

**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**<sup>1</sup>, Brian Aukema<sup>2</sup>, Spencer Stout<sup>2</sup>, Joel Sharbrough<sup>3</sup>

<sup>1</sup>The Ohio State University, Columbus, OH, <sup>2</sup>University 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**<sup>1</sup>, Lindsey Stone<sup>2</sup>, Caleb Davis<sup>2</sup>, R. Talbot Trotter<sup>3</sup>, Will Schepers<sup>2</sup>, David Coyle<sup>2</sup>, Kelly Oten<sup>1</sup>

<sup>1</sup>North Carolina State University, Raleigh, NC, <sup>2</sup>Clemson University, Clemson, SC,

<sup>3</sup>USDA 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 Smith**<sup>1</sup>, Kathy Smith<sup>2</sup>, Nicolas Anger<sup>2</sup>, John Riggins<sup>3</sup>  
<sup>1</sup>University of Mount Union, Alliance, OH, <sup>2</sup> University of Florida, <sup>3</sup>Oregon State University

**11:30 AM** Machine-learning-based classification of Callery pear across the Southeast United States. **Jess Hartshorn**<sup>1</sup>, Kavi Raj Awasthi<sup>2</sup>, Nilesh Timilsina<sup>2</sup>, Federico Iuricich<sup>2</sup>, Brook T. Russell<sup>2</sup>  
<sup>1</sup>ecoLogic, Dayton, OH, <sup>2</sup>Clemson 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. Miller**<sup>1</sup>, Anna O. Conrad<sup>2</sup>, Charles E. Flower<sup>2</sup>, Nancy Hayes-Plazolles<sup>2</sup>, Cornelia Wilson<sup>2</sup>, and Cristina Rosa<sup>1</sup>  
<sup>1</sup>The Pennsylvania State University, University Park, PA  
<sup>2</sup>USDA 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  
<sup>1</sup>University of Georgia, Athens, GA

**1:40 PM** Biosurveillance for native and invasive forest fungal pathogens in the U.S. through spore trapping. **Eliana Torres Bedoya**<sup>1</sup>, J Ker<sup>1</sup>, Isabel Munck<sup>2</sup>, Thomas Macy<sup>3</sup>, Ryan Crandall<sup>4</sup>, Kyle Lombard<sup>4</sup>, Jeff R. Garnas<sup>5</sup>, Eric Morrison<sup>5</sup>, Enrico Bonello<sup>1</sup>.  
<sup>1</sup>Ohio State University, Columbus, OH, <sup>2</sup>USDA Forest Service, Durham, NH, <sup>3</sup>Ohio Department of Natural Resources, Columbus, OH, <sup>4</sup>New Hampshire Department of Natural & Cultural Resources, <sup>5</sup>University 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 Conrad**<sup>1</sup>, Aziz Ebrahimi<sup>2</sup>, James Warren<sup>3</sup>, Karl

Fetter<sup>4</sup>, Carolyn Pike<sup>5</sup>, Caleb Kell<sup>2</sup>, James McKenna<sup>6</sup>, Martin Williams<sup>7</sup>, Mojtaba Zamani Faradonbeh<sup>2</sup>, Douglass F. Jacobs<sup>2</sup>  
<sup>1</sup>USDA Forest Service, Northern Research Station, Delaware, OH, <sup>2</sup>Department of Forestry and Natural Resources, Hardwood Tree Improvement and Regeneration Center (HTIRC), Purdue University, West Lafayette, IN, <sup>3</sup>USDA Forest Service, Northern Research Station, Burlington, VT, <sup>4</sup>USDA Agriculture Research Service, Byron, GA, <sup>5</sup>USDA Forest Service, State, Private, and Tribal Forestry, Eastern Region, Burlington, VT, <sup>6</sup>USDA Forest Service, Northern Research Station, West Lafayette, IN, <sup>7</sup>Natural 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 Nowicki**<sup>1</sup>, Shiwani Sapkota<sup>2</sup>, Alina Pokhrel<sup>1</sup>, David R. Coyle<sup>3</sup>, Denita Hadziabdic<sup>1</sup>, William E. Klingeman<sup>1</sup>  
<sup>1</sup>University of Tennessee, Knoxville, TN, <sup>2</sup>University of Georgia, Athens, GA,  
<sup>3</sup>Clemson University, Clemson, SC

**3:30 PM**

Advancing our understanding of neophyte plant patterns and disturbance interactions in western forests. **Becky K. Kerns**<sup>1</sup>, Nathan M. Wade<sup>2</sup>, Claire M. Tortorelli<sup>2</sup>, Andrew Grey<sup>2</sup>  
<sup>1</sup>USDA Forest Service, Pacific Northwest Research Station, Corvallis, OR, <sup>2</sup>Oak Ridge Institute for Science and Education, Oak Ridge, TN

**3:50 PM**

Prevention at the seed of the problem. **Rima D. Lucardi**<sup>1</sup>, Alice Whitelaw, Mark Vick, Amanda Ott, Pete Coppolillo  
<sup>1</sup>USDA Forest Service, Southern Research Station, Athens. GA, <sup>2</sup>Working 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. Vogt**<sup>1</sup>, Kevin Potter<sup>1</sup>, Qinfeng Guo<sup>1</sup>, Kamal J.K. Gandhi<sup>2</sup>, Elizabeth McCarty<sup>2</sup>

<sup>1</sup>USDA Forest Service, Southern Research Station, Athens, GA, <sup>2</sup>University 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**<sup>1</sup>, Cameron Corbett<sup>1</sup>, Fernando Hernandez<sup>2</sup>, Lauren Kossow<sup>1</sup>,

Brandon T. Hendrickson<sup>3</sup>, Cynthia D. Huebner<sup>1,4</sup>, Chih-Hui Chen<sup>5</sup>,  
Pan Li<sup>6</sup>, Bo Li<sup>7</sup>, Paul M. Peterson<sup>8</sup>, Wen-Bin Yu<sup>7</sup>, Kenji Suetsugu<sup>9</sup>  
<sup>1</sup>West Virginia University, Morgantown, WV, <sup>2</sup>University of British Columbia,  
Vancouver, BC, Canada, <sup>3</sup>University of Louisiana, Lafayette, Lafayette, LA, <sup>4</sup>Northern  
Research Station, USDA Forest Service, Morgantown, WV, <sup>5</sup>Endemic Species  
Research Institute, Jiji, Nantou, Taiwan, <sup>6</sup>Zhejiang University, Hangzhou, Zhejiang,  
China, <sup>7</sup>Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences,  
Menglun, Yunnan, China, <sup>8</sup>Smithsonian National Museum of Natural History,  
Washington, DC, <sup>9</sup>Kobe 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 Grong<sup>1</sup>, Randall Morin<sup>2</sup>**  
<sup>1</sup>Purdue University, West Lafayette, IN, <sup>2</sup>USDA 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. Hatajik<sup>1</sup>, Marlyse C. Duguid<sup>2</sup>, Mark A. Bradford<sup>2</sup>, Sara E. Kuebbing<sup>2</sup>, Claire E. Rutledge<sup>1</sup>, **Elisabeth Ward<sup>1</sup>**  
<sup>1</sup>Connecticut Agricultural Experiment Station, New Haven, CT, <sup>2</sup>Yale University, New Haven, CT

**10:50 AM** Coevolutionary history shapes preference and performance in hemlock woolly adelgids. **Nicholas Dietzschler**, 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 Wallace<sup>1</sup>**, Elizabeth Bittner<sup>2</sup>, Charles Bargeron<sup>1</sup>  
<sup>1</sup>University of Georgia, Center for Invasive Species and Ecosystem Health, Athens, GA, <sup>2</sup>University 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. Schulz<sup>1</sup>**, Rima D. Lucardi<sup>2</sup>, Nathan P. Havill<sup>3</sup>, Travis D. Marsico<sup>4</sup>  
<sup>1</sup>Mississippi State University, Mississippi State, MS, <sup>2</sup>USDA Forest Service, Southern Research Station, Athens, GA, <sup>3</sup>USDA Forest Service, Northern Research Station, Hamden, CT, <sup>4</sup>Arkansas State University, State University, AR

<b>1:20 PM</b>	Biological control of the invasive grass cogongrass, <i>Imperata cylindrica</i> . <b>Gregory Wheeler</b> <sup>1</sup> , Dean Brookes <sup>2</sup> <sup>1</sup> USDA ARS Invasive Plant Research Lab, Davie, FL, <sup>2</sup> ASDA ARS Australian Biological Control Laboratory, CSIRO Health and Biosecurity
<b>1:40 PM</b>	Progress Towards the Biological Control of Invasive Knotweeds. <b>Jeremy Andersen</b> , Zachary Colby University of Massachusetts, Amherst, MA
<b>2:00 PM</b>	Biological control of emerald ash borer and its impact on ash survival and regeneration: a 16 yr-field study in Michigan. <b>Jian Duan</b> <sup>1</sup> , Toby Petrice <sup>2</sup> , Therese Poland <sup>2</sup> , Jeremy Andersen <sup>3</sup> , Christine Dodge <sup>4</sup> , Roy van Driesche <sup>3</sup> <sup>1</sup> USDA ARS Beneficial Insects Introduction Research Unit, Newark, DE, <sup>2</sup> USDA Forest Service, Northern Research Station, East Lansing, MI, <sup>3</sup> University of Massachusetts, Amherst, MA, <sup>4</sup> USDA APHIS PPQ, Buzzards Bay, MA
<b>2:20 PM</b>	Host range testing of <i>Dryinus sinicus</i> shows it to be a promising candidate biological control agent for spotted lanternfly. <b>Hannah Broadley</b> <sup>1</sup> , Xingeng Wang <sup>2</sup> , Steven Sipolski <sup>1</sup> , Corrine Losch <sup>1</sup> , Caroline Schelleng <sup>1,3</sup> , and Mari West <sup>1,3</sup> <sup>1</sup> USDA, APHIS, Plant Protection and Quarantine, Science and Technology, Buzzards Bay, MA, <sup>2</sup> USDA, ARS, Beneficial Insects Introduction Research Unit, Newark DE, <sup>3</sup> University of Massachusetts, Amherst MA
<b>2:40 PM</b>	Evaluation of a North American dryinid for biocontrol of spotted lanternfly. <b>Alexandra Johnson</b> <sup>1</sup> , Dana Terrill <sup>1</sup> , Lisa Tewksbury <sup>1</sup> , Jules Bentz <sup>1</sup> , Dan Farnsworth <sup>1</sup> , Nick Durinzi <sup>2</sup> , Carly Tribull <sup>3</sup> <sup>1</sup> University of Rhode Island Biocontrol Lab, Kingston, RI, <sup>2</sup> SUNY College of Environmental Science and Forestry, Syracuse, NY, <sup>3</sup> SUNY Farmingdale State College, Farmingdale, NY

**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 Schramm<sup>1</sup>, Hannah Broadley<sup>2</sup>, Joseph Kaser<sup>1</sup>, **Xingeng Wang<sup>1</sup>**  
<sup>1</sup>USDA ARS Beneficial Insects Introduction Research Unit, Newark, DE, <sup>2</sup>USDA APHIS PPQ, Buzzards Bay, MA

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