American Phytopathological Society, Pacific Division

Annual Meeting

Mission Inn
Riverside, California
June 27-29, 2017
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference Overview</td>
<td>3</td>
</tr>
<tr>
<td>Awards winners and student competition participants</td>
<td>4</td>
</tr>
<tr>
<td>Acknowledgements</td>
<td>6</td>
</tr>
<tr>
<td>General meeting information</td>
<td>8</td>
</tr>
<tr>
<td>Schedule</td>
<td>10</td>
</tr>
<tr>
<td>Posters and presenting authors</td>
<td>15</td>
</tr>
<tr>
<td>2017 APS Pacific Division business meeting agenda</td>
<td>18</td>
</tr>
<tr>
<td>Abstracts</td>
<td>19</td>
</tr>
<tr>
<td>Biographies of award recipients</td>
<td>62</td>
</tr>
</tbody>
</table>
CONFERENCE OVERVIEW

Welcome to the 2017 meeting of the Pacific Division of the American Phytopathological Society. The Pacific Division is the regional representation of APS. Eligible members are those members of APS who live in the geographical region of the Pacific Division which includes: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming and contiguous provinces in Canada (British Columbia, Alberta and Saskatchewan).

LOCAL ARRANGEMENTS COMMITTEE

Florent Trouillas, Chair, University of California Davis
Akif Eskalen, University of California Riverside
Alex Putman, University of California Riverside
Kendra Baumgartner, USDA-ARS, University of California Davis
Jim Adaskaveg, University of California Riverside

EXECUTIVE COMMITTEE

President – Soumaila (Soum) Sanogo, New Mexico State University
President-Elect – Kendra Baumgartner, USDA-ARS
Past President – David Gent, USDA-ARS
Secretary-Treasurer – Inga Zasada, USDA-ARS
Divisional Forum Representative – Natalie Goldberg, New Mexico State University
2017 AWARD WINNERS

GRADUATE STUDENT TRAVEL AWARD

XXX

DISTINGUISHED SERVICE AWARD

XX
ACKNOWLEDGEMENTS

We thank the following for their generous gift and financial support of the meeting.

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INFORMATION

- **Addresses and contact information.**
  
  Mission Inn  
  3649 Mission Avenue  
  Riverside, CA 92501  
  951-784-0300

- **Oral presentations.** Oral presentations, unless otherwise noted, are 15 minutes including questions. The agenda is very full and the time limits will be enforced to ensure the meeting stays on schedule. A PC computer, digital projector, laser point, and audio system will be available. Presentations will need to be loaded prior to the morning session on the day a talk will be presented.

- **Poster guidelines.** Guidelines for posters will follow the general guidance given for the APS Annual Meeting (see online). However, the maximum poster dimensions for the Pacific Division meeting are **36" wide x 48" in length.** Poster set-up will occur Wednesday, June 28 between 7:30 and 8:30 AM. Each poster will be assigned a number corresponding to the associated abstract (see program below). Pins will be available at each poster board for hanging.

- **Parking logistics.** Valet parking enter Mission Inn Driveway. Self parking located on the corner of 6th Street and Orange Street at rear of hotel. There is a charge for parking.

- **Wifi** is available with information provided the day of the conference.

REGISTRATION AND INFORMATION DESK

The Registration and Information Desk, will be located in the Mission Inn conference center.

Wednesday, June 28 7:30 to noon

Thursday, June 29 7:30 to noon
PROGRAM SCHEDULE

Tuesday June 27

7:00 AM          Meet at the Bus at the Mission Inn Hotel, Riverside, CA

7:00 - 8:00 AM   Drive to Coachella Valley

8:00 - 9:00 AM   Visit a citrus orchard for branch canker and Hendersonula diseases, Thermal, CA. Presentations by Akif Eskalen Plant Pathologist, CE Specialist, UC Riverside and Joey Mayorquin (Graduate Student at UC Riverside) and Sonia Rios (UCCE Farm Advisor, Riverside and San Diego Counties).

9:00 - 10:00 AM  Visit Vegetable nursery transplantation in Mecca. Presentations by Alex Putman (CE Specialist, UC Riverside) and Jose Aguilar (UCCE Farm Advisor)

10:00-11:00 AM   Visit Coachella Valley Agricultural Research Station. A brief introduction about the research station by Peggy Mauk (Director of Ag-Ops)

11:00 AM - 12:30 PM Lunch at UC Palm Desert Center, Palm Desert, CA. A presentation about strawberry production in Coachella Valley by Gerald Holmes (Cal Poly Strawberry Center Director) and Alex Putman.

12:30 - 1:30 PM  Visit Shields Date Garden (Indio, CA)

1:30 - 2:30 PM   Drive back to Riverside

2:30 - 3:30 PM   Visit Martha Mclean-Anza Narrow Park and Santa Ana River Riparian area for shot hole borer-fusarium dieback disease on ornamental and native trees, Riverside, CA. Presentation by Akif Eskalen.

3:30 - 4:30 PM   Visit CCPP facility in Mt. Rubidoux, Riverside. Presentation by Georgios Vidalakis (Director of CCPP)

4:30 - 4:45 PM   Drive back to Mission Inn, Riverside, CA

6:00 - 8:00 PM   Reception, Mission Inn, Riverside, CA
Wednesday June 28

7:30 – 8:30 AM  Load presentations; hang posters

8:30 – 9:00 AM  Opening and Welcome

  8:30 AM  Soum Sanogo/Florent Trouillas – Welcome

  8:40 AM  Kira Bowen, APS Vice President – Update from APS council

9:00 AM – 4:10 PM Symposium “Emerging diseases in California’s agricultural and natural ecosystems” – Moderator: Mike Matheron

  9:00 AM  Robert Shatters, USDA-ARS – Bactericide use in the fight against citrus greening disease in Florida: Getting them where they need to be when they need to be there

  9:30 AM  Georgios Vidalakis, UC Riverside – Citrus Clonal Protection Program (CCPP) and National Clean Plant Network (NCPN): A model System for prevention of citrus diseases.

10:00 – 10:30 AM  Break

  10:30 AM  Johan Leveu, UC Davis – Citrus leaf microbiota as a prediagnostic tool in HLB management

  10:55 AM  Gitta Coaker, UC Davis - Candidatus Liberibacter asiaticus: conserved effectors and the citrus response

  11:20 AM  Gerald Holmes, Cal Poly – The California strawberry industry in a post-methyl bromide era: A pathological perspective

  11:45 AM  Richard Bostock, UC Davis – Thousand cankers disease of walnut: Current research and status in California

12:10 – 1:45 PM  Lunch Buffet

1:45 – 4:10 PM  Symposium “Emerging diseases in California’s agricultural and natural ecosystems” (continued)

  1:45 PM  Cassandra Swett, UC Davis - Insights into shoot infection biology of Fusarium circinatum in Pinus radiata and the role of wounding in pitch canker epidemiology

  2:10 PM  Mysore Sudarshana, USDA-ARS - Grapevine red blotch disease, an emerging problem to wine grape production in the US
2:35 – 3:05 PM  Break

3:05 PM  Florent Trouillas, UC Riverside - Biology and control of Neofabraea leaf spot and twig dieback, a new threat to the olive oil industry in California

3:30 PM  Akif Eskalen, UC Riverside - Current host range, distribution, and biocontrol of Fusarium dieback-shot hole borers in California.

3:55 PM  Questions/Answers for symposium speaker

4:15 – 5:30 PM  Graduate Student Oral Presentation Competition – Moderator: Kira Bowen

4:15 PM  Erin Galarneau - Interaction of grapevine phenolic compounds and wood-colonizing fungi that cause grapevine trunk diseases

4:30 PM  Morgan Gray - Effects of new Oomycete-specific fungicides on tree health, fruit yields and Phytophthora root rot of citrus

4:45 PM  Stacey Haack - Pre- and post-harvest management of Xanthomonas fragariae to overcome trade barriers of California strawberries

5:00 PM  Chonging Xia - Secretome characterization and correlation analysis reveal putative pathogenicity mechanisms in stripe rust fungus Puccinia striiformis f. sp. Tritici

5:15 PM  Joseph Carrillo - Probe-based multiplex real-time PCR as a diagnostic tool to distinguish two distinct Fusarium spp. associated with Euwallacea spp. in California

5:35 – 6:55 PM  Posters, including student poster competition, social time

7:00 - 9:00 PM  Awards banquet
Thursday June 29

8:00 – 11:45 AM  Graduate Student Oral Presentation Competition (continued) –  
Natalie Goldberg - Multiple new pathogens revealed in a survey of peony diseases in the United States

8:00 AM  Andrea Garfinkel – Multiple new pathogens revealed in a survey of peony diseases in the United States

8:15 AM  Lu Liu - Molecular mapping of stripe rust resistance QTL in Pacific Northwest winter wheat cultivar Madsen

8:30 AM  Elizabeth Deyett - Identifying grapevine microbial endophytes for control of Pierce's Disease

8:45 AM  Yuxiang Li - Virulence and molecular characterization of Puccinia striiformis f. sp. tritici mutants generated using ethyl methanesulfonate

9:00 AM  Albre Brown - Field-testing of pruning-wound protectants for trunk-disease management in California table grapes

9:15 AM  Yi Zhu - Characterization of Alternaria species causing Alternaria leaf spot of cotton in southern New Mexico

9:30 AM  Joey Mayorquin - Chemical management of Shot hole borer (Euwallacea spp.) and Fusarium Dieback, an invasive pest-disease complex in California sycamore

9:45 AM  Paul Lambert - Evidence of active movement in plant pathogenic Rhodococcus isolates

10:00 – 10:30 AM  Break

10:30 AM  Kelley Clark - A CLas effector targets a specific family of secreted proteases in citrus

10:45 AM  Esteban Molina - Evaluation of Phytophthora riparia as a bio-control agent against common diseases on chile pepper

11:00 AM  Daniel Chen - Organic acid sanitizers for re-circulating fungicide solutions that are used in postharvest management of fruit decays

11:15 AM  Arsenio Ndeve - A modified protocol for phenotyping Fusarium Wilt disease resistance in cowpea
11:30 AM  Rodger Belisle - Baseline sensitivities of new fungicides for Phytophthora cinnamomi causing avocado root rot in California

11:45 AM - 5:15 PM  Oral Presentations – Moderator: Kendra Baumgartner

11:40 AM  Parama Sikdar - Management of bull’s eye rot using preharvest and postharvest fungicides

12:00 – 1:30 PM  Lunch and Business Meeting

1:30 - 5:00 PM  Oral Presentations (continued)

1:30 PM  Tyler Dang - Understanding the role of citrus-associated microbes in Huanglongbing infected trees in Florida

1:45 PM  Kendra Baumgartner - Encouraging grape growers to prevent trunk diseases through collaborative research with social scientists, extension specialists, and stakeholders

2:00 PM  Renaud Travadon - Developing a model system for studying the interactions between Vitis vinifera and Eutypa lata

2:15 PM  Andreas Westphal - Efficacy of anaerobic soil disinfestation in reducing plant-parasitic nematodes under nursery conditions

2:30 PM  Shih-Hua Tan - Two citrus viruses encode silencing suppressors to suppress posttranscriptional gene silencing

2:45 PM  Daniel Lawrence - TrunkDiseaseID.org: A molecular database for grapevine trunk pathogen identification

3:00 PM  Fernando Hinnah - Coffee rust risk in Brazil – a multi-factor approach

3:15 PM  Ole Becker - Fluopyram provides effective control against Anguina pacifica in annual bluegrass

3:30 – 3:45 PM  Break

3:45 PM  Mohamed Nouri - Identification and pathogenicity of fungal species associated with canker diseases of pistachio in California

4:00 PM  Phillip Fujiyoshi - Monitoring grapevine trunk diseases in young and mature vineyards in California wine regions

4:15 PM  Sudarsana Poojari - Epidemiology and spatio-temporal distribution of grapevine viruses in British Columbia
4:30 PM  Johanna Del Castillo-Munera - Adapting to water insecurity: Using alternative sources of irrigation water and balancing reduced water use with root disease risk

4:45 PM  Fatima Osman - Streamlining Citrus Clonal Protection Program (CCPP) citrus diagnostics using multiplex qPCR

5:00 PM  Sohrab Bodaghi - The California citrus nursery disease testing program

5:15 PM  Concluding Remarks – Kendra Baumgartner, President, APS Pacific Division
POSTERS AND PRESENTING AUTHORS

** Participant in student poster competition

1. *Pseudosclerotial survival of Monilinia vaccinii-corymbosi (mummy berry disease) in western Oregon* - Jay Pscheidt

2. *Search of a biorational alternative program to chemical soil fumigation for control of wilt diseases in chile pepper in New Mexico* - Phillip A. Lujan

3. *Antifungal activity of volatiles emitted by bacteria isolated from the avocado rhizosphere* - Akif Eskalen

4. *Molecular characterization of Citrus tatter leaf virus isolates and their detection using a novel RT-qPCR assay* - Shurooq Abuhajar

5. *The Citrus Clonal Protection Program- CCPP* - Jinhwan Bae

6. *High-throughput RNA extraction and purification for citrus diagnostics* - Amy Huang

7. *Comparison of three RNA extraction methods for RT-qPCR citrus diagnostics* - Silva Abdulnour

8. *Development of a rapid nanopore diagnostic system (RNDS) for plant pathogens of wheat* - Erin Gunnink Troth

9. *Integrated control of Citrus Huanglongbing (HLB) with trunk injection of plant activators and antibiotics* - Jiahuai Hu

10. **Grower fungicide use patterns for control of gray mold and powdery mildew of strawberry in California** - Scott D. Cosseboom

11. *Comparing methods for inducing root rot of Rhododendron with Phytophthora cinnamomi and P. plurivora* - Angie Mestas

12. **An assessment of plant parasitic nematodes associated with Montana’s wheat and barley fields** - Riyadh Al-Khafaji

13. *Mating types A1 and A2 of different Phytophthora spp. occurring in ornamental nurseries in Mexico* - Alejandro Soto-Plancarte

14. *New reports of downy mildew found on ornamental and native hosts in the western states* - Melodie Putnam

15. *Screening of U.S. mni-core for resistance against Sclerotinia Blight using the detached leaflet and whole plant inoculation methods* - Naveen Puppala
16. Molecular confirmation of homothallism in Claviceps purpurea - Jeness Scott

17. Influence of reactive oxygen species on induction of the Rcs phosphorelay in Pantoea stewartii - Polrit Viravathana

18. Effect of light on sporulation and gene expression in the oomycetes Phytophthora infestans and Phytophthora capsici - Andrea Vu

19. Identification of important regulatory components of host natural defense against Citrus HLB - Chien Yu Huang
2016 APS PACIFIC DIVISION BUSINESS MEETING AGENDA

1. Call to order: Welcome; Announcements on division activities; new officers (Soum Sanogo)

2. Retiree and Necrology report (Soum Sanogo)

3. Reading of minutes of previous business meeting (Inga Zasada)

4. Secretary – Treasurer’s report (Inga Zasada)

5. Division Forum report (Natalie Goldberg)

6. Future meeting sites, dates - proposals (Soum Sanogo)
   a. 2018 suggestions and site nominations
   b. 2018: Potential for joint meeting with Pacific Branch of the Entomological Society of America, mid-June, Tahoe

7. Acknowledgements of volunteers and sponsors (Soum Sanogo)
   a. Officers
   b. Local Arrangements Team
   c. Other local arrangement volunteers
   d. Judges for Student Travel Award
   e. Judges for Graduate Oral Presentation Competition
   f. Invited presenters and special guests
   g. Financial sponsors

8. Other topics from the membership (Soum Sanogo)

9. Handing of the gavel to incoming President Kendra Baumgartner

10. Adjournment (Kendra Baumgartner)