



Program
APS-Pacific Division Meeting 2014
July 8 – 11, 2014
Bozeman, MT

Monday PM and Tuesday AM Arrivals
Hilton Hotel, Bozeman

Tuesday, July 8 (PM)

Field Trip

- 12:30 PM Bus pickup for field trip at Hilton Inn (assemble in lobby at 12:15 PM)
- 12:45 -1:30 Tour Certified Seed Potato Laboratory, MSU campus
- 1:45-2:30 Visit pathology plots, MSU Post Farm - Allen Dyer, Tour Leader
- 3:00-4:00 Tour Schutter Seed Potato Farm in Manhattan MT- Whole certified potato seed production story, and success story on *Fusarium* head blight management in irrigated wheat
- 4:15- 5:00 Tour Wheat Montana Bakery at Three Forks, MT; return to hotel
- 5:00-9:00 **Picnic Social: Graduate Student/Post-Docs:** Hyalite Reservoir (transportation provided; assemble in hotel lobby at 4:45 pm)

Dinner on your own

Wednesday, July 9

6:30-8:30 AM Breakfast – included in registration

8:30 Opening and Welcome – Judith Brown (President), Barry Jacobson (Local Arrangements, Chair)

8:40-12:00 PM Symposium I. Cereal crops: Wheat and Barley

8:40 Jan Leach, Colorado State University - Wheat Genomics: where are we now and what have we learned from rice?

9:20 Marcia McMullin, North Dakota State University - *Fusarium* head blight IPM

Coffee break 10:00-10:30 AM

10:30 Alan Dyer, Montana State University - Genomics of nematode resistance

11:10 Juliet Marshall, University of Idaho – FHB in the arid regions of the west

Noon-1:30 PM Lunch - included in registration

1:30-3:00 Oral Presentations: **Graduate student competition**

1:30 David May, P. Bruckner, A. Dyer, J. Berg, and D. See - Breeding for Root Lesion Nematode Resistance in Montana Winter Wheat

1:45 David Wheeler and D. Johnson - *Verticillium dahlia* infects specific rotation crops of potato in the Columbia Basin, WA.

2:00 Nar Ranabhat, M. Burrows, F. Menalled, and Z. Miller - Risk period of Wheat streak mosaic virus movement on green bridge hosts in Montana

2:15 Marcos Paolinelli-Alfonso, C. Galindo-Sánchez, and R. Hernández-Martínez - Reference genes validation and cutinase relative expression in response to heat shock on the fungus *Lasiodiplodia theobromae*

2:30 Robin Choudhury, S. Koike, K. Subbarao, S. Klosterman, and N. McRoberts - Epidemiology of Spinach Downy Mildew in Coastal California

2:45 Teresa Jardini, and W. Chen - *Sclerotinia sclerotiorum* and *S. trifoliorum* differ in growth rate and environmental acidification

Coffee Break 3:00-3:30

3:30 Habib Batche, C. Valenzuela-Solano, and R. Hernández-Martínez - Production of conidiospores in solid-state fermentation of *Trichoderma harzianum* and *T. asperellum* isolated from grapevine in Baja California.

3:45 Danilo Vera and T. Murray - Occurrence of apothecia of *Oculimacula acuformis* and *O. yallundae* on wheat stubble in the U.S. Pacific Northwest

4:00 Carmen Pol, M. Burrows, and Z. Miller - Chemical control of the wheat curl mite, vector to *Wheat streak mosaic virus*, on spring and winter wheat

- 4:15 Francis Na, D. Wang, M. Twizeyimana, J. Mayorquin, and A. Eskalen - Efficacy of various potential biological control agents for the control of *Fusarium euwallaceae* – a Symbiotic fungus of the polyphagous shot hole borer (*Euwallaceae* sp.)
- 4:30 Gretchen Freed and D. Malvik - Substrates from soybean and corn influence pathogenesis and growth of *Fusarium virguliforme*
- 4:45 Brianna McGuire and W. D. Gubler - Functional microclimate size in powdery mildew epidemiology and impacts for forecasting and disease control
- 5:00 Arturo Quinterro-Ferrer, K. Evans, and A. Karasev - Genetic diversity of the NE-11 strain of *Potato virus Y*

5:30-7:00 Posters; Happy Hour with Cash bar

Poster Session Presenters

- James Noe, P. Brannen, W. Holladay, and G. Jagdale - Management of blueberry replant disease caused by *Mesocriconema ornatum* in the early establishment phase of growth.
- Claudia Nischwitz, B. Rhoads, M. McCullough, and C. Dhiman - Problems confirming zebra chip disease in potatoes
- Debra Inglis, B. Gundersen, C. Benedict, and D. McMoran - Loss of potato tuber yield and quality as a result of infection by *Potato virus Y* under western Washington growing conditions
- Soum Sanogo, P. Lujan, S. Kundu, R. Nelson, and V. Hernandez - Efficacy of mycorrhizal seed treatment and in-furrow application of fungicides for control of *Phytophthora* blight in chile pepper
- Philip Lujan, S. Sanogo, N. Puppala, J. Randall, and J. Idowu - Mycelial growth and pigmentation in *Sclerotinia sclerotiorum* as affected by selected biorational formulations.
- Katherina Castillo, A. Tag, and T. Thomas - The *Magnaporthe grisea* PTH11-Like G protein-coupled receptor PLG1 is required for rice blast pathogenicity
- Soum Sanogo, O. Guerrero, M. Lytle, P. Lujan, and B. Bailey - Activity of three species of *Trichoderma* against *Phytophthora capsici*, causal agent of *Phytophthora* blight in chile pepper
- Paul Langlois - Loop mediated isothermal amplification for detection and identification

of *Xanthomonas translucens* and its pathovars *cerealis*, *poae*, *translucens* and *undulosa*

Jade Florence and J. Pscheidt - Proposed terminology for pseudosclerotial stages of *Monilinia vaccinii-corymbosi*

Rio Stamler, J. Kilcrease, and J. Randall - *Rhodococcus* sp. associated with abnormal 'UCB1' pistachio rootstock in California and Arizona

Shannon Lynch, D. Wang, P. Rugman-Jones, J. Mayorquin, R. Stouthamer, and A. Eskalen - Foamy bark canker: a new disease on coast live oak (*Quercus agrifolia*) in California

Dinner on your own

Thursday, July 10

6:30-8:30 AM Breakfast - included in registration

8:30-10:00 Symposium II. Plant Virus-Vector Complexes in the Western US

8:30 AM - Mary Burrows, Montana State University - *Wheat streak virus* and vector situation for the western US

9:15 AM - Barry Jacobsen, Montana State University - Induced resistance in integrated management of potato viruses

Coffee break 10:00-10:30 AM

10:30 AM - Judith K. Brown, University of Arizona - *Liberibacter solanacearum*: a psyllid-transmitted, endemic *and* exotic, emergent fastidious prokaryotic pathogen of potato and tomato

11:15 AM - Nilsa A. Bosque-Pérez, University of Idaho - Plant viruses alter arthropod vector behavior to enhance their spread

Noon-1:30 PM Lunch – included in registration

Lunch meeting: Judges, Student Competition

1:30-3:00 PM Oral Presentations - Virology and Virus diseases, vectors, Bacteriology, bacterial diseases, vectors

- 1:30 - Alex Karasev, University of Idaho - Recombinant strains of Potato virus Y - a new problem in potato *Plenary Presentation*
- 2:15 - Mohamad Chikh-Ali, S. Gray, and A. Karasev - A mutiplex RT-PCR assay for the detection and accurate identification of the complex strains and recombinants of Potato virus Y
- 2:30 - Jennifer Dahan, B. Thompson, E. Wenninger, N. Olson, and A. Karasev – Monitoring prevalence of *Liberibacter solanacearum* and haplotypes of its insect vector *Bactericera cockerelli* in Idaho potato fields
- 2:45 - Judith K. Brown, T. Rast, and T. Fisher - Transcriptomics and yeast-2-hybrid to identify *Bactericera cockerelli* genes important for *Candidatus Liberibacter solanacearum* circulative, propagative transmission

Coffee Break 3:00-3:30 PM

Oral Presentations: Mycology, Fungal diseases, vectors

- 3:30 - Jeremiah Dung, S. Alderman, D. Walenta, and P. Hamm - Environmental factors influencing airborne ascospore concentrations of ergot in perennial ryegrass and exploratory development of a predictive model
- 3:45 - M. Stanghellini, Mojtaba Mohammadi, and L. Stowell - *Desbotaca arida*: a culturable mycorrhizal ascomycete with a wide host range including Brassica from desert habitats
- 4:00 - Gary Chastagner, K. Coats, A. DeBauw, A. Garfinkel, and P. Holloway - A complex of *Botrytis* species associated with gray mold on peonies
- 4:15 - Soum Sanogo, M. Lytle, S. Diaz, and D. Hartman - Sclerotia production by *Verticillium dahliae*, as affected by selected fungal and bacterial microorganisms

4:30 – 5:30 PM Business Meeting

6:00-7:00 PM Happy Hour with Cash bar

7:00-10:00 PM Awards Banquet (Included in Registration Fee)

Friday, July 11

6:30-8:30 AM Breakfast – included in registration

9:00 - 9:15 Jim Farrar - Western IPM Center grant program

9:15-10:00 AM Symposium III. Food Safety

9:15 - Jackie Fletcher Director, Oklahoma State University - How plant pathologists are involved in food safety

Coffee break 10:00-10:30 AM

10:00 - Trevor Suslow, University of California-Davis - How to manage the pathogens important for safe food

12:00-12:15 PM Acknowledgements, Introduction of next President; Adjourn

Departures