

TUESDAY AFTERNOON, FEBRUARY 24
POSTER SESSION – SHEET BEND (POWERHOUSE, 3RD FLOOR)
3:00 – 6:00 PM

WEDNESDAY MORNING, FEBRUARY 25
OPENING SESSION – BALLROOM

8:15 – 10:00 AM

Moderator: Nathan Havill, USDA Forest Service, Northern Research Station, Hamden, CT

8:15 AM Welcome. **Nathan Havill**, USDA Forest Service, Northern Research Station, Hamden, CT. **Christie Millhouse**, North American Invasive Species Management Association (NAISMA), Monona, WI

MIKE MCMANUS MEMORIAL KEYNOTE PRESENTATIONS

8:30 AM The Tree Species in Peril breeding program. **Jennifer Koch**
USDA Forest Service, Northern Research Station, Delaware, OH

9:15 AM What parts of invasive species science and management can we leave to AI, and what parts will remain our job? **Jiri Hulcr**
University of Florida, Entomology and Nematology Department, Gainesville, FL

10:00 – 10:30 AM **BREAK**

RESEARCH REPORTS

10:30 – 11:50 AM

Moderator: Andreas Linde, University for Sustainable Development, Eberswalde, Germany

10:30 AM Disentangling drivers of distinct thermal biology: the curious case of larch casebearer. **Samuel Ward**¹, Brian Aukema², Spencer Stout², Joel Sharbrough³

¹The Ohio State University, Columbus, OH, ²University of Minnesota, Saint Paul, MN, University of California, Santa Barbara, CA

10:50 AM Research progress on the Asian longhorned beetle infestation in South Carolina. **Courtney Johnson**¹, Lindsey Stone², Caleb Davis², R. Talbot Trotter³, Will Scheper², David Coyle², Kelly Oten¹

¹North Carolina State University, Raleigh, NC, ²Clemson University, Clemson, SC, ³USDA Forest Service, Northern Research Station, Hamden, CT

11:10 AM Insights into understanding the brown spot needle blight epidemic affecting pine forests in the southern USA. **Jason Smith¹**, Kathy Smith², Nicolas Anger², John Riggins³

¹University of Mount Union, Alliance, OH, ² University of Florida, ³Oregon State University

11:30 AM Machine-learning-based classification of Callery pear across the Southeast United States. **Jess Hartshorn¹**, Kavi Raj Awasthi², Nilesh Timilsina², Federico Iuricich², Brook T. Russell²

¹ecoLogic, Dayton, OH, ²Clemson University, Clemson, SC

11:50 AM – 1:00 PM **LUNCH**

WEDNESDAY AFTERNOON, FEBRUARY 25

INVASIVE PATHOGENS

1:00 – 2:40 PM

Organizer: Anna Conrad, USDA Forest Service, Northern Research Station, Delaware, OH

1:00 PM Pre-symptomatic chemical and spectral indicators of Dutch elm disease tolerance. **Avalon M. Miller¹**, Anna O. Conrad², Charles E. Flower², Nancy Hayes-Plazolles², Cornelia Wilson², and Cristina Rosa¹

¹The Pennsylvania State University, University Park, PA

²USDA Forest Service, Northern Research Station, Delaware, OH

1:20 PM Progress in efforts to reduce the impact of brown spot needle blight in loblolly pine. **Colton Meinecke**, Rhys A. Eshleman, Rowan Christopher, Zachary Bragg, Caterina Villari

¹University of Georgia, Athens, GA

1:40 PM Biosurveillance for native and invasive forest fungal pathogens in the U.S. through spore trapping. **Eliana Torres Bedoya¹**, J Ker¹, Isabel Munck², Thomas Macy³, Ryan Crandall⁴, Kyle Lombard⁴, Jeff R. Garnas⁵, Eric Morrison⁵, Enrico Bonello¹.

¹Ohio State University, Columbus, OH, ²USDA Forest Service, Durham, NH, ³Ohio Department of Natural Resources, Columbus, OH, ⁴New Hampshire Department of Natural & Cultural Resources, ⁵University of New Hampshire, Durham, NH

2:00 PM The Development of Tools for Managing Beech Leaf Disease. **Chad Rigsby**, Andrew L. Loyd, Matthew A. Borden

Bartlett Tree Research Laboratories

2:20 PM Butternut canker susceptibility influenced by disease level and hybridization. **Anna Conrad¹**, Aziz Ebrahimi², James Warren³, Karl

Fetter⁴, Carolyn Pike⁵, Caleb Kell², James McKenna⁶, Martin Williams⁷, Mojtaba Zamani Faradonbeh², Douglass F. Jacobs²

¹USDA Forest Service, Northern Research Station, Delaware, OH, ²Department of Forestry and Natural Resources, Hardwood Tree Improvement and Regeneration Center (HTIRC), Purdue University, West Lafayette, IN, ³USDA Forest Service, Northern Research Station, Burlington, VT, ⁴USDA Agriculture Research Service, Byron, GA, ⁵USDA Forest Service, State, Private, and Tribal Forestry, Eastern Region, Burlington, VT, ⁶USDA Forest Service, Northern Research Station, West Lafayette, IN, ⁷Natural Resources Canada, Canadian Forest Service, Atlantic Forestry Center, Fredericton, NB

2:40 – 3:10 PM

BREAK

WEDNESDAY AFTERNOON, FEBRUARY 25

INVASIVE PLANTS

3:10 – 4:50 PM

Organizer: Rima Lucardi, USDA Forest Service, Southern Research Station, Athens, GA

3:10 PM

From SSRs to satellites: Tracking the Bradford pear invasion.

Marcin Nowicki¹, Shiwani Sapkota², Alina Pokhrel¹, David R. Coyle³, Denita Hadziabdic¹, William E. Klingeman¹

¹University of Tennessee, Knoxville, TN, ²University of Georgia, Athens, GA,

³Clemson University, Clemson, SC

3:30 PM

Advancing our understanding of neophyte plant patterns and disturbance interactions in western forests. **Becky K. Kerns**¹,

Nathan M. Wade², Claire M. Tortorelli², Andrew Grey²

¹USDA Forest Service, Pacific Northwest Research Station, Corvallis, OR, ²Oak Ridge Institute for Science and Education, Oak Ridge, TN

3:50 PM

Prevention at the seed of the problem. **Rima D. Lucardi**¹, Alice Whitelaw, Mark Vick, Amanda Ott, Pete Coppelillo

¹USDA Forest Service, Southern Research Station, Athens, GA, ²Working Dogs for Conservation Missoula, MT

4:10 PM

Preliminary assessment of nonnative plant invasion potential in the wake of Hurricane Helene in the southern Appalachian Mountains.

James T. Vogt¹, Kevin Potter¹, Qinfeng Guo¹, Kamal J.K. Gandhi², Elizabeth McCarty²

¹USDA Forest Service, Southern Research Station, Athens, GA, ²University of Georgia, Athens, GA

4:30 PM

Harnessing the power of low coverage whole genome sequencing and herbaria to reconstruct the invasion history of a damaging invasive grass, *Microstegium vimineum*. **Craig Barrett**¹, Cameron Corbett¹, Fernando Hernandez², Lauren Kosslow¹,

Brandon T. Hendrickson³, Cynthia D. Huebner^{1,4}, Chih-Hui Chen⁵,
Pan Li⁶, Bo Li⁷, Paul M. Peterson⁸, Wen-Bin Yu⁷, Kenji Suetsugu⁹
¹West Virginia University, Morgantown, WV, ²University of British Columbia,
Vancouver, BC, Canada, ³University of Louisiana, Lafayette, LA, ⁴Northern
Research Station, USDA Forest Service, Morgantown, WV, ⁵Endemic Species
Research Institute, Jiji, Nantou, Taiwan, ⁶Zhejiang University, Hangzhou, Zhejiang,
China, ⁷Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences,
Menglun, Yunnan, China, ⁸Smithsonian National Museum of Natural History,
Washington, DC, ⁹Kobe University, Kobe, Hyogo, Japan

WEDNESDAY EVENING, FEBRUARY 25
POSTER SESSION – SHEET BEND (POWERHOUSE, 3RD FLOOR)
5:00 – 6:30 PM

WEDNESDAY EVENING, FEBRUARY 25
MIXER – ATRIUM
6:30 – 7:30 PM

THURSDAY MORNING, FEBRUARY 26
AREA-WIDE MANAGEMENT OF INVASIVE SPECIES
8:00 – 10:00 AM

Moderator: Scott Myers, USDA APHIS PPQ, Buzzards Bay, MA

- 8:00 AM** P4: An invasives response plan in theory and in practice. **Kier Klepzig**
Jones Center at Ichauway, Newton, GA
- 8:20 AM** Integrating landscape ecology into generic surveillance plans for bark- and wood-boring beetles. **Davide Rassati, Lorenzo Marini**
University of Padova, Italy
- 8:40 AM** Varying roles of environmental context in shaping the abundance and diversity of scolytines. **Manoj Pandey, Kayla I. Perry, Samuel F. Ward**
The Ohio State University, Columbus, OH
- 9:00 AM** New tools for exploring the distributions and forest impacts of pest species in the United States. **Katie Grong¹, Randall Morin²**
¹Purdue University, West Lafayette, IN, ²USDA Forest Service, Northern Research Station, Forest Inventory and Analysis (FIA), York, PA
- 9:20 AM** Implementing trapping networks with generic lures at ports-of-entry in southern Europe for early detection of non-native xylophagous species. **Alain Roques**
INRAE, Zoologie Forestière, Orléans, France

9:40 AM Improving biodefense and biocontrol programs by characterizing incipient invasive plant microbiomes. **Michael Fulcher**, Desi Szarka, Riley Larkin
USDA-ARS, Foreign Disease-Weed Science Research Unit, Fort Detrick, MD

10:00 – 10:30 AM BREAK

THURSDAY MORNING, FEBRUARY 26

RESEARCH REPORTS

10:30 – 11:50 AM

Moderator: Leigh Greenwood, The Nature Conservancy, Missoula, MT

10:30 AM Factors facilitating understory plant invasions in the aftermath of Emerald ash borer. Jack E. Hatajik¹, Marlyse C. Duguid², Mark A. Bradford², Sara E. Kuebbing², Claire E. Rutledge¹, **Elisabeth Ward¹**
¹Connecticut Agricultural Experiment Station, New Haven, CT, ²Yale University, New Haven, CT

10:50 AM Coevolutionary history shapes preference and performance in hemlock woolly adelgids. **Nicholas Dietschler**, Mark C. Whitmore, Anurag A. Agrawal
Cornell University, Ithaca, NY

11:10 AM Predator-prey ecology of the invasive *Adelges tsugae* and biological control agents system. **Anne C. J. Peter**, Scott Salom
Virginia Tech University, Blacksburg, VA

11:30 AM Images are information and citation is conversation. **Rebekah Wallace¹**, Elizabeth Bittner², Charles Barger¹
¹University of Georgia, Center for Invasive Species and Ecosystem Health, Athens, GA, ²University of Texas at Arlington, Arlington, TX

11:50 – 1:00 PM LUNCH

THURSDAY AFTERNOON, FEBRUARY 26

BIOLOGICAL CONTROL OF INVASIVE SPECIES

Organizer: Jeremy Andersen, University of Massachusetts, Amherst, MA

1:00 – 3:00 PM

1:00 PM Invasion insights from biological control datasets. **Ashley N. Schulz¹**, Rima D. Lucardi², Nathan P. Havill³, Travis D. Marsico⁴
¹Mississippi State University, Mississippi State, MS, ²USDA Forest Service, Southern Research Station, Athens, GA, ³USDA Forest Service, Northern Research Station, Hamden, CT, ⁴Arkansas State University, State University, AR

- 1:20 PM** Biological control of the invasive grass cogongrass, *Imperata cylindrica*. **Gregory Wheeler**¹, Dean Brookes²
¹USDA ARS Invasive Plant Research Lab, Davie, FL, ²ASDA ARS Australian Biological Control Laboratory, CSIRO Health and Biosecurity
- 1:40 PM** Progress Towards the Biological Control of Invasive Knotweeds. **Jeremy Andersen**, Zachary Colby
 University of Massachusetts, Amherst, MA
- 2:00 PM** Biological control of emerald ash borer and its impact on ash survival and regeneration: a 16 yr-field study in Michigan. **Jian Duan**¹, Toby Petrice², Therese Poland², Jeremy Andersen³, Christine Dodge⁴, Roy van Driesche³
¹USDA ARS Beneficial Insects Introduction Research Unit, Newark, DE, ²USDA Forest Service, Northern Research Station, East Lansing, MI, ³University of Massachusetts, Amherst, MA, ⁴USDA APHIS PPQ, Buzzards Bay, MA
- 2:20 PM** Host range testing of *Dryinus sinicus* shows it to be a promising candidate biological control agent for spotted lanternfly. **Hannah Broadley**¹, Xingeng Wang², Steven Sipolski¹, Corrine Losch¹, Caroline Schelleng^{1,3}, and Mari West^{1,3}
¹USDA, APHIS, Plant Protection and Quarantine, Science and Technology, Buzzards Bay, MA, ²USDA, ARS, Beneficial Insects Introduction Research Unit, Newark DE, ³University of Massachusetts, Amherst MA
- 2:40 PM** Evaluation of a North American dryinid for biocontrol of spotted lanternfly. **Alexandra Johnson**¹, Dana Terrill¹, Lisa Tewksbury¹, Jules Bentz¹, Dan Farnworth¹, Nick Durinzi², Carly Tribull³
¹University of Rhode Island Biocontrol Lab, Kingston, RI, ²SUNY College of Environmental Science and Forestry, Syracuse, NY, ³SUNY Farmingdale State College, Farmingdale, NY

3:00 – 3:30 PM BREAK

THURSDAY AFTERNOON, FEBRUARY 26

RESEARCH REPORTS

3:30 – 5:10 PM

Moderator: Nathan Havill, USDA Forest Service, Northern Research Station, Hamden, CT

- 3:30 PM** Behavioral and reproductive traits of *Dryinus sinicus* (Hymenoptera: Dryinidae), a promising biological control agent for spotted lanternfly. Spiro Schramm¹, Hannah Broadley², Joseph Kaser¹, **Xingeng Wang**¹
¹USDA ARS Beneficial Insects Introduction Research Unit, Newark, DE, ²USDA APHIS PPQ, Buzzards Bay, MA

- 3:50 PM** Emerging sassafras wilt not associated with laurel wilt disease: signs, symptoms, and potential casual agents. **Olivia Bigham**¹, Anna O. Conrad², Matthew Ginzel¹
¹Purdue University, ²USDA Forest Service, Northern Research Station, Delaware, OH
- 4:10 PM** Trunk injection treatments for control of beech leaf disease in natural stands of American beech. **Don Grosman**
Arborjet Inc., Woburn, MA
- 4:30 PM** Identifying where and when to search for pest-resistant trees. **Radka Wildova**, Jonathan Rosenthal
Ecological Research Institute, New Paltz, NY
- 4:50 PM** Host response to polyphosphite (PP30) in beech leaf disease. **Andrew Miles**¹, Enrico (Pierluigi) Bonello¹, Daniel Herms², Constance Hausman³
¹The Ohio State University, ²The Davey Tree Expert Company, ³Cleveland Metroparks, Cleveland, OH