

**Friday, December 15**

<u>Time</u>	<u>Authors-Title / Activity</u>
8:00 – 9:00 AM	<b>Breakfast</b> (coffee & pastries).
9:00 – 9:20 AM	<b>Kevin Page</b> & Curt Wagner (ODNR-DOW). <i>Escapement of stocked Muskellunge from Ohio reservoirs.</i>
9:20 – 9:40 AM	<b>Corbin Hilling</b> (USGS-LEBS); Holly Embke (USGS, Climate Adaptation Science Centers); Ryan Jackson (USGS, Central Midwest Water Science Center [CMWSC]); Patrick Kocovsky (USGS, Ecosystems Mission Area [USGS-EMA]); James Roberts (USGS-LEBS); Cathy Richter (USGS-CERC); and Ryan Brown, Christine Mayer & Song Qian (UT-ES). <i>What have we learned after a decade of Grass Carp ichthyoplankton research in the Lake Erie basin?</i>
9:40 – 10:00 AM	<b>Kylee Wilson</b> & Lindsey Bruckerhoff (OSU-AEL); Zachary Slagle & Heather Luken (ODNR-DOW); and Stuart Ludsin (OSU-AEL). <i>Preliminary insights into factors that drive Yellow Perch angling success in western Lake Erie.</i>
10:00 – 10:30 AM	<b>Break</b> (coffee & beverages).
10:30 – 10:50 AM	<b>Jacob Bentley</b> & Stuart Ludsin (OSU-AEL). <i>Feeding ecology of Blue Catfish and other top predators in central Ohio reservoirs.</i>
10:50 – 11:10 AM	<b>Evelyn Pantelopoulos</b> & Christine Mayer (UT-ES); James Roberts & Richard Kraus (USGS-LEBS); John Navarro & Matthew Faust (ODNR-DOW); and John Dettmers (GLFC). <i>Do movements of native fishes overlap with a planned seasonal Grass Carp barrier on the Sandusky River?</i>
11:10 – 11:40 AM	<b>Joseph Conroy</b> , Jeremy Pritt, Stephen Tyszko, Kevin Page, Taylor Hunkins & Richard Zweifel (ODNR-DOW). <i>The importance of considering density dependence when managing Ohio's reservoir sport fish populations.</i>
11:40 – 11:50 PM	<b>Stuart Ludsin</b> (OSU-AEL). <i>Wrap-up.</i>
11:50 – 12:00 PM	<b>Scott Hale</b> (Executive Administrator of Fish Management & Research, ODNR-DOW). <i>Closing remarks.</i>
12:00 PM	<b>Adjourn</b> (boxed lunch & beverages)



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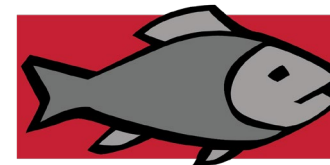
# Lake Erie – Inland Waters Annual Research Review

December 14-15, 2023

**Nationwide & Ohio Farm Bureau**  
**2201 Fred Taylor Drive**  
**Columbus, OH 43210**



THE OHIO STATE UNIVERSITY



EVOLUTION, ECOLOGY AND ORGANISMAL BIOLOGY  
**AQUATIC ECOLOGY LABORATORY**



## Thursday, December 14

<u>Time</u>	<u>Authors-Title / Activity</u>
8:00 – 9:00 AM	<b>Breakfast</b> (coffee & pastries).
9:00 – 9:10 AM	<b>Stuart Ludsin</b> (The Ohio State University, Aquatic Ecology Laboratory [OSU-AEL]). <i>Program overview.</i>
9:10 – 9:20 AM	<b>Susan Olesik</b> (Dean, OSU, College of Arts & Sciences, Division of Natural & Mathematical Sciences). <i>Welcoming remarks.</i>
9:20 – 9:30 AM	<b>Kendra Wecker</b> (Chief, Ohio Department of Natural Resources, Division of Wildlife [ODNR-DOW]). <i>Welcoming remarks.</i>
9:30 – 9:50 AM	<b>Rachael Finigan</b> & Elizabeth Marchall (OSU-AEL); and Michael Sovic (OSU, Center for Applied Plant Sciences). <i>Genetic structure across Ohio populations of Largemouth Bass (<u>Micropterus salmoides</u>).</i>
9:50 – 10:10 AM	<b>Matthew Faust</b> (ODNR-DOW & Michigan State University, MSU) and Travis Brenden (MSU, Quantitative Fisheries Center, QFC). <i>Examining between-net variation in indirect selectivity of experimental gill nets.</i>
10:10 – 10:30 AM	<b>Matthew Acre</b> , Dustin Broaddus & David Walters (USGS, Columbia Environmental Research Center [CERC]); James Roberts (USGS-LEBS); Ryan Trimbath (Cuyahoga Valley, National Park Service [CV-NPS]); Curt Wagner (ODNR-DOW); Ramsey Langford (Summit Metro Parks); Daniel Sullivan & Marc Mills (U.S. Environmental Protection Agency, Office of Research & Development [EPA-ORD]). <i>Echoes of conservation: Fish movement, ecological renewal, and a river's resilience.</i>
10:30 – 11:00 AM	<b>Break</b> (coffee & beverages).
11:00 – 11:20 AM	<b>Cody Bowden</b> & Allison Pease (University of Missouri, School of Natural Resources); Marc Mills (EPA-ORD); David Walters (USGS-CERC); Ryan Trimbath (CV-NPS); and Matthew Acre (USGS-CERC). <i>White Sucker, Northern Hog Sucker, and Smallmouth Bass movement in the Cuyahoga River prior to dam removal.</i>
11:20 – 11:40 AM	<b>James Roberts</b> (USGS-LEBS); Scott Colborne, Justin Bopp & Travis Brenden (MSU-QFC); Richard Kraus (USGS-LEBS); and Matt Faust (ODNR-DOW). <i>Understanding Grass Carp migratory groups in the Lake Erie basin to inform invasive species removal.</i>
11:40 – 12:00 PM	<b>Stephen Tyszko</b> , Kevin Page, Jeremy Pritt & Joseph Conroy (ODNR-DOW). <i>Getting the most out of fish population and angler creel survey data by leveraging catchability coefficients.</i>
12:00 – 1:10 PM	<b>Lunch</b> (provided)

## Thursday, December 14 (cont.)

<u>Time</u>	<u>Authors-Title / Activity</u>
1:10 – 1:30 PM	<b>Bryan Blawut</b> , Richard Zweifel & Joseph Conroy (ODNR-DOW). <i>Saugeye are naturally fertile and produce large quantities of gametes yielding viable larvae in fertilization experiments with congeners.</i>
1:30 – 1:50 PM	<b>Robert Hunter</b> , Chris Mayer, Jon Bossenbroek, Ryan Brown, Bob Mapes (University of Toledo, Environmental Sciences [UT-ES]); Matt Acre (USGS-CERC); James Roberts & Corbin Hilling (USGS-LEBS); Lucas Nathan (Michigan Department of Natural Resources [MDNR]); John Dettmers (Great Lakes Fishery Commission [GLFC]); and Eric Weimer (ODNR-DOW). <i>Identifying Great Lakes Basin stream reaches to focus exploratory Grass Carp removal efforts.</i>
1:50 – 2:10 PM	Mahesha Kulupparachchi, Sayeed Mehmood & <b>Jeremy Bruskotter</b> (OSU, School of Environment & Natural Resources [SENR]); Brent Sohngen (OSU, Agricultural, Environmental & Development Economics [AEDE]). <i>Economic valuation of sports fisheries in Ohio.</i>
2:10 – 2:30 PM	<b>Yining Wu</b> & Brent Sohngen (OSU-AEDE); and Stuart Ludsin (OSU-AEL). <i>Estimating loss of recreational fishing trips from harmful algal blooms in Lake Erie.</i>
2:30 – 3:30 PM	<b>Poster session</b> (beverages)
3:30 – 3:50 PM	<b>Mark DuFour</b> , James Roberts & Richard Kraus (USGS-LEBS); and Travis Hartman, Ann Marie Gorman & Matthew Faust (ODNR-DOW). <i>Lake Erie Yellow Perch telemetry: Informing tagging protocols, ecology, and management.</i>
3:50 – 4:10 PM	<b>Robert Mapes</b> , Ryan Brown, Christine Mayer, Song Qian, Kate Curtis & Robert Hunter (UT-ES). <i>If we can't catch them, they ain't there, or are they?: Grass Carp detection probabilities</i>
4:10 – 4:30 PM	<b>Song Qian</b> , Robert Mapes, Ryan Brown, Christine Mayer, Kate Curtis & Robert Hunter (UT-ES); Christopher Kemp (MDNR); Ryan Young (U.S. Fish & Wildlife Service [USFWS]); Matthew Acre (USGS-CERC); and James Roberts (USGS-LEBS). <i>A useful model can be wrong in a thousand ways -- an update of the Grass Carp population model.</i>
4:30 – 5:00 PM	<b>Jeremy Pritt</b> , Joseph D. Conroy, & Richard D. Zweifel (DOW, ODNR). <i>Filling knowledge gaps to inform management of Ohio River catfishes.</i>
5:00 – 6:00 PM	<b>Reception</b> (snacks & non-alcoholic beverages).
6:00 PM	<b>Adjourn</b> (dinner & alcoholic beverages on your own; if interested, the back room has been reserved at Roosters at 3370 Olentangy River Rd, Columbus, OH 43202)

## Lake Erie – Inland Waters Annual Research Review

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### Posters

- Robert Bowers, Ryan Brown, Christine Mayer, Robert Mapes & Evelyn Pantelopoulos (UT-ES); Eric Weimer (ODNR-DOW); Ryan Young (USFWS); Christopher Kemp (MDNR); and John Dettmers (GLFC). *What's the catch? Trends in Grass Carp captures, ploidy, and age over time.*
- Ryan Brown, Song Qian & Christine Mayer (UT-ES); Corbin Hilling & James Roberts (USGS-LEBS); and Ryan Jackson (USGS- CMWSC). *Nothing good happens after midnight: peak grass carp egg catches indicate late night spawning in the Sandusky River.*
- Katherine Curtis, Song Qian, Christine Mayer, Rob Hunter, Ryan Brown & Robert Mapes (UT-ES); John Dettmers (GLFC); Christopher Kemp (MDNR); Matthew Acre (USGS-CERC); James Roberts (USGS-LEBS); and Ryan Young (USFWS). *Grass Carp population modeling: Updated model suggests decreasing trend in the Sandusky River.*
- Kristina Flanigan, Ryan Brown, Song Qian & Christine Mayer (UT-ES); Corbin Hilling & James Roberts (USGS-LEBS); Christopher Kemp (MDNR); and Ryan Young (USFWS). *Evidence of late season Grass Carp spawning in the Sandusky River.*
- Olivia Houpt, Kylee Wilson & Stuart Ludsin (OSU-AEL). *Understanding the impact of invasive Bythotrephes longimanus on Yellow Perch angling success in western Lake Erie.*
- Taylor Hunkins & Joseph Conroy (ODNR-DOW). *Comparing Gizzard Shad density and biomass among Ohio reservoirs during the period 2020–2023.*
- Sabrina Jaffe, Song Qian & Christine Mayer (UT-ES); Patrick Kocovsky (USGS-EMA); and P. Ryan Jackson (USGS-CMWSC). *Evaluating discharge and water temperature as continuous predictors for grass carp spawning.*
- Mikayla Kindler, Dillon Weik & Christine Mayer (UT-ES); Eric Weimer (ODNR-DOW); Christopher Kemp (MDNR); John Dettmers (GLFC); and Ryan Young (USFWS). *Grass Carp growth histories for Lake Erie.*
- Branden Kohler (MSU/USGS-LEBS); Corbin Hilling & James Roberts (USGS-LEBS); and Ryan Brown, Christine Mayer & Song Qian (UT-ES). *Larval fish collections from the lower Cuyahoga River, 2021-2022.*
- Manjunath Manubolu & Kavitha Pathakoti (OSU-AEL); Kenneth Riedl (OSU, Food Science & Technology); Christian Lauber & Lauren Mashburn Warren (Nationwide Children's Hospital, Institute for Genomic Medicine); Miki Watanabe-Chailland & Lindsey Romick-Rosendale (Cincinnati Children's Hospital Medical Center, NMR-Based Metabolomics Core); and Stuart Ludsin (OSU-AEL). *Microcystin Effects on Juvenile Yellow Perch Stress Physiology, Liver Metabolomics, and Gut Microbial Composition.*
- Elizabeth Marschall (OSU-AEL); Richard Budnik (Ohio EPA); and Carey Knight & Ann Marie Gorman (ODNR-DOW). *Modeling Yellow Perch distributions in response to changing habitats in Lake Erie's Central Basin.*
- Augustus McAnally, Taher Fletcher & Michael Booth (University of Cincinnati, Biological Sciences); and Jeremy Pritt (ODNR-DOW). *Using recreational side-scan sonar to assess fish-habitat relationships for black bass (Micropterus spp.) and crappie (Pomoxis spp.) among Ohio reservoirs.*
- Eric Thompson, Robert Hunter, Robert Mapes, Ryan Brown & Christine Mayer (UT-ES); Lucas Nathan (MDNR); Jesse McCarter (USFWS); Matt Acre (USGS-CERC); and John Dettmers (GLFC). *More is more, until it isn't: Time to capture in electrofishing for Grass Carp in Lake Erie tributaries.*