

# Wednesday, September 14, 2022 – Michigan Inland Lakes Convention: Protecting Lakes Today for Tomorrow

All times are Eastern Daylight Time

TIME	TOPIC			
9am – 9:10	Convention Welcome by Julia Kirkwood, Michigan Department of Environment, Great Lakes and Energy (EGLE)			
9:10 – 10:10	Speaker Introduction by Julia Kirkwood Keynote Address			
10:10 – 10:30	BREAK			
10:30 - Noon	SESSION 1-3: INVASIVE SPECIES AND RECREATION	SESSION 4-6: COMMUNICATIONS	90 MIN SESSION 1: LAKES AND CLIMATE	90 MIN SESSION 2: TECHNOLOGY
	Step aboard Michigan's Clean Boats, Clean Waters program and learn about current aquatic invasive species outreach and education efforts – Kelsey Bockelman and Paige Filice, Michigan State University Extension	Utilizing Partners: The Michigan Alphabet Soup – Melissa DeSimone, Michigan Lakes and Streams Association	Michigan lakes in a changing climate – Joe Nohner, Michigan Department of Natural Resources (MDNR)	Innovative Applications of Drone Technology for Lake Management – Ronald Reimink, Freshwater Solutions, LLC and Dennis Wiand, Zero Gravity Aerial, LLC
	Changing Behavior Among Watercraft Users in Northwest Michigan: How the Aquatic Invasive Species Pathways Program is working to prevent the spread of AIS through outreach and boat washing services – Emily Cook, Benzie Conservation District	Why Don't They Clean, Drain, and Dry? Understanding Boater and Angler Behavior – Carrie Meier, Michigan State University		
	Advancing the Understanding of the Recreational Boating Pathway and Aquatic Invasive	Behind the Scenes at the Michigan Inland Lakes Convention: The Interns'		

	Species in Michigan and Beyond- Kevin Walters, EGLE	Perspective – Lindsey Ruppert and Dan Olree, Northwestern Michigan College		
Noon – 1:00 PM	LUNCH			
	WORKSHOP 1: COMMUNICATIONS	WORKSHOP 2: AQUATIC PLANTS	90 MIN SESSION 3: FISH MANAGEMENT	90 MIN SESSION 4: CAREER PATHS
1:00pm-2:30	Water Words that Work – Eric Eckl, Water Words That Work, LLC	Aquatic Plant Identification – Erick Elgin, Michigan State University Extension, Jo Latimore, Michigan State University, and Paul Skawinski, UW-Stevens Point Extension Lakes	Fisheries Management – Joe Nohner, Matthew Diana, and Brian Gunderman, MDNR	Panel to Explore Natural Resources Careers – Lindsey Ruppert and Dan Olree, Northwestern Michigan College
2:30-3:00	BREAK			
	WORKSHOP 1: COMMUNICATIONS (continued)	WORKSHOP 2: AQUATIC PLANTS (continued)	90 MIN SESSION 5: SHORELINE TRENDS	90 MIN SESSION 6: SHORELINE PLANTS
3:00-4:30			Inland Lake Shoreline Trends and Analysis – Eric Calabro, EGLE	Choosing the Right Plant for the Right Place – Julia Kirkwood, EGLE
4:30	End of Day			

# Thursday, September 15, 2022 – Michigan Inland Lakes Convention: Protecting Lakes Today for Tomorrow

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TIME	TOPIC			
9:00am-9:10	Convention Welcome – Erick Elgin, Michigan State University Extension (MSUE)			
9:10am -10:10	Speaker Introduction: Erick Elgin, MSUE Keynote Address: Emily Stanley, Professor, Department of Integrative Biology, University of Wisconsin, Madison			
10:10 – 10:30	Break			
10:30-noon	SESSION 7-9: LAKE PROTECTION, MANAGEMENT & GOVERNANCE	SESSION 10-11: FISH	90 MIN SESSION 7: ALGAL BLOOMS AND HABs	90 MIN SESSION 8: NATIVE MUSSELS
	Protecting our Lakes from Natural & Anthropogenic Disasters – Yesterday, Today, & Tomorrow – Stacy Daniels, Benzie County River improvement Co.	Our Freshwater World – Mark Barrow, Beneath British Waters	Interactive Three-Part Discussion on Harmful Algae Blooms with an Expert Panel – Frank Slovenec, Global Water Works, Wayne Carmichael, and Ar El Khattabi, Environmental Protection Agency	Strengthening our mussels: Science and management of mussels in inland lakes – Joe Nohner, Pete Badra, and Cleyo Harris, Michigan MDNR, and Joe Rathbun, Retired, EGLE
	Reducing management decision uncertainty with lake circulation modeling – Mike Foster, Kieser & Associates, LLC	A review of the fishery response over time to continuous AIS management in several Michigan lakes – Paul Hausler, Progressive AE		

	<p>Polycentric governance for change: Comparing how U.S. Midwest lake and watershed governance systems facilitate learning – Dane Whittaker, Arizona State University</p>	<p>SESSION 12: LAKE TRIVIA</p> <p>Michigan Inland Lakes Convention Trivia – Lindsey Ruppert and Dan Olree, Northwestern Michigan College</p>		
Noon-1:00 PM	LUNCH			
1:00pm-2:30	<p>WORKSHOP 3 (90 MINUTES): LAKES AND DATA</p>	<p>90 MINUTE SESSION 9: AQUATIC PLANT POLICY AND REGULATIONS</p>	<p>90 MINUTE SESSION 10: COMMUNICATIONS</p>	OPEN
	<p>Part I. Understanding Temperature/ Dissolved Oxygen Data collected by the MiCorps Cooperative Lakes Monitoring Program – Erick Elgin, Michigan State University Extension (MSUE)</p> <p>Part II. Understanding Temperature/ Dissolved Oxygen Data collected by the MiCorps Cooperative Lakes Monitoring Program – Erick Elgin, MSUE</p> <p>Part III. Aquatic plant restoration post invasive species control - Erick Elgin, MSUE</p>	<p>Policy and Regulation surrounding Aquatic Plant Management in Michigan - Eric Calabro, EGLE</p>	<p>Are You Looking for an Educational Resource that Fits Your Audience? – Julia Kirkwood, MI Department of Environment, EGLE</p>	

2:30-3:00	Break			
3:00-4:30	90 MINUTE SESSION 11: FISH AND WATERSHEDS	90 MINUTE SESSION 12: POLICY AND REGULATIONS	90 MINUTE SESSION 13: WATER LAW & NATURAL SHORELINES	OPEN
	Helping fish swim into lakes: Fish passage for inland lake fishes – Joe Nohner, MDNR, Katelyn King, Michigan State University, Jessica Collier, US Fish and Wildlife Service, and Patrick Ertel, MDNR	State Regulations Surrounding Construction Activities on Wetlands, Lakes, and Streams – Eric Calabro, EGLE	(45 min) Current legal issues impacting inland lakes in Michigan – William Carey, Carey and Jaskowski PLLC and Dane Carey, Kuhn Rodgers PLC  (45 min) Portage Lake 2,700' Natural Shoreline Restoration, Protection and Habitat Improvement through introduction of Woody Structure – Craig Kivi, Natural Shorelines Forever	
4:30	END OF DAY			

## Friday, September 16, 2022 – Michigan Inland Lakes Convention: Protecting Lakes Today for Tomorrow

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TIME	WORKSHOP 4: ECONOMICS AND LAKES (9am-2:45pm)	SESSION 13-15: PLANTS, BACTERIA, SNAILS	90 MINUTE SESSION 14: LAKE PROTECTION	90 MINUTE SESSION 15: FISHERIES
9:00am-10:30	An Assessment of the Economic Contributions of Michigan's Inland Lakes	Rare Aquatic Plant Species in Michigan: An overview of their Identification, Habitat Preferences, and Status –	Protecting lakes through watershed management: Examples from Michigan, Wisconsin,	Sturgeon in Michigan: Science, Management, and Cultural Importance – Ed Baker and Emily Martin,

	<p>Moderators – Bob Frey and Scott Brown</p> <p>Michigan Lakes: What are the Numbers – Ralph Bednarz, Rennie Lake Association</p> <p>Economic Value of Recreational Fishing on Michigan’s Inland Lakes – Frank Lupi (invited), Michigan State University</p>	<p>Elizabeth Haber, Michigan Natural Features Inventory</p> <p>Monitoring enteric bacteria contamination in a freshwater watershed in Northern, MI using qPCR and a community participatory research framework – Kelsey Froelich, School of Public Health, University of Alberta</p> <p>Freshwater snail and parasite distribution – Soper, University of Dallas (Texas)</p>	<p>and Minnesota – Joe Nohner, MDNR, Pamela Toshner, Wisconsin Department of Natural Resources; Heather Baird, Minnesota Department of Natural Resources; Sarah Nelson, Michigan Association of Conservation Districts</p>	<p>MDNR; and Kim Scribner, Michigan State University</p>
10:30-10:45	Break			
	<b>WORKSHOP 4 (continued): ECONOMICS AND LAKES</b>	<b>90 MINUTE SESSION 16: CITIZEN SCIENCE</b>	<b>90 MINUTE SESSION 17: INVASIVE SPECIES</b>	<b>LIGHTNING TALKS</b>
10:45-12:15 PM	<p>Social and Economic Benefits of Shoreline Restoration: Muskegon Lake as a Case Study – Alan Steinman, Grand Valley State University</p> <p>The Economic Value of Michigan’s Inland Lakes: A Literature Review – Scott Brown</p>	<p>Lake Associations &amp; Citizen Science - Protecting Lakes Today for Tomorrow – Paul Sniadecki, Michigan Lakes and Streams Association</p>	<p>Challenges, successes, and lessons learned in surveying for the aquatic invasive species, European frog-bit, in an urban setting – Jason Frenzel and Kate Laramie, Huron River Watershed Council; Eric Diesing, Clinton River Watershed Council; and Sam</p>	<p>A series of 5-minute presentations highlighting lake organizations and breaking research. See last page for full list of presentations and speakers.</p>

			Davis, Friends of the Rouge	
12:15-1:15 PM	LUNCH			

	<b>WORKSHOP 4: ECONOMICS AND LAKES (ALL DAY)</b>	<b>SESSION 18: ALGAL BLOOMS AND HABS</b>	<b>SESSION 19: FISHERIES</b>	<b>SESSION 20: LAKE RESTORATION</b>
1:15pm-2:45	Significance of Inland Water and State Parks – Ron Olson, MDNR	Cyanobacteria monitoring of inland waterbodies in Michigan – Aaron Parker, EGLE	Wood is good! Woody habitat in lakes for fish and more – Joe Nohner, MDNR and Craig Kivi, Natural Shorelines Forever	Inland Lake Restoration; Establishment of a LMP (Lake Management Plan), lake management case studies, phosphorus mitigation for the future – Jason Broekstra and Rick Buteyn, PLM Lake & Land Management Corp and Pamela Dugan, SePRO Corporation
2:45 – 3:00	Break			

3:00-4:30	<b>SHOWCASING CONVENTION CONTEST WINNERS</b>	<b>SESSIONS 16-18: Invasive Plant Species</b>	<b>SESSIONS 19-21: LAKE ISSUES</b>	<b>SESSION 21: SEPTIC SYSTEMS AND SEWERS</b>
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	<p>Photography and Creative Arts Awards Presented – Lindsey Rupert and Dan Olree, Northwestern Michigan College</p>	<p>Progress toward eradication of Parrot Feather and Yellow Floating Heart in Michigan – William Keiper, Sarah LeSage, and Tom Alwin, EGLE</p>	<p>Could Recent Development of Thick Benthic Microalgal Mats in Oligotrophic Lakes Be Caused by Lower Lake Phosphorus? – R. Jan Stevenson, Michigan State University</p>	<p>Wastewater management along inland lakes: impacts, alternative on-lot/off-lot systems, and example septic to sewer projects in Michigan – Bindu Bhakta, Michigan State University Extension</p>
<p>Control Methods for Eurasian Watermilfoil in Lake Leelanau – Annalise Povolo, Lake Leelanau Lake Association and Grand Traverse Band of Ottawa and Chippewa Indians and Ronald Reimink, Freshwater Solutions, LLC</p>		<p>Differences in Rural and Urban Lakes and Implications for Management – Jennifer Jermalowicz-Jones, Restorative Lake Sciences LLC</p>		
<p>Expansion of European Frog-bit in Michigan: Response at Reeds and Fisk Lake Case Study – William Keiper, EGLE</p>		<p>Lawns and Lakes: Managing Lawns while Preserving Water Quality – Kevin Frank, Michigan State University</p>		
<p>4:30</p>	<p>END OF CONVENTION - ADJOURN</p>			



**FIVE-MINUTE LIGHTNING TALKS**

<b>Speaker</b>	<b>Organization</b>	<b>Topic</b>
Ralph Bednarz	Rennie Lake Association	<b>Libraries Love Lakes – The 2022 TADL</b>
Elizabeth Belanger	Lake Superior State University	<b>Use of an Aquatic Remotely Operated Vehicle to Assess Relative Abundance of Fish and their Relations to Water Quality Variable</b>
Melissa DeSimone	Michigan Lakes and Streams Association	<b>Michigan Lakes and Streams Association</b>
Paige Filice	Michigan State University Extension	<b>Keeping aquarium and garden pets and plants out of Michigan’s inland lakes</b>
Julia Kirkwood	MI Dept of Environment, Great Lakes and Energy (EGLE)	<b>Michigan Natural Shoreline Partnership</b>
Julia Kirkwood	EGLE	<b>Michigan Shoreland Stewards Program</b>
Julia Kirkwood and Joe Nohner	EGLE and Michigan Department of Natural Resources (MDNR)	<b>Grant Fund Options for Inland Lakes</b>
Joe Nohner	MDNR	<b>Midwest Glacial Lakes Partnership: Science, Outreach, and Conservation funding lake ecosystem management</b>
Jo Latimore	Michigan State University	<b>Introduction to Lakes Online: A course from MSU Extension</b>
Paul Steen	Michigan Clean Water Corps	<b>Cooperative Lakes Monitoring Program Annual Results</b>
Sally Wenczel	West Bloomfield Parks & Recreation Commissioner	<b>Eat Your Freedom Lawn</b>
Lois Wolfson	Michigan State University	<b>McNALMS Promotes Protection of Michigan's Inland Lakes</b>