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## **Sponsors of the 2023 PBESA Meeting**

The Officers, Committee Chairs, and Members of the Pacific Branch of the Entomological Society of America wish to thank our sponsors, without whom our annual meeting would not be possible.

## **Platinum Level**



## **Gold Level**





# Silver Level NICHINO AMERICA















Special thanks to Syngenta, Valent, ISK Biosciences, and BEJO Seeds Inc, FMC, Corteva, and GS Long for supporting PB-ESA student activities!

## **Meeting Information**

## **Basics & Logistics**

#### Location

Hilton Motif Seattle 1415 5<sup>th</sup> Ave Seattle, WA 98101 +1 (206) 971-8000 Hotel Website

#### **Code of Conduct**

By attending the 2023 Pacific Branch Meeting, you agree voluntarily to abide by our ethics policy. The full policy may be found online at <a href="mailto:entsoc.org/conduct">entsoc.org/conduct</a>. If you need to file a complaint, please contact Stacie East, ESA's Director of Diversity, Equity, and Inclusion at +1 (301) 731-4535 x3030 or <a href="mailto:seast@entsoc.org">seast@entsoc.org</a>.

### Registration

All participants must register for the meeting. Registration badges are required for admission to all conference functions. The meeting registration desk is located in the Emerald Ballroom Foyer.

Registration will be open for check-in (preregistered attendees) and for on-site registration at the following times:

Sunday	. 2:00 PM – 6:00 PM
Monday	. 7:30 AM – 4:00 PM
Tuesday	. 7:30 AM – 4:00 PM
Wednesday	7:30 AM - 9:00 AM

For more information, please visit the <u>PBESA</u> 2023 Conference website.

#### Schedule

Schedule changes and other information of general interest will be posted at the PBESA registration desk. Refer to the on-line program at the PBESA 2023 Conference website for the current schedule.

### **Employment Opportunity Center**

Employers are invited to post job announcements and job seekers are encouraged to post their CVs on the designated board in the Emerald Ballroom Foyer. Please bring enough copies of your documents for distribution (no photocopy service will be provided).

# Recording, Photography, & Social Media Policy

PBESA requests that attendees not take videos during sessions because they are disruptive to the presenters. If the presenter has granted permission by adding the "Photograph OK" logo, you are welcome to take photos, otherwise, please refrain from taking photos during talks. If you wish to take photographs of a poster, please check for the "Photograph OK" logo on the poster or contact the poster presenter for permission. If the presenter has granted permission to share information about their presentation/poster on social media by adding the "Social Media OK" logo, you are welcome to share the allowed content on social media.

Photography OK

Social Media OK

NO Photography

NO Social Media

PBESA reserves the right to use photographs and videos taken during the meeting for informational and promotional purposes. Thank you for your cooperation.

#### **Lost & Found**

Lost and found items may be turned in and retrieved at the Registration Desk in the Emerald Ballroom Foyer.

## **Presenter & Moderator Instructions**

## **Guidelines for Speakers &**

#### **Moderators**

Speakers and moderators will follow standard procedures and practices for ESA meetings. Moderators are responsible for maintaining the schedule, by not starting any presentation prior to its scheduled time, and by not allowing a speaker to exceed the allotted time. If a presentation is canceled, the moderator must wait to begin the next presentation until its scheduled time. If there are problems with the computer/projector, or other equipment, please come to the Registration Desk.

#### **Poster Presentations**

Poster Size: Posters must be contained within the 48 x 48 inch space provided. The poster must NOT exceed the size limit. Posters should be hung in their assigned space according to the poster number assigned. Bring your own Velcro strips or tacks to secure your display to the poster boards. All posters will be displayed in the 4th Floor Pre-Function Area from 1:00 PM – 6:00 PM on the day assigned.

#### Setup and Removal:

Students

Setup: Monday, April  $3^{rd}$  11:00 AM - 1:00 PM Removal: Monday, April  $3^{rd}$  6:00 PM - 8:00 PM Students should be prepared to discuss their poster with judges from 4:30 PM - 6:00 PM while judging is underway.

#### General

Setup: Tuesday, April 4<sup>th</sup> 11:00 AM – 1:00 PM Removal: Tuesday, April 4<sup>th</sup> 6:00 PM – 8:00 PM

ALL Poster presenters are encouraged to be present at their posters on Monday (Students) or Tuesday (General) from 4:30 PM to 6:00 PM during the Social Hour with Poster Presenters.

### **Powerpoint Presentations**

Speakers who present submitted papers (Student Competition or General Session) must bring their PowerPoint files on a USB drive to the Registration Desk (Emerald Ballroom Foyer) preferably the day before their scheduled session. Student Competition and General TMP speakers must have their talks uploaded by 10:00 AM on the day of their talk. Mac users, please make sure your presentation file will be compatible with PC computers. Student volunteers will upload the file, and you will be provided a chance to look over the presentation and ensure that it has transferred correctly.

Speakers who are presenting in symposium sessions can upload their talks using two methods: (1) upload to google drive using the link provided by your session organizers; or (2) bring their PowerPoint files on a USB drive to the Registration Desk <u>at least 2 hours before the</u> start of the session.

Questions about audiovisual needs can be directed to Todd Murray at <a href="mailto:tmurray@wsu.edu">tmurray@wsu.edu</a> prior to the conference, or by visiting the registration desk during the conference. In particular, speakers with presentations that link to audio or video files are requested to provide advance notice to the session organizers/moderators.

# **Session Moderators & Student Competition Judges**

Symposia session organizers, volunteer moderators, and judges for the student poster and paper competitions should review moderator guidelines and judging instructions. All judges should submit their rankings online or meet in the Operations Room (First Hill) at 5:30 PM on Monday April 4<sup>th</sup> to finalize the student competition evaluations. Contact Heather Andrews at <a href="heather.andrews@oregonstate.edu">heather.andrews@oregonstate.edu</a> with any questions.

# Special Meetings & Events Plenary Session

We are pleased to present a Plenary Session by Dr. Merrill Peterson titled "There and Back Again: An Entomologist's Tale" on Sunday, April 2<sup>nd</sup> from 6:00 PM – 7:00 PM in Emerald Ballroom 3.

# PBESA Executive Committee Meeting

The Executive Committee will meet Sunday, April 2<sup>nd</sup> 4:00 PM – 5:00 PM in the First Hill Boardroom.

### **Entomology Games**

Preliminary Round: April 3<sup>rd</sup>, 5:00 PM – 6:00 PM in Emerald Ballroom 3. We will hold a pub-trivia style preliminary round (3 rounds with 10 questions each) where both student competitors and anyone interested in participating can partake in the fun.

Traditional Buzzer-Style Finale: April 4<sup>th</sup>, 8:00 PM – 10:00 PM in the Emerald Ballroom 1 & 2.

The top two teams will receive \$2,000 to represent the Pacific Branch at the Annual Meeting in National Harbor, MD this fall.

# **Opening Session & Preliminary Business Meeting**

The combination opening session/preliminary business meeting will be held from 8:00 AM – 12:00 PM on Monday, April 3<sup>rd</sup> in Emerald Ballroom 1 & 2.

#### **Social Hour with Poster Presenters**

Join us for a social hour with student poster presenters on Monday (April 3<sup>rd</sup>) and general poster presenters Tuesday (April 4<sup>th</sup>) from 4:30 PM – 6:00 PM. Posters will be displayed in the Emerald Ballroom Foyer.

#### **Photo Salon**

The Photo Salon will be held Monday, April 3<sup>rd</sup> 4:30 PM – 6:00 PM. The submitted photos will be on rotation on the monitor in the Emerald Ballroom Foyer. This event is organized by Joshua Milnes (jmilnes@agr.wa.gov). The Photo Salon features cash prizes and printed photos. This is a great opportunity to see important or interesting insects, invasive species, native pollinators, natural enemies, and the artistic talents of PBESA entomologists.

#### **PBESA Mixer**

PBESA 2022-2023 President Alix Whitener will host a reception for all registered PBESA 2023 attendees on Monday, April 3<sup>rd</sup> 6:00 PM – 8:00 PM in the Emerald Ballroom Foyer and Emerald Ballroom 1.

#### **Awards Luncheon**

The PBESA 2023 Awards Luncheon will be held on Tuesday, April  $4^{th}$  12:00 PM - 1:30 PM in Emerald Ballroom 1 & 2. Your full conference registration includes admission to the luncheon.

#### **Elevator Talks**

The annual 'Elevator Talks' will happen on Tuesday, April 4<sup>th</sup> from 2:00 to 2:45 p.m. in Pioneer.

- How would you react if you suddenly found yourself on an elevator with the ESA President or other prominent person?
- Could you explain your research in the time it takes to reach your floor?

You will be given 1 minute to describe your project/research to a prominent person. There will be no slides, but a substitute for a 'cocktail napkin' will be provided for drawing, if necessary.

Please contact Emily Rampone (<a href="mailto:Emily.rampone@wsu.edu">Emily.rampone@wsu.edu</a>) or Kellen Pautzke (<a href="mailto:Kellen.pautzke@wsu.edu">Kellen.pautzke@wsu.edu</a>) for questions.

### **Texting Competition**

The annual texting competition will be held Tuesday, April  $4^{th}$  3:00 PM - 3:45 PM in Pioneer.

Test your entomological knowledge and texting skills in this fast and fun competition. Participants earn points for accurately and quickly texting correct answers to insect trivia questions. There will be 3 rounds increasing in difficulty and in point value. Participants must supply their own mobile phones and are responsible for texting costs.

To register your mobile phone or other texting device, text your name to 614-699-1638 (Google Voice number).

Please contact Riley Reed (<u>riley.reed@wsu.edu</u>) or Berenice Romero (<u>berenice.romero@usask.ca</u>) for questions.

### **Entomolympics**

The second annual Entomolympics will be held on Tuesday, April 4<sup>th</sup> 4:00 PM – 5:00 PM in Pioneer.

This event is a series of games that tests your skills as an entomologist/ecologist and is open to anyone from students to faculty. These games include:

- Who can assemble the bug dorms the fastest?
- Remember 3-legged races? How about 6legged races!?

Come as a team of 5 (max) or create a team on site! Please contact Dowen Jocson (dowen.jocson@wsu.edu) for questions.

## Student & Early Career Professional Employment Fair

The Pacific Branch will host a Student and Early Career Professional Employment Fair in a panel format on Tuesday, April 4<sup>th</sup> 5:30 PM – 7:00 PM in Pioneer.

Representatives from industry, academia, and government sectors will be there to answer your questions, provide advice, and highlight some current openings in entomology.

A networking social will follow after the panel in the same room. Please bring your questions, CV, and business cards.

Please contact Aldo Hanel (<u>aldo.hanel@wsu.edu</u>) or Dowen Jocson (dowen.jocson@wsu.edu).

# 2024 Kickoff Meeting / Final Business Meeting

The final business meeting will be Wednesday, April 4<sup>th</sup> 8:00 AM – 9:00 AM in Emerald Ballroom 1 & 2.

### **Continuing Education Credits**

Continuing Education Credits (CEC) have been applied for in CA, OR, and WA.

CA credits approved: 1 for What's New in Industry, 3.5 for the Understanding Pesticides Symposium and 1.75 for the Western Vegetable Crops symposium

Look for updates of which sections will count towards continuing education credits at the registration desk. Contact Allison Walston for more information (Allison.Walston@valent.com).

# Hotel & Local Information Refreshments

Coffee and tea will be available during the breaks Monday-Wednesday. Light snacks will be served at the Welcome Reception. The Awards Luncheon on Tuesday is included with registration for all participants.

#### **Hotel Amenities**

Food and Beverage: Frolik Kitchen & Cocktails offers breakfast and dinner daily with fresh seafood and memorable skyline views. Breakfast hours are from 7:00 AM—11:00 AM, dinner hours are from 4:00 PM—10:00PM Tues-Thurs, 3:00 PM—11:00 PM Fri-Sat.

We offer Happy Hour Tuesday - Thursday 4 pm - 6 pm and Friday 3 pm - 6 pm. Test your skills on our rooftop Curling Chalet: https://resy.com/cities/sea/rooftop-curling-at-frolik

Internet: There is complimentary Wi-Fi available in public spaces to meeting participants. Please be courteous when using the internet during your stay. Refrain from streaming large files, such as video, so that everyone will have access to the internet.

Network - *Motif Meetings* Password - *Motif2023* 

Parking: Parking is available at the hotel for \$50/night with in-and-out privileges for guests.

*Transportation:* Airport Express Shuttle Services available along with Lyft, Uber and taxi

#### **Activities & Attractions**

- Pike Place Market
- Space Needle
- Burke Museum of Natural History and Culture
- Pacific Science Center
- Museum of Pop Culture
- Seattle Aquarium and the Seattle Great Wheel
- Olympic Sculpture Park
- Discovery Park
- The Elliott Bay Book Company
- Woodland Park Zoo
- Waterfront Park
- Gasworks Park, with view of the houseboats
- Skagit Valley Tulip Festival
- University of Washington Arboretum
- Too many brew pubs, arboretums and gardens to mention!

Day and short hikes include Rattlesnake ledge (37 mi away) and Tiger Mountain (35 mi away) likely will not have snow in April. Seward Park in south Seattle is a nice city park walk along the shores of Lake Washington.

A suggested list of additional activities and attractions can be found by accessing this link: <u>Visit Seattle</u>

## **2023 PBESA Meeting Organizers**



**Alix Whitener** President



**Erin Wilson Rankin & Anne Leonard Program Co-Chairs** 





**Amanda Koppel** Secretary/Treasurer



**Todd Murray, Stephanie Rill & Autumn Maust** 



Operations/Local arrangements



**Cindy Myers ESA Staff** Associate Director of Partnerships, **Programs & Events** 



**Becky Anthony ESA Staff** Associate Director of Programs & Meetings

### **PBESA Leadership and Committee Information**

**Executive Committee Members** 

President: Alix Whitener

Incoming President: David Haviland

President Elect: Silvia I. Rondon

Past President: W. Rodney Cooper

Secretary/Treasurer: Amanda Koppel

Members At Large:

2020-2023: Navneet Kaur, Emily Symmes

2021-2024: Josh Milnes, Rebecca Schmidt-Jeffris

2022-2025: Colin Brent, Stephen Onayemi

2023-2026: Dong-Hwon Choe, Berenice Romero

**PBESA Representatives** 

Governing Board: Mark Wright

ECP: Jacqueline Serrano

Awards & Honors: Gina Marie Angelella

Science Policy: Ricky Lara

Diversity & Inclusion: Adekunle Adesanya

Education & Outreach: Grace Tiwari

Entomology Games: Tolulope Morawo

Student Affairs: Mason Russo

P-IE: Surendra K. Dara

SysEB: Katja C. Seltmann,

**Planning Committees** 

Program Chairs: Erin Rankin, Anne Leonard

Operations/Local Arrangements: Todd Murray,

Stephanie Rill, Autumn Maust

Site Selection: Rodney Cooper, Alix Whitener

Auditing: Tad Gantenbein

Nominations and Awards Canvassing: Tobin

Northfield

Awards Selection: Sean Prager

Continuing Education Credits: Allison Walston,

Amber Vinchesi-Vahl, Mel Thayer

Entomology Games: Tolulope Morawo

Photo Salon: Josh Milnes, Mike Bush, Jillian

Foutz, Warren Wong,

Student-Organized Activities: Aldo Hanel, Dowen Jocson, Riley Reed, Kendal Singleton

Student Competition: Heather Andrews

Student Travel Awards: Amber Vinchesi-Wahl,

Karol Krev

## **2023 Pacific Branch Awards**

### C.W. Woodworth Award

Dr. Robert E. Page, Jr

### Professor Emeritus and Chair Emeritus, UC Davis



Professor Emeritus Robert Page joined Arizona State University in 2004, after retiring as Professor Emeritus and Chair Emeritus at the University of California Davis, to be founding director of the School of Life Sciences. He served as provost of Arizona State University (2013-2015) and dean of the College of Liberal Arts and Sciences (2011-2013). His research on honey bee behavior and genetics is outlined in his publications "Queen Rearing and Bee Breeding" (1997, with Harry H. Laidlaw), "The Spirit of the Hive," Harvard University Press (2013) and "The Art of the Bee", Oxford University Press (2020). His 230+ research papers have

been cited more than 20,000+ times). He is an elected member of the American Academy of Arts and Sciences, the Brazilian Academy of Science, Leopoldina -- the German National Academy of Science, and the California Academy of Science. He was awarded the Humboldt Research Prize, is a Fellow of the Entomological Society of America, and recipient of both the Eastern and Western Apicultural Society Research Awards. Professor Page retired in 2019.

## John Henry Comstock Graduate Student Award Dowen Jocson

### **Washington State University**



Dowen Jocson is a Ph.D. candidate at Washington State University with a tentative graduation date of May 2023. Dowen is advised by Dr. David Crowder and Dr. Elizabeth Beers. She received her M.S. in Biology from Saint Louis University in 2017 looking at the effects of temperature on the vibrational mating songs of a treehopper species. Her doctoral research is focused on the vibrational communication of pear psylla and the evaluation of using vibrations or acoustics in a mating disruption strategy for controlling pear psylla populations. Her research will be the first to describe *Cacopsylla pyricola's* vibrational mating signals of both males and females of the species. Her research, both her master's thesis and Ph.D.

dissertation, has been featured in the media, such as Good Fruit Grower, Capital Press, Scientific American, and St. Louis Public Radio. She is a USDA NIFA predoctoral fellow, an ESA Science Policy Fellow, and was an ARCS Foundation fellow. She was also awarded the ARCS Dorothy L. Simpson Leadership award in 2021. She has placed 1<sup>st</sup> in numerous Student TMP Competitions at PB-ESA and ESA. Dowen also organized the first-ever Entomolympics during the 2022 PB-ESA in Santa Rosa, where she helped put together the student activities, employment fair, and a symposium. The WSU Department of Entomology recognized her as the 2022 Outstanding Ph.D. Student of the Year and was the college's 3-minute thesis winner in 2020. During her time as a graduate student, she served as the President of the Entomology Graduate Student Association in 2020 and 2021, Vice President in 2022, and was a founding member of the department's DEI committee.

# Student Leadership Award Stephen Onayemi

#### **Washington State University**



Stephen Onayemi is a highly accomplished Ph.D. student in the Entomology department at Washington State University Irrigated Agriculture Research and Extension Center in Prosser. His research focuses on using mating disruption as an alternative integrated pest management (IPM) strategy and mitigating insecticide resistance. Stephen's work in this field has already earned him numerous accolades, including a prestigious Foundation for Food and Agriculture Research (FFAR) Fellowship, a competitive, national professional development program sponsored by Syngenta and FFAR. However, it's not just Stephen's academic and research achievements that set him apart. He is also deeply committed to service and leadership within and beyond his university and the ESA communities.

For instance, he has taken on various leadership roles, including serving as the Prosser Graduate Student Association's Academic Coordinator and a Graduate Student and Professional Association (GPSA) senator. Through these positions, he has advocated for the welfare of graduate students, organized academic seminars, and collaborated with other student leaders to plan activities that enhance the graduate experience at WSU.

# Dr. Stephen Garczynski Undergraduate Research Scholarship Gary Ge

### **University of California-Davis**



Gary Ge became interested in Lepidopterans at a very young age. Everything about these creatures was fascinating. Gary would always look for caterpillars, collect them and try to raise them to adulthood. During a trip to Tibet, Gary encountered his first snow Apollo butterfly (*Parnassius*). Given their vastly different biology and ecology compared to the other members of the swallowtail family, he fell in love with this alpine/arctic specialist genus immediately. However, with climate change, these unique butterflies, along with many other alpine specialist insects, are becoming one of the most threatened arthropod groups. Gary is

interested in dedicating his current and future research to a better understanding of the biology and ecology of *Parnassius* species to ultimately contribute to the conservation and management of alpine ecosystems.

### **Distinction in Student Mentoring Award**

Dr. Louie H. Yang

**Professor, University of California-Davis** 



Louie H. Yang is an ecologist at the University of California, Davis. He is interested in how ecological communities combine complex, coordinated and changing interactions over time. He is particularly interested in the effects of climate change on species interactions. Louie has studied a wide range of different organisms, but has maintained a particular focus on the ecology of insects, including periodical cicadas and butterflies.

## **Distinguished Achievement in Teaching Award**

**Dr. Jessica Purcell** 

Associate Professor, University of California-Riverside



Jessica Purcell is an Associate Professor and Associate Entomologist at University of California, Riverside. Jessica teaches courses in evolutionary biology for non-STEM majors, ecology and population genetics for Entomology graduate students, and a graduate seminar on sociality and cooperation in insects. She has also mentored more than 20 undergraduate researchers in her laboratory, and regularly works with community college and transfer students with the goal of engaging more students in research activities. Jessica began her position at UC Riverside in 2015. She was a postdoc at the University of Lausanne in Switzerland from 2010-2015 and she completed her PhD at the

University of British Columbia in 2009. Jessica's research focuses on the genetic and ecological drivers of transitions in social organization in arthropods.

## **Plant-Insect Ecosystems Award**

Dr. Quinn McFrederick

Professor, University of California-Riverside



Quinn McFrederick is a Professor and Entomologist at the University of California, Riverside. McFrederick started his position in arthropod symbiosis in 2013, after working as an Assistant Professor at California State University, Fresno from 2012-2013. Before that position, McFrederick was a Postdoctoral Researcher at the University of Rochester and the University of Texas, Austin, a Ph.D. student at the University of Virginia, and a M.A. student at California State University, San Francisco. The McFrederick lab studies symbiosis *sensu lato*, from pathogens to mutualists. The goal of this research is to leverage symbionts to improve pollinator health. This work has contributed to our understanding of how flowers serve as hubs of transmission of both pathogens

and beneficial microbes.

## Medical, Urban, and Veterinary Entomology Award Dr. Lauren Weidner

#### **Assistant Professor, Arizona State University**



Lauren Weidner is an assistant professor in Arizona State University's New College School of Interdisciplinary Arts and Sciences on their West Campus. She obtained her bachelor's degree in forensic science with a focus in molecular biology from John Jay College of Criminal Justice in 2010 followed by her Ph.D. in Entomology from Rutgers University in 2016. Dr. Weidner is currently the president of the North American Forensic Entomology Association (NAFEA) and a Diplomate of the American Board of Forensic Entomology being one of twenty certified in North America. Dr. Weidner's research interests focus primarily on improving the field of forensic entomology in Arizona and the Southwestern United States. Specifically, she is interested in the biodiversity

and species composition of forensically important blow flies throughout Arizona, larval morphology of these insects as well as the impact of different environmental and external facts on blow fly development. Additionally, she examines initial insect activity and colonization in extreme environments.

# Physiology, Biochemistry, and Toxicology Award Dr. Man-Yeon Choi USDA-ARS, Corvallis, OR



Man-Yeon Choi is a Research Entomologist of the USDA-ARS in insect physiology, molecular biology, and chemical ecology, and the development of new IPM tools. Dr. Choi has unraveled the cellular and molecular mechanisms of neurohormones and their receptors involved in insect behavior, physiology, and chemical communication, identified moth and ant pheromones and their biosynthetic pathways, developed RNAi and G-protein coupled receptor tools for destructive pests such as spotted-wing drosophila, thrips, moths, BMSB, fire ants, mosquitoes, and slugs. He first identified the insect PBAN receptor and the pheromone component produced from the male moth leg, and developed a non-toxic and non-nutritive sugar formulation to control dipteran pests. Dr. Choi finally

developed a novel GPCR-based insecticide discovery method to identify bioactive peptides using a phage-displayed peptide library and insect cell expression system. The first proof-of-concept of the technology has been proposed as Receptor Interference (RECEPTORi), that bioactive peptides bind to the target GPCR, thus blocking the key physiological function. The concept and methodology has been developed for decades and is generally applied to all invertebrate pests. Dr. Choi has published 85 research articles/books, including 10 US/international patents. Dr. Choi is an honorary scientist and advisor of Korean Agricultural Science and Technology, serves as an adjunct professor of Oregon State University, and the editorial board/subject editor for six entomological journals, and participates in various scientific advisory groups.

## Systematics, Evolution, and Biodiversity Award

### Dr. Serguei V. Triapitsyn

#### **Curator, University of California-Riverside**



As Curator at the Department of Entomology, University of California, Riverside (UCR), Serguei has been in charge of the Entomology Research Museum and its collections of about 4 million specimens since 1994, after serving as a post-doctoral researcher working on a classical biological control project against beet leafhopper, an invasive pest in California. Serguei is also conducting research on the taxonomy and biology of parasitic Hymenoptera as well as on biological control of various leafhoppers, planthoppers, and mealybugs, mainly by identifying parasitoids, discovering their host associations, and conducting foreign exploration. His areas of expertise are egg parasitoids of Auchenorrhyncha and other insects, and taxonomy and biodiversity of the families Mymaridae,

Trichogrammatidae, Aphelinidae, Encyrtidae, Tetracampidae, and some Eulophidae (Chalcidoidea). He is author or co-author of 9 monographs, >260 peer reviewed journal articles and ~ 90 other publications, in which he described several new genera and numerous new species of parasitic Hymenoptera worldwide. Serguei's particular interest is biodiversity of fairyflies (Mymaridae) in California, the Hawaiian Islands, Argentina, Europe, and Japan.

## Entomology Teamwork Award Dr. Mark Hoddle

#### **Extension Specialist, University of California-Riverside**



The Asian Citrus Psyllid Biological Control Team is comprised of members from the Entomology Department at UC Riverside (Mark Hoddle, Christina Hoddle, Ivan Milosavljević, and Nicola Irivn), California Department of Food and Agriculture (David Morgan and Grace Radabaugh), USDA-APHIS-PPQ S&T (Greg Simmons and Ruth Henderson), and the Citrus Research Board (Raju Pandey) for a total of nine team members from four agencies representing the State of California, the

Federal Government, and private industry. The Asian citrus psyllid (ACP) biocontrol team's efforts targeting ACP for population-level suppression with parasitoids imported from Pakistan, part of the home range of ACP, commenced in September 2010 with exploration efforts for natural enemies in major citrus production areas of Punjab Pakistan. Parasitoids (primarily *Tamarixia radiata*) imported from Pakistan and cleared for release by USDA established readily, spread quickly, and contributed to significant ACP reductions. Impacts have been meticulously quantified and indicate that ACP densities have declined by  $\geq 75\%$  since the first releases of *T. radiata*. CDFA statistics show that just 4,000 trees, all in urban areas, have been identified as CLas positive, this is an infinitesimally small number given the millions of citrus trees in California. Consequently, CLas has not been detected in commercial citrus, finds of ACP in commercial citrus are low and restricted to relatively small areas. No other region that has been invaded by ACP-CLas have gone more than a decade without major outbreaks of HLB wasting tens of thousands of citrus trees. The ACP biocontrol program has contributed largely to this very positive outcome.

## **Pacific Branch Recognition Awards in Entomology**

The Pacific Branch of the Entomological Society of America is pleased to announce the winners of its 2023 awards! Pacific Branch President Alix Whitener reported that the Branch received 22 nomination packets for 14 different awards. Nominees represented 9 different institutions across 5 U.S. states and one other country. Winners were selected by a diverse group of anonymous judges from the Branch. The awards will be presented at Awards Luncheon.

<u>Student Awards</u>			
<b>Award</b> Pacific Branch John Henry Comstock Award	<i>Winner</i> Dowen Jocson	<i>Institution</i> Washington State University	
Pacific Branch Student Leadership Award	Stephen Onayemi	Washington State University	
Pacific Branch Dr. Stephen Garczynski Undergraduate Research Scholarship	Gary Ge	University of California, Davis	
<u>Profes</u>	sional Awards		
<b>Award</b> Pacific Branch C. W. Woodworth Award	<i>Winner</i> Robert E. Page Jr.	<i>Institution</i> University of California, Davis	
Pacific Branch Award for Excellence in Integrated Pest Management	Jon Palumbo	University of Arizona	
Pacific Branch Distinction in Student Mentoring Award	Louie Yang	University of California, Davis	
Pacific Branch Distinguished Achievement in Teaching Award	Jessica Purcell	University of California, Riverside	
Pacific Branch Plant-Insect Ecosystems Award	Quinn McFrederick	University of California, Riverside	
Pacific Branch Medical, Urban, and Veterinary Entomology Award	Lauren Weidner	Arizona State University	
6			

Pacific Branch Physiology, Biochemistry, USDA-ARS (Corvalis, OR) Man-Yeon Choi and Toxicology Award Pacific Branch Excellence in Early Career USDA-ARS (Pullman, WA) Karen C. Poh Award Award for Excellence in Extension **Ayman Mostafa** University of Arizona Cooperative Extension

**Entomology Teamwork Award** Mark Hoddle University of California, Riverside

Serguei Triapitsyn

Pacific Branch Systematics, Evolution, and

**Biodiversity Award** 

University of California, Riverside

## **President Bios**

## President, Dr. Alix Whitener (2022-2023)



After earning her B.S. at Western Washington University and competing on the Women's Rowing Team, Dr. Alix Whitener earned her Ph.D. at Washington State University and currently is the U.S. Field Development Manager for FMC Corporation. Her research interests include integrated pest management, invasive species management, the mitigation of insecticide resistance, and the development of safe and useful new agricultural tools. She has served ESA in multiple capacities, both at the branch and national levels, as a graduate student and as an early career professional. In her previous experience, Alix has served in roles including Career Fair Chair, Program Chair, Fun Run organizer, Entomology Gamesmaster, and co-creator of the Elevator Opportunity for the Pacific Branch, Student Affairs Committee Chair and Student Debates Chair for ESA, and serves on multiple committees both inside and outside our society. During her presidency, Alix is dedicated to addressing

barriers that prevent students and early career professionals from participating in meeting activities, encouraging members who are interested in leadership opportunities to get involved, and helping drive an increase in participation of our membership at the branch level by encouraging creative and relevant symposia topics and formats. Alix and her partner Cy live in Malaga, WA, where they welcomed baby Wyatt in winter 2020.

## **Incoming President, Dr. David Haviland (2023-2024)**



Dr. David Haviland currently serves as the University of California Cooperative Extension entomology advisor for the southern San Joaquin Valley. His primary responsibilities are to conduct research and extension programs that lead to the adoption of integrated pest management practices by farmers that produce more than \$17 billion in agricultural commodities annually in the region. He has been employed in this position for approximately 20 years since earning his M.S. Degree in Plant Protection and Pest Management from UC Davis. In addition to his primary role as a county-based advisor, David is also formally associated with the UC Statewide Integrated Pest Management Program. Advisor Haviland's primary responsibilities are to conduct research and extension programs that lead to the adoption of integrated pest management practices. The focus of his research has been on invasive pests such as

glassy-winged sharpshooter, vine mealybug, spotted wing drosophila, and Gill's mealybug, with the remainder focused on native or established pests such as navel orangeworm, spider mites, and thrips. He has produced more than 400 publications, including 29 peer-reviewed journal articles and another 44 peer-reviewed publications through the University of California. These publications span a wide range of topics that include pest phenology, monitoring, cultural controls, biological control, and various forms of chemical control, such as traditional pesticides, biopesticides, entomopathogens, and mating disruption. David is an accomplished extension entomologist that has given more than 800 invited presentations to primarily farmer and pest control advisor audiences. Included within this

number are 61 presentations to scientific audiences through professional societies such as the ESA. David has given keynote addresses on topics related to his research and extension experiences at conferences in Oregon, Michigan, California, New Jersey, Switzerland, Brazil, Peru, Chile, Australia, and Italy. The successes within David's career have led to a significant level of recognition through individual awards as well as for his role within team efforts. David has received research, extension, or teamwork awards from the PBESA, national ESA, California Department of Pesticide Regulation, UC Division of Agriculture and Natural Resources, the Western Extension Director's Association, Association of Applied IPM Ecologists, and International Integrated Pest Management Symposium.

## President-Elect, Silvia I. Rondon (2024-2025)



Dr. Silvia Rondon is the Oregon State University Integrated Pest Management Center director, and a professor and extension entomology specialist. She received her BA and MS in entomology at the Agraria University in Perú, and a Ph.D. in Crop Sciences from the University of Illinois at Urbana-Champaign. In 2002, she was a Postdoctoral Associate at the University of Florida joining OSU in 2005. Her position at OSU includes Research, Extension, and Administration while managing her program relying on external funding managing over \$12 million in private, state, and federal grants. Her area of expertise is IPM with an emphasis on insect ecology, distribution, population dynamic, plant interactions, and pest control. She has over 123 peer-reviewed scientific and extension papers, book chapters, and non-peer-reviewed publications. She is passionate about DEI activities.

Dr. Rondon has been an ESA member since 1996 starting as a student and then as a professional since 2001. She has served as a judge in multiple occasions (poster and oral presentations), she has organized symposiums at the branch and national level, she has also organized or co-organized the Pacific Northwest Branch Mixer for at least the last 10 years. She organized the first Hispanic/Latin Symposium now on its 10th year. She has been invited as key note speaker for the Hispanic/Latin Symposium in 2022. She is passionate about DEIJ and has served as a member of the ESA DEI group for the last couple of years. She is current part of a sub-committee organizing articles for American Entomologist "Entomology for ALL". She is a senior editor of Environmental Entomology and subject editor of Journal of Economic Entomology. She has won several ESA awards most notably the National IPM Extension Award.

## **Plenary Speaker**

### Dr. Merrill A. Peterson

There and Back Again: An Entomologist's Tale





Merrill A. Peterson is a Professor of Biology at Western Washington University, where he has taught courses in entomology, ecology, and evolutionary biology, has curated the WWU Insect Collection since 1997. He also holds an adjunct appointment in the Department of Entomology at Washington State University. Prior to coming to WWU, Merrill earned his B.S. in Zoology from the University of Washington, Ph.D. in Ecology and Evolutionary Biology from Cornell University, and was a

postdoc in the Department of Entomology at the University of Maryland. His research on insect population ecology, community ecology, population genetics, speciation, and diversity has examined a wide variety of taxa including moths, butterflies, ground beetles, leaf beetles, planthoppers, aphids, ants, gall-making flies, and bees. Most recently, he has focused on making knowledge about insect diversity more broadly available to the public, which he has done through his role in creating and maintaining the Pacific Northwest Moths website (http://pnwmoths.biol.wwu.edu) and through Pacific Northwest Insects, a 520 page field guide published in 2018 by the Seattle Audubon Society. This field guide will be available for purchase after his presentation, where he will also be available for book signings.

Please join us for Dr. Peterson's presentation on Sunday, April 2<sup>nd</sup> from 6:00 PM – 7:00 PM in Emerald Ballroom 3.

## **General Program Schedule**

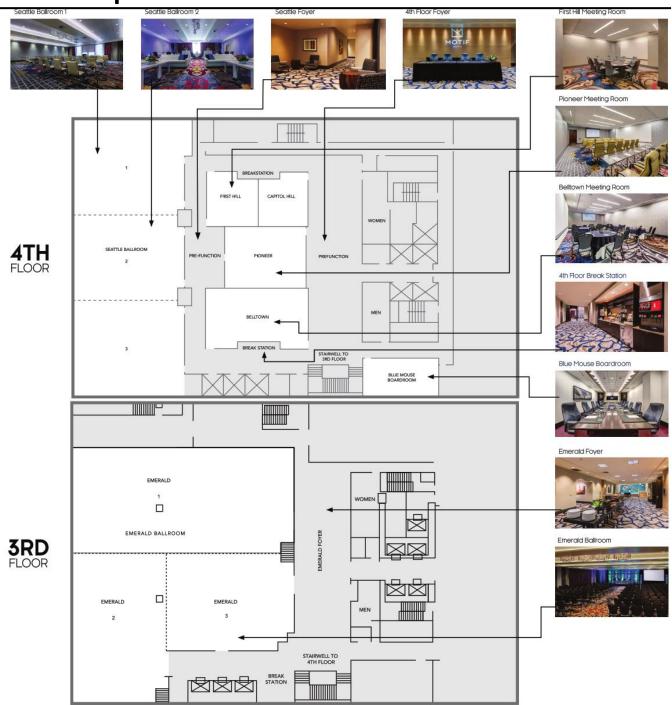
SUNDAY, APRIL 2, 2023		
Program	Time	Location
Operations	8:00 AM - 5:00 PM	First Hill
Registration and Presentation Uploads	2:00 PM - 6:00 PM	Emerald Ballroom Foyer
Executive Committee Meeting	4:00 PM - 5:00 PM	First Hill
Entomology Games Preliminary Round	5:00 PM - 6:00 PM	Emerald Ballroom 3
Opening Plenary	6:00 PM - 7:00 PM	Emerald Ballroom 3
MONDAY, APRIL 3, 2023		
Program	Time	Location
Registration and Presentation Uploads	7:30 AM - 4:00 PM	Emerald Ballroom Foyer
Operations	8:00 AM - 5:00 PM	First Hill
Opening Session & Business Meeting	8:00 AM - 12:00 PM	Emerald Ballroom 1 & 2
Morning Break	10:00 AM - 10:30 AM	Emerald Ballroom Foyer
ESA Leadership Development Opportunities	10:00 AM - 10:30 AM	Emerald Ballroom Foyer
Student Poster Setup	11:00 AM - 1:00 PM	4th Floor Pre-Function Area
PhD and MS Student Posters	1:00 PM - 6:00 PM	4th Floor Pre-Function Area
Undergraduate Student Posters	1:00 PM - 6:00 PM	4th Floor Pre-Function Area
Impact of Insects in our Identities	1:30 PM - 3:30 PM	Emerald Ballroom 1 & 2
Undergraduate Student Ten-Minute Papers Session	1:30 PM - 3:55 PM	Seattle Ballroom 2
Masters Student Ten-Minute Papers Session	1:30 PM - 4:30 PM	Seattle Ballroom 3
Spatial Risk Modeling and Decision Support Systems for IPM	1:30 PM - 4:30 PM	Emerald Ballroom 3
Pacific Branch Building Transboundary Bridges for International Entomology Research	1:30 PM – 5:30 PM	Pioneer
PhD Student Ten-Minute Papers Session	1:30 PM - 5:30 PM	Seattle Ballroom 1

Afternoon Break	2:45 PM - 3:15 PM	Emerald Ballroom Foyer
Current Research Perspectives in Forensic Entomology	4:00 PM – 6: 00 PM	Emerald Ballroom 1 & 2
General Ten-Minute Paper Session 1	4:10 PM – 6:00 PM	Seattle Ballroom 2
Social Hour and Q&A with Student Poster Presenters	4:30 PM - 6:00 PM	4th Floor Pre-Function Area
What's New in Industry	4:45 PM - 6:00 PM	Emerald Ballroom 3
PBESA Mixer	6:00 PM - 8:00 PM	Emerald Ballroom Foyer and Emerald Ballroom 1 & 2
Student Poster Removal	6:00 PM - 8:00 PM	4th Floor Pre-Function Area
Entomology Games Final Round	8:00 PM - 10:00 PM	Emerald Ballroom 1 & 2
TUESDAY, APRIL 4, 2023		
Program	Time	Location
Registration and Presentation Uploads	7:30 AM - 4:00 PM	Emerald Ballroom Foyer
Operations	8:00 AM - 5:00 PM	First Hill
Flathead Borers in Pacific Northwest Orchards and Nurseries	8:00 AM – 11:00 PM	Pioneer
Current IPM Challenges and Solutions in Western Vegetable Crops	8:00 AM - 12:00 PM	Seattle Ballroom 2
General Ten-Minute Paper Session 2	8:00 AM - 12:00 PM	Seattle Ballroom 1
General Ten-Minute Paper Session 3	9:00 AM - 12:00 PM	Seattle Ballroom 3
Writing Your Diversity Statement	9:00 AM - 12:00 PM	Emerald Ballroom 3
Morning Break	10:00 AM - 10:30 AM	Emerald Ballroom Foyer
General Poster Setup	11:00 AM - 1:00 PM	4th Floor Pre-Function Area
Awards Luncheon	12:15 PM - 1:45 PM	Emerald Ballroom 1 & 2
General Poster Session	1:00 PM - 6:00 PM	4th Floor Pre-Function Area
Elevator Talks	2:00 PM - 2:45 PM	Pioneer
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Understanding Pesticides: Regulations, Misuse, and their Role in IPM.	2:00 PM - 4:00 PM	Seattle Ballroom 3
General Ten-Minute Papers Session 4	2:00 PM - 4:00 PM	Emerald Ballroom 3
Emerging Research Questions in Social Insect Genomics	2:00 PM - 5:00 PM	Seattle Ballroom 1
Classical Biological Control of Invasive Pests Infesting Agricultural & Forest Ecosystems	2:00 PM - 6:00 PM	Seattle Ballroom 2
Texting Competition	3:00 PM - 3:45 PM	Pioneer
Entomolympics	4:00 PM - 5:00 PM	Pioneer
General Ten-Minute Paper Session 5	4:10 PM - 6:10 PM	Seattle Ballroom 3
Expand Your Mind, Expand Your Dataset Workshop: Using Qualitative Methods in Entomology	4:15 PM - 6:15 PM	Emerald Ballroom 3
Photo Salon	4:30 PM - 6:00 PM	Emerald Ballroom Foyer
Social Hour and Q&A with General Poster Presenters	4:30 PM - 6:00 PM	4th Floor Pre-Function Area
Student and Early Career Professional Employment Fair	5:30 PM - 7:00 PM	Pioneer
PHEFA: Advancing Public Health Entomology through Education and Networking (Invitation Only	6:00 PM - 7:00 PM	Belltown
General Poster Removal	6:00 PM - 8:00 PM	4th Floor Pre-Function Area
WEDNESDAY, APRIL 5, 2023		
Program	Time	Location
Registration and Presentation Uploads	7:30 AM - 9:00 AM	Emerald Ballroom Foyer
2024 Hawaii Kick off Meeting/ Final Business Meeting	8:00 AM - 9:00 AM	Emerald Ballroom 3
Operations	8:00 AM -12:00 PM	First Hill
Cross Border Research of Invasive Insects in the West	8:00 AM - 12:00 PM	Pioneer

Developing IPM programs in the Pacific Northwest: Cross-Border Collaborations and Success	9:00 AM - 11:30 PM	Seattle Ballroom 2
Japanese Beetle Detection and Control Programs in Western North America: Current Pest Status, Links with Control and Inspection Programs in Infested Regions, Impacts of Climate Change, and Prospects for Long-Term Control, Suppression and Exclusion	9:00 AM - 12:20 PM	Emerald Ballroom 3
Insect Functional Genomics: Impacts across Disciplines	9:00 AM - 1:00 PM	Seattle Ballroom 1
Insecticide Risks to Non-Target Insects: New Approaches, Tactics, and Active Ingredients	9:15 AM - 11:25 AM	Emerald Ballroom 3
Morning Break	10:30 AM - 11:00 AM	Emerald Ballroom Foyer

## **Hotel Map**



## **2023 Annual ESA Meeting Information**



www.entsoc.org/events/ annual-meeting

Entomology 2023 will take place November 5-8, 2023 in National Harbor, MD at the Gaylord National Resort & Convention Center. The theme for Entomology 2023 is Insects and Influence: Advancing Entomology's Impact on People and Policy.

Submissions are now open for the 2023 ESA Annual Meeting!

#### **Important Dates & Deadlines**

**May 15** – Deadline for 10-minute presentations, posters, infographics, and student competitions abstracts

June 1 - Registration & Housing Open

August 15 – Presenters will be notified via email of submissions status

## **2024 PBESA Meeting Information**

## SAVE THE DATE



## 108<sup>th</sup> Annual Meeting of PBESA April 14 – 17, 2024

Waikoloa Beach, Hawaii

Learn more about the Kohala coast at: https://www.gohawaii.com/islands/hawaii-big-island/regions/kohala (credit image to Waikoloa Beach Marriot Resort & Spa)