

CONFERENCE AGENDA

99th Cumberland – Shenandoah Fruit Workers Conference

November 30 & December 1, 2023

Holiday Inn Winchester SE-Historic Gateway

Winchester, Virginia

Thursday, November 30:

8:00 – 9:00 am: Registration

9:00 – 9:10 am: Call to Order

9:10 – 10:10 am: Call of the States

10:10 – 10:30 am: Call of the Industry

10:30 – 10:45 am: Discussion & Break

10:45 – 12:00 am: Plenary Session

Alexandra Roberts, Director of Culture & Compliance, Rice Fruit Company

“Stepping Out of the Field into the Packinghouse”

What fruit researchers need to know outside the field for fruit destined for packinghouses.

Keith Pitts, ProFarm Group

“Gaining EPA Registrations and Revising Registrations, and a USDA Project Named “Climate Smart Ag / IPM Valuation”.

Followed by Audience Q & A

12:00 – 1:00 pm: Lunch

1:00 pm: Concurrent Sessions

Entomology (Ending 5:15 pm)

Horticulture (Ending 5:15 pm)

Plant Pathology (Ending 5:00 pm)

5:30 pm: Mixer (Light refreshments served)

Friday, December 1:

9:00 – 10:00 am: CSFWC Business Meeting (all are invited)

Concurrent Session Agenda (Thursday Afternoon)

Entomology

- 1:00-1:15 **Field Testing Commercially Available *Beauveria bassiana* Biopesticides Against Overwintering Spotted Lanternfly (*Lycorma delicatula*)**
Jason Bielski, Douglas Pfeiffer, and Stefan Jaronski (*Virginia Tech*)
- 1:15-1:30 **Predation of Spotted Lanternfly by Web-Building Spiders Associated with Anthropogenic Structures**
Cara Hodge, Caitlin Barnes, Faith Ketterman, Liam Dardick, Laura Nixon, and Tracy Leskey (*USDA ARS Appalachian Fruit Research Station*)
- 1:30-1:45 **Effects of Spotted Lanternfly Nymphal Feeding on New Jersey Grapes**
Katarzyna Madanlinska and Anne L. Nielsen (*Rutgers University*)
- 1:45-2:00 **Altered Trap Capture of Lepidopteran Pests with Single vs. Combination Pheromone Lures**
Kelly McIntyre, Alejandro Del Pozo (*Virginia Polytechnic Institute and State University*), Arash Rashed (*Iowa State University*), Erin Hodgson, and Kevin Rice (*Virginia Polytechnic Institute and State University*)
- 2:00-2:15 **Controlling Increased Levels of Plum Curculio, *Conotrachelus nenuphar*, in Pennsylvania Apple Orchards**
Kevin Peters (*Pennsylvania State University and Shippensburg University*) and David Biddinger (*Pennsylvania State University*)
- 2:15-2:45 Break & Group Discussion
- 2:45-3:00 **Evaluating Biopesticides for Codling Moth Management in Apples**
Nate Brandt, Abigail Golden, and Kevin B. Rice (*Virginia Tech*)
- 3:00-3:15 **Challenges with Management of Codling Moth, *Cydia pomonella*, During the 2023 Season**
Greg Krawczyk (*PSU Entomology, FREC*), Laura Mellott, Joshua Gery (*PSU, FREC*), and Tyler Seutter (*PSU Entomology, FREC*)

- 3:15-3:30 **Incorporating Existing and Experimental Threshold Sprays into Mating Disruption for Management of Key Lepidopteran Pests**
Laura Nixon, Lee Carper, Taylor Lucas, John Cullum, and Tracy Leskey
(USDA-ARS Appalachian Fruit Research Station)
- 3:30-3:45 **Seasonal Phenology of Plum Curculio using Currently Available Lures**
John Cullum (*USDA-ARS Appalachian Fruit Research Station*), Kevin Peters (*Penn State University Fruit Research & Extension Ctr.*), Torri Hancock, Laura Nixon (*USDA-ARS Appalachian Fruit Research Station*), David Biddinger (*Penn State University*), and Tracy Leskey (*USDA-ARS Appalachian Fruit Research Station*)
- 3:45-4:00 **The Spotted Lanternfly Five-Year Plan: From First Detection to Crop Invasion**
Caitlin Barnes, Laura Nixon, John Cullum, and Tracy Leskey (*USDA-ARS Appalachian Fruit Research Station*)
- 4:00-4:15 **Evaluation of Lepidopteran Lure Easily Obtainable by Consumer Stakeholders**
Tracy Leskey, Laura Nixon, Torri Hancock, John Cullum, and Lee Carper
(*USDA-ARS Appalachian Fruit Research Station*)
- 4:15-4:30 **Updates on Plum Curculio in the Mid-Atlantic**
Anne Nielsen (*Rutgers University*), Tracy Leskey (*USDA ARS*), Chris Bergh (*Virginia Tech*), Robert McDougall (*Rutgers University*), and Brett Blaauw (*University of Georgia*)
- 4:30-4:45 **Validation of a F1 BMSB Adult Emergence Model**
Emily Ogburn and Jim Walgenbach (*North Carolina University*)
- 4:45-5:00 **A Review of Spotted Lanternfly Impacts on Different Hosts**
Douglas Pfeiffer (*Virginia Tech*)
- 5:00-5:15 **Student Presentation Winner Announcement and Award Ceremony**

Horticulture

- 1:00-1:15 **Building a Wine Grape Participatory Breeding Program in the Mid-Atlantic, USA**
Surya Sapkota (USDA ARS)
- 1:15-1:30 **Effects of Postharvest UV Treatment on Honeycrisp Apple Skin Red Coloration Under Different Storage Temperatures**
Xueying Jiang, Yixin Cai (*University of Maryland*), Rohan Tikekar (*University of Maryland*), and Joseph Sullivan (*University of Maryland*)
- 1:30-1:45 **Effects of Pre-Harvest aminoethoxyvinylglycine (AVG) and methocyclopropane (1-MCP) on Honeycrisp Apples Grown in the Mid-Atlantic**
Emily Johnson, Chloe Hinson, Md Shipon Miah, and Macarena Faruch (*University of Maryland*)
- 1:45-2:00 **Investigating the Physiological and Molecular Aspects of Frost Tolerance in Apple (*Malus x domestica* Borkh.) Trees Across Different Rootstocks**
Amolpreet Kaur Saini, Khalil Jahed (*Virginia Tech*), Deisiany Ferreira Neres (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*), Clay Wright, and Sherif M. Sherif (*Virginia Tech*)
- 2:00-2:15 **Striking a Balance: Fruit Coloration vs. Pre-Harvest Drop in Apple**
Mohammad Tipu, Khalil Jahed, and Sherif M. Sherif (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*)
- 2:15-2:45 Break & Group Discussion
- 2:45-3:00 **Effect of Eight Rootstocks on Growth and Productivity of Cresthaven Peach in Pennsylvania**
Jim Schupp and Melanie Schupp (*Penn State Fruit Research and Extension Center*)
- 3:00-3:15 **Growth and productivity of Gala Apple Trees on Geneva Rootstocks**
Jim Schupp, Melanie Schupp (*Penn State Fruit Research and Extension Center*), and Gennaro Fazio (*USDA-ARS Geneva*)

- 3:15-3:30 **Winter Injury in the 2019 NC-140 Gala Planting in Pennsylvania, December 2022**
Jim Schupp and Melanie Schupp (*Penn State Fruit Research and Extension Center*)
- 3:30-3:45 **Principles of Contour Lines Agroforestry**
Thomas Leonard and Sean Dixon-Sullivan (*Contour Lines*)
- 3:45-4:00 **Boosting Honeycrisp Apple Quality: Reflective Groundcovers and Ethylene Management**
Md Shipon Miah, Chloe Hinson (*University of Maryland*), James Schupp (*Fruit Research and Extension Center, Pennsylvania University*), and Macarena Faruch (*University of Maryland*)
- 4:00-4:15 **Apple Thinning with Metamitron in the Southeastern USA**
James Larson, Thomas Kon, and Chris Clavet (*North Carolina State University*)
- 4:15-4:30 **Characterizing the Effects and Interactions of Water Stress and Rootstock on Physiological Responses and Ambrosia Beetle Colonization of Apple**
Melissa Muñoz, Thomas Kon (*North Carolina State University*), and Chris Ranger (*USDA-Agricultural Research Service*)
- 4:30-4:45 **Prohexadione Calcium Does Not Affect Thinning Efficacy of 1-Aminocyclopropane-1-Carboxylic Acid in ‘Golden Delicious’**
Tom Kon, Annie Vogel, Jimmy Larson, and Chris Clavet (*North Carolina State University*)
- 4:45-5:00 **Integrated Precision Agriculture Technologies for Fruit Crop Production**
Long He (*Pennsylvania State University*)
- 5:00-5:15 **Student Presentation Winner Announcement and Award Ceremony**

Plant Pathology

- 1:00-1:15 **Management of Peach Bacterial Spot: Integration of Biorational Bactericides and Cultivar Resistance**
Norman Lalancette and Lorna Blaus (*Rutgers University*)
- 1:15-1:30 **Exploring New Options for Apple Bloosm Blight Management**
Srdjan Acimovic, Matheus Borba (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*), Bryan Berger (*University of Virginia*), and Achala KC (*Oregon State University*)
- 1:30-1:45 **Expanding Fungicide Options for Apple Bitter Rot Management**
Matheus Borba, Emmanuel Sempeles, Julie Wong, Vivien Wong, and Srdjan Acimovic (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*)
- 1:45-2:00 **Systematic Monitoring of Fungicide Resistance in Multiple Postharvest Apple Pathogens in the Mid-Atlantic Area**
Johanny Castro, Nicati Robidoux, Jordyn Hartsock (*Fruit Research and Extension Center, Penn State University*), Wayne M. Jurick II (*USDA-ARS, Food Quality Laboratory*), and Kari Peter (*Fruit Research and Extension Center, Penn State University*)
- 2:00-2:15 **Development and Validation of Ripe Rot Models in Maryland Vineyards**
Shannon Rotella, Scott Cosseboom, and Mengjun Hu (*Department of Plant Science and Landscape Architecture, University of Maryland*)
- 2:15-2:45 Break & Group Discussion
- 2:45-3:00 **Cedar Apple Rust Management with Ipflufenquin-Pyrimethanil Premix**
Emmanuel Sempeles and Srdjan Acimovic (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*)
- 3:00-3:15 ***Neonectria ditissima* an Emerging Problem on Cider Apple Cultivars**
Matheus Borba, Emmanuel Sempeles, Diana McHenry (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*), Christopher Gottschalk (*USDA ARS, Appalachian Fruit Research Station*), and Srdjan

Acimovic (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*)

- 3:15-3:30 **New v-ddPCR for Live *Erwinia amylovora* Cell Detection and Quantification Reveals VBNC Cells in Fire Blight Cankers**
Srdjan Acimovic, Bidhan Dhar (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*), and Ricardo Delgado Santander (*Washington State Univerity*)
- 3:30-3:45 ***Streptomyces* sp. Isolated from European Pears Provides Broad-Range Biocontrol Activity Against Fruit Rot Pathogens of Apples and Pears**
John S. Bennett (*USDA-ARS Appalachian Fruit Research Service, Penn State University*), Breyn Evans, Caitlin Barnes, and Tamara D. Collum (*USDA-ARS Appalachian Fruit Research Service*)
- 3:45-4:00 **Non-Saccharomycetous Yeasts as Biocontrol Agents of Brown and Ripe Rot Causing Pathogens of Wine Grape**
Blaise Jumbam and Mengjun Hu (*University of Maryland*)
- 4:00-4:15 **Fruit Pathology in the Cumberland-Shenandoah Region – A Look Back Through the Past Century of CSFWC Reports**
Phillip Martin (*LAB Services INC*)
- 4:15-4:30 **Evaluating New Programs for Management of Apple Shoot Blight and Fire Blight Cankers**
Matheus Borba, Emmanuel Sempeles, Julie Wong, Vivien Wong, and Srdjan Acimovic (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*)
- 4:30-4:45 **Updates on Shoot Blight and Fire Blight Cankers Management Options on Pear**
Matheus Borba, Emmanuel Sempeles, Julie Wong, Vivien Wong (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*), Christopher Meredith (*Cornell University*), Bidhan Dhar, and Srdjan Acimovic (*Alson H. Smith Jr. Agricultural Research and Extension Center, Virginia Tech*)
- 4:45-5:00 **Student Presentation Winner Announcement and Award Ceremony**