

# 93<sup>rd</sup> Cumberland-Shenandoah Fruit Workers Conference

Nov 30 - Dec 01, 2017

Hilton Garden Inn, Winchester, VA

## CONFERENCE AGENDA

### Thursday, November 30

- 8:00 – 9:00            **Registration** – Pre-registration room
- 9:00 – 9:10            **Call to Order** – 93<sup>rd</sup> Cumberland-Shenandoah Fruit Workers Conference
- 9:10 – 10:10          **Call of the States**
- 10:10 – 10:40        **Call of the Industry**
- 10:40 – 10:50        **Break**
- 10:50 – 12:15        **General Session**  
**Spotted lanternfly, new pest in North America.**  
*Sven-Eric Spichinger, Entomology Program Manager, Pennsylvania  
Department of Agriculture, Bureau of Plant Industry, Harrisburg, PA*
- Forty years of change in agricultural research and challenges moving  
forward.**  
*David A. Rosenberger, Professor Emeritus, Cornell University, HVRL,  
Highland, NY.*
- 12:15 – 1:15          **Lunch**
- 1:15 – 5:15            **Concurrent Sessions**  
Entomology  
Horticulture  
Plant Pathology
- 5:30                    **Mixer**

### Friday, December 01

- 8:00 – 8:45            **Business Meeting**
- 9:00 – 12:00          **Concurrent Sessions continued**

Concurrent Sessions Agenda  
Entomology

Thursday, November 30

- 1:15 – 1:30 **Assessing the presence and distribution of *Trissolcus japonicus* using yellow sticky traps.**  
*Nicole Quinn, T. Leskey and C. Bergh. Virginia Tech, AHSAREC, Winchester, VA.*
- 1:30 – 1:45 **Expanding the range of the samurai wasp, *Trissolcus japonicus*, to NY orchards.**  
*Peter Jentsch, A. Agnello, and D. Acimovic. Cornell University, HVRL, Highland, NY.*
- 1:45 – 2:00 **Potential native egg parasitoid community of brown marmorated stink bug (*Halyomorpha halys* Stål) in organic and conventionally managed fruit orchards in southern PA.**  
*Hillary Peterson, and G. Krawczyk. PSU, Department of Entomology, FREC, Biglerville, PA.*
- 2:00 – 2:15 **Estimating plume reach and trapping area of the brown marmorated stink bug pheromone-baited trap.**  
*Angelita Acebes-Doria, K. Rice, C. Adams, B. Short, J. Miller, L. Gut and T. Leskey. USDA-ARS AFRS, Kearneysville, WV.*
- 2:15 – 2:30 ***Halyomorpha halys* (Hemiptera: Pentatomidae) responses to traps baited with pheromonal stimuli in peach and apple orchards.**  
*Clement Akotsen-Mensah, J. Kaser, T. Leskey, and A. Nielsen. Rutgers University, AREC, Bridgeton, NJ.*
- 2:30 – 2:45 **Zone of attraction and injury of *Halyomorpha halys* baited traps in peach orchards.**  
*Joe Kaser, C. Akotsen-Mensah, A. Rucker, and A. Nielsen. Rutgers University, AREC, Bridgeton, NJ.*
- 2:45 – 3:00 **Factors driving farmscape distribution and relative abundance of brown marmorated stink bug in Mid-Atlantic apple orchards.**  
*Whitney Hadden, T. Leskey, and C. Bergh. Virginia Tech, AHSAREC, Winchester, VA.*
- 3:00 – 3:15 **Spotted lanternfly, *Lycorma delicatula* (White): Potential impact and chemical control in vineyards.**  
*Erica Smyers, M. Saunders, K. Kim, and J. Urban. PSU, Dep. of Entomology, University Park, PA*
- 3:15 – 3:30 **Break**
- 3:30 – 3:45 **Understanding this new threat: What we know and what we are studying on the biology of the Spotted Lanternfly, *Lycorma delicatula*.**  
*Julie Urban. PSU Department of Entomology, University Park, PA.*
- 3:45 – 4:00 **Susceptibility of apples to BMSB damage at different phenological stages.**  
*Steve Schoof, E. Ogburn and J. Walgenbach. NC State University, MHCRC, Mills River, NC.*
- 4:00 – 4:15 **Relationship among BMSB pheromone trap captures, degree-day accumulations and damage to apples.**  
*Jim Walgenbach, S. Schoof, and E. Ogburn. NC State University, MHCRC, Mills River, NC.*
- 4:15 – 4:30 **Impact of IPM-CPR on beneficial insects.**  
*Anne Nielsen, C. Akotsen-Mensah, T. Leskey, C. Bergh, B. Short, B. Blaaw and D. Polk. Rutgers University, AREC, Bridgeton, NJ*
- 4:30 – 4:45 **Tracking insects in the field using lasers and drones.**  
*Kevin Rice, A. Tabb, H. Medeiros, M. Hernandez Virto, and T. Leskey. USDA-ARS AFRS, Kearneysville, WV.*
- 4:45 – 5:00 **Refining IPM programs for the management of San Jose Scale and woolly apple aphid in apple orchards by conserving biological control.**  
*David Biddinger and N. Joshi. PSU FREC, Biglerville, PA.*

Concurrent Sessions Agenda  
Entomology

Friday, December 1

- 9:00 – 9:15 **Mating disruption for control of peachtree borers in small block orchards: Results from a three-year study.**  
*Daniel Frank. West Virginia University, Morgantown, WV.*
- 9:15 – 9:30 **The implied impact of blueberry and cranberry pollination services on pesticide residues in honey bee hives.**  
*Dean Polk and T. Schuler. Rutgers University, Cream Ridge, NJ.*
- 9:30 – 9:45 **Impact of orchard pesticides on Japanese orchard bee adults and larvae through ingestion.**  
*David Biddinger, N. Phan, N. Joshi and E. Rajotte. PSU FREC, Biglerville PA.*
- 9:45 – 10:00 **Trials of Verbenone repellents to prevent black stem borer infestations in apples.**  
*Art Agnello, D. Combs, Mikhail Fisher and A. Spenser. Cornell University, NYSAES, Geneva, NY.*
- 10:00 – 10:15 **Revisiting behaviorally-based management for the plum curculio.**  
*Tracy Leskey, T. Hancock, and B. Short. USDA-ARS AFRS, Kearneysville, WV.*
- 10:15 – 10:30 **Can insecticide-treated netting mitigate *H. halys* issues for homeowners?**  
*Chris Bergh, N. Quinn, and J. Engelman. Virginia Tech, AHSAREC, Winchester, VA.*
- 10:30 – 10:45 **Trapping *Halyomorpha halys* with insecticide treated nets – 2017 trials in PA orchards.**  
*Greg Krawczyk, C. Hirt and H. Peterson. PSU, Department of Entomology, FREC, Biglerville, PA.*
- 10:45 – 11:00 **Break**
- 11:00 - 12.00 **Insecticide efficacy trials discussion (optional)**

Concurrent Sessions Agenda  
Horticulture

Thursday, November 30

- 1:15 – 1:30 **Delayed harvest and extended storage of 'Gloria' peaches.**  
*Hemant Gohil, and D. Ward. Rutgers Cooperative Extension, Gloucester County, NJ.*
- 1:30 – 1:45 **Don't get blindsided by blind wood: apple leader management.**  
*J.D. Obermiller, S. J. McCartney and T. Kon. NC State University, Mills River, NC.*
- 1:45 – 2:00 **Apple orchard training systems influence on yields and returns.**  
*Rob Crassweller, L. Kime and D. Smith. Penn State University, University Park, PA.*
- 2:00 – 2:15 **A cooperative research and education study of the maturity and quality of new apple cultivars under intensive systems.**  
*Christopher Walsh, A. Bisset, K. Hunt, T. Baugher, and N. Young. University of Maryland, College Park, MD.*
- 2:15 – 2:30 **Effects of combined applications of 6-BA and NAA on thinning of 'Fuji' and 'Gala' apples.**  
*Sherif Sherif. Virginia Tech, AHSAREC, Winchester, VA.*
- 2:30 – 2:45 **Five year leaf analysis results for high density apple systems.**  
*Rob Crassweller, T. Baugher and D. Smith. Penn State University, University Park, PA*
- 2:45 – 3:00 **Honeycrisp, bitter pit, and eastern New York: Connecting the spots?**  
*Daniel Donahue, A. Wallis, S. Elone, M. Basedow, and G. Reig. Cornell University, NYSAES, Geneva, NY.*
- 3:00 – 3:15 **Catch-up/Discussion**
- 3:15 – 3:30 **Break**

Concurrent Sessions Agenda  
Plant Pathology

Thursday, November 30

- 1:15 – 1:30 **Rapid apple decline in Pennsylvania: What we know and where we are going.**  
*Kari Peter, K. Nikolaeva and R. Li. Penn State University, FREC, Biglerville, PA.*
- 1:30 – 1:45 **Investigating the role of viruses in rapid apple decline.**  
*Kari Peter, K. Nikolaeva, R. Li and D. Donahue. Penn State University, FREC, Biglerville, PA.*
- 1:45 – 2:00 **Observations on a case of apple decline in the Hudson Valley of New York State.**  
*Daniel Donahue, S. Elone, K. Peter, E. Nikolaeva and R. Li. Cornell University, Geneva, NY.*
- 2:00 – 2:15 **Stress, alcohol, and opportunistic "friends": An update on apple decline in North Carolina.**  
*Sara Villani, J. Walgenbach, N. Calvin, R. Kreis, and S. Schoof. NC State University, MHCREC, Mills River, NC.*
- 2:15 – 2:30 **Biological control summary for fire blight.**  
*Suzanne Slack, C. Outwater and G. Sundin. Michigan State University, East Lansing, MI.*
- 2:30 – 2:45 **The use of low dose prohexadione calcium programs & natural systemic acquired resistance inducers for management of fire blight.**  
*Anna Wallis, M. Choi, K. Ayer and K. Cox. Cornell University, Geneva, NY.*
- 2:45 – 3:00 **High presence of asymptomatic *Erwinia amylovora* infections in apple rootstocks after 2016 epidemic in North-Eastern New York.**  
*Srđan Aćimović, Ž. Pavlović, C. Meredith, A. Wallis, and C. Leffelman. Cornell University, Highland, NY.*
- 3:00 – 3:15 **Comparison of fungicides and bactericides for management of fungal diseases and fire blight on apple.**  
*Norman Lalancette and L. Blaus. Rutgers University, Bridgetown, NJ.*
- 3:15 – 3:30 **Break**
- 3:30 – 3:45 **Efficacy of SDHI-s in mix with surfactants for apple scab control and of bloom sprays of copper, biologicals and Regalia for fire blight control.**  
*Srđan Aćimović, and C. Meredith. Cornell University, Highland, NY.*
- 3:45 – 4:00 **Management of peach bacterial spot: Comparison of antibiotic, copper, and SAR materials.**  
*Norman Lalancette and L. Blaus. Rutgers University, Bridgetown, NJ.*
- 4:00 – 4:15 **Another look at coppers.**  
*Keith Yoder. Virginia Tech, AHSAREC, Winchester, VA*
- 4:15 – 4:30 **Evaluation of copper formulations for season-long disease management in apple.**  
*Brian Lehman and K. Peter. Penn State University, FREC, Biglerville, PA.*
- 4:30 – 4:45 **Bitter rot of apple: A southernmost perspective and five years of new discoveries.**  
*Nicole Gauthier. University of Kentucky, Lexington, KY.*
- 4:45 – 5:00 **Developing a fungicide game plan for the management of *Glomerella* leaf spot and fruit rot.**  
*Sara Villani, K. Johnson, R. Kreis, and C. Justus. NC State University, MHCREC, Mills River, NC.*
- 5:00 – 5:15 **Field trials for ripe rot of grape caused by *Colletotrichum* species in Virginia vineyards.**  
*Mizuho Nita and C. Oliver. Virginia Tech, AHSAREC, Winchester, VA.*

Concurrent Sessions Agenda  
Plant Pathology

Friday, December 1

- 9:00 – 9:15     **Breaking the mold with *Penicillium* spp. comparative genomics.**  
*Wayne Jurick II, USDA- ARS, Beltsville, MD.*
- 9:15 – 9:30     **Random T-DNA mutagenesis in the blue mold fungus reveals new gene(s) modulating apple-fungus interactions.**  
*Wayne Jurick II, H. Peng, V. Gaskins, K. Peter, K. Cox. USDA- ARS, Beltsville, MD.*
- 9:30 – 9:45     **Adaptation to postharvest fungicides in *Botrytis cinerea*.**  
*Wayne Jurick II, V. Gaskins, K. Peter, K. Cox. USDA- ARS, Beltsville, MD.*
- 9:45 – 10:00    **Managing resistance development for SDHI fungicides in *Venturia inaequalis*.**  
*Katrin Ayer, S. Vilani, M. Choi and K. Cox. Cornell University, Geneva, NY.*
- 10:00 – 10:15   **Cherry leaf spot management in the age of resistance.**  
*Cory Outwater, J. Gleason, N. Rothwell, T. Proffer and G. Sundin. Michigan State University, East Lansing, MI.*
- 10:15 – 10:30   **In vitro fungicide screening for *Colletotrichum* species isolated from Virginia vineyards.**  
*Charlotte Oliver and M. Nita. Virginia Tech, AHSAREC, Winchester, VA.*
- 10:30 – 10:45   **Highlights of 2017 fungicide testing on apples.**  
*Keith Yoder, A. Cohran, B. Royston, S. Kilmer and A. Kowalski. Virginia Tech, AHSAREC, Winchester, VA.*
- 10:45 – 11:00   **Break**
- 11:00 – 11:15    **The potential of sanitation treatments to reduce inoculum of *Penicillium expansum* on bin surfaces.**  
*Wayne Jurick II, V. Gaskins, M. Choi and K. Cox. USDA- ARS, Beltsville, MD.*
- 11:15 – 11:30    **Use of fruit bags to manage grape diseases in Virginia vineyards.**  
*Mizuho Nita, C. Oliver and A. Wong. Virginia Tech, AHSAREC, Winchester, VA.*
- 11:30 – 11:45    **Biological control for grapevine crown gall by nonpathogenic *Rhizobium vitis* strain ARK-1**  
*Akira Kawaguchi. National Agricultural and Food Research Organization, Japan.*
- 11:45 – 12:00   **Evaluation of *Rhizobium vitis* ARK-1, a biological control agent for crown gall of grapevine, using *R. vitis* isolates from Virginia vineyards.**  
*Alexander Wong and M. Nita. Virginia Tech, AHSAREC, Winchester, VA.*