

58th Annual Meeting of the New York Chapter American Fisheries Society

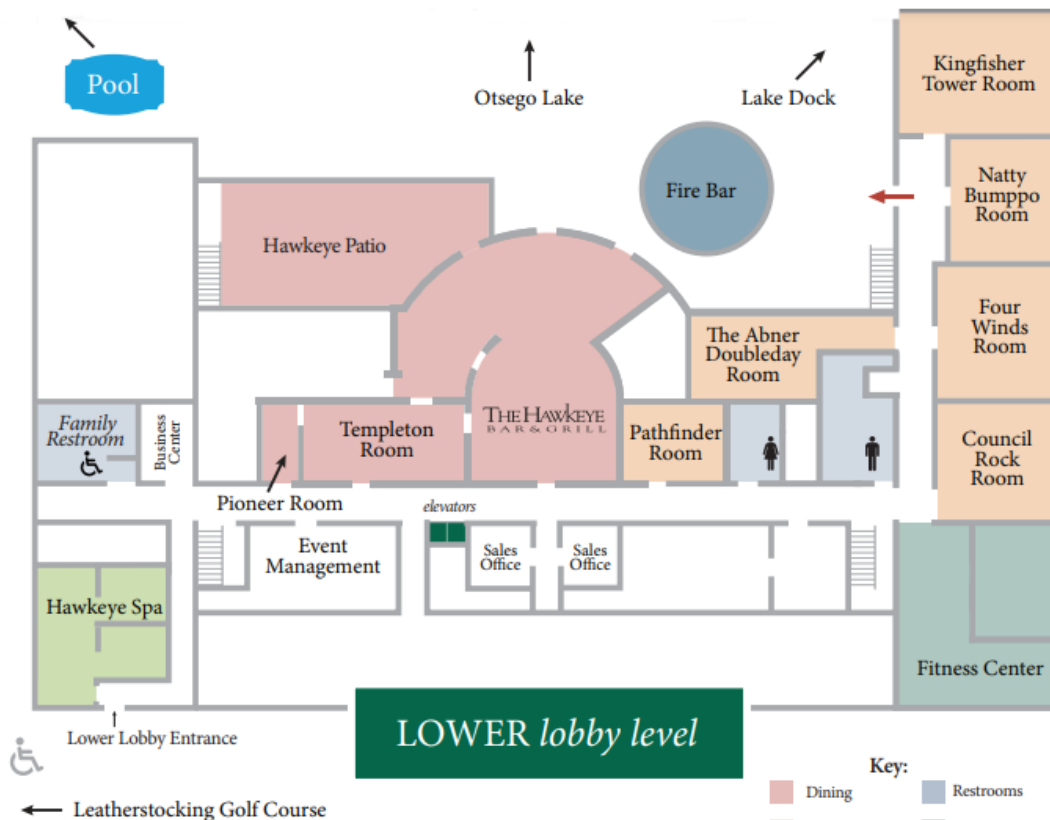
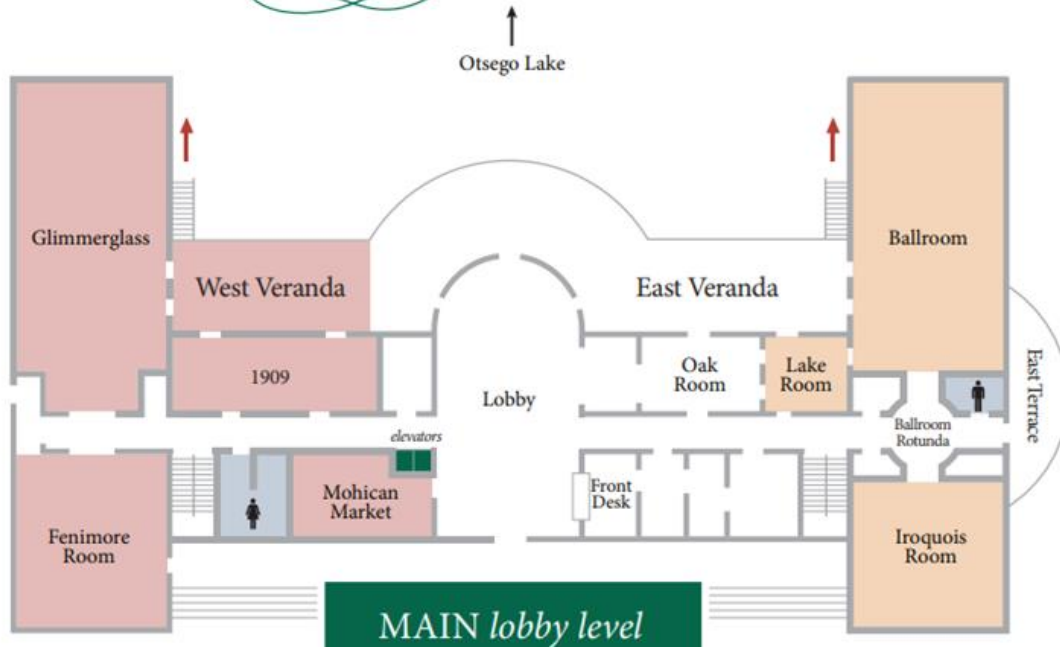
February 6-8th, 2024
The Otesaga Resort Hotel
Cooperstown, NY



**“Fisheries Management in an Ever-Changing Environment:
From Inlands to Oceans”**



Event Spaces



Tuesday, February 6, 2024

8:00 AM to 8:00 PM	Registration , Oak Room
10:30 AM to 5:30 PM	Workshop 1 – Design, Construction, and Operation of PIT Tag Monitoring Systems , Ballroom *Lunch on your own*
2:00 PM to 2:30PM	Break , Ballroom Rotunda
2:30 PM to 4:30 PM	Workshop 2 – Best Practices for Creating Accessible Documents & Data , Iroquois Room *Bring laptop*
4:30 PM to 6:30 PM	Executive Committee Meeting , Kingfisher Tower
7:00 PM to 9:00 PM	Welcome Social , Main Lobby
9:00 PM to 12:00 AM	Late Night Social and Firebar , Templeton Room, Hawkeye Bar & Grill, Outside Firebar

Wednesday, February 7, 2024

7:00 AM to 7:00 PM	Registration , Oak Room
7:15 AM to 8:30 AM	Continental Breakfast , Glimmerglass
8:00 AM to 5:00 PM	Poster Setup , Main Lobby
8:30 AM to 11:40 AM	Plenary Session , Ballroom
10:00 AM to 10:20 AM	Break , Ballroom Rotunda
11:45 PM to 1:00 PM	Lunch , Glimmerglass and Fenimore
1:00 PM to 4:00 PM	Contributed Sessions , Ballroom, Iroquois, and Kingfisher Tower
2:20 PM to 2:40PM	Break , Ballroom Rotunda
4:00 PM to 5:00 PM	Business Meeting , Ballroom
5:00 PM to 6:30 PM	Poster Session , Main Lobby
6:30 PM to 10:00 PM	Banquet, Awards, and Raffle , Glimmerglass and Fenimore
9:00 PM to 1:00 AM	Late night Social and Firebar , Templeton Room, Hawkeye Bar & Grill, Outside Firebar

Thursday, February 8, 2024

8:00 AM to 1:00 PM	Registration , Oak Room
7:15 AM to 8:15 AM	Women in Fisheries (WiF) Breakfast – Salary Negotiation and the Gender Pay Gap , Fenimore
7:30 AM to 8:30AM	Continental Breakfast , Glimmerglass
8:20 AM to 12:00 PM	Contributed Sessions , Ballroom, Iroquois, and Kingfisher Tower
10:00 AM to 10:20 AM	Break , Ballroom Rotunda
12:00 PM to 12:20 PM	Student Awards and Closing Remarks , Ballroom
12:30 PM to 2:30 PM	Native Fish Committee , Iroquois Room
12:30 PM to 2:30 PM	Outreach Committee/I FISH NY Program , Kingfisher Tower

Tuesday, February 6, 2024

Workshop 1

**“Design, Construction, and Operation of PIT Tag Monitoring Systems”
with Warren Leach from Oregon RFID**

Ballroom

10:30AM-5:30PM

**Warren Leach
Oregon RFID**

10:30AM-11:45AM: RFID for Fish and Wildlife Tracking

Learn about PIT tag characteristics, HDX and FDX technologies, antenna types, data collection, and review notable systems.

12:00PM-2:00PM: Building a PIT Tag Monitoring Station

Jump into reader types and capabilities, selecting a location, field power sources, resonance tuning, troubleshooting and maintenance, dealing with noise, performance optimization, and data handling.

2:00PM-2:30PM: Break *Lunch on your own*

2:30PM-4:00PM: PIT Tag Antennas

Learn to design an antenna, select wire, along with construction techniques, and metal effects.

4:15PM: Interactive workshop



Tuesday, February 6, 2024

Workshop 2

“Best Practices for Creating Accessible Documents & Data”

Iroquois Room

2:30PM-4:30PM

Freya Gibbon

SUNY Cobleskill Instruction & Research Librarian

2:30PM-4:30PM: Best Practices for Creating Accessible Documents and Data

In this workshop, participants will review principles of accessible document design and simple tips for accessible design in programs such as Word, PowerPoint, Acrobat Pro, and Excel. Come prepared with a laptop and one to two document(s) that you would like to update, or plan to create and a template for a type of document you work on frequently.

Thursday, February 9, 2024

Women in Fisheries (WiF) Breakfast

“Salary Negotiation and the Gender Pay Gap”

Fenimore Room

7:15PM-8:15PM

Joanna Goplen, SUNY Oswego

Director of Gender and Women's Studies Program

Stacy Frugal and Jo Johnson, Women in Fisheries (WiF) Subcommittee

7:15PM-8:15PM: Salary Negotiation and the Gender Pay Gap

Dr. Joanna (Jo) Goplen received her PhD in Social Psychology from Florida State University in 2014. She also holds a Master's Degree in Social Psychology from FSU and a Bachelor's of Science in Secondary Social Science Education with minors in Women's Studies and Psychology from the University of South Florida. Currently, she is an assistant professor at SUNY Oswego where she directs the Gender and Women's Studies program. Gender in the Workplace is one of her favorite classes to teach.

Wednesday, February 7, 2024

Plenary

**“Fisheries Management in an Ever-Changing Environment:
From Inlands to Oceans”**

Ballroom

8:30AM-8:40AM **Samantha Carey.** President’s Welcome Address.

8:40AM-9:20AM **Margaret H. Murphy.** “History of Lake Trout Management in Lake Champlain and Changes Following Recent Wild Recruitment”.

9:20AM-10:00AM **Andrew Gascho Landis.** “Freshwater mussel conservation: exploring population trends in Delaware River Tributaries”.

10:00AM-10:20AM **BREAK**

10:20AM-11:00AM **John M. Farrell.** “Conservation and Management of Native Predatory Fishes within New York’s Northern Connection to the Atlantic Ocean, the International St. Lawrence River”.

11:00AM-11:40AM **Tony David.** “The Importance of “Polishing the Covenant Chain” to Fisheries Restoration”.

Wednesday, February 7, 2024

Symposium: Species of Concern

Ballroom

(*Student Presentation)

- | | |
|---------------|---|
| 1:00PM-1:20PM | <u>Douglas M. Carlson</u> . Rare Fishes Inventory |
| 1:20PM-1:40PM | * <u>David Selner</u> et al. Population Ecology of the Threatened Mooneye |
| 1:40PM-2:00PM | * <u>Kelsey Alvarez del Castillo</u> et al. Salinity tolerance of Round Goby: informing expansion potential in the Hudson River Estuary |
| 2:00PM-2:20PM | <u>Ashley Morris</u> and S. Pearson. The threat of northern snakehead to New York waterbodies |
| 2:20PM-2:40PM | BREAK |
| 2:40PM-3:00PM | <u>Chris Pennuto</u> and K. Yerofeev. Snails behaving badly: an example of maladaptive behavioral responses to non-native predators |
| 3:00PM-3:20PM | <u>Scott George</u> et al. Status of Round Goby in Eastern New York |
| 3:20PM-3:40PM | <u>Heidi Himes</u> et al. Scanning the Horizon for Future Aquatic Invasive Species Concerns |
| 3:40PM-4:00PM | <u>Jacob Cochran</u> et al. eDNA Metabarcoding as an AIS Detection Tool on a Great Lakes Invasion Front |

Wednesday, February 7, 2024

Symposium: Monitoring & Detection

Iroquois

(*Student Presentation)

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|---------------|--|
| 1:00PM-1:20PM | <u>Colleen Keefer</u> et al. Utilizing all the tools in the toolbox: An adaptive approach to Early Detection and Monitoring using environmental DNA (eDNA) metabarcoding |
| 1:20PM-1:40PM | <u>Scott George</u> et al. Use of Environmental DNA to assess American Eel populations in the Mohawk-Hudson river system |
| 1:40PM-2:00PM | * <u>Kari Minissale</u> et al. A survey of American eel within fish communities of the Upper Susquehanna Watershed |
| 2:00PM-2:20PM | <u>Pascal Wilkins</u> et al. Lake Trout Status in Lake Erie |
| 2:20PM-2:40PM | BREAK |
| 2:40PM-3:00PM | <u>Josephine R. Johnson</u> et al. Improving Our Understanding of Great Lakes Reef Habitats for Lake Trout & Coregonines: Three Case Studies Using a Multibeam Echosounder |
| 3:00PM-3:20PM | <u>Ryan Walquist</u> et al. Coregonine egg deposition and larval emergence following spawning substrate additions in Chaumont Bay, Lake Ontario |
| 3:20PM-3:40PM | * <u>Matt Futia</u> et al. Modelling regional space use of fishes using acoustic telemetry |
| 3:40PM-4:00PM | <u>Brian O'Malley</u> et al. Quantifying benthic-pelagic flux of Mysis biomass through diel vertical migration on a lakewide scale: a Lake Ontario case study |

Wednesday, February 7, 2024

Symposium: Spawning - The Next Generation

Kingfisher Tower

(*Student Presentation)

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|---------------|---|
| 1:00PM-1:20PM | <u>Collin Farrell</u> et al. Tails from the Past: Uncovering Forgotten Lake Sturgeon Spawning Areas in the New York Waters of Lake Erie Using newspaper archives |
| 1:20PM-1:40PM | * <u>John D. Skelton</u> et al. Estimating Spawning Population Abundance of Lake Sturgeon on Artificial Spawning Beds |
| 1:40PM-2:00PM | <u>Rebecca Cohen and Maija Niemisto</u> et al. Characterization of low-frequency sounds associated with an Atlantic sturgeon spawning aggregation in the Hudson River |
| 2:00PM-2:20PM | <u>Alex Gatch</u> et al. A tough egg to crack: Sources of embryonic mortality in Cisco (<i>Coregonus artedii</i>) from a Lake Ontario population |
| 2:20PM-2:40PM | BREAK |
| 2:40PM-3:00PM | <u>Lucas Le Tarte</u> et al. Using Substrate Imagery to Evaluate Lake Trout Spawning Habitat in Lake Ontario |
| 3:00PM-3:20PM | * <u>Brian Hefferon</u> et al. Host Fishes of the Yellow Lampmussel: Using Fish Traits to Predict Their Effectiveness |
| 3:20PM-3:40PM | * <u>Thornton Ritz</u> and Dr. J. Farrell. Bayesian Mark-Recovery Modeling Improves Estimation of Young-of-year Northern Pike Survival in St. Lawrence River Coastal Wetlands |
| 3:40PM-4:00PM | <u>Eileen Randall</u> et al. Inferring Brook Trout Spawning Phenology Using Passive Acoustic Monitoring |

Thursday, February 8, 2024

Symposium: Fisheries & Ecosystem Management

Ballroom

(*Student Presentation)

8:20AM-8:40AM *Krystal Dixon et al. Comparing Lake Sturgeon Size at Age Across Water Bodies in NYS

8:40AM-9:00AM *Kate Henderson et al. Fish Biodiversity and Ecosystem Services of Cranberry Lake, New York

9:00AM-9:20AM Kyle Morton et al. Post-stocking Mortality and Behavior of Age-1 Lake Trout in Lake Ontario

9:20AM-9:40AM *Amelia McReynolds et al. Trophic ecology of burbot varies among basins of Lake Champlain

9:40AM-10:00AM Audrey Van Genechten. Implementing a new NY Statewide fish advisory- using angler input and audience testing to update and improve communication materials

10:00AM-10:20AM BREAK

10:20AM-10:40AM Megan Barrow. The Transformative Impact of Online Reporting and Workflow Automation on Marine Fisheries Data Management

Thursday, February 8, 2024

Symposium: You Are What You Eat

Ballroom

(*Student Presentation)

10:40AM-11:00AM	* <u>Nicholas Farese</u> et al. Use of Stomach Contents, Fatty acids, and Stable Isotopes to Assess Lake Trout Diet from Otsego Lake
11:00AM-11:20AM	* <u>Christopher A. Osborne</u> et al. Using a Pangenome Graph to Explore Genomic Variation Related to Thiamine Metabolism in Lake Charr (<i>Salvelinus namaycush</i>)
11:20AM-11:40AM	<u>Zoe L. Almeida</u> et al. Density, prey, temperature, and time: Which factors are most related to Walleye condition, growth, and length?
11:40AM-12:00PM	<u>Brian Leydet</u> et al. Are fish what they eat? Gut microbiome patterns of fish from the Upper St. Lawrence River

Thursday, February 8, 2024

Symposium: Hudson River Biological & Ecosystem Monitoring Program

Iroquois

(*Student Presentation)

8:20AM-8:40AM	<u>Gregg Kenney</u> et al. Advancing a next generation Hudson River Ecosystem Monitoring Program
8:40AM-9:00AM	<u>Yong Chen</u> et al. Historical Hudson River Biological Monitoring Program: Challenge and Opportunity
9:00AM-9:20AM	* <u>Stephanie Arsenault</u> et al. Development of comprehensive metadata records to facilitate historical Hudson River Biological Monitoring Program data sharing and collaborative research
9:20AM-9:40AM	* <u>Anh Nguyen</u> et al. Conservations have improved heavy metal contaminations in Hudson River Striped Bass
9:40AM-10:00AM	* <u>Stephanie Arsenault</u> et al. Spatiotemporal dynamics of suitable spawning and habitat for bay anchovy (<i>Anchoa mitchilli</i>) in a changing Hudson River Estuary
10:00AM-10:20AM	BREAK
10:20AM-10:40AM	* <u>Katrina Rokosz</u> et al. Understanding the dynamics of white perch spawning habitat in the Hudson River using long-term ichthyoplankton monitoring data
10:40AM-11:00AM	<u>Hsiao-Yun Chang</u> and Y. Chen. Shifting spawning phenology in the Hudson River American shad
11:00AM-11:20AM	<u>Adam Bonemery</u> . Rise of the machines: leveraging side scan sonar and machine learning to enumerate sturgeon in a large river system

11:20AM-11:40AM

Ming Sun et al. Calibrating the historical Long River Survey Data in the Hudson River Estuary to account for effects of changing sampling protocols

Thursday, February 8, 2024

Symposium: The Past, Present & Future

Kingfisher Tower

(*Student Presentation)

8:20AM-8:40AM	* <u>Hannah Whitcomb</u> and F. Reyda. Past vs. present: A survey of the tributaries of Oneida Lake, New York
8:40AM-9:00AM	* <u>Katerina Sawickij</u> and F. Reyda. A Survey of Freshwater Fish Parasites from the Everglades, FL
9:00AM-9:20AM	* <u>Anthony Mete Rice</u> et al. Assessing the Restoration Potential of Brook Trout in the Water Being Returned to the Onondaga Nation
9:20AM-9:40AM	* <u>Taylor A. Brown</u> et al. Reconstructing half a century of lake whitefish and cisco recruitment dynamics across the Great Lakes
9:40AM-10:00AM	* <u>Alexander Koeberle</u> et al. Navigating native cisco (<i>Coregonus artedii</i>) restoration in Keuka Lake, New York
10:00AM-10:20AM	BREAK
10:20AM-10:40AM	<u>Benjamin Marcy-Quay</u> and E. Marsden. A mixed-stock analysis of lake trout recovery in Lake Champlain
10:40AM-11:00AM	<u>Karin E. Limburg</u> et al. Climate Weirding Effects on Adirondack Fishes
11:00AM-11:20AM	* <u>Carl A. St John</u> et al. Revision of species status for the Summer Sucker and implications for New York State species delineation

- 11:20AM-11:40AM Dan Stich et al. Re-imagining the landscape for river herring restoration through coastwide population models
- 11:40AM-12:00PM Gregg Kenney et al. Should we encourage Blueback Herring to use the Mohawk River?

Plenary Presenter Biographies

Dr. Margaret H. Murphy, Fisheries Program Manager, Vermont Fish & Wildlife Department



Margaret received by BS in Biology from Siena College and her MS and Ph.D in Fisheries and Aquatic Ecology from SUNY-ESF. Margaret is currently a Fisheries Program Manager for Vermont Fish and Wildlife Department where she is chair of the Lake Champlain Cooperative Fisheries Technical Committee and oversees much of the department work in Lake Champlain, as well as, statewide flow and fish passage related projects (mostly FERC relicensing) related to fisheries concerns. Prior to state work, Margaret was in environmental consulting working for several large firms culminating in running her own business for four years in the Adirondacks. Margaret has been a member of AFS for 34 years and held many leadership positions and chaired several committees; and is currently serving as second VP of AFS.

Tony David, Director, Environment Division, Saint Regis Mohawk Tribe



Tony David is the Director of the Environment Division of the Saint Regis Mohawk Tribe (SRMT). He has more than 20 years of experience expanding the role of SRMT in the management and restoration of aquatic resources. In 2016, he led the decommission and removal of the Hogansburg Hydroelectric Project. As a result, SRMT became the first Tribal Nation to remove a licensed dam in the US, which restored ownership of project lands to SRMT, restored hundreds of miles of connecting habitat and cleared policy obstacles for other tribes. In 2007, he developed SRMT's Clean Water Act authority through federally enforceable water quality standards. The USEPA recognized Tony in 2017 with the Environment Champion Award—the highest award granted to civilians by the agency. He currently serves as a Member of the U.S. Section of the International Lake Ontario-St. Lawrence River Board. His appointment by the International Joint Commission (IJC) began in 2017, coinciding with the approval of Plan 2014. He received a Master of Professional Studies from Cornell University ('05) and a B.A. from SUNY Buffalo in Environmental Studies ('01).

**Dr. John M. Farrell, Professor of Aquatic and Fisheries Science & Director,
Thousand Islands Biological Station**



Dr. John Farrell is a Professor in the Department of Environmental Biology at SUNY ESF and Director of the Thousand Islands Biological Station in Clayton NY. He is dedicated to research and management of freshwater aquatic systems with emphasis on conservation and management of native sportfish, especially northern pike and muskellunge. John has mentored 40 graduate students and hundreds of undergraduates and received the ESF Exemplary Researcher Award in 2017, SUNY Chancellor Award for Excellence in Scholarship and Creative Activities, in 2022, and was inducted into the Muskies Canada Hall of Fame in the research category in 2023. He created the Fish Habitat Conservation Strategy, a multi-partnered effort with US Fish and Wildlife Service and New York DEC to restore critical habitat for native fish species and has contributed significantly to the international management of fisheries and fish populations. Dr. Farrell serves as chair of the International Muskellunge Working Group, currently serves as a member of the Great Lakes Adaptive Management Ecosystems Team, and as a trustee of the Thousand Islands Land Trust, and works closely with local, state, and federal agency professionals and non-governmental organizations in conservation activities to ensure healthy fish and wildlife populations. He is the coordinator for the Aquatic and Fisheries Science program at ESF and teaches Ichthyology, Aquatic Ecosystem Restoration and Management, Ecology of Adirondack Fishes and the Senior Synthesis in Aquatic and Fisheries Science. He is an avid Bills fan and loves the outdoors and enjoys spending time afield fishing, hunting, skiing with his family and friends.

**Dr. Andrew Gascho Landis, Associate Professor, State University of New York at
Cobleskill**



Andrew Gascho Landis is an Associate Professor at SUNY Cobleskill. He earned his Ph.D. from Auburn University, a Masters from Northern Arizona University, and a Bachelors from Goshen College. Prior to moving to Cobleskill, he was a freshwater mussel biologist for the Georgia Department of Natural Resources.

Contributed Posters

(*Student Presentation)

- *Arsenault, S., P. Woodruff and Y. Chen. Development of comprehensive metadata records to facilitate historical Hudson River Biological Monitoring Program data sharing and collaborative research
- *Arnwine, M., T. Mihuc and Z. Cutter. Changes in the vertical structure of Lake Champlain zooplankton after the invasions of Spiny Waterflea and Fishhook Waterflea
- *Atwood, C., J. Sweeney, M. Bulger, P. Fuerbacher, K. Brown, Dr. N. Sard and Dr. J. McKenna. Identifying historically collected larval coregonines to species using a redesigned genetic assay
- Benedict, W., R. Pendleton and A. Higgs. Relatively precise but how accurate? Feasibility of using pectoral fin structures to age a long-lived species
- *Booth, J., and J. Farrell. Assessment of Walleye (*Sander vitreus*) Spawning Habitat in the Upper St. Lawrence River
- *Brown, K. Differences in cortisol concentration by deepwater cisco under stressful stimuli and during transportation
- *Bulger, M., J. Moore and J. E. McKenna, Jr. Assessment of the Impact of Weather on Walleye Population in the Black River, New York
- Carlson, D., C. Driscoll, and J. Brewer. Bigeye Chub, four years as a priority species in DEC's Rare Fish Conservation Program
- *Costigan, A., S. Hayes, C. Roble, P. Woodruff, H. Chang and Y. Chen. A Pilot Study to Evaluate Efficacy of Videographic Monitoring System for Nekton in Gansevoort Habitat Enhancement Project
- Cushman, S., E. R. Levanduski, L. B. Cleckner, W. Richter and N. Roxanna Razavi. Mercury and Per- and Polyfluoroalkyl Substances (PFAS) in New York's Seneca Lake Sport Fishes
- Davis, A., B. Cramer and B. Foote. Two Year Summary of the Grass Carp Response Program in the Eastern Basin of Lake Erie
- Duva, E., T. Resnick, A. Eaton, E. Marsden and J. Stockwell. The R/V Marcelle Melosira – A New, Cutting-Edge Hybrid Electric-Diesel Research Vessel on Lake Champlain
- *Fleming, M., and F. Reyda. Field sampling of neoechinorhynchid fish acanthocephalans (thorny headed worms)
- *Fuerbacher, P., A. Gatch, S. Furgal and D. Gorsky. Estimating Survival Probability of Stocked Juvenile Lake Trout Using Acoustic Telemetry and Kaplan-Meier Survival Curves
- *Gallagher, R. and N. Sard. Investigating a potential null allele affecting an assay used to identify larval coregonine species
- Grant, C. H., K. E. Limburg, Ö. Östman and Y. Heimbrand. The Use of Sagittal Otolith Shape Analysis for Stock Discrimination of Northern Pike
- *Grosskopf, S., A. Nguyen, P. Woodruff, S. Arsenault, O. Shipley, K. Rokosz and Y. Chen. Exploring the Historic Hudson River Biological Monitoring Program Sample Collection

- *Henry, M., J. Rinchard, D. Barber Jr., M. Futia and T. Kielbasinski. Monitoring of Thiamine Deficiency in Lake Ontario Steelhead Trout
- *Hess, A. and C. Cotton. Effect of Riparian Habitat on Fish Diversity in Schenevus Creek, NY
- *Klimczak, E., and Dr. C. Pennuto. Intensive trapping as a management action against red swamp crayfish
- Lagoon, L. A Decade of Fish Surveillance: Summarizing a Great Lakes AIS Programs Detections
- *Ludwig, J., M. Belore, E. Bloomfield, A. Cook, M. Diefenbach, A. Guerrero, T. Johnson, T. MacDougall, E. Olsen, J. D. Schmitt, J. Smith and J. Rinchard. A potential threat to lake whitefish recovery: evaluation of thiamine deficiency
- McKenna Jr, J. E. Habitat's Best Potential: A Necessary Metric
- Niemisto, M. Soundscapes of the Hudson River Estuary: NERRS Science Collaboration for Bioacoustics Research, Management, and Education
- *O'Neill, A. and S. Cushman. Diet Preference of Major Salmonid Species in Seneca Lake, Using Stomach Content Analysis
- *Palmer, D. The Effects of Biofilters on Ammonia and Nitrite within a Recirculating Water System
- Pendleton, R., J. Best, K. Alvarez del Castillo, K. Limburg, S. Pearson, E. Streifeneder. Rapid, long range movement and establishment of round goby in the Hudson River, NY confirmed through traditional fish sampling, eDNA, and otolith microchemistry
- Phillips, J. and R. Pendleton. Age and Growth of Native and Non-Native Catfishes in The Hudson River
- Quinter, C. D., M. Beers and M. Hahn. 2023 Fall Chinook Salmon Catch Rates in Region 8 Lake Ontario Tributaries
- Rinchard, J., M. Futia and J. Ludwig. Prevalence of thiamine deficiency in lake trout eggs from Cayuga Lake
- *Riordan, K. Comparison of lake trout diets among the Finger Lakes using stomach content, fatty acid, and stable isotope analyses
- *Rokosz, K., M. Sing, X. Yang, S. Grosskopf, S. Arsenault, K. Braid, A. Nguyen, S. Schanke, A. Villareal, D. Anderson, M. Madray, M. Balge and Y. Chen. The renewed Fall Juvenile Survey in the Hudson River
- Rubenstein, S. and H. Himes. Risk summaries as an important aquatic invasive species prevention tool
- *Ryan, E., K. Alvarez del Castillo, L. Rudstam, S. Sethi, E. Won and J. Maniscalco. Effects of Salinity on Survival and Reproduction of Round Goby
- *Sadekoski, T., S. George, M. Cornwell and B. Hefferson. Locating a Round Goby Invasion Front in Schoharie Creek, NY
- *Sanderson, N. Bass Buddies: Assessing Movement Dynamics of Angled and Released Largemouth Bass in a Northern Natural Lake
- *Sankar, B. and E. Lagdamen. Temperature, Tributary Position, Mouth Orientation, and Storage Areas influence Juvenile American Eel Navigation in the Hudson River

*Shandroff, S., J. Crews and C. O’Connel. Migratory Patterns of Young-of-Year Shortfin Makos in the Northwest Atlantic Ocean with Implications for a Localized Nursery Area

Sinchulk, A., E. Paribello, A. Guerrero, Z. Schuller and C. Craig. Investigating Environmental Drivers of Atlantic Striped Bass Spawning Success in the Hudson River Using Long-term Monitoring Survey Data

Smith, T. W. and D. Tracy. Water Resources Proposed Sportfish Monitoring

Stockwell, J. D., R. J. Chapina and G. Dur. An Individual-Based Model to Evaluate Influence of Migration Behavior on Pelagic and Benthic Resource Contributions to Growth of the Omnivorous Mysis

Sweck, T., and A. V. Genechten. Change in Mercury Guidelines for Fish Consumption

Thompson, S and C. Bowman. Recovery efforts for species of freshwater mussels within the Superfund Site in the lower Grasse River in Massena, NY

Wilkins, P and A. Fridman. The Prevalence of Invasive Species in Lake Erie Sportfish Diets

*Wrighter, S. G. L., and C. F. Cotton. Response of Banded Killifish (*Fundulus diaphanus*) to Increasing Acidity at Given Saline Concentrations

Room	Ballroom	Iroquois	Kingfisher Tower
Wednesday Feb. 7	Species of Concern	Monitoring & Detection	Spawning- The Next Generation
1:00PM-1:20PM	<u>Douglas M. Carlson</u> . Rare Fishes Inventory	<u>Colleen Keefer</u> et al. Utilizing all the tools in the toolbox: An adaptive approach to Early Detection and Monitoring using environmental DNA (eDNA) metabarcoding	<u>Collin Farrell</u> et al. Tails from the Past: Uncovering Forgotten Lake Sturgeon Spawning Areas in the New York Waters of Lake Erie Using newspaper archives
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3:00PM-3:20PM	<u>Scott George</u> et al. Status of Round Goby in Eastern New York	<u>Ryan Walquist</u> et al. Coregonine egg deposition and larval emergence following spawning substrate additions in Chaumont Bay, Lake Ontario	* <u>Brian Hefferon</u> et al. Host Fishes of the Yellow Lampmussel: Using Fish Traits to Predict Their Effectiveness
3:20PM-3:40PM	<u>Heidi Himes</u> et al. Scanning the Horizon for Future Aquatic Invasive Species Concerns	* <u>Matt Futia</u> et al. Modelling regional space use of fishes using acoustic telemetry	* <u>Thornton Ritz</u> and Dr. J. Farrell. Bayesian Mark-Recovery Modeling Improves Estimation of Young-of-year Northern Pike Survival in St. Lawrence River Coastal Wetlands
3:40PM-4:00PM	<u>Jacob Cochran</u> et al. eDNA Metabarcoding as an AIS Detection Tool on a Great Lakes Invasion Front	<u>Brian O'Malley</u> et al. Quantifying benthic-pelagic flux of Mysis biomass through diel vertical migration on a lakewide scale: a Lake Ontario case study	<u>Eileen Randall</u> et al. Inferring Brook Trout Spawning Phenology Using Passive Acoustic Monitoring

Room	Ballroom	Iroquois	Kingfisher Tower
Thursday Feb. 8	Fisheries & Ecosystem Management	Hudson River Biological and Ecosystem Monitoring Program	The Past, Present & Future
8:20AM-8:40AM	* Krystal Dixon et al. Comparing Lake Sturgeon Size at Age Across Water Bodies in NYS	Gregg Kenney et al. Advancing a next generation Hudson River Ecosystem Monitoring Program	* Hannah Whitcomb and F. Reyda. Past vs. present: A survey of the tributaries of Oneida Lake, New York
8:40AM-9:00AM	* Kate Henderson et al. Fish Biodiversity and Ecosystem Services of Cranberry Lake, New York	Yong Chen et al. Historical Hudson River Biological Monitoring Program: Challenge and Opportunity	* Katerina Sawickij and F. Reyda. A Survey of Freshwater Fish Parasites from the Everglades, FL
9:00AM-9:20AM	Kyle Morton et al. Post-stocking Mortality and Behavior of Age-1 Lake Trout in Lake Ontario	* Stephanie Arsenault et al. Development of comprehensive metadata records to facilitate historical Hudson River Biological Monitoring Program data sharing and collaborative research	* Anthony Mete Rice et al. Assessing the Restoration Potential of Brook Trout in the Water Being Returned to the Onondaga Nation
9:20AM-9:40AM	* Amelia McReynolds et al. Trophic ecology of burbot varies among basins of Lake Champlain	* Anh Nguyen et al. Conservations have improved heavy metal contaminations in Hudson River Striped Bass	* Taylor A. Brown et al. Reconstructing half a century of lake whitefish and cisco recruitment dynamics across the Great Lakes
9:40AM-10:00AM	Audrey Van Genechten . Implementing a new NY Statewide fish advisory- using angler input and audience testing to update and improve communication materials	* Stephanie Arsenault et al. Spatiotemporal dynamics of suitable spawning and habitat for bay anchovy (<i>Anchoa mitchilli</i>) in a changing Hudson River Estuary	* Alexander Koeberle et al. Navigating native cisco (<i>Coregonus artedii</i>) restoration in Keuka Lake, New York
10:00AM-10:20AM	BREAK	BREAK	BREAK
10:20AM-10:40AM	Megan Barrow . The Transformative Impact of Online Reporting and Workflow Automation on Marine Fisheries Data Management	* Katrina Rokosz et al. Understanding the dynamics of white perch spawning habitat in the Hudson River using long-term ichthyoplankton monitoring data	Benjamin Marcy-Quay and E. Marsden. A mixed-stock analysis of lake trout recovery in Lake Champlain
	You Are What You Eat		
10:40AM-11:00AM	* Nicholas Farese et al. Use of Stomach Contents, Fatty acids, and Stable Isotopes to Assess Lake Trout Diet from Otsego Lake	Hsiao-Yun Chang and Y. Chen. Shifting spawning phenology in the Hudson River American shad	Karin E. Limburg et al. Climate Weiriding Effects on Adirondack Fishes
11:00AM-11:20AM	* Christopher A. Osborne et al. Using a Pangenome Graph to Explore Genomic Variation Related to Thiamine Metabolism in Lake Charr (<i>Salvelinus namaycush</i>)	Adam Bonemery . Rise of the machines: leveraging side scan sonar and machine learning to enumerate sturgeon in a large river system	* Carl A. St John et al. Revision of species status for the Summer Sucker and implications for New York State species delineation
11:20AM-11:40AM	Zoe L. Almeida et al. Density, prey, temperature, and time: Which factors are most related to Walleye condition, growth, and length?	Ming Sun et al. Calibrating the historical Long River Survey Data in the Hudson River Estuary to account for effects of changing sampling protocols	Dan Stich et al. Re-imagining the landscape for river herring restoration through coastwide population models
11:40AM-12:00PM	Brian Leydet et al. Are fish what they eat? Gut microbiome patterns of fish from the Upper St. Lawrence River		Gregg Kenney et al. Should we encourage Blueback Herring to use the Mohawk River?

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