



2017 Potomac Division 73rd Annual Meeting
The American Phytopathological Society
March 22 - 24, 2017
Lakeview Golf Resort and Spa
Morgantown, WV

Meeting Theme: “Changes in Hosts and Pathogens”

WEDNESDAY, MARCH 22, 2017

12:30 – 5:00 PM **Registration**
Grand Ballroom Foyer

1:00 – 3:45 PM **Field trip: Maple syrup production facility**
Meet in front of hotel at 12:45 PM; drive/carpool on own

4:00 – 6:00 PM **Industry/Extension Meeting**
Governor’s Ballroom I
Organizer/Moderator: Hillary Mehl, Virginia Tech

I. Theme: “Changes in Hosts and Pathogens – Emerging Issues and New Approaches to Disease Control”

II. Disease Updates: Extension plant pathologists

III. New Product Updates: Industry

4:00 – 6:00 PM **CAREERS 101 Workshop for Graduate Students & Post-docs**
Governor’s Ballroom II
Topic: “Professional Presentation”
Organizer/Moderator: Bill Schneider, USDA-ARS

6:30 – 9:00 PM **Division Social, Vendor Show, Cash Bar** (Grand Ballroom Foyer)

5:30 – 7:30 PM **Dinner on your own**



THURSDAY, MARCH 23, 2017

7:00 – 8:00 AM **Registration**
Grand Ballroom Foyer

6:45 – 7:45 AM **Breakfast** (*meal included with registration*)
Reflections Ballroom
Students, please have a table with APS President Dr. Murray!

Scientific program, Governor's Ballroom

7:55 – 8:00 AM **Introductions** – Mizuho Nita, Virginia Tech, Winchester, VA

8:00 - 8:10 AM **Welcome** – Cindy Fitch, Associate Dean-WVU Extension Service

8:10 - 9:00 AM **Plenary Speaker: Dr. Tim Murray, Washington State University**
"Resistance to Eyespot in Wheat and its Wild Relatives"

9:00 – 10:30 AM SYMPOSIUM I: Changes in Hosts I: Breeding for Plant Disease Management
Moderator: Mizuho Nita, Virginia Tech

9:00 – 9:30 AM "Rapid Cycle Breeding in Apple for Resistance to Blue Mold"
JAY NORELLI, Appalachian Fruit Research Station, Kearneysville, WV

9:30 – 10:00 AM "Breeding for Disease Resistance in Industry: Goss's Wilt of Corn"
JOSE SANTA-CRUZ, Monsanto

10:00 – 10:30 AM "Breeding Chestnut for Blight Resistance"
JARED WESTBROOK, American Chestnut Foundation, Meadowview, VA

10:30 – 10:40 AM **Break I and Hang Posters**
Grand Ballroom Foyer

10:40 – 12:10 PM SYMPOSIUM II: Changes in Hosts II: Genetically Modified Crops
Moderator: Daniel Panaccione, West Virginia University

10:40 – 11:10 AM "Insights on Engaging on Genetically Engineered Crops"
PAUL VINCELLI, University of Kentucky, Lexington, KY

11:10 – 11:40 AM "The INNATE® Potatoes: A New Disease(s) Protected Potato"
NICOLAS CHAMPOURET, Simplot, Boise, ID

11:40 – 12:10 PM "Food is Plentiful Therefore Farming Is Easy...Right?"
JENNIE SCHMIDT, MS, RD, Schmidt Farms, Inc., Sudlersville, MD



12:10 – 1:10 PM **Lunch and Business Meeting** (*meal included with registration*)
Location: Reflections Ballroom
Welcome address – Mizuho Nita (APS Potomac President)

Scientific program, Governor's Ballroom

1:15 – 3:00 PM GRADUATE STUDENT PAPER COMPETITION PART I

Moderator: Mahfuz Rahman, West Virginia University

- 1:15 – 1:30 PM “Dynamics of Disease Progression and Pressure of Verticillium Wilt Fungi in the Biocontrol of *Ailanthus altissima*”
KRISTEN WICKERT (1); (1) West Virginia University, Morgantown, WV
- 1:30 – 1:45 PM “Survey and Identification of Wine Grape Ripe Rot (*Colletotrichum acutatum* and *C. gloeosporioides* complexes) in Virginia Vineyards”
CHARLOTTE L. OLIVER (1), Mizuho Nita (1); (1) Virginia Polytechnic Institute and State University, Winchester, VA
- 1:45 – 2:00 PM “Integrating Biocontrols in the Management of Foliar Diseases on Turfgrass in the Mid-Atlantic”
CODY BECKLEY (1), Joseph A. Roberts (1); (1) University of Maryland, College Park, MD
- 2:00 – 2:15 PM “Genetic Analysis of the Ergot Alkaloid Biosynthetic Capacity of the Maize Ergot Fungus *Claviceps gigantea*”
PAIGE BRAGG (1), Daniel G. Panaccione (1); (1) West Virginia University, Morgantown, WV
- 2:15 – 2:30 PM “Identification and Characterization of a Novel Ice Nucleation Mechanism in Bacteria”
KEVIN FAILOR (1), Boris A. Vinatzer (1), Caroline Monteil (1); (1) Virginia Tech, Blacksburg, VA
- 2:30 – 2:45 PM “Monitoring and Managing White Mold Disease on Lima Bean in Mid-Atlantic Region, USA”
HABTAMU DEMISSIE (1), Kathryn L. Everts (1); (1) University of Maryland, Salisbury, MD
- 2:45 – 3:00 PM “Evaluation of *Calonectria pseudonaviculata* Discreet Microsclerotia Survival in Compost”
ROBERT HARVEY (1), Donald D. Davis (1), John A. Pecchia (1); (1) Penn State University, University Park, PA
- 3:00 – 3:15 PM **Break II**
Grand Ballroom Foyer



3:15 – 4:45 PM GRADUATE STUDENT PAPER COMPETITION PART II

Moderator: Matt Kasson, West Virginia University

- 3:15 – 3:30 PM “Detection of *Euwallacea validus* on Trees Native to the Eastern United States and Characterization and Pathogenicity of its Fungal Symbionts”
MATT BERGER (1), Matthew T. Kasson (1); (1) West Virginia University, Morgantown, WV
- 3:30 – 3:45 PM “First Report of *Diplodia corticola* Causing Stem Cankers and Associated Vascular Occlusion of Northern Red Oak (*Quercus rubra*) in West Virginia”
Danielle Martin (1), Richard Turcotte (1), Travis Miller (2), Isabel A. Munck (3), Srdan G. Acimovic (4), ANGIE MACIAS (5), Cameron Stauder (5), Matthew T. Kasson (5); (1) USDA Forest Service, Morgantown, WV, (2) West Virginia Division of Forestry, Buckhannon, WV, (3) USDA Forest Service, Durham, NH, (4) Cornell University, Highland, NY, (5) West Virginia University, Morgantown, WV
- 3:45 – 4:00 PM “Management of Downy Mildew of Lima Bean: Chemical Control”
TERENCE MHORA (1), Alden Duckett (1), Nancy F. Gregory (1), Thomas A. Evans (1), Nicole M. Donofrio (1); (1) University of Delaware, Newark, DE
- 4:00 – 4:15 PM “Influences of Seed and Soil on Fungal Communities Associated with Creeping Bentgrass”
JOSEPH DOHERTY (1), Jo Anne Crouch (2), Joseph A. Roberts (3); (1) University of Maryland, Silver Spring, MD, (2) USDA ARS, Beltsville, MD, (3) University of Maryland, College Park, MD
- 4:15 – 4:30 PM “Discovering an Even Stickier Situation with *Erwinia amylovora*”
SARA KLEE (1), Elena Christian (1), Timothy McNellis (1); (1) Pennsylvania State University, University Park, PA
- 4:30 – 4:45 PM “Evaluating the Effect of Increased Salinity on the Growth of Root Pathogens of Dry Beans”
DYLAN LYNCH (1), Joey Cainong (1), Venugopal Kalavacharla (1, 2), Rubella Goswami (3); (1) Delaware State University, Dover, DE, (2) Center for Integrated Biological & Environmental Research, Dover, DE, (3) USDA-NIFA, Washington, DC
- 5:00 – 5:15 PM **APS President's Update to Membership**
Dr. Tim Murray, APS President, Washington State University
- 5:30 – 7:00 PM **Poster Session and Social (Cash bar and snacks)**
Grand Ballroom Foyer
- 7:00 – 10:00 PM **Banquet, Speaker and Awards (meal included with registration)**
Reflections Ballroom
- Special guest speaker: Dr. Sue Tolin, Professor Emerita, Virginia Tech**
“Women’s Roles in Re-shaping APS”



FRIDAY, MARCH 24, 2017

7:00 – 8:15 AM **Breakfast/Student Breakfast with the Symposium Speakers**
(Reserved tables for student breakfast)
(Meal Included with registration) Reflections Ballroom

Scientific program, Reflections Ballroom

8:30 – 10:00 AM **SYMPOSIUM III: Changes in Pathogens: Fungicide resistance**
Moderator: Jim Kotcon, West Virginia University

8:30 – 9:00 AM “Fungicide Resistance of Grape Pathogens in the Trumprocene”
ANTON BAUDOIN, Virginia Tech, Blacksburg, VA

9:00 – 9:30 AM “Challenges and Implications of Fungicide Resistance Management”
TYLER HARP, Technical Development Lead, Syngenta

9:30 – 10:00 AM “Evolution and Mechanisms of Resistance to Multiple Chemical Classes of Fungicides in *Botrytis cinerea*” GUIDO SCHNABEL, Clemson University, Clemson, SC

10:00 – 10:15 AM **Break III**
Reflections Ballroom

10:15 – 12:00 PM **CONTRIBUTED PAPER SESSION**
Moderator: Dongxiu Zhang, ORISE Fellow, USDA-ARS

10:15 – 10:30 AM “QoI Resistance among *Colletotrichum* Species Found in Grapevines”
DIANA MCHENRY (1), Mizuho Nita (1); (1) Virginia Polytechnic Institute and State University, Winchester, VA

10:30 – 10:45 AM “From PAMPs to Pumps: The Case of AcrB”
NOAM ECKSHTAIN-LEVI (1), Brian Kvitko (2), Boris A. Vinatzer (1); (1) Virginia Tech, Blacksburg, VA, (2) University of Georgia, Athens, GA

10:45 – 11:00 AM “Two New Late Blight Resistant Home Garden Varieties of Tomato with Tolerance to Septoria Leaf Spot”
MANNON GALLEGLY (1), Mahfuz Rahman (1); (1) West Virginia University, Morgantown, WV

11:00 – 11:15 AM “Examining the Population Structure of the Cucurbit Downy Mildew Pathogen, *Pseudoperonospora cubensis*, by Host, Location and Time”
EMMA WALLACE (1), Lina Quesada-Ocampo (1); (1) North Carolina State University, Raleigh, NC



11:15 – 11:30 PM “Investigating the Poison Ivy Drupe Microbiome and Avian Phytosanitation”
JOHN G. JELESKO (1), Deepak Poudel (1), Jessica Cahill (1), Regina Hanlon (1),
David G. Schmale III (1), Dana Hawley(2); (1)Plant Pathology, Physiology, and
Weed Science, Blacksburg, VA (2) Biology Department, Blacksburg, VA

11:30 – 11:45 PM “Combining Host Resistance and Hypovirulence to Combat Chestnut Blight”
CAMERON STAUDER (1), Mark Double (1), Matthew T. Kasson (1), William L.
MacDonald (1); (1) West Virginia University, Morgantown, WV

11:45 – 12:00 PM “Infidelity between *Euwallacea ambrosia* Beetles and Their *Fusarium* Partners
Could Spell Trouble for Forest Health”
MATTHEW T. KASSON (1), Matt Berger (1), Teiya Kijimoto (1), Elaina Spahr (1); (1)
West Virginia University, Morgantown, WV

12:00 – 12:05 PM **Departing Comments from the APS Potomac Division President**

Mizuho Nita, Virginia Tech (Winchester, VA)



POSTER PRESENTATIONS

Posters will be displayed in the Grand Ballroom Foyer.

Posters are displayed on Thursday, March 23, 2017. Poster presenters, please hang your posters during Break I (10:30 to 10:40 AM) and take the posters down by the end of the banquet (10 PM).

Authors with an asterisk (*) beside their name are participants in the undergraduate student competition.

“Identification and Characterization of Virulence Genes in *Erwinia amylovora*”

* ELENA CHRISTIAN (1); (1) Pennsylvania State University, University Park, PA

“Disruption of the Genome of Rice Blast to Identify Genes Involved in Production of Reactive Oxygen Species”

* DANIELLE MIKOLAJEWSKI (1), Jessica Pancake (1), Nicole M. Donofrio (1); (1) University of Delaware, Newark, DE

“First Report of Bacterial Leaf Spot of *Dianthus* Caused by *Burkholderia andropogonis* in Virginia”

* ELLA REEVES (1); (1) Virginia Tech Plant Disease Clinic, Blacksburg, VA

“Roles of Alternate Alleles of the Gene *cloA* in Ergot Alkaloid Biosynthesis”

* STEPHANIE ARNOLD (1), Daniel G. Panaccione (1); (1) West Virginia University, Morgantown, WV

“Interaction of Brown Marmorated Stink Bug and Bacterial Soft Rot in Bell Pepper Fruits”

* VALERIE SLONE (1), James B. Kotcon (1); (1) West Virginia University, Morgantown, WV

“Common *Fusarium* spp. Causing Fruit Rots on *Cucumis melo* in the Mid-Atlantic Region of the U.S.”

ROBERT CHERUIYOT KORIR (1, 2), Kathryn L. Everts (1, 2), Shirley A. Micallef (2), Jeffrey Whittington (2); (1) University of Maryland College Park, Lower Eastern Shore Research and Education Center, Salisbury, MD, (2) University of Maryland College Park, College Park, MD

“Development of Viral Vector Based on Grapevine Virus A”

DILYARA GRITSENKO (1), Nurbol Galiakparov (1); (1) Institute of Plant Biology and Biotechnology, Almaty, KAZAKHSTAN

“Phenotyping of a Lima Bean Diversity Panel for Resistance to *Phytophthora phaseoli* race F”

COLIN SCANLAN (1), Terence Mhora (1), Nancy F. Gregory (1), Thomas A. Evans (1), Nicole M. Donofrio (1); (1) University of Delaware, Newark, DE



“Evaluation of Rose Germplasm for Resistance to Rose Rosette Disease”

DANIELLE NOVICK (1), Thomas A. Evans (1); (1) University of Delaware, Newark, DE

“Recent Investigations of Biological Control of Japanese Hops (*Humulus japonicus*) using Endemic Fungal Pathogens”

CRAIG A. CAVIN (1), William L. Bruckart III (2), Jami Michael (3), Emily Smallwood (2); (1) USDA ARS FDWSRU, Frederick, MD, (2) USDA ARS FDWSRU, Fort Detrick, MD, (3) USDA ARS, Fort Detrick, MD

“Both Boxwood Blight Pathogens (*Calonectria pseudonaviculata* and *C. henricotiae*) Can Infect Boxwood Roots”

FARIVAR ESKANDARI (1), Nina Shishkoff (2); (1) FDWSRU ARS USDA, Frederick, MD, (2) USDA ARS FDWSRU, Frederick, MD

“Systemic Infection of *Impatiens balsamina* Through Inoculation of Roots with Vegetative Sporangia of the *Impatiens* Downy Mildew (*Plasmopara obducens*)”

FARIVAR ESKANDARI (1), Nina Shishkoff (2); (1) FDWSRU ARS USDA, Frederick, MD, (2) USDA ARS FDWSRU, Frederick, MD

“Monitoring *Impatiens* Beds for Overwintering of *Plasmopara obducens* (*Impatiens* Downy Mildew) and Development of a Baiting Assay for Soil”

KRISTINE JOHNSON (1), Nina Shishkoff (2); (1) FDWSRU ARS USDA, Frederick, MD, (2) USDA ARS FDWSRU, Frederick, MD

“Screening the Local Population of *Pseudoperonospora cubensis* for Fungicide Resistance in the Mid-Atlantic Region”

JAKE G. JONES (1), Kathrynne L. Everts (1); (1) University of Maryland College Park, Salisbury, MD

“Potential Use of Biosurveillance to Detect Oak Wilt”

Danielle Martin (1), CAMERON STAUDER (2), Heather Smith (1), Craig Larcenaire (1) Richard Turcotte (1); (1) USDA Forest Service, Northeastern Area State and Private Forestry, Morgantown, WV, (2) West Virginia University, Morgantown, WV

“Assessment of the Impacts of Variety and Cropping System on Soybean Vein Necrosis Disease in the Chesapeake Bay Region”

NATHAN KLECZEWSKI (1), Bill Cissel (1); (1) University of Delaware, Newark, DE

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