20th Ornamental Workshop on Diseases and Insects
Change Is All Around Us

Plant Pathology Program

Kanuga Conference Center
Hendersonville, NC
October 24-27, 2016

Monday: October 24, 2016
Evening
4:00-6:00
Registration – Kanuga Lake Inn, Cunningham Lobby
6:00 – 7:00
Dinner
7:30 –10:00
Social – Rocking Chair Lounge

Tuesday: October 25, 2016
Morning

Meeting Commencement and Welcome – Balthis-Rodwell Building

9:00
Welcome & Announcements: Steve Frank – North Carolina State University

Plenary Session of Keynote Talks

9:15
Mitigating the effects of warming, drought, and pests on urban trees. Adam Dale – University of Florida.

10:15
Break

10:30

11:30
Rose Rosette: A continuing battle! Mark Windham, Alan Windham, & Frank Hale – University of Tennessee.

Afternoon

Plant Pathology Sessions – Balthis-Rodwell Building

1:30
Challenges in Identifying Mushrooms & Conks on Trees. D.D. Miller, Davey Institute, Davey Tree Expert Company (20 min)

An Evaluation of Ganoderma Species Associated with Dead and Declining Trees: Shedding Light on a Taxonomic Nightmare. A. Loyd, University of Florida/Bartlett Tree Research Lab; R. Blanchette, University of Minnesota; J. Smith, University of Florida (20 min)

Phytoplasma Diseases-Palms. K. Ong, Texas A&M (20 min)

2:30
Break

2:45
Troubles in the Trees (continued)
Recent Cases of Oak Wilt in the U.S. D. Miller – Davey Institute; M. Daughtrey, K. Snover-Clift Cornell University (20 min)

Stalking Pear Trellis rust on Long Island. M. Daughtrey, Cornell University (20 min)

Lives of Mildews
Impatiens Downy Mildew: The Role of Oospores in the Life-Cycle. N. Shishkoff, ARS/USDA and M. Daughtrey, Cornell University (30 min)

Joint Pathology & Entomology Session – Balthis-Rodwell Building

4:00
Submitted Poster Session (Titles at the end of the program).

Evening
Joint Pathology & Entomology Session– Balthis-Rodwell Building

7:00
Extension Technology Showcase: Mobile apps, web pages, and hands-on workshop tools. Show off new apps, books, or other new resource with 10 minute presentations.


Great Lakes Early Detection Network app. Cliff Sadof – Purdue University.

Deliver your message with Social Media: Challenges, Surprises, Impact, Pitfalls. Alan Windham & Frank Hale – University of Tennessee.

8:00
Social – Rocking Chair Lounge

Wednesday: October 26, 2016

Morning
Joint Pathology & Entomology Program – Balthis-Rodwell Building

9:00

10:00
Invasive species response kit. Joseph LaForest – Southern IPM Center & University of Georgia (Bugwood); Charles Bargeron & Rebekah Wallace - University of Georgia (Bugwood).

10:30
Break

Plant Pathology Session– Balthis-Rodwell Building
Moderator: Francesca Hand

11:00
Some like it hot (and some do not)
Preventing the spread of invasive plant pathogens from nurseries into the environment using heat treatment: lessons learned from Phytophthora ramorum, causal agent of Sudden Oak Death. Wolfgang Schweigkofler, Dominican University of California (20 min)

Thermal Inactivation of Calonectria pseudonaviculata, the Causal Agent of Boxwood Blight. Megan Miller and Marc Cubeta, NCSU (30 min)

The Perils of Resistance....
Fitness Costs of Fungicide Resistance? Exploring Management Options for Pythium Root Rot caused by Mixed-Strain Populations of Pythium aphanidermatum in Commercial Poinsettia Production Systems. Emma Lookabaugh and Barbara Shew, NCSU (30 min)

Afternoon
Free Time!
Mushroom foray at Dupont Forest. Led by Charlotte Caplan from the Asheville Mushroom Club with assistance from Andrew Loyd. Meet in parking lot by the gift shop at 1:30. Carpools needed.

Hiking at Dupont Forest. Meet in parking lot by the snack shop at 1:30. Carpools needed.
Plant Pathology Program

Visit Asheville, breweries, napping, whatever else you want. On your own (don't forget dinner at 6:00).

**Evening**

7:00  
**Diagnosticians Unite!** This session is an opportunity for diagnosticians to show off their weirdest or most worrisome samples in 3-5 minute rapid presentations.  
Tom Creswell – Purdue University  
Nancy Gregory – University of Delaware  
Fulya Baysal-Gurel – Tennessee State University  
Emma Lookabaugh – North Carolina State University  
Margery Daughtrey – Cornell University  
Gail Ruhl – Purdue University  
Clarissa Balbalian – Mississippi State University  
Melodie Putnam – Oregon State University  
Debbie Miller – Davey Institute  
Aaron Palmateer – University of Florida  
John Olive – Auburn University.

8:00  
**Social** – Rocking Chair Lounge  
Pest Costume Contest and Moon Pie decorating contest! Come dressed as your favorite pest or disease to be judged by your peers.

**Thursday: October 27, 2016**

**Morning**

Plant Pathology Session– Gooch Building  
**Moderators : Inga Meadows and Emma Lookabaugh**

9:00  
**Industry updates** – Industry representatives to provide updates on products, labels, etc.  
*Update from BASF.* Kathie Kalmowitz – BASF.  
*Reinventing Seasoned Technology.* Mark Brotherton – SePRO Corporation.  
*Update from Bayer.* Jake Doskocil – Bayer CropScience.  
*Update from Bioworks.* Matthew S. Krause – Bioworks.  
**Others welcome also.** Let Steve Frank know.

9:30  

10:00  
**GMOs (the natural way)**  
*Agrobacterium: Promiscuous Plasmids Perpetuate Perplexity.* M.L Putnam, A. Weisberg, E. Davis II, and J. Chang, Oregon State University (20 min)
Lobelia erinus and Agrobacterium: A case study. C.Y. Warfield, Ball Horticultural Company (20 min)

Grasses, Fruit, and Bothersome Boxwoods: A Little Hodgepodge!
Recent advances in knowledge on the fruit rot disease of Winterberry holly. S. Lin, N.J. Taylor, F. Peduto-Hand, The Ohio State University (20 min)

Infection of Ornamental Grasses by Sclerotinia sclerotiorum. M. A. Grabowski and D.K. Malvick, University of Minnesota Extension (20 min)

Boxwood dieback- Current Status and Future Research. R. Singh, LSU (20 min)

Diagnostic Tales
Investigating Rhododendron Decline on the Blue Ridge Parkway. Mary Ann Hansen, Virginia Tech (10 min)

Dwarfism and gigantism in Crustum lunatus” - Nina Shishkoff, ARS/USDA. (10 min).

Afternoon
Moderator: Fulya Baysal-Gurel

1:30
Taking (bio)control of the situation…
Best Experimental Practices for Trials with Biopesticides. M. Krause, Bioworks Inc. (15 min)

Biocontrol on Canada thistle in a certified organic Maryland nursery with Puccinia punctiformis. D.L. Clement, W. Bruckart, E. Smallwood, S. Black, and M. Harmel, University of Maryland (15 min)

Villainous Viruses
Update on Plantago asiatica mosaic virus in lilies. K. Rane, University of Maryland and J. Hammond, USDA ARS Beltsville (20 min)

Agdia’s New TCDVd AmplifyRP test. E. Kmieciak, Agdia (20 min)

Regulatory Affairs
Challenges of Serving Growers in a Regulatory Environment. J. Olive, Auburn University (20 min)

3:00
Break

Joint Pathology & Entomology Program– Gooch Building

3:30
Joint Extension and Education Sharing Session- 10 minute presentations

Meet the Southern IPM Center: Facilitating IPM through Technology and Support. Danesha Seth-Carley – North Carolina State University & Joe LaForest – University of Georgia

Destroying the Indestructible: A Pest and a Pathogen of Vinca species. Meg Williamson – Clemson University.


American Floral Endowment: Supporting the floriculture industry. Terril Nell – American Floral Endowment.

Evening
7:30
Social – Rocking Chair Lounge

Poster Titles

Rose rosette resistance trials. Madalyn Shires – Texas A&M

Pathogenicity, Decay Potential and Biology of Ganoderma spp. Associated with Dead and Declining Trees in the Southeastern United States. Andrew Loyd – University of Florida/Bartlett Tree Research Lab; Robert Blanchette – University of Minnesota; Jason Smith – University of Florida.

Exploring the combined utility of host selection and fungicide applications for control of Pythium root rot on poinsettia. Emma Lookabaugh & Barbara Shew – North Carolina State University.

Extension Outreach Tools for Invasive Pests and Diseases. Mary Kay Malinoski & Dave Clement – University of Maryland Extension; Charles Bargeron – University of Georgia.

Attraction of adult walnut twig beetle to volatiles of black walnut and Geosmithia morbida – the causal agent of thousand cankers disease. Bridget Blood – Purdue University; William Klingeman – University of Tennessee; Matt Ginzel – Purdue University; Denita Hadziabdic – University of Tennessee.


Can forests take the heat? Managing pests and ecosystem services in a changing climate. Steve Frank, Elsa Youngsteadt, Adam Dale & Emily Meineke – North Carolina State University.
Evidence points to homothally in the Impatiens downy mildew. Nina Shishkoff – ARS/USDA, Foreign Disease/Weed Science Research Unit.

Germination of oospores of Plasmopara obducens and characterization of its megasporangia. Nina Shishkoff – ARS/USDA, Foreign Disease/Weed Science Research Unit.


Sentinel Plant Network: increasing early detections through training & outreach. Rachel McCarthy – Cornell University; Daniel Stern – American Public Gardens Association; Michael Hill – Purdue University; Marc Fuchs – Cornell University; Casey Sclar – American Public Gardens Association; Eileen Luke – Purdue University; Martin Draper – USDA-NIFA.

Spread and Management of Crapemyrtle Bark Scale. Erfan Vafaie, Michael Merchant, Mengmeng Gu & Xiaoya Cai – Texas A&M University.


Optimizing natural biological control to manage the invasive crape myrtle bark scale, Acanthococcus lagerstroemiae, on crape myrtle in the landscape. Frank Hale – University of Tennessee.

Plant Problem Educational Display. Purdue Plant and Pest Diagnostic Lab.

Trends in Diagnostics of Ornamentals in the NCSU Plant Disease and Insect Clinic. Inga Meadows – North Carolina State University.