5:30 PM Pacific: Evaluating and improving pollination for overwintering strawberries in high tunnels. Presenting Author: Robert Grosdidier- Purdue University. Laura Ingwell (she/her/hers)- Purdue University - Robert Grosdidier; Laura Ingwell (she/her/hers)
4:30 PM - 5:30 PM Pacific: Food webs in high tunnels. Presenting Author: Eleanor L. Meys- University of Illinois. Kacie Athey- University of Illinois - Eleanor L. Meys; Kacie Athey
4:30 PM - 5:30 PM Pacific: Growing upward: Biopesticide efficacy along a vertical gradient. Presenting Author: Samantha Willden (she/her/hers)- Cornell University - Samantha Willden (she/her/hers)
4:30 PM - 5:30 PM Pacific: Impact of high tunnel soil microclimate on commercial entomopathogenic nematode performance. Presenting Author: Julia Wooby- Purdue University. Laura Ingwell (she/her/hers)- Purdue University. Ian Kaplan- Purdue University - Julia Wooby; Laura Ingwell (she/her/hers); Ian Kaplan
4:30 PM - 5:30 PM Pacific: Long lasting insecticides in controlled environments. Presenting Author: Afure Ejomah- Pennsylvania State University - Afure Ejomah
4:30 PM - 5:30 PM Pacific: Screening of entomopathogenic ematodes for control of the invasiveThrips parvispinus. Presenting Author: Binita Sigdel- Tennessee State University - Binita Sigdel
4:30 PM - 5:30 PM Pacific: Syrphid flies in high tunnels. Presenting Author: Allison Jihad Zablah- Purdue University. Laura Ingwell (she/her/hers)- Purdue University - Allison Jihad Zablah; Laura Ingwell (she/her/hers)

Title: Bringing Innovation and Passion to the Legacy of Insect Resistance Management

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, D133-134, OCC
Organizers: Graham Head- Bayer Crop Science; Patti L. Prasifka- Corteva Agriscience; Caydee Savinelli (she/her/hers)- Syngenta
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: Dive into the Legacy of Insect Resistance Management: Experts will share cutting-edge research, share success stories, and provide practical solutions to insect resistance management. Innovation Meets

Passion: This symposium bridges generations of pest management experts, combining classical approaches with groundbreaking technologies. Transforming Pest Management Together - evolving pest resistance.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:50 PM Pacific: IRAC-US - Bringing innovation and passion to the legacy of insect resistance management. Presenting Author: Caydee Savinelli (she/her/hers)- Syngenta. Graham Head- Bayer Crop Science - Caydee Savinelli (she/her/hers); Graham Head
1:50 PM - 2:10 PM Pacific: Agricultural intensification and the evolution of pest control and resistance management. Presenting Author: George Kennedy- North Carolina State University - George Kennedy
2:10 PM - 2:30 PM Pacific: From crisis to coordination: Evolving insect resistance management across crops and time. Presenting Author: Peter Ellsworth- University of Arizona. John Palumbo- University of Arizona. Alfred Fournier- University of Arizona - Peter Ellsworth; John Palumbo; Alfred Fournier
2:30 PM - 2:45 PM Pacific: Break -
2:45 PM - 3:05 PM Pacific: Managing systems and risks from the long view of IPM. Presenting Author: Robert Peterson- Montana State University - Robert Peterson
3:05 PM - 3:25 PM Pacific: Perspective on how farmers adopt new technology as well as who communicates the information to them. Presenting Author: Zachary Brown- North Carolina State University - Zachary Brown
3:25 PM - 3:45 PM Pacific: Insect pest monitoring with FlightSensors: Future uses in resistance management. Presenting Author: Tracy Ellis- FarmSense, Inc.. Eamonn Keogh, Ph.D.- University of California. Shailendra Singh, PhD- FarmSense, Inc.. Leslie Hickle, PhD- FarmSense, Inc.. Cliff Kitayama, Ph.D.- FarmSense, Inc.. Heath Matthews- FarmSense. John Randazzo- FarmSense, Inc.. Shahab Nikkhoo- FarmSense, Inc.. Stefano Tata- FarmSense, Inc. - Tracy Ellis; Eamonn Keogh, Ph.D.; Shailendra Singh, PhD; Leslie Hickle, PhD; Cliff Kitayama, Ph.D.; Heath Matthews; John Randazzo; Shahab Nikkhoo; Stefano Tata
3:45 PM - 4:05 PM Pacific: Where do they go, and from where do they come? Advancing pest forecasting through integrative stable isotope techniques and pest origin mapping. Presenting Author: Eduardo Soares- University of Florida. Silvana Paula-Moraes- West Florida Research and Education Center - Eduardo Soares; Silvana Paula-Moraes
4:05 PM - 4:20 PM Pacific: Break -
4:20 PM - 4:40 PM Pacific: Combining on-the-ground 'smart' pest monitoring with predictive modeling of corn earworm in diverse cropping systems. Presenting Author: Grace Tiwari- Pennsylvania State University - Grace Tiwari
4:40 PM - 5:00 PM Pacific: INSECT NET: Leveraging technology and AI to enhance insect monitoring initiatives. Presenting Author: Natalie Boyle- Pennsylvania State University. Jared Ali- Pennsylvania State University. Bo Cheng- Penn State University. Huanyu (Larry) Cheng- Penn State University. Mehrdad Mahdavi- Penn State University. Vijaykrishnan Narayanan- Penn State University. Harland Patch- Penn State University. Anthony Robinson- Penn State University. Stevie Rocco- Penn State University. Christina Grozinger- Pennsylvania State University - Natalie Boyle; Jared Ali; Bo Cheng; Huanyu (Larry) Cheng; Mehrdad Mahdavi; Vijaykrishnan Narayanan; Harland Patch; Anthony Robinson; Stevie Rocco; Christina Grozinger
5:00 PM - 5:20 PM Pacific: Insecticide resistance management in the genomics era. Presenting Author: Megan Fritz- University of Maryland - Megan Fritz
5:20 PM - 5:30 PM Pacific: Closing remarks. Presenting Author: Caydee Savinelli (she/her/hers)- Syngenta - Caydee Savinelli (she/her/hers)

Title: From the Roots to the Shoots: Impacts of Human and Ecological Legacies on Forest Ecosystems

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, D135, OCC
Organizers: Kayla I. Perry- The Ohio State University; Emily Althoff- University of Missouri; Todd Johnson- Louisiana State University
Categories: Section Symposium; Plant-Insect Ecosystems
Abstract: This symposium aims to highlight the role of ecological and human legacies on the management of forests. We will do this by inviting scientists from diverse career stages, research areas, and lived experiences to give their appraisal of how innovation, passion, and legacy has led to modern practices in management.
Tracks: Section Symposium; Plant-Insect Ecosystems
Presentations:
1:30 PM - 1:35 PM Pacific: Introductory remarks. Presenting Author: Kayla I. Perry- The Ohio State University - Kayla I. Perry

1:35 PM - 1:55 PM Pacific: The lasting ecological and socioeconomic effects of invasive insects in forest ecosystems. Presenting Author: Patrick Tobin- University of Washington - Patrick Tobin
1:55 PM - 2:15 PM Pacific: Death, disease and destruction: How do disturbances affect ecosystem structure and function?. Presenting Author: Kier D. Klepzig- The Jones Center at Ichauway. Kamal J.K. Gandhi- University of Georgia. Jeffery B. Cannon- The Jones Center at Ichauway - Kier D. Klepzig; Kamal J.K. Gandhi; Jeffery B. Cannon
2:15 PM - 2:35 PM Pacific: Beneath the bark: Unpacking tree susceptibility to bark beetles and woodborers under drought. Presenting Author: Shealyn C. Malone- University of Minnesota. Amy Trowbridge- University of Wisconsin-Madison. Drew M. P. Peltier- University of Nevada, Las Vegas. R. Alex Thompson- University of California-Merced. Cameron D. McIntire- US Forest Service. Sara Pinzon-Navarro- University of New Mexico. William T. Pockman- University of New Mexico. Nate G. McDowell- Pacific Northwest National Laboratory. Henry Adams- Washington State University. M. Victoria Lantschner- Instituto de Investigaciones Forestales y Agropecuarias Bariloche. Juan C. Corley- Consejo Nacional de Investigaciones Cientificas y Tecnicas de Argentina. Brian H. Aukema- University of Minnesota - Shealyn C. Malone; Amy Trowbridge; Drew M. P. Peltier; R. Alex Thompson; Cameron D. McIntire; Sara Pinzon-Navarro; William T. Pockman; Nate G. McDowell; Henry Adams; M. Victoria Lantschner; Juan C. Corley; Brian H. Aukema
2:35 PM - 2:55 PM Pacific: Integrating vegetation spectroscopy and plant-insect chemical ecology at multiple spatial scales. Presenting Author: John Couture- Purdue University - John Couture
2:55 PM - 3:05 PM Pacific: Break -
3:05 PM - 3:25 PM Pacific: How tiny insects are transforming western forests (and what we can do about it). Presenting Author: Jackson Audley (he/him/his)- University of California. Christopher J. Fettig- USDA-Forest Service - Jackson Audley (he/him/his); Christopher J. Fettig
3:25 PM - 3:45 PM Pacific: North America's next top modeled outbreak: Evaluating outbreak risk given legacies of anthropogenic climate change. Presenting Author: Michael Howe- Utah State University. Kellen N. Nelson- USDA Forest Service - Michael Howe; Kellen N. Nelson
3:45 PM - 4:05 PM Pacific: Where were the women?: A case study of research and researcher diversity in a slice of forest entomology. Presenting Author: Caroline Kanaskie (she/her/hers)- University of Maine - Caroline Kanaskie (she/her/hers)
4:05 PM - 4:15 PM Pacific: Break -
4:05 PM - 4:45 PM Pacific: Panel discussion –

Title: A Multi-State Update on Brown Marmorated Stink Bug: Battling an Invasive Pest with Science & Policy

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, D136, OCC
Organizers: Md Tafsir Nur Nabi Rashed (he/him/his)- University of Florida; Jasleen Kaur (she/her/hers)- University of Florida; Amanda Hodges- University of Florida
Categories: Member Symposium; Plant-Insect Ecosystems; Science Policy
Abstract: This symposium provides current updates on the invasive Brown Marmorated Stink Bug in U.S. agriculture, highlighting its spread, impact, and management. Speakers will address science-based strategies, regulatory challenges, and multi-state efforts in research, extension, and policy to combat this invasive pest and protect diverse agricultural systems.
Tracks: Member Symposium; Plant-Insect Ecosystems; Science Policy
Presentations:
1:30 PM - 1:40 PM Pacific: Introductory remarks. Presenting Author: Md Tafsir Nur Nabi Rashed (he/him/his)- University of Florida - Md Tafsir Nur Nabi Rashed (he/him/his)
1:40 PM - 2:00 PM Pacific: Pentatomids are the pits: Refining stink bug management in southeastern peach orchards. Presenting Author: Brett Blaauw- University of Georgia - Brett Blaauw
2:00 PM - 2:20 PM Pacific: 10 years of biological control of Halyomorpha halys with Trissolcus japonicus in Oregon. Presenting Author: Claire K. Donahoo (she/her/hers)- Oregon State University. Nik Wiman- Oregon State University. Heather E. Andrews- Oregon State University. Maggie Freeman- Oregon State University. Christopher Adams- Oregon State University - Claire K. Donahoo (she/her/hers); Nik Wiman; Heather E. Andrews; Maggie Freeman; Christopher Adams
2:20 PM - 2:40 PM Pacific: Brown marmorated stink bug (BMSB), Halyomorpha halys, within the complex of Pentatomidae pests within Florida tomato, peach, and various small organic vegetable crops. Presenting Author: Amanda Hodges- University of Florida. Gideon Alake- University of Florida - Amanda Hodges; Gideon Alake
2:40 PM - 3:00 PM Pacific: The podisi group of Telenomus and the taxonomic frontier for biological control of BMSB. Presenting Author: Elijah Talamas- Florida State Collection of Arthropods. Jonathan Bremer- Florida

Department of Agriculture and Consumer Services. Gonzalo Avila- New Zealand Plant & Food Research - Elijah Talamas; Jonathan Bremer; Gonzalo Avila
3:00 PM - 3:20 PM Pacific: A quarter century of BMSB in NJ: Population trends, management, and biological control of a devastating-turned-manageable pest. Presenting Author: Emma Waltman- Rutgers University. Janine M. Spies- Rutgers University. Kaitlin Quinn- Rutgers University. Dean Polk- Rutgers New Jersey Agricultural Experiment Station, Rutgers University. Anne Nielsen- Rutgers University - Emma Waltman; Janine M. Spies; Kaitlin Quinn; Dean Polk; Anne Nielsen
3:20 PM - 3:40 PM Pacific: Break -
3:40 PM - 4:00 PM Pacific: Developing stink bug threshold in soybean using pheromone baited clear sticky traps. Presenting Author: Kevin Rice- Virginia Polytechnic Institute and State University. Kyle Matthew Bekelja- Virginia Tech. Kelley Tilmon- The Ohio State University - Kevin Rice; Kyle Matthew Bekelja; Kelley Tilmon
4:00 PM - 4:20 PM Pacific: Parallel paths: Perspectives on BMSB invasion, management, and collaboration from the eastern US. Presenting Author: Thomas Kuhar- Virginia Polytechnic Institute and State University. Benjamin Aigner- Virginia Tech. Tracy C. Leskey- United States Department of Agriculture - Thomas Kuhar; Benjamin Aigner; Tracy C. Leskey
4:20 PM - 4:40 PM Pacific: Current status and management updates of brown marmorated stink bug in Washington. Presenting Author: Joshua Milnes- Washington State Department of Agriculture - Joshua Milnes
4:40 PM - 5:00 PM Pacific: The brown marmorated stink bug and associated parasitoid species in agricultural systems in Georgia and Alabama. Presenting Author: Patricia Tillman- USDA-ARS. Erin Grabarczyk- Valdosta Univesity. Ted Cottrell- USDA, ARS. Brett Blaauw- University of Georgia. Scott Graham- Auburn University - Patricia Tillman; Erin Grabarczyk; Ted Cottrell; Brett Blaauw; Scott Graham
5:00 PM - 5:10 PM Pacific: Closing remarks. Presenting Author: Amanda Hodges- University of Florida - Amanda Hodges

Title: 10-min: SysEB, Evolution 2 - Lineages Across Space

Time: **1:30 PM - 5:30** PM Pacific
Location: Oregon Convention Center, F150, OCC
Organizers:
Categories: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Tracks: 10-Minute Presentation; Systematics, Evolution, and Biodiversity
Presentations:
1:30 PM - 1:42 PM Pacific: A phylogenetic examination of the Ctenuchina and Euchromiina (Lepidoptera: Erebidae: Arctiinae: Arctiini). Presenting Author: Melissa S. Sisson- Middle Georgia State University. Sydney Winterton- University of North Dakota. Rebecca Simmons- University of North Dakota - Melissa S. Sisson; Sydney Winterton; Rebecca Simmons
1:42 PM - 1:54 PM Pacific: Ant communities from Miocene-Holocene Dominican Republic. Presenting Author: Valentine Bouju- Harvard University - Valentine Bouju
1:54 PM - 2:06 PM Pacific: Blasting through time: A time-calibrated molecular phylogeny of brachinine bombardier beetles. Presenting Author: Raine M. Ikagawa- University of Arizona. Grey Gustafson (he/him/his)- Northern Arizona University. Wendy Moore, PhD (she/her/hers)- University of Arizona - Raine M. Ikagawa; Grey Gustafson (he/him/his); Wendy Moore, PhD (she/her/hers)
2:06 PM - 2:18 PM Pacific: Deltocephalinae leafhoppers (Hemiptera: Cicadellidae) from Pakistan with descriptions of two new genera and five new species. Presenting Author: Hassan Naveed, PhD- Basatin Landscapin LLC - Hassan Naveed, PhD
2:18 PM - 2:30 PM Pacific: Diversification of tropical damselflies in a complex South American landscape. Presenting Author: Fabian Camilo Salgado-Roa- University of Texas. Melissa Sanchez-Herrera- American Museum of Natural History - Fabian Camilo Salgado-Roa; Melissa Sanchez-Herrera
2:30 PM - 2:42 PM Pacific: Break -
2:42 PM - 2:54 PM Pacific: Evaluating the pantropical spread of the lantana leaftier, Orphanostigma haemorrhoidalis, using morphology, DNA barcodes, and citizen science images (Lepidoptera: Crambidae). Presenting Author: Maria Alma Solis (she/her/hers)- USDA-ARS. Matthew J.W. Cock- CABI - Maria Alma Solis (she/her/hers); Matthew J.W. Cock
2:54 PM - 3:06 PM Pacific: Illustrated keys and diagnoses to the Platypodinae (Coleoptera: Curculionidae) genera of the world. Presenting Author: Nathaniel Nicholas Levia- University of Florida. Thomas Atkinson- University of Texas. Andrew Johnson- University of Florida - Nathaniel Nicholas Levia; Thomas Atkinson; Andrew Johnson
3:06 PM - 3:18 PM Pacific: Life in the shadows: The Gnamptogenys mordax group (Hymenoptera: Formicidae). Presenting Author: John T. Longino (he/him/his)- University of Utah. Michael Branstetter- USDA-ARS. Rodrigo

Feitosa- Universidade Federal do Paran. John Lattke- Universidade Federal do Paran. Gabriela Camacho- Museu de Zoologia da USP - John T. Longino (he/him/his); Michael Branstetter; Rodrigo Feitosa; John Lattke; Gabriela Camacho
3:18 PM - 3:30 PM Pacific: Morphometric, distribution, mapping, and molecular analysis of the Angulitermes sp. of termites in various agro-ecological zones of Khyber Pakhtunkhwa, Pakistan. Presenting Author: Maid Zaman, PhDUniversity of Haripur. Imtiaz Ali Khan- Department of Entomology, Faculty of Crop Protection Sciences The University of Agriculture, Peshawar, Khyber Pakhtunkhwa- Pakistan. Abid Farid, n/a- Department of Entomology, Faculty of Physical and Applied Sciences, The University of Haripur, Khyber Pakhtunkhwa- Pakistan. Rasheed Akbar- Department of Entomology, Faculty of Physical and Applied Sciences, The University of Haripur, Khyber Pakhtunkhwa- Pakistan. Fazal Syed- Department of Entomology, Abul Wali Khan University, Mardan, Khyber Pakhtunkhwa- Pakistan. Misbah ullah- Department of Entomology, Faculty of Crop Protection Sciences The University of Agriculture, Peshawar, Khyber Pakhtunkhwa- Pakistan - Maid Zaman, PhD; Imtiaz Ali Khan; Abid Farid, n/a; Rasheed Akbar; Fazal Syed; Misbah ullah
3:30 PM - 3:42 PM Pacific: Multilocus analysis uncovers the evolution of the Rhodniini tribe, vectors of Trypanosoma cruzi. Presenting Author: Diana Carolina Hernandez Castro, PhD- University of South Florida - Diana Carolina Hernandez Castro, PhD
3:42 PM - 3:54 PM Pacific: Phylogenomics, biogeography, and diet evolution of the harvester ant genus Pogonomyrmex. Presenting Author: Leland Carl Graber- American Museum of Natural History. Robert Johnson- Arizona State University. Corrie Moreau- Cornell University - Leland Carl Graber; Robert Johnson; Corrie Moreau
3:54 PM - 4:06 PM Pacific: Break -
4:06 PM - 4:18 PM Pacific: Surprising patterns of unprecedented speciation and hybridization in oakworms (Anisota: Saturniidae) across North America shed light on mechanisms of diversification. Presenting Author: Daniel Rubinoff- University of Hawaii. Richard Peigler- The University of the Incarnate Word. Ryan St Laurent (he/him/his)- Smithsonian National Museum of Natural History. Michael San Jose- University of Hawaii at Manoa - Daniel Rubinoff; Richard Peigler; Ryan St Laurent (he/him/his); Michael San Jose
4:18 PM - 4:30 PM Pacific: Taxonomy and systematics of the American bristle fly genus Xanthophyto Townsend (Diptera: Tachinidae). Presenting Author: John O. Stireman- Wright State University - John O. Stireman
4:30 PM - 4:42 PM Pacific: The forgotten crisis: How the Eocene-Oligocene transition shaped insect evolution? A case study of the Hemiptera: Fulgoromorpha. Presenting Author: Manon Bucher- American Museum of Natural History - Manon Bucher
4:42 PM - 4:54 PM Pacific: Using a total evidence phylogeny and CT-scanning to assess extinction selectivity and niche evolution of Pseudomyrmex (Hymenoptera: Formicidae) on Hispaniola. Presenting Author: Lacie Newton (she/they)- New Jersey Institute of Technology. Saskia Trommelen- New Jersey Institute of Technology. Gianpiero Fiorentino- New Jersey Institute of Technology. Phillip Barden (he/him/his)- New Jersey Institute of Technology - Lacie Newton (she/they); Saskia Trommelen; Gianpiero Fiorentino; Phillip Barden (he/him/his)

Title: Bridging Wings and Wires: A Hands-on AI Field Guide for Entomologists

Time: **2:00 PM - 3:00** PM Pacific
Location: Oregon Convention Center, A106, OCC
Organizers: Tamra Reall (she/her/hers)- University of Missouri; Jody Green, PhD, BCE (she/her/hers)- University of Nebraska-Lincoln; Siavash Taravati- University of California
Categories: Mini Workshop; Machine Learning and AI; Professional Development
Abstract: Level up your AI literacy with a hands-on, game-inspired journey through real-world entomology challenges. You'll explore, experiment, and evaluate generative AI tools with guided missions in research, outreach, and ethics. Leave with practical resources, a field-tested toolkit, and the confidence to use AI with creativity and integrity.
Tracks: Mini Workshop; Machine Learning and AI; Professional Development

Title: Section Leaders Meeting

Time: **2:30 PM - 3:30** PM Pacific
Location: Oregon Convention Center, G129, OCC
Organizers: Becky Anthony, CMP, DES (she/her/hers)- Entomological Society of America; Rosina Romano, CMP, DES- Entomological Society of America; Cindy E. Myers- Entomological Society of America
Categories: Meetings & Events; Committee Meeting
Tracks: Meetings & Events; Committee Meeting

Title: Draw Upon Your Knowledge: Design Sketching Exercises for Instructional Materials

Time: **3:00 PM - 4:00** PM Pacific
Location: Oregon Convention Center, A105, OCC
Organizers: Jack Whisenant (he/him/his)- Cornell University
Categories: Mini Workshop; Professional Development
Abstract: We discuss a variety of exercises + demos to use drawings as a teaching tool for both entomology education and communicating instructions clearly in any professional context.
Tracks: Mini Workshop; Professional Development

Thursday, November 13, 2025

Title: Tour: Mt. Hood Loop Geology and Wine Tour

Time: **9:00 AM - 6:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: Embark on a delightful journey that blends the majestic beauty of Mt. Hood's geology with the exquisite flavors of the Hood River Valley. The day begins with a captivating tour of the historic Timberline Lodge, where you can choose to embark on an optional hike to the renowned Pacific Crest Trail. Indulge in a gourmet buffet lunch amidst the breathtaking scenery of the Cascade Dining Room. As the afternoon unfolds, we'll venture into the Hood River Valley, where a visit to the Stave & Stone Winery awaits, offering a delightful tasting experience. Before returning to Portland, we'll make a brief stop in charming downtown Hood River and marvel at the iconic Multnomah Falls, creating a truly unforgettable day. Cost: $175 per person (20 person maximum) Includes: Transportation, Tour Guides, Buffet Lunch, and Bottled Water.
Tracks: Meetings & Events

Title: Tour: Oregon Coast Tour

Time: **9:30 AM - 5:00** PM Pacific
Location: Oregon Convention Center, Pre-Function Lobby A, OCC
Organizers:
Categories: Meetings & Events
Abstract: Discover the magic of the Oregon Coast on this captivating day trip! You'll be picked up in Portland and whisked away to the picturesque town of Cannon Beach. Explore its charming downtown and marvel at the iconic Haystack Rock, rising majestically from the Pacific Ocean. Immerse yourself in the tranquility of ancient forests as you hike through lush greenery to the secluded Short Sands Beach. Enjoy a delicious lunch and an informative tour at the renowned Tillamook Visitor Center, where you'll learn about the region's rich dairy heritage and perhaps even sample some delectable cheeses! As the day draws to a close, you'll be transported back to Portland, carrying with you cherished memories of your coastal adventure. Cost: $175 per person (20 person maximum) Includes: Transportation, Tour Guides, Lunch, and Bottled Water.
Tracks: Meetings & Events

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