



People, Passion, Experience: Pathways to Success

Concurrent Session Oral Presentations

If there is more than one author, an asterisk () denotes who will be presenting*

Tuesday November 12th

1:00pm – 2:40pm

European Frog-bit Part 1: Collaboration and Management

- 1:00 PM **European Frog-bit 101** Taaja Tucker-Silva* and Nichole Angell, Great Lakes Commission (GLC)
- 1:20 PM **European Frog-bit Collaborative: A Community Approach to EFB Management** Nichole Angell*, GLC; Shikha Singh*, JLW Cooperative Invasive Species Management Area (CISMA); Samantha Tank and Taaja Tucker-Silva, GLC
- 1:40 PM **A Tour Through the Toolbox: GIS based tools for Improving European Frog-bit Monitoring and Management** Tom Alwin* and Billy Keiper*, Michigan Department of Environment, Great Lakes, and Energy (EGLE)
- 2:00 PM **European Frog-bit (*Hydrocharis morsus-ranae*) Within the Saginaw Bay** Ayla Sisco, Saginaw Chippewa Indian Tribe
- 2:20 PM **Green Bay Wisconsin's European Frog-bit MVPs** Amanda Smith* and Matt Puz*, Wisconsin Department of Natural Resources (DNR)

Novel and Inclusive Communication Strategies

- 1:00 PM **Science Storytelling Through Podcasts** Jenna Mertz*, Bonnie Willison*, and Tim Campbell, Wisconsin Sea Grant; Nichole Angell, GLC
- 1:20 PM **10 Years of Weed of the Month Articles at the MDA** Emilie Justen, Minnesota Department of Agriculture (MDA)
- 1:40 PM **Inclusive Language in AIS Communication – A Workshop Report** El Lower*, Minnesota Sea Grant and Tim Campbell, Wisconsin Sea Grant
- 2:00 PM **Eco-anxiety: Nurturing Resilient People to Steward Resilient Ecosystems** Angela Gupta, University of Minnesota (UMN) Extension
- 2:20 PM **Discussion/Q&A**

Genetics: Perceptions & Applications

- 1:00 PM **Genetic Biocontrol: Understanding the Public's Attitudes & Perceptions** Kiley Fryman*, UMN and David Fulton, Minnesota Cooperative Fish & Wildlife Research Unit
- 1:20 PM **Genetic Biocontrol and Aquatic Invasive Species Management in the Great Lakes Region: Perspectives of Resource Managers** Rex Alirigia*, Jill Furgurson, Katie Barnhill, and Jason Delborne, North Carolina State University.
- 1:40 PM **Genetic Transformation and Fertility Genes for Common Tansy Gene Drive Control** Lori Croghan* and Alan Smith, UMN; Matthew Tancos, USDA-Agricultural Research Service (ARS); Neil Anderson, UMN
- 2:00 PM **Highbush Cranberry (*Viburnum* spp.) Population Genetic Analysis and Genetic Test Development** David Tork*, Alan Smith, and Neil Anderson, UMN
- 2:20 PM **Gene Flow and Genetic Structure of Reed Canary Grass (*Phalaris arundinacea*) Along Historic Minnesota Highways** Marie Abbey*, Neil O. Anderson, Alan Smith, and Andrzej K. Noyszewski, UMN

Incorporating Technology

- 1:00 PM **Mobile Game for Combating Invasive Alien Plant Species** Toni Paju, Crowdsorsa
- 1:20 PM **Bugwood Tools for Success** Rebekah Wallace*, Chuck Bargeron, and Joseph LaForest, University of Georgia
- 1:40 PM **Keep Calm and Drone On: Two years of Invasive Species Treatments with Drones** Samantha Loutzenhiser, KCI Technologies
- 2:00 PM **Remote Sensing Tools and Technology for Forest Health Applications** Sarah Wegmueller, USDA Forest Service
- 2:20 PM **Using Satellite Imagery and Deep Learning to Improve Predictive Models of Invasive Species Distributions** Ryan Briscoe Runquist*, UMN; Thomas Lake, North Carolina State University; David Moeller, UMN

Prioritization for Early Detection

- 1:00 PM **Empowering Nationwide Early Detection and Rapid Response - Siren: The National EDRR Information System** Aimee Agnew*, Brian Reichert, Wesley Daniel, and Nicole Hernandez, U.S. Geological Survey (USGS)
- 1:20 PM **Great Lakes Early Detection and Monitoring Program Strategic Framework** Cari-Ann Hayer* and Sharon Rayford, US Fish and Wildlife Service (FWS)
- 1:40 PM **Inland Lakes AIS Surveillance Site Prioritization** Samantha Tank* and Amanda Grimm*, GLC; Lindsay Chadderton and Andrew Tucker, The Nature Conservancy

- 2:00 PM **Which Waterbodies in the Upper Mississippi River Basin Are Prone to Invasion?** Grant Vagle*, UMN-Minnesota Aquatic Invasive Species Research Center (MAISRC); Ryan Burner, U.S. Geological Survey (USGS) Upper Midwest Environmental Sciences Center; Wesley Daniel, USGS Wetland and Aquatic Research Center; Richard Erickson, USGS Upper Midwest Environmental Sciences Center
- 2:20 PM **Public Gardens as Sentinels Against Invasive Plants** Kurt Dreisilker, The Morton Arboretum

3:20pm – 5:00pm

European Frog-bit Part 2: Research and Lessons Learned

- 3:20 PM **Genome Size Estimation and Target Gene Characterization for Genetic Control of European Frog-bit** Ping Gong* and Seung Ho Chung, US Army Engineer Research and Development Center
- 3:40 PM **European Frog-bit (*Hydrocharis morsus-ranae*) Risk Map Web Application** Clayton Kingdon*, Loyola University Chicago; Louis Jochems, Boise State University; Shane Lishawa, Loyola University Chicago; Jodi Brandt, Boise State University
- 4:00 PM **Ecological Impacts of Invasive European Frogbit and its Potential Physical, Chemical, and Biological Controls** Bin Zhu, Wagner College
- 4:20 PM **Lessons Learned From a Decade of Responding to European Frog-bit in Michigan** Billy Keiper, MI EGLE
- 4:40 PM **Discussion/Q&A**

Regional Collaboration Efforts

- 3:20 PM **The Stewardship Network: A Collaborative Model for Invasive Species Management and Stewardship** Lisa Brush*, The Stewardship Network and Rob Luzynski*, The Stewardship Network
- 3:40 PM **How Local AIS Prevention Efforts Support State, Regional and National Efforts** Douglas A. Jensen, Minnesota DNR
- 4:00 PM **MN Lakes & Rivers Advocates' Stop Starry Program: Civic Organizing in AIS Prevention** Sami Selter* and Jeff Forester*, Minnesota Lakes and Rivers Advocates
- 4:20 PM **The ABCs of the ABC: The History of the AIS Boundary Waters Collaborative (ABC)** Amanda Weberg, Cook Soil and Water Conservation District (SWCD)
- 4:40 PM **Discussion/Q&A**

Advances in eDNA Detection

- 3:20 PM **Evaluation of Rapid DNA Extraction Kits for eDNA Point of Use Detection** Melisa Kozaczek*, Tyler Untiedt, and Stephen Spear, USGS; Paul Albosta, University of Wisconsin (UW)-Stevens Point

- 3:40 PM **Field Testing of eDNA Point of Use Detection Protocols for Aquatic Invasive Species** Stephen Spear*, USGS; Melisa Kozaczek, USGS; Tyler Untiedt, USGS; Leif Howard, University of Montana
- 4:00 PM **Early Detection of Invasive Fishes Using eDNA** Joel Hoffman*, Aubree Szczepanski, Chelsea Hatzenbuhler, and Greg Peterson, U.S. Environmental Protection Agency (EPA) Office of Research and Development
- 4:20 PM **The Use of Airborne DNA for Monitoring Invasive Species** Charlyn Partridge*, Keely Dunham, Kathryn Geller, and Madison Stibel, Grand Valley State University
- 4:40 PM **Discussion/Q&A**

How a Rule Becomes Law: State Rulemaking

- 3:20 PM **Wisconsin's Invasive Species Rule – Process and Revision** Mackenzie Manicki* and Tara Bergeson, Wisconsin DNR
- 3:40 PM **Michigan's Invasive Species Lists** Susie Iott, Michigan Department of Agriculture and Rural Development (MDARD)
- 4:00 PM **Minnesota's Invasive Species Rulemaking Process** Adam Doll, MN DNR
- 4:20 PM **Minnesota Noxious Weed Seed List** Michael Merriman*, MDA and Jochum Wiersma, UMN
- 4:40 PM **Discussion/Q&A**

New Invaders

- 3:20 PM **The Phenology of Japanese Stiltgrass (*Microstegium vimineum*)** Evan Chalmers*, UW-La Crosse; Mary Bartkowiak, Wisconsin DNR; Anita Davelos, UW-La Crosse
- 3:40 PM **Treatment Methods of Oregon Grape (*Mahonia aquifolium*)** Audrey Menninga, Northwest Michigan Invasive Species Network/UW -Stout
- 4:00 PM **Management of Small Carpetgrass Populations may be Prioritized by Traits that are Indicative of Plasticity and Invasiveness** Cynthia Huebner*, USDA Forest Service Northern Research Station; Donna Ford-Werntz, West Virginia University; Lorenzo Ferrari, USDA Forest Service Northern Research Station
- 4:20 PM **Invasive Terrestrial Plants of the Southern Midwest** Emily Finch, Martin County SWCD
- 4:40 PM **Discussion/Q&A**

Wednesday November 13th

8:00am – 9:40am

Improving Prevention: Understanding Boater and Angler Behaviors

- 8:00 AM **Why Don't They Clean, Drain, and Dry? Understanding Boater and Angler Behavior** Carrie Meier, Daniel Hayes, and Jo Latimore*, Michigan State University
- 8:20 AM **Risky Business: Identifying the Most-Missed AIS Prevention Actions Among Boating Anglers** Megan Weber*, UMN-Extension; Ingrid Schneider and Brock Bahlmann, UMN
- 8:40 AM **Beyond the Sign: Assessing Boating Anglers Intentions across Message Mediums** Ingrid Schneider*, UMN; Megan Weber, UMN Extension; Anupa Khadka and Brock Bahlman, UMN
- 9:00 AM **Intervention Impact: An Online Application for Planning Cost-Effective AIS Prevention Programs** Nick Phelps*, MAISRC; Nichole Angell, GLC; Amy Kinsley, College of Veterinary Medicine, UMN; Alex Bajcz, MAISRC
- 9:20 AM **Discussion/Q&A**

Pathways, Population Dynamics, and Control of Invasive Crayfishes

- 8:00 AM **A Review of Crayfish Invasion Pathways in the Great Lakes Basin** William Ota* and Sarah Walker, Michigan State University; Brennen Wright and Kathleen Quebedeaux, Michigan DNR
- 8:20 AM **Invasion Dynamics of the Australian Red-Claw Crayfish (*Cherax quadricarinatus*) in US Territory: Insights from eDNA and Trap Sampling in Puerto Rican Reservoirs** PJ Torres*, College of the Holy Cross; Courtney Larson, US EPA; Nick Macias, University of Georgia; Julia Paxson, College of the Holy Cross
- 8:40 AM **Factors Affecting Burrowing Behaviors in Red Swamp Crayfish** James Rodgers*, Nick Barnes, and Jim Stoeckel, Auburn University
- 9:00 AM **Best Trapping Strategies to Control Invasive Rusty Crayfish and Protect Wild Rice** Brennan Pederson* and Valerie Brady*, UMN-Duluth Natural Resources Research Institute (NRRRI); Tyler Kaspar*, 1854 Treaty Authority; Liz Anderson, Lake County SWCD
- 9:20 AM **Signal Crayfish (*Pacifastacus leniusculus*) in Minnesota** Don Eaton*, Minnesota DNR; Gretchen Hansen, UMN-MAISRC; Justin Swart, Douglas County; Denver Link, UMN-MAISRC

Engaging Unique Audiences

- 8:00 AM **Invasive Species + Local Brewery = Match Made in Invasive Species Prevention Heaven** Amanda Weberg, Cook County SWCD
- 8:20 AM **Stop Spiny! A Brief Primer on the Biology of Invasive Spiny Waterfleas and a Regional Prevention Campaign Called Stop Spiny** Zach Stewart*, Douglas County Surface Waters Program

- 8:40 AM **Communications in the Great Lakes: Sea Lampreys** Christina Carter, Great Lakes Fishery Commission
- 9:00 AM **Illinois Waterfowl Hunter Aquatic Invasive Species Outreach Needs Assessment** Greg Hitzroth, Illinois Natural History Survey and Illinois-Indiana Sea Grant
- 9:20 AM **Waterfowl Hunters & Furbearer Trappers: Invasive Species Prevention** Chris Hamerla, Golden Sands Resource Conservation & Development Council Inc

Tree Diseases

- 8:00 AM **Responding to Quarantined Pathogen, *Phytophthora ramorum*, to Reduce Sudden Oak Death Risks** Shahla Werner, WI Department of Agriculture, Trade, and Consumer Protection (DATCP)
- 8:20 AM **Rapid Diagnostic Assay for the Detection of Oak Wilt Disease Caused by *Bretziella fagacearum*** Lauren Aufdembrink*, PureBioX; Anil Meher, PureBioX; Abdennour Abbas, PureBioX
- 8:40 AM **A Regional Forest Health Collaborative for Tree Improvement** Breeding Rachel Kappler*, Holden Forests and Gardens and Jennifer Koch, USDA Forest Service Northern Research Station
- 9:00 AM **Beyond Blight: Phytophthora Root Rot Under Climate Change Limits Populations of Reintroduced American Chestnut** Cornelia Wilson*, Eric Gustafson, and Brian Miranda, USFS Northern Research Station; Tyler Dreaden, USFS Southern Research Station
- 9:20 AM **Oak Wilt Identification by Volatilome Analysis** Anil Meher* and Abdennour Abbas, UMN

Woody Invasive Plants - Special Session Part 1

- 8:00 AM **Introduction to Planning & Implementing Woody Invasive Management** Jen Larson, USDA-Forest Service
- 8:20 AM **Developing a Management Plan** Chris Evans, University of Illinois
- 8:40 AM **Mowing and Physical Removal** Leah Weston, Ohio State University and Friends of the Mississippi River
- 9:00 AM **Prescribed Fire & Grazing** Kurt Driesilker*, The Morton Arboretum; Ron Rathfon*, Purdue University
- 9:20 AM **Discussion/Q&A**

10:00am – 11:40am

Watercraft Inspection Part 1: State and Regional Programs

- 10:00 AM **Making Waves: Reflecting on a Decade of the Mobile Boat Wash Program** Kelsey Bockelman*, Michigan State University Extension; Jo Latimore*, Michigan State University; Kevin Walters, Michigan EGLE
- 10:20 AM **Successes of Minnesota's Watercraft Inspection Program through Legislative Support and Partnerships** Tina Fitzgerald* and Adam Doll, Minnesota DNR
- 10:40 AM **Minnesota's Department of Natural Resources Division of Enforcement's K9 unit** Robert Haberman, Minnesota DNR
- 11:00 AM **Great Lakes AIS Landing Blitz** Theresa Gruninger*, Ceci Weibert, and Nichole Angell, GLC; Tim Campbell, Wisconsin Sea Grant
- 11:20 AM **Discussion/Q&A**

Managing Milfoils and Eradicating Hydrilla

- 10:00 AM **Summarizing Monitoring Results for Florpyrauxifen-benzyl (ProcellaCOR™) Treatments in Wisconsin Lakes** Todd Hanke* and Eddie Heath, Onterra, LLC
- 10:20 AM **Advancing Eurasian Watermilfoil Management Through the Integration of Strain Tracking and Rapid Herbicide Assays** Ashley Wolfe*, Montana State University; Ryan Thum, Montana State University; Raymond Newman, UMN; Alex Bajcz, Minnesota Aquatic Invasive Species Center
- 10:40 AM **Hydrilla in Michigan: An Update on Eradication Efforts** Billy Keiper*, Michigan EGLE and Alex Florian, Southwest by Southwest Corner CISMA
- 11:00 AM **Ohio Hydrilla Update** Mark Warman, Cleveland Metroparks
- 11:20 AM **Discussion/Q&A**

Participatory Science

- 10:00 AM **Statewide Aquatic Invasive Species Monitoring Events** Emily Heald*, UW-Extension and Megan Weber*, UMN-Extension
- 10:20 AM **Using a Community Science Network to Better Understand HWA Spread in Canada** Derissa Vincentini*, Invasive Species Centre; Victoria Derry, Natural Resources Canada; Nicole Mielewczyk, Canadian Food Inspection Agency; Erin Campbell, Canadian Food Inspection Agency
- 10:40 AM **Spiny Surveillance: A New Volunteer Early Detection Program for Spiny Water Flea** Megan Weber*, UMN-Extension; Donn Branstrator, UMN-Duluth; Valerie Brady, UMN-Natural Resources Research Institute; Michelle Isaacson, UMN-Extension

- 11:00 AM **Zebra Mussel Safari: A Framework for Engaging Citizen Scientists** Sawyer Lorentz*, UMN; Nick Phelps and Alex Bajcz, UMN-Aquatic Invasive Species Research Center; Megan Weber, UMN Extension
- 11:20 AM **Discussion/Q&A**

Ornamental Invasives: Improving Outreach and Prevention

- 10:00 AM **Just a Click Away: Spread of Invasive Plants to Minnesota Through E-commerce** Amy Morey*, UMN-Minnesota Invasive Terrestrial Plants and Pests Center; Emilie Justen, MDA; Robert Venette, USDA Forest Service Northern Research Station and UMN-Minnesota Invasive Terrestrial Plants and Pests Center
- 10:20 AM **Growing Prevention Outreach with Wisconsin Gardeners** Jeanne Scherer*, UW-Madison Extension and Liz Tanner, Wisconsin DNR
- 10:40 AM **Going Above and Beyond Michigan Regulations with Go Beyond Beauty** Shelly Stusick, Northwest Michigan Invasive Species Network
- 11:00 AM **Invaders from the Garden: Lessons Learned from the Callery Pear, Wintercreeper, Burning Bush, and Miscanthus** Theresa Culley* and Robert Elam, University of Cincinnati
- 11:20 AM **Discussion/Q&A**

Woody Invasive Plants – Special Session Part 2

- 10:00 AM **Choosing the Right Herbicide Application Method**
- 10:20 AM **Using Plants to Control Buckthorn and Improve Ecosystem Function** Michael Schuster, UMN
- 10:40 AM **De-vine Intervention: Lessons Learned from a Decade of Roundleaf Bittersweet Management at Three Rivers Park District** Meg Duhr*, Angela Grill*, and Missy Anderson, Three Rivers Park District; Emily Dunlap, City of St. Paul
- 11:00 AM **Overview of Woody Invasive Plant Management Methods and Costs** Mark Renz, UW-Madison
- 11:20 AM **Discussion/Q&A**

1:20pm – 3:00pm

Watercraft Inspection Part 2: Data and Enforcement

- 1:20 PM **Great Lakes Watercraft Data Collection: What We've Learned and What is Next for the Basin** Theresa Gruninger*, Ceci Weibert, and Taaja Tucker-Silva, GLC

- 1:40 PM **A Predictive Boater Network for Prioritizing Minnesota's Aquatic Invasive Species Prevention** Molly Tilsen*, UMN-Twin Cities; Aaron Muehler, Ball State University; Paul A. Venturelli, Ball State University; Nicholas B.D. Phelps, UMN-Twin Cities, MAISRC
- 2:00 PM **Minnesota's Invasive Species Laws and the History of Their Evolution the Last Decade Through Enforcement Officers** Robert Haberman, Minnesota DNR
- 2:20 PM **Minnesota's Aquatic Invasive Species Roadside Check Station History** Robert Haberman, Minnesota DNR
- 2:40 PM **Inspecting Watercraft at the Emerson-Pembina International Border Crossing: Findings and Risks of American Anglers from the Midwest** Brendan Spearin, Fisheries and Oceans Canada

Resources for Invasive Aquatic Plant Managers

- 1:20 PM **Great Lakes Invasive Aquatic Plant Control Prioritization and Needs Assessment** Samantha Tank* and Alisha Davidson, GLC; Lindsay Chadderton and Andrew Tucker, The Nature Conservancy
- 1:40 PM **P.I. Charter: An Interactive Web Portal for Aquatic Plant Survey Data** Alex Bajcz, MAISRC
- 2:00 PM **Tailoring Outreach About Controlling Aquatic Invasive Species Using Search Engine Optimization Tools and Google Ads to Influence Best Practices in Aquatic Plant Management** Bret Shaw*, UW-Madison; Tim Campbell, UW-Madison Sea Grant; Luke Huffman, UW-Madison; Gavin Dehnert, UW-Madison Sea Grant
- 2:20 PM **Discussion/Q&A**

Tools for Engagement

- 1:20 PM **Incorporating Art and Technology into Invasive Species Education and Outreach** Megan Weber, UMN Extension
- 1:40 PM **Community Focused Outreach and Implementing Access-Based Solutions** Zach Burnside, Wildlife Forever
- 2:00 PM **Success Stories: Engaging Tribal Youth Through Invasive Species Internships** Michael Arce, Oneida Nation
- 2:20 PM **Invasive Species Forestry Program - Increasing Action and Awareness on Priority Pests in Canada** Madison Sturba, Invasive Species Centre
- 2:40 PM **Discussion/Q&A**

Organisms in Trade: Enforcement, Education, and Compassion

- 1:20 PM **Illegal Trade of AIS and Enforcement Approaches** Robert Stroess, Wisconsin DNR
- 1:40 PM **Warehouse Distribution Center Outreach for Invasive Species Prevention** Matt Wallrath, UW-Madison

- 2:00 PM **Compassionate Solutions: J&R Aquatic Animal Rescue's Exotic Pet Surrender Events** John Moyles, J&R Aquatic Animal Rescue
- 2:20 PM **Beyond the Tanks: Highlighting Instances of Invasive Species in the Pet Trade** Liz Tanner* and Patrick Siwula*, Wisconsin DNR
- 2:40 PM **Discussion/Q&A**

Buckthorn: Current Research and Management Options

- 1:20 PM ***Puccinia digitaticoronata*, A Recently Observed Crown Rust Fungus in North America Causes Disease in Rhamnus and Poa spp., Including Common Buckthorn and Kentucky Bluegrass** Pablo Olivera Firpo*, UMN; Nicholas Greatens, USDA-ARS, Foreign Disease-Weed Science Research; Karl Miller, UMN; Jyoti Sharma, UMN
- 1:40 PM **Identification and Characterization of Puccinia Series Coronata Complex on Common Buckthorn (*Rhamnus cathartica*)** Jyoti Saini Sharma* and Molly Veregge, UMN; Nick Greatens and Yue Jin, USDA-ARS
- 2:00 PM **Fungi Associated with Buckthorn (*Rhamnus cathartica* & *Frangula alnus*) as Prospects for Biocontrol** Ryan Franke Robert Blanchette* and Robert Blanchette, UMN
- 2:20 PM **Leveraging Citizen Science to Study Buckthorn (*Rhamnus cathartica*) Suppression via Native Revegetation** Nick Partington*, Andrew Kaul, and Mike Schuster, UMN
- 2:40 PM **Unidentified Buckthorns (*Rhamnus* spp.)** Monika Chandler* and Sara Bratsch, MDA; Jyoti Saini Sharma and Pablo Olivera Firpo, UMN

3:20pm – 5:00pm

Stop Here: Boat Cleaning Stations

- 3:20 PM **Comparison of Boat Cleaning Systems: Invasive Species Removal, Boater Engagement, and Cost** Jo Latimore*, Michigan State University; Maria Bleitz, Oklahoma State University; Kevin Walters, Michigan EGLE
- 3:40 PM **Stop the Spread! How to get AIS Out of a Boat's Interior** Holly Wellard Kelly*, Valerie Brady*, Robert Hell, and Kari Pierce, UMN-Duluth Natural Resources Research Institute
- 4:00 PM **Building Capacity to Prevent AIS in the Columbia River Basin** Edgar Rudberg* and Mark Apfelbacher, CD3
- 4:20 PM **MN DNR Permanent On-demand Decontamination Station** Erik Anthonisen, Minnesota DNR
- 4:40 PM **Discussion/Q&A**

Moving Waters: Invasive Control and Impacts in Streams

- 3:20 PM **Evaluation of Temperature on Larval Sea Lamprey (*Petromyzon marinus*) Tolerance to TFM** Nicholas Schloesser*, USGS; Courtney Kirkeeng, USGS; Justin Schueller, USGS; Sam Wolfe, USGS
- 3:40 PM **Impacts of New Zealand Mud Snails on Southern Wisconsin Trout Streams** Kimberly Kuber*, WDNR and Colorado State University; Dan Preston, Colorado State University; Fernando Carvallo, Colorado State University; Landon Falke, Colorado State University
- 4:00 PM **Implications of Forest Invasive Insect Outbreaks for Stream-Riparian Ecosystems** Courtney Larson*, US Environmental Protection Agency; Kelsey Solomon, Florida International University; David Roon, Oregon State University
- 4:20 PM **Volunteer Aquatic Invasive Species Monitoring on Moving Waters in Wisconsin** Emily Heald, UW-Madison
- 4:40 PM **Discussion/Q&A**

Getting Boots on the Ground Through Innovative Partnerships

- 3:20 PM **Engaging Unique Audiences for Invasive Species Prevention and Management** Lindsay Peterson, Wild Rivers Invasive Species Coalition
- 3:40 PM **A Primer on Organizing Prescribed Burn Associations** Mark Horn, Wisconsin Prescribed Fire Council
- 4:00 PM **From Grants to Groundwork: Assessing the Impact of Grant-Funded Invasive Plant Management** Emilie Justen, MDA
- 4:20 PM **A Sampler of Local Leadership on Terrestrial Watch List Plant Response in Michigan** Katie Grzesiak, Michigan DNR
- 4:40 PM **Discussion/Q&A**

Landscape Scale Management

- 3:20 PM **Wisconsin DATCP's Rationale for Making Plant Pest Regulatory Decisions** Meg Sanders*, Shahla Werner, Brian Kuhn, Jennifer Oestreich, Wisconsin DATCP
- 3:40 PM **What's Bugging the Forest Sector? Invasive Species Threats, Pathways, and Solutions** Mackenzie DiGasparro, Invasive Species Centre
- 4:00 PM **Biosurveillance of Woody Plant Diseases: A Successful Invasive Pathogen Detection Program for Minnesota** Nickolas Rajtar*, Department of Plant Pathology, UMN; Benjamin Held, Department of Plant Pathology, UMN; Tessa Kothlow, Department of Plant Pathology, UMN; Colin Peters, Department of Plant Pathology, UMN
- 4:20 PM **Climate-Ready Woodlands: Invasive Species Prevention Through Ecosystem Resilience** Angela Gupta*, Anna Stockstad, and Emily Dombeck, UMN Extension

- 4:40 PM **Critical Cutting of Buckthorn: A New Tool in our Toolbox** Laura Domyancich-Lee* and Alex Roth, Friends of the Mississippi River

Knotweed Behavior and Management

- 3:20 PM **Sexual Reproduction of Knotweeds: Seed Germination, Pollen Viability and Segregation of Sex** Alan G. Smith*, Kevin K. Kamau, Roger Becker, and Neil O. Anderson, UMN
- 3:40 PM **Adventitious Rooting and Cutting Survival in Knotweeds: Key Mechanisms of Invasiveness** Kevin K. Kamau*, Alan G. Smith, Roger Becker, and Neil O. Anderson, UMN
- 4:00 PM **Successes and Challenges of Managing Invasive Knotweeds (*Fallopia* spp.) across the Lake Superior Basin of Wisconsin** Ramona Shackelford, Northwoods Cooperative Weed Management Area (CWMA)
- 4:20 PM **Carbohydrates Reserves of Invasive Knotweeds and Implications for Management** Roger Becker*, UMN; Ryan Mentz, Syngenta; George Annor and Matthew Clark, UMN
- 4:40 PM **Discussion/Q&A**

Celebrating Minnesota AIS Prevention Aid

- 3:20 PM **Celebrating 10 Years of Minnesota AIS Prevention Aid** Tina Fitzgerald* and Doug Jensen*, Minnesota DNR
- 3:40 PM **Clean Your Johnson (motor): AIS Prevention Program in Cook County, MN** Amanda Weberg, Cook SWCD
- 4:00 PM **Local Aquatic Invasive Species Prevention: A perspective from Otter Tail County, Minnesota** Spencer McGrew, Otter Tail County
- 4:20 PM **Itasca County's Wide World of Aquatic Invasive Species** Bill Grantges, Itasca County SWCD

Thursday November 14th

8:00am – 9:40am

Carp: Current Actions in Monitoring and Management

- 8:00 AM **2024 Update of the Minnesota Invasive Carp Action Plan** Grace Lopnow* and Kelly Pennington, Minnesota DNR
- 8:20 AM **Tracking Invasive Carp: Database Development at the USGS** Aaron Murphy*, Matthew Walker, and Marybeth Brey, USGS Upper Midwest Environmental Science Center
- 8:40 AM **Evaluating CO₂ and Sound as an Invasive Bigheaded Carp Deterrent in a Model Lock and Dam** Michael Frett* and Allen Mensinger, UMN-Duluth

- 9:00 AM **Copi: Eat Well, Do Good!** Kevin Irons*, Illinois Department of Natural Resources; Brian Schoenung, Illinois Department of Natural Resources; Gina Behnfeldt, Tetra Tech
- 9:20 AM **Discussion/Q&A**

Reducing Risks in Ballast Water

- 8:00 AM **Evaluation of Ballast Water Management Systems on Great Lakes Vessels** Nathan Schwartz*, and Christine Polkinghorne, Lake Superior Research Institute
- 8:20 AM **International Maritime Organization Ballast Water Discharge Standard Evaluated Using Mesocosms** Donn Branstrator*, UMN Duluth; Courtney Larson, US Environmental Protection Agency; Euan Reavie, UMN Duluth NRR; Matthew Etersson, US EPA
- 8:40 AM **Ballast-Borne Invasion Simulations in Mesocosms to Study Protist Risk-Release Relationships** Abigail Latanich* and Malachi Granmo, UMN, Duluth - Natural Resources Research Institute; Courtney Larson, UMN-Duluth & United States Environmental Protection Agency; Matthew Julius, St. Cloud State University
- 9:00 AM **Wakeboats and AIS: What Do We Know and What Do We Do About It?** Michael Engleson, Wisconsin Lakes
- 9:20 AM **Discussion/Q&A**

Lessons Learned from Response and Control

- 8:00 AM **Mobilizing the Community Through a Coordinated Response to Invasive Himalayan Balsam** Derissa Vincentini, Invasive Species Centre
- 8:20 AM **Landowner, County, and State Collaboration to Control Yellow-Floating Heart (*Nymphaoides peltata*) in a Private Pond Setting** Shelby Adler, Wisconsin DNR
- 8:40 AM **Nutria (*Myocastor coypus*) Response Process and After-Action Review (false positive) in Michigan** Ryan Wheeler, Michigan DNR
- 9:00 AM **Discussion/Q&A**

Forest Pests Part 1

- 8:00 AM **The Emerald Ash Borer Microbiome in Time and Space** Andrew Mann*, UMN; Judith Mogouong, Cornell University; David Showalter, Oregon Department of Forestry; Benjamin Held, UMN
- 8:20 AM **Management of Hemlock Woolly Adelgid in Michigan** Drew Rayner, Michigan DNR
- 8:40 AM **Michigan's Response to Balsam Woolly Adelgid** Rob Miller, MDARD
- 9:00 AM **Biocontrol of the Emerald Ash Borer (*Coleoptera: Buprestidae*) using Native Entomopathogenic Fungi** Colin Peters*, Benjamin Held, and Robert Blanchette, UMN

- 9:20 AM **Spread of Emerald Ash Borer into Northern Minnesota: Cold Adaptation or Warming Winters?** Robert Venette* and Andrea Scholer, USDA Forest Service; Jonathan Osthus and Chris Mallet, MDA

Terrestrial Forbs

- 8:00 AM **Native Prairie Forb Tolerance to Select Broadleaf Herbicide** Collin Cheney* and Travis Wilson, UW-Madison
- 8:20 AM **Ashy Sunflower (*Helianthus mollis*) as an Emerging Threat to Native Prairies** Travis Wilson* and Mark Renz, UW-Madison
- 8:40 AM **Can SiteVue Control Wild Parsnip (*Pastinaca sativa L.*) Without Harming Native Forbs?** Charlton Rodriguez*, UW-Madison; Travis Wilson, UW-Madison; Mark Renz, UW-Madison
- 9:00 AM **Invasive Brush Control in a Mosaic of Desirable Species** Jodie Crose* and Tanner Smith, Corteva Agriscience
- 9:20 AM **Discussion/Q&A**

10:20am – 12:00pm

Population Dynamics and Control of Quagga and Zebra Mussels

- 10:20 AM **Expanding Dreissena Situation in Lake Superior: New Tools, New Concerns, New Partnerships** Anett Trebitz*, US EPA Office of Research and Development; Chelsea Hatzenbuehler SPS Professional Services; Joel Hoffman and Courtney Larson, US EPA Office of Research and Development
- 10:40 AM **Zebra Mussel (*Dreissena polymorpha*) Densities in Apostle Islands National Lakeshore** Toben Lafrancois*, Northland College; Mark Hove, MAISRC; Jay Glase and Brenda Moraska Lafrancois, National Park Service
- 11:00 AM **Assessment of Organic Substrates as Sites for Zebra Mussel (*Dreissena polymorpha*) Attachment in Four West-Central Minnesota Lakes** April Londo*, Minnesota DNR; Raquel Collison, UMN, Mankato; Shannon Fisher, Minnesota DNR; John Krenz, UMN, Mankato
- 11:20 AM **Identifying Parameters Which Influence Carbon Dioxide Efficacy for Dreissenid Mussel Control** Matthew Barbour*, Matthew Meulemans, Todd Severson, and Jeremy Wise, USGS-Upper Midwest Environmental Sciences Center
- 11:40 AM **Eradication is on the Table – Success Stories vs Zebra and Quagga Mussels (*Dreissena polymorpha* and *Dreissena bugensis*)** David Hammond, Earth Science Labs, Inc.

Collaborative Approaches to Non-native *Phragmites* Management

- 10:20 AM **The *Phragmites* Adaptive Management Framework (PAMF): Working Towards Best Management Practices for the Great Lakes** Taaja Tucker-Silva*, Sam Tank, and Nichole Angell, GLC

- 10:40 AM **Ontario Phragmites Action Program - Lessons Learned Through Scaled Action on Canada's "Worst" Invasive Plant** Jenna White* and Colin Cassin Invasive Species Centre
- 11:00 AM **U.P. Phragmites Coalition - A Collaborative Approach to Success** Nick Cassel* and Nichole Wohlstein, Upper Peninsula Resource Conservation and Development Council
- 11:20 AM **Coordinated Response to European Common Reed (*Phragmites australis* subsp. *australis*) in Minnesota** Julia Bohnen* and Chelsey Blanke, UMN; Wendy Crowell, Minnesota DNR; Daniel Larkin, UMN
- 11:40 AM **Native Revegetation Success Following Removal of Invasive Phragmites (*Phragmites australis* ssp. *australis*)** Stephanie Boismenu, Oneida County Land & Water Conservation

Largescale and Long-term Planning and Evaluation

- 10:20 AM **Evaluating Implementation of Minnesota's Invasive Species Management Plan: Process, Results, Lessons Learned** Alexandra Lodge* and Doug Jensen, Minnesota DNR
- 10:40 AM **Working Towards Solutions: Prioritizing Research and Evaluating Impact** Nick Phelps, MAISRC
- 11:00 AM **A 28-Year Review of the Great Lakes Ruffe Control Program** Mike Rucinski*, US FWS and Nick Frohnauer, US FWS
- 11:20 AM **Looking Back and Thinking Ahead: How AIS Changes Zooplankton in Minnesota's Large Lakes** Kylie Cattoor*, Heidi Rantala, Jodene Hirsh, and Gary Montz, Minnesota DNR
- 11:40 AM **Discussion/Q&A**

Forest Pests Part 2

- 10:20 AM **Assessing Drivers of Range Expansion Across the Invasive Range of a Highly Damaging Insect Pest** Gabriela Nunez-Mir, University of Illinois-Chicago
- 10:40 AM **Surveying Non-Target Effects of *Bacillus thuringiensis kurstaki* (Btk) Sprays in Minnesota to Lepidopteran Communities** Sayesha Khanna* and Brian Aukema, UMN
- 11:00 AM **Might Pine Sawyer Beetle Pose a Barrier to Invasion of the Great Lakes Region by *Dendroctonus ponderosae*** Ella Maddi* and Brian Aukema, UMN
- 11:20 AM **Association Between Invasive Plant Species, Tick Abundance and Pathogen Carriage in Southern Illinois, USA** Chris Evans*, Yvette Johnson-Walker, and Teresa Steckler, University of Illinois; Holly Tuten, Illinois Natural History Survey
- 11:40 AM **Discussion/Q&A**

Biological Connections and Ecological Perspectives

- 10:20 AM **The Continuum Between Invasive Species and Invasible Ecosystems** Stephen Thomforde, Stantec Consulting Environmental Services
- 10:40 AM **Lessons Learned in Protecting and Restoring Biodiversity** Bonnie Harper-Lore* and Gary Lore, 85 conservation authors
- 11:00 AM **Honeysuckles (*Lonicera* spp.): Distribution, Hybridization, and Spotted-Wing *Drosophila* (*Drosophila suzukii*) Host Suitability** David Tork*, Alan Smith, Neil Anderson, Mary Rogers, UMN
- 11:20 AM **Invasive Plants Belong and Are Here to Stay** Frank Norman, Norman Ecological Consulting, LLC
- 11:40 AM **Needed Research Proposal – Does the Continued Accumulation of Novel Plant Introductions Threaten Ecosystems Across the World?** Jeffrey Flory