



MONDAY, OCTOBER 15, 2018

WELCOME PLENARY

[Celebrating Milestones: Building a Legacy for the Future](#) *Conference Hosts*

[Invasive Species Collaboration - the U.S. Department of Agriculture's Role](#) *Samantha Simon, Invasive Species Coordinator, United States Department of Agriculture*

[Citizen Science: The Benefits and Challenges of Using Volunteers for Invasive Species Monitoring and Management](#) *Alicia Crall, Educator and Program Evaluator, National Ecological Observatory Network*

[Using the Grass Carp Ecological Risk Assessment to Inform Management Actions in Canada](#) *Becky Cudmore, Regional Manager, Aquatic Invasive Species Program Fisheries and Oceans Canada/Pêches et Océans Canada*

MONDAY AFTERNOON: 1:00 PM – 2:40 PM

WORKSHOPS

[Great Lakes Briefs on Invasive Organisms Traded in Commerce \(GL BIOTIC\): Using Local Events as Alternatives to Pet and Plant Release](#) *Tim Campbell, Univ. of Wisconsin Sea Grant; Doug Jensen, Univ. of Minnesota Sea Grant; Greg Hitzroth, Illinois-Indiana Sea Grant; Scott Hardin, Pet Industry Joint Advisory Council*

[Identification of Native and Invasive Aquatic Plants of the Upper Midwest](#) *Paul Skawinski, UW-Extension Lakes Program; Eddie Heath, Onterra, LLC; Michelle Nault, Wisconsin DNR*

[Identification of Grasses, Sedges and Rushes](#) *Steve Eggers, US Army Corps of Engineers; Patricia Trochlell, Wisconsin DNR*

AQUATIC INVASIVE SPECIES OUTREACH

[Boating Safety for AIS Professionals](#) *David Sullivan-Nightengale, US Coast Guard Auxiliary*

[A Wisconsin Aquatic Invasive Species Pathways Priority: Outreach to Waterfowl Hunters](#) *Jeanne Scherer, UW Extension and WI DNR; Samantha Olsen, WI DNR; Chris Hamerla, Golden Sands RC&D*

[Angler Awareness and Action: Preventing the Spread of New Zealand Mudsnails](#) *Samantha Stanton, Michigan State Univ.; Daniel Hayes, Michigan State Univ.; Seth Herbst, Michigan DNR*

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[Furbearer Trapper: Invasive Species Outreach & Detection Opportunities](#) *Chris Hamerla, Golden Sands Resource Conservation & Development Council, Inc.*

[Engaging a Diverse Audience in AIS: Non-Motorized Boater Outreach](#) *Leah Elwell and Robert Wiltshire, Invasive Species Action Network*

YOUTH OUTREACH

[AIS Curriculum in the Classroom](#) *Anna Cisar, Cynthia Solinski, Alicia Razvi, Bianca Settimi, Cassidy O'Donnell, Amy Thorstenson, Golden Sands Resource Conservation & Development Council, Inc.*

[Prevention Through Education: Aquatic Invasive Species Education for Middle School Students](#) *Jessica Hendrix, Prairie Ecology Bus Center*

[Learning From Lake County: Engaging Youth in Authentic Invasive Species Science](#) *Rebecca Meyer, Univ. of Minnesota Extension; Tracey Anderson, Univ. of Minnesota Extension; Sonja Smerud, Lake County Soil & Water Conservation District*

[Minnesota 4-H Aquatic Robotics - Youth Making a Difference in AIS Education](#) *Brian McNeill, Suzanne Souza, and Patrick Jirik, Univ. of Minnesota Extension; Cara Gregar, Minnesota DNR*

[Equipping the Decision-Makers of Tomorrow for Conservation-Sake](#) *Sophie Monfette, Ontario Federation of Anglers and Hunters*

MONDAY AFTERNOON: 3:10 PM – 5:00 PM

WORKSHOP

[Strategies for Manual Removal of Invasive Species](#) *Chris Hamerla, Golden Sands Resource Conservation & Development Council, Inc.; Paul Skawinski, Univ. of Wisconsin Extension-Lakes*

GREAT LAKES BRIEFS ON INVASIVE ORGANISMS TRADED IN COMMERCE (GL BIOTIC)–OUTREACH

[Engaging Pet and Water Garden Retailers to Reduce Aquatic Invasive Species Introductions](#) *Paige Filice and Jo Latimore, Michigan State Univ.*

[Habitattitude in the Classroom](#) *Douglas Jensen, Univ. of Minnesota Sea Grant Program; Terri Hallesy, Illinois-Indiana Sea Grant Program; Helen Domske, New York Sea Grant Program*

[Don't Let It Loose Program: Addressing the Threat of Released Pets](#) *Leah Elwell, Invasive Species Action Network*

[Aquarium Retailer Engagement Program for AIS Prevention in Illinois](#) *Greg Hitzroth, Illinois-Indiana Sea Grant, Illinois Natural History Survey; Pat Charlebois, Illinois-Indiana Sea Grant, Illinois Natural History Survey*

EMERGING FOREST INVASIVES ACROSS REGIONS

[We've Got Issues: Invasive Forest Pests in the Southeastern US](#) *David Coyle, Clemson Univ.*

[Invasive Species Moving In, Out, and Around the Forests of the Western United States](#) *Andrew Graves, Tom Coleman, Allen White, Robbie Flowers, USDA Forest Service, Forest Health Protection; Steve Seybold, USDA Forest Service, Pacific Southwest Research Station*

[Priority Invasive Pests for Minnesota's Forests and Strategic Research Investments](#) *Robert Venette, USDA Forest Service & Univ. of Minnesota; Heather Koop, Minnesota Invasive Terrestrial Plants and Pests Center, Univ. of Minnesota*

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[Current and Emerging Threats to Canada's Forests](#) Tracey Cooke and David Nisbet, Invasive Species Centre

NEW TECHNOLOGY: eDNA

[DNA Concentration and Extraction Method Affect the Molecular Detection of Rare Targets](#) Craig Jackson, Jon Amberg, US Geological Survey-Upper Midwest Environmental Sciences Center

[Pairing Traditional Biological Assessment with DNA-Based Tools for AIS Early-Detection Monitoring](#) Anett Trebitz, Chelsea Hatzenbuehler, Joel Hoffman, Christy Meredith, Greg Peterson, US EPA Office of Research and Development, Mid-Continent Ecology Division; John Martinson, Sara Okum, Erik Pilgrim, US EPA Office of Research and Development

[An Evaluation of Metabarcoding to Determine Community Assemblage and Detection of Invasive Fishes](#) Yer Lor, Sunnie G. McCalla, Jon J. Amberg, US Geological Survey

[Laboratory Comparison of Biomeme and Benchtop qPCR for Larval Sea Lamprey eDNA](#) Rebecca Philips and Shawn Nowicki, US Fish & Wildlife Service; Todd Steeves, Fisheries and Oceans Canada; Jon Amberg, US Geological Survey; Matt Symbal and Robert Frank, US Fish & Wildlife Service

[Invasive Carp eDNA on the Wabash River in Indiana: Looking at Seasonal Trends and Habitat use Relating to Land Use Patterns](#) Chris Merkes, Tariq Tajjioui, Theresa Schreier, Richard Erickson, Erin Hoy, and John C. Nelson, US Geological Survey; Megan L. Gunn and Reuben R. Goforth, Purdue Univ.; Jon J. Amberg, US Geological Survey

EMPOWERING STAKEHOLDERS AND STUDENTS

[Demographics, Activities, and Concerns of Minnesota Lake Associations](#) Michelle Marko, Concordia College; Mona Ibrahim, Concordia College; Jeff Forester, Minnesota Lakes and Rivers Advocates; Matt Zabel, Concordia College; Benjamin Bjertness, Concordia College

[Landowner Conservation Associations: Habitat Game Changer](#) Mark Horn, Conservation Digest / Conservation Media LLC

[Minnesota Dept. of Agriculture Noxious Weed and Invasive Plant Grant Update](#) Emilie Justen, Minnesota Dept. of Agriculture

[Getting Good Work Done Helps Undergraduates Build a Professional Portfolio](#) Marte Kitson, Univ. of Minnesota Sea Grant Program

[How You Can Empower Youth as a Voice of Change](#) Rebecca Meyer, Univ. of Minnesota Extension, Center for Youth Development Valley Technology Park; Margo Bowerman, Univ. of Minnesota, Center for Youth Development

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TUESDAY, OCTOBER 16, 2018

TUESDAY MORNING: 8:00 AM – 9:40 AM

PRIORITIZATION OF EFFORTS

[Invasive Species and Biodiversity: Combining Information to Prioritize Management Projects](#) *Jennifer Dean, New York Natural Heritage Program; Lori Scott, NatureServe*

[Spatial Optimization of Invasive Species Management Based on Species, Areas, and Projects](#) *Jennifer Price Tack, Cornell Univ.; Carrie Brown-Lima, New York Invasive Species Research Institute; Angela Filler, US Geological Survey, New York Cooperative Fish and Wildlife Research Unit; Jennifer Dean, New York Natural Heritage Program*

[Assessing the Risk of AIS Establishment in Pennsylvania Using the USFWS RAMP Tool](#) *Sara Stahlman, Pennsylvania Sea Grant*

[Wisconsin's Changing Climate and Invasive Species](#) *Jason Granberg, Wisconsin DNR*

[Employing Distribution Modeling and Multi-Species Prioritization to Inform Regional Invasive Plant Management](#) *Jason Reinhardt, Univ. of Minnesota; Matthew Russell, Univ. of Minnesota; Monika Chandler, Minnesota Dept. of Agriculture; William Lazarus, Univ. of Minnesota; Senait Senay, Univ. of Minnesota*

GRAZING FOR INVASIVE PLANT MANAGEMENT

[Bovine Biocontrol: Studying Managed Grazing's Potential for Suppression of Woody Plants](#) *Laura Judge, Univ. of Wisconsin-Madison; Jacob Grace, Univ. of Wisconsin-Madison; Mark Renz, Univ. of Wisconsin-Madison*

[Goat Grazing During Winter in Minnesota: Ways to Control Vegetation on a Larger Scale While Saving on Supplemental Feed Costs](#) *Jacob Langeslag, Goat Dispatch, LLC; John Beckwidth, Hiawatha Valley Resource Conservation and Development Council*

[Goats in an Integrated, Multi-Year Invasive Vegetation Strategy](#) *Aaron Steele, Goats On The Go, LLC*

[Writing Effective Bid Specs for Procuring Targeted Grazing Providers for Invasive Vegetation Management](#) *Aaron Steele, Goats On The Go, LLC*

CITIZEN SCIENCE IN ACTION

[Volunteers and Citizen Science to Expand Aquatic Invasive Species Capacity in Minnesota](#) *Megan Weber, Univ. of Minnesota; Daniel Larkin, Univ. of Minnesota; Patrick Mulcahy, Univ. of Minnesota*

[Improving Invasive Species Management Through Wisconsin First Detector Network Partnerships](#) *Anne Pearce, Univ. of Wisconsin-Madison; Mark Renz, Univ. of Wisconsin-Madison*

[Mobilizing Citizen Scientists; An Ontario Perspective](#) *Lauren Bell, Invasive Species Centre*

[Empowering Citizens to Engage Resource Managers and Decision Makers](#) *Beth Kallestad, Univ. of Minnesota Extension; Angela Gupta, Univ. of Minnesota Extension*

[Wild Spotter: Mapping Invasives in America's Wild Places](#) *Chuck Barger, Univ. of Georgia; Pat Conzemius, Wildlife Forever*

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BUILDING CAPACITY LOCALLY, STATEWIDE, AND NATIONALLY

[Developing a Strategy for Managing Dreissenid Mussels in the Great Lakes](#) Erika Jensen, Great Lakes Commission; Sandra Morrison, US Geological Survey; Cecilia Weibert, Great Lakes Commission; Eric Ellis, Great Lakes Commission

[Invasives, IPM and the Regional Integrated Pest Management Centers](#) Laura Iles, North Central IPM Center, USDA; Daren Mueller, North Central IPM Center, USDA; Lynnae Jess, North Central IPM Center, USDA

[New York State's Invasive Species Program: Casting a Statewide Net](#) Catherine McGlynn, New York State Dept. of Environmental Conservation

[Minnesota AIS Prevention Aid: Empowering Local Innovation](#) Tina Wolbers, Phil Hunsicker, Minnesota DNR

[Challenges and Successes Associated With A Long-Term Intertribal Invasive Species Program](#) Travis Bartnick, Great Lakes Indian Fish & Wildlife Commission

ZEBRA MUSSEL GENETICS, ECOLOGY, AND CONTROL

[Estimating Densities of Zebra Mussels in Early Invasions Using Double-Observer Distance Sampling](#) Jake Ferguson, Univ. of Minnesota; John Fieberg, Univ. of Minnesota; Michael McCartney, Univ. of Minnesota

[Predicting Lake Changes After Zebra Mussel Introductions Based on Initial Chlorophyll Conditions](#) Steve McComas, Blue Water Science; Eric Fieldseth, Minnehaha Creek Watershed District

[Zebra Mussel \(*Dreissena polymorpha*\) Pilot Projects: A Discussion of Recent Eradication Efforts in Minnesota and What Next?](#) Kylie Cattoor, Minnesota DNR; Keegan Lund, Minnesota DNR; Kelly Pennington, Minnesota DNR; Tim Plude, Minnesota DNR

[The Zebra Genome: A Developing Tool for Research on Prevention and Control](#) Michael McCartney, Univ. of Minnesota

NEW TECHNIQUES IN MONITORING FOREST INVASIVES

[Robbing the Smokey Winged Beetle Bandit Wasp in Minnesota: Understanding Buprestid Diversity and Distribution](#) Marie Hallinen, Univ. of Minnesota Dept. of Entomology; Jennifer Schultz; Brian Aukema

[Accurate Detection of Oak Wilt at Multiple Scales Using Hyperspectral Sensors](#) Beth Fallon, Univ. of Minnesota Dept. of Ecology, Evolution & Behavior; Jenny Juzwik, US Forest Service/ Univ. of Minnesota; Rebecca Montgomery, Univ. of Minnesota; Beth Fallon, Univ. of Minnesota; Cathleen Nguyen, Univ. of Minnesota; Anna Yang, Univ. of Minnesota; Anna Schweiger, Univ. of Minnesota; Isabella Armour, Univ. of Minnesota; John Gamon, Univ. of Nebraska-Lincoln; Phil Townsend, Univ. of Wisconsin-Madison

[Invasive Plant Inventories of Refuge Forests in the Central Hardwoods Region](#) Joshua Booker, Amanda McColpin (contractor), Dan Wood, Karen Mangan, Brad Pendley, Ben Walker, US Fish and Wildlife Service

[Monitoring *Heterobasidion irregulare* in Minnesota and New Research on Managing the Pathogen](#) Eric Otto, Univ. of Minnesota; Robert Blanchette, Univ. of Minnesota; Benjamin Held, Univ. of Minnesota

[Ash yellows disease in Wisconsin and Minnesota](#) Kathy Kromroy, Minnesota Dept. of Agriculture; Kyoko Scanlon, Wisconsin DNR; Jonathan Osthus, Minnesota Dept. of Agriculture

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GREAT LAKES BRIEFS ON INVASIVE ORGANISMS TRADED IN COMMERCE (GL BIOTIC) RISK ASSESSMENT

[Risk Analysis for Regulated Species Illegal Trade and Transport in Great Lakes Jurisdictions](#) *Michael Hoff, Retired; Andrew Tucker, The Nature Conservancy; Lindsay Chadderton, The Nature Conservancy*

[Harmonizing Great Lakes Regulated Species Lists - Progress Towards Reconciling a Regional Patchwork](#) *Andrew Tucker, The Nature Conservancy; Lindsay Chadderton, The Nature Conservancy; David Hamilton, The Nature Conservancy; Erika Jensen, Great Lakes Commission; Ceci Weibert, Great Lakes Commission; Alisha Davidson, Wayne State Univ.*

[Analysis of Risk Assessment Results and Regulatory Outcomes for Woody Plants in the Great Lakes States](#) *Clair Ryan, Midwest Invasive Plant Network*

[GLDIATR: Protecting the Great Lakes from the Internet Trade of AIS](#) *Erika Jensen, Great Lakes Commission; Cecilia Weibert, Great Lakes Commission*

TUESDAY MORNING: 10:10AM – 11:50 AM

ECOLOGICAL RESEARCH ON INVASIVE PLANTS

[Explaining Inter-annual Variability of Invasive Annual Grasses in the Sagebrush Ecosystem](#) *Stephen P. Boyte, SGT, Inc. at the US Geological Survey EROS Center; Bruce K. Wylie, US Geological Survey EROS Center; Donald J. Major, Bureau of Land Management, Idaho*

[Comparative DNA Extraction of Historic vs. Extant Reed Canarygrass to Determine Native/Exotic Status](#) *Andrzej Noyszewski, Univ. of Minnesota; Neil Anderson, Dept. of Horticultural Science, Univ. of Minnesota; Alan Smith, Dept. of Horticultural Science, Univ. of Minnesota; Diana Dalbotten, St. Anthony Falls Laboratory, Univ. of Minnesota; Emi Ito, Dept. of Earth Sciences, Univ. of Minnesota; Mike Dockry, USDA Forest Service, The Strategic Foresight Group; Anne Timm, USDA Forest Center, Urban Forests, Human Health, and Environmental Quality; Holly Pellerin, Univ. of Minnesota, St Anthony Falls Laboratory*

[Genetic and Ecological Comparisons Between Native and Invasive Populations of Common Buckthorn](#) *Daniel Miller, Univ. of Minnesota Landscape Arboretum; Nastassia Vlasava, Central Botanical Gardens of the Belarus National Academy of Science; Alena Spiridovich, Central Botanical Gardens of the Belarus National Academy of Science; Arkadzi Skuratovich, Institute of Experimental Botany of the Belarus National Academy of Science; Jan Malysza, Univ. of Minnesota Landscape Arboretum*

[Plant Community and Soil Associations with Garlic Mustard Presence in Northeastern Forests](#) *Dustin Haines, Univ. of Minnesota Duluth; Jason Aylward, Harvard Forest; Serita Frey, Univ. of New Hampshire; Kristina Stinson, Univ. of Massachusetts Amherst*

[Japanese Stiltgrass: An Example of an Impactful Invader](#) *Daniel Tekiela, Univ. of Wyoming*

IDENTIFICATION AND MANAGEMENT OF PERENNIAL KNOTWEEDS

[Genetics of Knotweeds](#) *John Gaskin, USDA Agricultural Research Service; Mark Schwarzlaender, Univ. of Idaho; Fritz Grevstad, Oregon State Univ.; Marijka Haverhals, Univ. of Idaho; Robert Bouchier, Agriculture and AgriFood Canada; Timothy Miller, Washington State Univ.*

[Destruction From Below: Japanese Knotweed Eats Cities \(and Your Money\)](#) *Hannah Hudson, KnowKnotweed.org*

[Invasive Knotweed Control: On-The-Ground Experiences](#) *Katie Grzesiak, Northwest Michigan Invasive Species Network, Grand Traverse Conservation District*

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[Low-cost, Non-chemical Control of Japanese Knotweed – Proof it Works](#) *Johan Rud, Heatweed Technologies*

[Optimizing Japanese Knotweed Control and Estimating Costs to Eradicate Populations](#) *Mark Renz, Chris Bloomingdale, and Tony Summers, Univ. of Wisconsin Madison*

SUCCESSFUL COOPERATIVE AND COOPERATIVE WEED MANAGEMENT AREA (CWMA) / COOPERATIVE INVASIVE SPECIES MANAGEMENT AREAS (CISMA) EFFORTS

[Statewide Collaboration on Invasive Species Issues: “A CISMA for CISMAs”](#) *Christina Baugher, Michigan DNR; Ryan Wheeler, Michigan DNR*

[Engaging Local, County and State Officials in Managing Roadside Invasive Plants](#) *Christopher Gaetzke, Lower Chippewa Invasives Partnership, Inc.*

[Becker County CWMA, Establishing a Gravel Pit Certification Program](#) *Marsha Watland, Becker Soil & Water Conservation District*

[Noxious Weed Seed Free Forage & Mulch Program at Minnesota Crop Improvement Association](#) *Fawad Shah, Minnesota Crop Improvement Association*

[The Value of Including Municipalities in Your Invasive Species Discussion](#) *Krista Lutzke, Door County Soil & Water Conservation Dept.; Kari Hagenow, Door County Invasive Species Team Coordinator*

IMPROVING TRAININGS AND PROVIDING NEW RESOURCES

[Story Maps: How to Combine Engaging Visuals and GIS Principles to Tell Your Story](#) *Santiago Pelaez Mosquera, Univ. of Minnesota Extension*

[Incorporating Noxious Weeds and Invasive Species Lessons into Pesticide Trainings](#) *Gary Wyatt, Univ. of MN Extension; Angela Gupta, Univ. of Minnesota Extension; Dean Herzfeld, Univ. of Minnesota Extension*

[A Practical Evaluation of Michigan DNR Wildland Firefighters’ Perception of Invasive Species Decontamination Importance and Strategies to Increase Participation](#) *Ryan Wheeler, Michigan DNR*

[Novel Outreach: Library Distributed Training Kits for Prohibited Plant Identification](#) *Dawn Littleton, Univ. of Minnesota Extension; Angela Gupta, Univ. of Minnesota Extension; Monika Chandler, Minnesota Dept. of Agriculture; Emilie Justen, Minnesota Dept. of Agriculture; Christina Basch, Minnesota Dept. of Agriculture; Andrea Lorek Strauss, Univ. of Minnesota Extension*

[Flipped classroom: What are they and how can I use them?](#) *Angela Gupta, Megan Weber, Dan Larkin, UMN; Amy Rager, Univ. of Minnesota Extension*

THE CUMULATIVE POWER OF COOPERATION

[Great Lakes and Saint Lawrence Governors and Premiers Council](#) *Mike Piskur, Great Lakes St. Lawrence Governors and Premiers*

[Western Panel of the Aquatic Nuisance Species Task Force](#) *Leah Elwell, Western Regional Panel of the ANS Task Force*
Great Lakes Panel of the Aquatic Nuisance Species Task Force Sarah LeSage, Michigan Dept. of Environmental Quality

[St. Croix River Association](#) *Angelique Dahlberg, St. Croix River Association*

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HUMAN IMPACTS OF FOREST INVASIVES

[Working with Private Woodland Owners to Reduce the Impact of Invasive Plants](#) *Anne Pearce, Univ. of Wisconsin-Madison; Mark Renz, Univ. of Wisconsin-Madison; Brandon Bleuer, Southwest Badger RC&D; Niels Jorgensen, Univ. of Wisconsin-Madison*

[Logging Businesses and Invasive Forest Plants: An Assessment of their Awareness, Actions and Needs](#) *Stephanie Snyder, USDA Forest Service, Northern Research Station; Charles Blinn, Univ. of Minnesota, Dept. of Forest Resources*

[Bark-Beetle Impacted Forests: Do They 'Bug' Visitors?](#) *Ingrid Schneider, Univ. of Minnesota; Arne Arnberger, Institute of Landscape Development, Recreation and Conservation Planning, Univ. of Natural Resources and Life Sciences; Stuart Cottrell, Colorado State Univ.; Paul Gobster, USDA Forest Service; Stephanie Snyder, USDA Forest Service; Robert Venette, USDA Forest Service*

[Addressing Invasive Species Regionally Using Partnerships and Shared Technology](#) *Christopher Evans, Univ. of Illinois; Kevin Rohling, Univ. of Illinois*

[Certified Firewood and What It Means](#) *Katy Mutschler, Minnesota Dept. of Agriculture*

GREAT LAKES BRIEFS ON INVASIVE ORGANISMS TRADED IN COMMERCE (GL BIOTIC) – RESPONSE

[Keeping it Wild at Horicon National Wildlife Refuge: Efforts to Control of Invasive Goldfish](#) *Sadie O'Dell, US Fish and Wildlife Service*

[Parrot Feather in Michigan: Eradication and Lessons Learned](#) *William Keiper, Sarah LeSage, Tom Alwin, Michigan Dept. of Environmental Quality*

[Yellow Floating Heart in Michigan: An Update on Status and Response Efforts](#) *William Keiper, Michigan Dept. of Environmental Quality; Drew Rayner, West Michigan CISMA; Sarah LeSage, Michigan Dept. of Environmental Quality; Tom Alwin, Michigan Dept. of Environmental Quality*

[Coordinated Response Effort to the Red Swamp Crayfish \(*Procambarus clarkii*\) Invasion in Michigan](#) *Brian Roth, Michigan State Univ.; Seth Herbst, Michigan DNR; Kim Scribner, Michigan State Univ.; Kelley Smith, Michigan State Univ.; Nick Popoff, Michigan DNR*

[Wisconsin's Responses to Water Garden Invasions](#) *Tim Campbell, Univ. of Wisconsin Sea Grant & Univ. of Wisconsin-Extension; Jeanne Scherer, Univ. of Wisconsin-Extension; Chelsey Blanke, Wisconsin DNR*

TUES. LUNCH PLENARY

[Protecting Hawaii's Watersheds, One Incipient Miconia Plant at a Time with Extreme Prejudice](#) (file includes introductory slides and a link to a video) *Dr. James Leary, Associate Research and Extension Specialist, University of Hawaii*

TUESDAY AFTERNOON: 1:30 PM – 3:10 PM

WORKSHOPS

[Invasive Aquatic Animal Identification](#) (resource sheet – no presentation slides used) *Megan Weber, Univ. of Minnesota; Maureen Ferry, Wisconsin DNR*

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[Introduction to Prescribed Fire](#) Adam Gundlach, Wisconsin Prescribed Fire Council, Minnesota Prescribed Fire Council, Dustin Looman, Conservation Corps Minnesota & Iowa, Nancy Braker, Cowling Arboretum, Carleton College

- [Fire Behavior](#)
- [Evaluating Land for Fire Management](#)

NOVEL METHODS FOR INVASIVE PLANT CONTROL

A National Concern, Management of Invasive Annual Grasses Coast to Coast Daniel Tekiela, Univ. of Wyoming

[Invasive Plant Species Management - Leading the Non-Chemical Way](#) Johan Rud, Heatweed Technologies

[Precision Electronic Dispenser for Application of Herbicide Sprays and Foam](#) John Lampe, Green Shoots, LLC

[Developing Invasive Species Management Applications with Unmanned Aerial Systems](#) James Leary, DNR and Environmental Management, Univ. of Hawaii at Manoa; Roberto Rodriguez, Dept. Molecular Biology and Bioengineering, Univ. of Hawaii at Manoa; Ken Giles, Dept. Biological and Agricultural Engineering, Univ. California at Davis; Bill Reynolds, Leading Edge Associates, Inc.; Shannon Kern, Leading Edge Associates, Inc.; Dan Jenkins, Dept. Molecular Biology and Bioengineering, Univ. of Hawaii at Manoa

Aligning Herbicide, Technique, and Timing for Successful Dormant Season Woody Plant Control Scott Flynn, Corteva Agriscience; Elyssa Trejo, Corteva; Jerome Otto, Corteva

NON-NATIVE PHRAGMITES AND TYPHA PART 1

Results of Landscape-Scale, Exotic Phragmites Treatments in Wisconsin Brock Woods, Univ. of Wisconsin Extension / WDNR; Jason Granberg, Wisconsin DNR

Graceful Cattail (*Typha laxmannii*) Discovered in Southeast Wisconsin Amy Kretlow, Wisconsin DNR

[Removal of *Phragmites australis* ssp. *australis* and Site Augmentation with Native Vegetation on the Univ. of Wisconsin - Stevens Point Campus](#) Paul Skawinski, UW-Extension Lakes Program

[MNPhrag: Building Capacity to Respond to Invasive Phragmites in Minnesota](#) Julia Bohnen, Univ. of Minnesota; Daniel Larkin, Univ. of Minnesota; Susan Galatowitsch, Univ. of Minnesota

Advancing Best Management Practices for a Non-Native Grass Species: the Phragmites Adaptive Management Framework Elaine Ferrier, Great Lakes Commission; Samantha Stanton, Great Lakes Commission

EMERGING TOPICS OF CONCERN: DISTRIBUTION, LIFECYCLE, AND IMPACTS

Emerging Macrofouling Threats for Industrial Cooling Water Systems Renata Claudi, RNT Consulting Inc.

[Assessing the Impacts of Aquatic Invasive Species in the Great Lakes Basin](#) Rochelle Sturtevant, MI Sea Grant; Felix Martinez, NOAA National Centers for Coastal Ocean Science; El Lower, Cooperative Institute for Great Lakes Research; Ed Rutherford, NOAA Great Lakes Environmental Research Laboratory; Doran Mason, NOAA Great Lakes Environmental Research Laboratory; Ashley Elgin, NOAA Great Lakes Environmental Research Laboratory

[Evaluating Lake Thermal Suitability for Invasive Spiny Water Flea with Projected Warming in the Upper Midwest](#) Jake Walsh, UW-Madison Center for Limnology; M. Jake Vander Zanden, UW-Madison Center for Limnology

[Effects of Zebra Mussels and Spiny Waterflea on Sport Fish in Minnesota's Nine Largest Walleye Lakes](#) Gretchen Hansen, Minnesota DNR; Tyler Ahrenstorff, Minnesota DNR; Bethany Bethke, Minnesota DNR; Valerie Brady, Natural Resources Research Institute, Univ. of Minnesota Duluth; Josh Dumke, Natural Resources Research Institute, Univ. of

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UMISC NAISMA 2018 JOINT CONFERENCE PROCEEDINGS

Minnesota Duluth; Will French, Minnesota DNR; Jodie Hirsch, Minnesota DNR; Katya Kovalenko, Natural Resources Research Institute, Univ. of Minnesota Duluth; Ryan Maki, Voyageurs National Park, National Park Service; Heidi Rantala, Minnesota DNR

[Linking AIS to Water Quality: A Biological Aspect to TMDLs?](#) Tom Langer, Wenck Associates; Jeff Strom, Wenck Associates

NEW DIRECTIONS WITH EMERALD ASH BORER

[Re-examining the Spread of Emerald Ash Borer](#) Brian Aukema, Univ. of Minnesota

[EAB Biological Control and Parasitoid Recovery in Minnesota](#) Christopher Mallet, Minnesota Dept. of Agriculture; Angie Ambourn, Minnesota Dept. of Agriculture; Jonathan Osthus, Minnesota Dept. of Agriculture; Monika Chandler, Minnesota Dept. of Agriculture; Brian Aukema, Univ. of Minnesota; Rob Venette, Univ. of Minnesota

[Suppression of Emerald Ash Borer in Urban Areas](#) Jennifer Burington, Minnesota Dept. of Agriculture; Angie Ambourn, Minnesota Dept. of Agriculture; Mark Abrahamson, Minnesota Dept. of Agriculture

[Systemic Insecticide Treatment Against Emerald Ash Borer: Associative Protection and Potential Non-Target Effects](#) Dora Mwangola, Univ. of Minnesota; Brian Aukema, Univ. of Minnesota

Fungi Associated with the Emerald Ash Borer: The Role of Fungi During Ash Mortality and Finding Effective Biocontrol Agents Benjamin Held, Dept. of Plant Pathology, Univ. of Minnesota; Alissa J. Cotton, Dept. of Plant Pathology, Univ. of Minnesota; Kathryn E. Bushley, Dept. of Plant Biology, Univ. of Minnesota; Robert A. Blanchette, Dept. of Plant Pathology, Univ. of Minnesota

GREAT LAKES BRIEFS ON INVASIVE ORGANISMS TRADED IN COMMERCE (GL BIOTIC) INDUSTRY

[Where Ecology Meets Economy: Forum for Green Industry and Land Management Professionals](#) Natalie Dorrlor, Southeastern Wisconsin Invasive Species Consortium, Inc.; Jill Hapner, Southeastern Wisconsin Invasive Species Consortium, Inc.

[Landscape Alternatives: Helping Consumers make Ecologically Wise Choices When Buying Plants](#) Susan Franklin, Midwest Invasive Plant Network; Clair Ryan, Midwest Invasive Plant Network; Mark Renz, Univ. of Wisconsin; Anne Pearce, Wisconsin First Detectors Network

New tactical approaches that the Green Industry is using to win the battle against Invasive Species Thomas Buechel, Buechel Horticulture Solutions, LLC and Nature Hills Nursery

PIJAC Efforts to Prevent the Introduction of Invasive Species Scott Hardin, Pet Industry Joint Advisory Council

TUESDAY AFTERNOON: 3:30 PM – 5:10 PM

WORKSHOP

[Know the Problem: Tips to Identifying Invasive Forest and Range Pests](#) David Coyle, Southern Regional Extension Forestry; Angela Gupta, Univ. of Minnesota; Angela Ambourn, Minnesota Dept. of Agriculture

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IMPROVING INTERACTIONS BETWEEN SCIENTISTS AND LAND MANAGERS

[Promoting Science and Innovation to Reduce the Impact of Invasive Species in New York State](#) *Carrie Brown-Lima, New York Invasive Species Research Institute - Cornell Univ.*

[Using Citizen Science Observations to Validate 20 Habitat Suitability Models in Wisconsin](#) *Mark Renz, Univ. of Wisconsin Madison; Niels Jorgensen, Univ. of Wisconsin Madison*

[On the Woad Again – A Model for Weed Eradication Programs](#) *Jane Mangold, Montana State Univ.; Amber Burch, Beaverhead County Weed District; Monica Pokorny, USDA-NRCS*

[EDDMapS Plant Damage: Using Citizen Science to Understand Drivers of Invasive Plant Diseases and Herbivory](#) *Amy Kendig, Univ. of Florida; Charles Barger, Univ. of Georgia; S. Luke Flory, Univ. of Florida*

IMPROVING HERBICIDE EFFECTIVENESS AND MINIMIZING IMPACTS

[Working to Maximize Herbicide Effectiveness While Minimizing Off-Target Issues](#) *Gregory Dahl, Winfield United; Eric Spandl, Winfield United; Ryan Edwards, Winfield United; Daniel Bissell, Winfield United*

[Control of Invasive Brush and Tree Species with Method 240SL](#) *Jason Belcher, Bayer*

[Large Scale Evaluation of Reed Canarygrass Suppression Across Four SE Minnesota Floodplain Sites](#) *William Kiser, US Fish and Wildlife Service/Univ. of Wisconsin - La Crosse; Maria DeLaundreau, Univ. of Minnesota; Rebecca Montgomery, Univ. of Minnesota; Andy Beebe, Audubon Minnesota; Meredith Thomsen, Univ. of Wisconsin - La Crosse*

[Tree Sapling Responses to Reed Canarygrass Treatments in SE Minnesota](#) *Maria DeLaundreau, Univ. of Minnesota; William Kiser, Univ. of Wisconsin-La Crosse; Rebecca Montgomery, Univ. of Minnesota; Andrew Beebe, Audubon Minnesota; Meredith Thomsen, Univ. of Wisconsin-La Crosse*

[Improving Herbicide Effectiveness with New Product Technology](#) *Clair Volk, Corteva*

NON-NATIVE PHRAGMITES AND TYPHA PART 2

[Effects of Invasive *Phragmites australis* and Wetland Restoration on Biotic Communities in a World Biosphere Reserve](#) *Courtney Robichaud, Univ. of Waterloo; Rebecca Rooney, Univ. of Waterloo*

[Identifying Cattail Species and Their Hybrids Using Molecular Markers: Lessons Learned](#) *Pamela Geddes, Northeastern Illinois Univ.*

[Can We Control Southern Cattail \(*Typha domingensis*\) in a Midwest Wetland System?](#) *Alice Thompson, Thompson & Associates Wetland Services; Aaron Menke, Thompson & Associates Wetland Services*

[Exploring the Shifting Distribution of Suitable Habitat for *Phragmites Australis* Under Future Climate Scenarios in Wisconsin](#) *Niels Jorgensen, Univ. of Wisconsin-Madison; Mark Renz, Univ. of Wisconsin-Extension/Univ. of Wisconsin-Madison*

EMERGING SPECIES OF CONCERN: RESPONDING TO NEW INFESTATIONS

[Hydrilla vs. New York](#) *Catherine McGlynn, New York State Dept. of Environment and Conservation*

[Managing European Frogbit in Michigan](#) *Tom Alwin, Michigan Dept. of Environmental Quality; Bill Keiper, Michigan Dept. of Environmental Quality; Sarah LeSage, Michigan Dept. of Environmental Quality*

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[Sinking Water Soldier Permanently](#) *Sophie Monfette, Ontario Federation of Anglers and Hunters; Francine MacDonald, Ontario Ministry of Natural Resources and Forestry; Holly Simpson, Ontario Ministry of Natural Resources and Forestry*

[Range Expansion and Diet of Round Gobies in Streams of Northwestern Pennsylvania](#) *Casey Bradshaw-Wilson, Allegheny College; Jay Stauffer, Jr., Penn State Univ.*

[Response Following the Discovery of Round Gobies in Little Lake Butte des Morts](#) *Michelle Nault, Bob Wakeman, Wisconsin DNR*

GREAT LAKES BRIEFS ON INVASIVE ORGANISMS TRADED IN COMMERCE (GL BIOTIC - BAIT)

[Baitfish: Small Fish, Big Problem?](#) *Nicholas Phelps, Univ. of Minnesota/Minnesota Aquatic Invasive Species Research Center*

[Reducing the Risk of Aquatic Invasive Species in the Bait Harvest Pathway](#) *Kelly Pennington, Minnesota DNR*

[What's in YOUR Bucket? Quantifying AIS Introduction Risk](#) *Meg McEachran and Nick Phelps, Univ. of Minnesota*

[Risk-Mitigation Strategies for the Bait Industry: AIS-HACCP and the Verification Program](#) *Ronald Kinnunen, Michigan Sea Grant; Chris Weeks, Global Aquaculture Alliance; Nick Phelps, Univ. of Minnesota*

WEDNESDAY, OCTOBER 17, 2018

WEDNESDAY MORNING: 8:00 AM – 9:40 AM

INVASIVE CARP: DETECTION, MANAGEMENT, AND COLLABORATION

[Toward a New Common Carp Management Tool: Testing Species-Specific Corn-Based Toxic Bait](#) *Peter Hundt, Univ. of Minnesota; Przemyslaw Bajer, Univ. of Minnesota*

[Development of Novel Tools to Control Invasive Fishes](#) *Jon Amberg, Blake Sauey, Joel Putman, US Geological Survey – Upper Midwest Environmental Sciences Center*

[Understanding Invasive Carp in the Non-Established Front](#) *Nick Frohnauer, John Waters, Ben Larson, Minnesota DNR*

[Upper Mississippi River Invasive Carp Collaborative Efforts](#) *Nick Frohnauer, Minnesota DNR; Kim Bogenschutz, Iowa DNR; Kevin Irons, Illinois DNR; Sarah Tripp, Missouri Dept. of Conservation; Jordan Weeks, Wisconsin DNR US Fish and Wildlife Service, US Geological Survey, National Park Service, US Army Corps of Engineers*

[The Great Lakes Invasive Carp Challenge – Crowdsourcing Solutions for Invasive Species Management](#) *Joanne Foreman, Michigan DNR*

CURRENT AND FUTURE RESOURCES FOR MAPPING INVASIVE SPECIES PART I

[A National Alert Risk Mapper \(ARM\) for Nonindigenous Aquatic Species](#) *Wesley Daniel, Cherokee Nation Technology; Pam Fuller, US Geological Survey; Ian Pflingsten, Cherokee Nation Technology; Matthew Neilson, US Geological Survey*

[How to Map Your Data Fields to Existing Data Standards](#) *Annie Simpson, US Geological Survey*

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Feds, States, and Non-Profits, Oh My! How EDDMapS Works with Diverse Partners *Rebekah Wallace, Univ. of Georgia; Charles Barger, Univ. of Georgia*

Invasive Species Data Sharing: What's New and What's Next *Chuck Barger, Univ. of Georgia*

[Invasive Species Mapping in Minnesota](#) *Laura Van Riper, Minnesota DNR; Monika Chandler, Minnesota Dept. of Agriculture; Angela Gupta, Univ. of Minnesota Extension; Kelly Pennington, Minnesota DNR*

EARLY DETECTION AND RESPONSE

[A Novel County AIS Management Program](#) *Chris Evans, Itasca Soil & Water Conservation District; Bill Grantges, Itasca Soil & Water Conservation District*

[Partner Engagement in a Watershed-Wide Zebra Mussel Early Detection and Monitoring Program](#) *Angelique Dahlberg, St. Croix River Association; Byron Karns, National Park Service - St. Croix National Scenic Riverway*

[A Comprehensive Great Lakes AIS Early Detection and Monitoring Program](#) *Cari-Ann Hayer and Mark Brouder, US Fish and Wildlife Service*

[Paper to Progress: Creating a Local New Infestation Response Plan](#) *Justin Townsend, Ramsey Conservation District*

[New Terrestrial and Wetland Invasive Plants You Should Know About](#) *Kelly Kearns, Wisconsin DNR*

FIRE AND INVASIVE PLANT MANAGEMENT PART I

[Exploring the Seasonality of Fire Effects in the Midwest](#) *Jack McGowan-Stinski, Lake States Fire Science Consortium*

[Impacts of Prescribed Fire Intensity and Seasonality on Woody Vegetation](#) *Nathan Holoubek, Wisconsin DNR; Jed Meunier, Wisconsin DNR*

[Effects of Prescribed-Fire Timing on Vigor of *Sericea Lespedeza* in Tallgrass Prairie: Target Organism Responses](#) *KC Olson, Kansas State Univ.; J. A. Alexander, Kansas State Univ.; W. H. Fick, Kansas State Univ.; S. B. Ogden, Kansas State Univ.; D. A. Haukos, Kansas State Univ.; J. Lemmon, Kansas State Univ.; G. A. Gatson, Kansas State Univ.*

[Effects of Prescribed-Fire Timing on Vigor of *Sericea Lespedeza* in Tallgrass Prairie: Non-Target Organism Responses \(see second part of presentation above\)](#) *KC Olson, Kansas State Univ.; J. A. Alexander, Kansas State Univ.; W. H. Fick, Kansas State Univ.; S. B. Ogden, Kansas State Univ.; D. A. Haukos, Kansas State Univ.; J. Lemmon, Kansas State Univ.; G. A. Gatson, Kansas State Univ.*

COMMUNITY-BASED SOCIAL MARKETING FOR INVASIVE SPECIES PREVENTION

Preventing Unwanted Invasive Species – A Psychological Approach *Christie Manning, Macalester College*

[Changing Behaviour - Going Beyond Awareness](#) *Danielle Toperczer, Invasive Species Council of British Columbia*

[Awareness, Attitudes and Behaviours - Results of a Pan-Canadian Survey](#) *Ken Donnelly, Beyond Attitude Consulting*

[Community Based Social Marketing: Demonstrated Impacts from Motivation to Behaviors on AIS](#) *Doug Jensen, Univ. of Minnesota Sea Grant*

[From Impressions and Awareness to Commitments and Impact: Community-Based Social Marketing](#) *Greg Husak, Minnesota DNR*

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STATUS AND TRENDS IN JAPANESE BARBERRY

[Japanese Barberry Regulation and Distribution in the Upper Midwest](#) *Emilie Justen, Minnesota Dept. of Agriculture*

[Is Japanese Barberry the New Multiflora Rose? Exploring Current and Future Suitable Habitat in Wisconsin](#) *Niels Jorgensen, Univ. of Wisconsin-Madison; Mark Renz, Univ. of Wisconsin-Extension/Univ. of Wisconsin-Madison*

[A Brief History of Common Barberry Eradication in Wisconsin, 1918-Present](#) *Adrian Barta, Wisconsin Dept. of Agriculture, Trade and Consumer Protection*

[Combining Education and Research in an Undergraduate Invasion Ecology Class](#) *Moni Berg-Binder, Saint Mary's Univ. of Minnesota; Benjamin Pauli, Saint Mary's Univ. of Minnesota; Invasion Ecology Students, Saint Mary's Univ. of Minnesota*

WEDNESDAY MORNING: 10:00 AM – 11:40 AM

INVASIVE CARP: DISPERSAL BARRIERS

[Setting the Acoustic Scene Before Acoustic Deterrents are Used to Prevent Invasive Carp Movements](#) *Rosalyn Putland, Univ. of Minnesota Duluth; Andrew Nissen, Univ. of Minnesota Duluth; Allen Mensinger, Univ. of Minnesota Duluth*

[Measuring Impacts of Anthropogenic Sound on Hearing Sensitivities of Bigheaded Carps](#) *Andrew Nissen, Univ. of Minnesota Duluth; Allen Mensinger, Univ. of Minnesota Duluth; Loriane Rogers, Univ. of Minnesota Duluth*

[Pairing Sound with Air Curtains Results in a Highly Effective Carp Deterrent](#) *Clark Dennis, Univ. of Minnesota; Peter Sorensen, Univ. of Minnesota*

[Computational Model of Fish Swimming Through Mississippi River Locks and Dams Demonstrates Ways To Stop Carp](#) *Anvar Gilmanov, Univ. of Minnesota; Peter Sorensen, Univ. of Minnesota*

CURRENT AND FUTURE RESOURCES FOR MAPPING INVASIVE SPECIES PART II

[Invasive Species Data Management at the Local Level in Northern Wisconsin](#) *Miles Falck, Great Lakes Indian Fish and Wildlife Commission*

[Leveraging Esri Tools to Facilitate Invasive Species Data Collecting and Sharing](#) *Lori Scott, NatureServe; John Marino, New York Natural Heritage Program; Jennifer Dean, New York Natural Heritage Program; Trang Nguyen, NatureServe*

[Wisconsin's Invasive Species Mapping Efforts](#) *Maureen Ferry, Wisconsin DNR; Jacob Dickman, Wisconsin DNR; Paul Skawinski, Univ. of Wisconsin Extension Lakes; Benjamin Kort, Wisconsin DNR; Jason Granberg, Wisconsin DNR; Jeanne Scherer, Wisconsin DNR; Dennis Wiese, Wisconsin DNR*

[Utah Invasive Species Data Management Programs Overview](#) *Eagar Aaron, Utah Dept. of Agriculture and Food*

[MISIN- Bridging the Gap and Closing the Loop on Invasive Species Data](#) *Amos Ziegler, Michigan State Univ.*

PREVENTION BY BOAT, BALLAST, AND GEAR

[Spiny Waterflea Dispersal: Quantifying Ensnarement Risk by Recreational Equipment](#) *Josh Dumke, Natural Resources Research Institute, Univ. of Minnesota Duluth; Donn Branstrator, Dept of Biology, Univ. of Minnesota Duluth*

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[Transport and Survival of Zebra Mussel Veligers in Recreational Boats](#) Adam Doll, Michael McCartney, Minnesota Aquatic Invasive Species Research Center

[Contingency Ballast Water Treatment System Development and Implementation](#) Jeff Henquinet, Henquinet Consulting, LLC; Phyllis Green, National Park Service

[Employing CD3 Technology, Tools and Clean Drain Dry Prevention Strategies for Real Results](#) Pat Conzemius, Wildlife Forever; Edgar Rudberg, CD3

[Five Years of Voluntary Boat Washing Programs in Michigan: Successes and Challenges](#) Jo Latimore, Michigan State Univ.

FIRE AND INVASIVE PLANT MANAGEMENT PART II

[Monitoring and Assessment Approaches to Inform Prescribed Fire and Invasive Species Control](#) Michelle Foss, Fontenelle Forest

[Where We Burn - Treating Invasive Species Through a Holistic Approach To Oak Savanna and Woodland Restoration](#) Matt Miller, Fontenelle Forest

[Monitoring Fire Effects to Refine Burn Prescriptions and Plans](#) Ashley Cole-Wick, Kalamazoo Nature Center; Michele Richards, Michigan Army National Guard

[Fuel Monitoring to Form Best Management Practices When Burning in Iowa's Loess Hills Landform](#) Lindsay Barney, Iowa DNR

GYPSY MOTH AND HEMLOCK WOOLY ADELGID

[MDA Gypsy Moth \(*Lymantria dispar*\) Program Updates- Surveys & Treatments](#) Natasha Northrop, Minnesota Dept. of Agriculture

[Hemlock Woolly Adelgid in Michigan: Regulatory Tools for Mitigating Human-Assisted Spread](#) Michael Bryan, Michigan Dept. of Agriculture and Rural Development

[Responding To Hemlock Woolly Adelgid](#) Drew Rayner, Ottawa Conservation District

[Protecting Michigan's Hemlock](#) Sue Tangora, Michigan DNR

PREVENTION: PATHWAYS

[Understanding Boater Values and Behaviors to Prevent the Spread of Aquatic Invasive Species](#) Amit Pradhananga, Univ. of Minnesota

[Headed North: Novel Introduction Pathways are Presenting New Challenges in Minnesota](#) Marissa Streifel, Minnesota Dept. of Agriculture; Angie Ambourn, Minnesota Dept. of Agriculture; Kimberly Thielen Cremers, Minnesota Dept. of Agriculture; Mark Abrahamson, Minnesota Dept. of Agriculture

[Taking Action on Invasive Species Through the Horticulture](#) Kellie Sherman, Canadian Council on Invasive Species

[Research Guiding Action: Results of AIS Predictive Modeling in a MN County](#) Josh Dumke, Kristi Nixon, Univ. of Minnesota Duluth-Natural Resources Research Institute

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PLAYCLEANGO SUMMIT PART I

[Summit Welcome, Accomplishments and Future Direction](#) Sue Burks, Minnesota DNR; and Belle Bergner, North American Invasive Species Management Association

[PlayCleanGo in Canada](#) Kellie Sherman, Canadian Council on Invasive Species

[Awareness, Attitudes and Behaviours – Results of a Pan-Canadian Survey](#) Ken Donnelly, Beyond Attitude Consulting

[PlayCleanGo Message Customization 101](#) Kim Lanahan-Lahti, Minnesota DNR

WED. LUNCH PLENARY

[Classical Weed Biocontrol: a Lost Case or the Only Way Forward?](#) Harriet L. Hinz, Centre for Agriculture and Biosciences International (CABI) Switzerland

WEDNESDAY AFTERNOON: 1:30 PM – 3:10 PM

STARRY STONEWORT AND CURLY-LEAF PONDWEED MANAGEMENT

[Effects of Repeated Herbicidal Control and Environmental Conditions on Curlyleaf Pondweed](#) Michael Verhoeven, Daniel Larkin, Raymond Newman, Univ. of Minnesota - Minnesota Aquatic Invasive Species Research Center

[Predicting and Responding to Starry Stonewort Invasion in Minnesota Lakes](#) Daniel Larkin, Univ. of Minnesota; Ranjan Muthukrishnan, Univ. of Minnesota; Wesley Glisson, Univ. of Minnesota; Carli Wagner, Univ. of Minnesota; Rafael Contreras-Rangel, Univ. of Minnesota; Michael Verhoeven, Univ. of Minnesota

[The Evaluation of Starry Stonewort Control Projects in Minnesota](#) Christine Jurek, Minnesota DNR

[Hand-Pulling Starry Stonewort \(*Nitellopsis obtusa*\) in Grand Lake, Stearns County, Minnesota](#) Timothy Plude, Minnesota DNR

DEALING WITH INVASIVES DURING RESTORATION, PART I

[Persistence of Invasive Species Over Time in Prairie Reconstructions](#) Diane Larsen, US Geological Survey; J.B. Bright, US Fish and Wildlife Service; Pauline Drobney, US Fish and Wildlife Service; Jennifer Larson, Polistes Foundation; Sara Vacek, US Fish and Wildlife Service

[Can Revegetation Prevent Re-Establishment of Removed Invasive Plant Species?](#) Michael Schuster, Peter Wragg, Peter Reich, Univ. of Minnesota

[Submersed Aquatic Plant Restoration: A Case Study from Below the Surface](#) Keegan Lund, Minnesota DNR; James Johnson, Freshwater Scientific Services

[Emerging Native Seeding Practices to Prevent Invasive Species](#) Dan Shaw, Minnesota Board of Water and Soil Resources

[Pesticides Drift, Invasive Grasses, and the Disappearance of Threatened and Endangered Butterflies](#) Erik Runquist, Minnesota Zoo

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PALMER AMARANTH AND NATIVE SEED PRODUCTION, PART I

[Seed Inspections Can Prevent the Spread of Noxious Weeds](#) *Michael Merriman, Minnesota Dept. of Agriculture*

[Partnering to Prevent the Introduction of Invasive Species in Native Seed](#) *Dan Shaw, Minnesota Board of Water and Soil Resources*

[Seed Labelling in Minnesota—Why are Labels Required and What Does a Label Convey?](#) *Denise Thiede, Minnesota Dept. of Agriculture*

[Native Seed Quality in Production](#) *Jessi Strinmoen, Shooting Star Native Seeds*

[Introduction of Palmer Amaranth into Iowa and Minnesota: Lessons Learned](#) *Anthony Cortilet, Minnesota Dept. of Agriculture*

INVASIVE PLANTS IN THE CARROT FAMILY

[Carrot Family Identification Part I](#) *David Hanson, Minnesota Dept. of Transportation*

[Carrot Family Identification Part 2 \(see second part of presentation above\)](#) *David Hanson, Minnesota Dept. of Transportation*

[Invasion of the Giant Hogweed: Working with Landowners and the Public](#) *Kelly Kearns, Wisconsin DNR; Josh Kraemer, Applied Ecological Services; Jill Hapner, Southeastern Wisconsin Invasive Species Consortium*

[Management of Wild Parsnip in Non-Crop Areas with Herbicides](#) *Chris Bloomingdale, Univ. of Wisconsin-Madison; Jason Belcher, Bayer Crop Science; Mark Renz, Univ. of Wisconsin-Madison*

[Developing a Cost-Effective Approach to Control Wild Chervil, Wild Parsnip, and Other Invasive Roadside Weeds](#) *Lee Shambeau, 4-Control*

PLAYCLEANGO SUMMIT PART II

[Strategic Marketing 101: How To Engage Your Stakeholders Using the PlayCleanGo Campaign](#) *Jacqueline Lalley, Partner, YodelPop Inc.*

Final Discussion: How Can PlayCleanGo Staff Help You?

INVASIVE EARTHWORMS

[‘Jumping Worms’, *Amyntas agrestis*: Impacts on Forest Soils and Tree Seedlings](#) *Tricia Bethke, The Morton Arboretum*

[Effects of Invasive Jumping Earthworms on Sugar Maple Functioning](#) *Kimberly O’Keefe, Katherine McCulloh, Univ. of Wisconsin-Madison*

[Invasion Dynamics and Community Changes in Hardwood Forests Following the Arrival of Asian Jumping Worms](#) *Bradley Herrick, Univ. of Wisconsin-Madison Arboretum; Katie Laushman, US Geological Survey; Sara Hotchkiss, Univ. of Wisconsin-Madison; Marie Johnston, Univ. of Wisconsin-Madison Arboretum*

[Cocoon Heat Tolerance of Earthworms *Amyntas tokioensis* and *Amyntas agrestis*](#) *Marie Johnston, Univ. of Wisconsin-Madison; Bradley Herrick, Univ. of Wisconsin-Madison Arboretum*

[Successful Education and Outreach for Jumping Worms in Wisconsin](#) *Jodie Ellis, Bernadette Williams, Wisconsin DNR Forest Health*

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BIOLOGICAL CONTROL I

Unraveling the Microorganisms Associated with Eurasian Watermilfoil: Potential Candidates for Biological Control? *Prince Mathai, Univ. of Minnesota; Hannah Dunn, Univ. of Minnesota; Paolo Magnone, Univ. of Minnesota; Michael Sadowsky, Univ. of Minnesota*

Is Biocontrol a Future Control Option for Flowering Rush Management? *Jennifer Andreas, Washington State Univ. Extension; Hariet Hinz, Center for Agriculture and Biosciences International Switzerland; Patrick Haefliger, Center for Agriculture and Biosciences International Switzerland; Peter Rice, Univ. of Montana; Jenifer Parsons Washington State Dept. of Ecology; Greg Haubrich, Washington State Dept. of Agriculture*

Invasive Plant Integrated Pest Management: Where, When and Why Classical Weed Biological Control is Critical *Carol Bell Randall, USDA Forest Service*

Understanding the Theoretical and Ecological Influence of the Parasitoid *Aphelinus certus* on Soybean Aphid *James Miksanek, George Heimpel, Univ. of Minnesota Dept. of Entomology*

Biological Control of Canada Thistle: Host Range of *Hadroplontus litura* on Native *Cirsium spp.* *Mary Marek-Spartz, Univ. of Minnesota; Elizabeth Katovich, Univ. of Minnesota; Roger Becker, Univ. of Minnesota; Monika Chandler, Minnesota Dept. of Agriculture; Laura Van Riper, Minnesota DNR*

WEDNESDAY AFTERNOON: 3:30 PM – 5:10 PM

EURASIAN WATERMILFOIL

Lakewide Control of Eurasian Watermilfoil: A New Model for Success *Keegan Lund, Minnesota DNR; Justine Dauphinais, Coon Creek Watershed District; James Johnson Freshwater Scientific Services*

Lakewide Control of Eurasian Watermilfoil: A New Model for Success- Part 2 (see second part of presentation above) *Keegan Lund, Minnesota DNR; Justine Dauphinais, Coon Creek Watershed District; James Johnson Freshwater Scientific Services*

Planning and Evaluating Large-Scale Herbicide Treatments for Control of Invasive Milfoil in Challenging Scenarios *Eddie Heath, Onterra, LLC; Michelle Nault, Wisconsin DNR; Tim Hoyman, Onterra, LLC*

Early Operational Demonstration of Selective Invasive Watermilfoil Control with ProcellaCOR (a.i. *Florpyrauxifen-Benzyl*) *Mark Heilman, SePRO Corporation*

Modelling Eurasian Watermilfoil Occurrence and Abundance: Application to Prioritizing Prevention and Control *Alison Mikulyuk, Wisconsin DNR; Ellen R. Kujawa, Lake Champlain Basin Program; Catherine M. Hein, Wisconsin DNR; M. Jake Vander Zanden, Univ. of Wisconsin - Madison*

DEALING WITH INVASIVES DURING RESTORATION, PART II

Oak Savanna Resilience-Based Site Assessment Tool to Guide Restoration Requiring Invasive Species Control *Eric Chien, Susan Galatowitsch, Univ. of Minnesota*

The Effect of Invasive Species Before, During and After Restorations *Gina Quiram, Wade Johnson, Minnesota DNR*

Time, Excavation, and Soil Nutrient Concentration Can Influence Wetland Plant Communities *Sarah Winikoff, Jacques Finlay, Univ. of Minnesota Dept. of Ecology, Evolution and Behavior*

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Challenges and Successes in Large-Scale Restoration *Chip DeAngelo, EKoepke Jonathan, DeDina Samantha, ENCAP, Inc.*

[Revegetating Invaded Sites with Natives: New Resources for CWMAs/CISMAs and Beyond](#) *Clair Ryan, Midwest Invasive Plant Network; Susan Franklin, Midwest Invasive Plant Network; Jason Stevens, USDA-Forest Service; Kurt Dreisilker, The Morton Arboretum*

PALMER AMARANTH AND NATIVE SEED PRODUCTION, PART II

[Palmer Amaranth \(*Amaranthus palmeri*\) Management in Minnesota Conservation Plantings](#) *Shane Blair, Minnesota Dept. of Agriculture; Curtis Olson, Univ. of Minnesota Extension; Monika Chandler, Minnesota Dept. of Agriculture; Donald Opdahl, Minnesota Dept. of Agriculture; Dustin Looman, Conservation Corps Minnesota and Iowa; Zachary Dieterman, Conservation Corps Minnesota and Iowa; Anthony Cortilet, Minnesota Dept. of Agriculture*

[Species Distribution Models of Multiple Stages of Invasion in Palmer Amaranth \(*Amaranthus palmeri*\)](#) *Ryan Briscoe Runquist, Univ. of Minnesota, Dept. of Plant and Microbial Biology; Peter Tiffin, Univ. of Minnesota, Dept. of Plant and Microbial Biology; David Moeller, Univ. of Minnesota, Dept. of Plant and Microbial Biology*

[Genetic Markers for Reliable Detection of Palmer Amaranth in Seed Mixture](#) *Anthony Brusa, Univ. of Minnesota; Eric Patterson, Colorado State Univ.; Kevin Dorn, Univ. of Minnesota; Todd Gaines, Colorado State Univ.; Anita Kuepper, Colorado State Univ.; Jim Anderson, Univ. of Minnesota; Rob Stupar, Univ. of Minnesota; Don Wyse, Univ. of Minnesota*

[Simulating Potential Palmer Amaranth Distribution Under Current Climate and RCP 8.5 Scenario](#) *Erica Kistner-Thomas, USDA-Agricultural Research Service, Midwest Climate Hub; Jerry Hatfield, USDA-Agricultural Research Service, National Laboratory for Agriculture and the Environment*

INVASIVE INSECTS

[Economic Impacts of Spotted Wing *Drosophila* \(SWD\) in MN](#) *Gigi DiGiacomo, Univ. of Minnesota*

Life-Table Studies and Modeling Time-Temperature Relationships in Cold-Induced Mortality of the Brown Marmorated Stink Bug (*Halyomorpha halys*) *Byju Nambidiyattil Govindan, Univ. of Minnesota; William Hutchison, Dept. of Entomology, Univ. of Minnesota; Robert Koch, Dept. of Entomology, Univ. of Minnesota; Tracy Twine, Dept. of Soil, Water and Climate, Univ. of Minnesota; Peter Snyder, Dept. of Soil, Water and Climate, Univ. of Minnesota; Mark Abrahamson, Minnesota Dept. of Agriculture*

[Lethal and Sublethal Effects of Novel Insecticides on Invasive Spotted Wing *Drosophila* \(*Drosophila suzukii*\)](#) *Matthew Gullickson, Univ. of Minnesota; Mary Rogers, Univ. of Minnesota; William Hutchison, Univ. of Minnesota; Eric Burkness, Univ. of Minnesota*

[The Overwintering Biology of *Aphelinus certus*, an Adventive Parasitoid of Soybean aphid](#) *Carl Stenoien, Univ. of Minnesota; Lindsey Christianson, Univ. of Minnesota; Kelton Welch, Univ. of Minnesota; Keith Hopper, USDA-Agricultural Research Service; George Heimpel, Univ. of Minnesota*

[Morphological and Behavioral Differences in Spotted Wing *Drosophila* Winter and Summer Morphs](#) *Anh Tran, Univ. of Minnesota; Mark Asplen, Metropolitan State Univ.; William Hutchison, Univ. of Minnesota*

MONITORING AND MANAGING FOREST INVASIVE PLANTS

[Cover it Up! Using Plants to Control Buckthorn](#) *Peter Wragg, Univ. of Minnesota; Mike Schuster, Univ. of Minnesota; Lee Frelich, Univ. of Minnesota; Alex Roth, Friends of the Mississippi River; Paul Bockenstedt, Stantec; Shawn Schottler, St. Croix Watershed Research Station; Dan Miller, Univ. of Minnesota; Peter Reich, Univ. of Minnesota*

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[The Progression of Oriental Bittersweet \(*Celastrus orbiculatus*\) Eradication in Minnesota](#) *Christina Basch, Monika Chandler, Emilie Justen, Minnesota Dept. of Agriculture; Angela Gupta, Dawn Littleton, Univ. of Minnesota - Extension; Dustin Looman, Zachary Dieterman, Conservation Corps of Minnesota and Iowa*

[Amur Cork Tree \(*Phellodendron amurense*\) and Lesser Celandine \(*Ranunculus ficaria*\) in Wisconsin: Inventory, Outreach and Control Efforts](#) *Michael Putnam, Wisconsin DNR*

[Community Approach to Containing a Pioneer Stand of Amur Cork Tree](#) *Christopher Gaetzke, Lower Chippewa Invasives Partnership, Inc.*

[Monitoring Garlic Mustard in Minnesota - Now You See Them, Now You Don't](#) *Roger Becker, Univ. of Minnesota; Laura Van Riper, Minnesota DNR; Rebecca Montgomery, Lori Knosalla, Mary Marek-Spartz, Jeanie Katovich, Brad Kinkaid, Univ. of Minnesota*

BIOLOGICAL CONTROL II

[Genetic Technology for Controlling Invasive Species](#) *Siba Das, Univ. of Minnesota*

[The Impact of Pioneer Choice on Biocontrol Establishment for Invasive Plants](#) *Alyssa Hakes, Lawrence Univ.; Gina Quiram, Minnesota DNR*

[Leafy Spurge Biocontrol Fails in Some Habitats. How to Proceed](#) *John Gaskin, USDA ARS; Natalie West, USDA-Agricultural Research Service*

[Carp Killing Viruses Reach Minnesota! Could It be a Window of Opportunity?](#) *Isaiah Tolo, Univ. of Minnesota, Minnesota Aquatic Invasive Species Research Center; Soumesh Pahdi, Univ. of Minnesota, Minnesota Aquatic Invasive Species Research Center, Dept. of Fisheries Wildlife and Conservation Biology; Margaret McEachran, Univ. of Minnesota, Minnesota Aquatic Invasive Species Research Center, Dept. of Fisheries Wildlife and Conservation Biology; Sunil Mor, Univ. of Minnesota, Molecular Diagnostic Development Laboratory, Veterinary Diagnostic Laboratory, Dept. of Veterinary Population Medicine; Alexander Primus, Univ. of Minnesota, College of Veterinary Medicine, Dept. of Veterinary Population Medicine; Nicholas Phelps, Univ. of Minnesota, Minnesota Aquatic Invasive Species Research Center, Dept. of Fisheries Wildlife and Conservation Biology*

[Biology of a Rust Fungus Infecting *Rhamnus frangula* and *Phalaris arundinacea*](#) *Yue Jin, USDA-Agricultural Research Service Cereal Disease Laboratory*