

**54th Annual Meeting of the
New York Chapter American Fisheries Society**

**February 5-7, 2020
High Peaks Resort Lake Placid, NY**

**New York
Chapter
of American
Fisheries
Society**



February 2020
Lake Placid
**coldwater fisheries in light of
climate change**

2020 NY AFS Annual Meeting

High Peaks Resort Lake Placid, NY

February 5-7, 2020

Wednesday February 5, 2020

12:00 PM to 5:00 PM	Registration , Lobby
12:00 PM to 7:00 PM	Poster Setup , Avalanche Pass
1:00 PM to 5:00 PM	Workshop , McIntyre Range
5:00 PM to 6:30 PM	NY AFS Executive Committee Meeting , Marcy Boardroom
7:00 PM to 9:00 PM	Welcome Social , Lake House

Thursday February 6, 2020

7:00 AM to 8:30 AM	Continental Breakfast , Great Range
7:30 AM to 12:00 PM	Registration , Lobby
7:30 AM to 5:30 PM	Poster Setup , Avalanche Pass
8:30 AM to 10:30 AM	Introduction and Plenary Session , McIntyre Range
10:30 AM to 10:50 AM	Break
10:50 AM to 12:00 PM	Plenary Session , McIntyre Range
12:00 PM to 1:20 PM	Lunch , Great Range
1:20 PM to 2:40 PM	Contributed Sessions , Algonquin/Iroquois/Wright
2:40 PM to 3:00 PM	Break
3:00 PM to 4:20 PM	Contributed Sessions , Algonquin/Iroquois/Wright
4:45 PM to 6:00 PM	Business Meeting , Wright
6:00 PM to 7:30 PM	Poster Session , Avalanche Pass
6:00 PM to 7:30 PM	Illustrated Fisheries Exhibit , Avalanche Pass
7:30 PM to 10:00 PM	Banquet and Raffle , Great Range

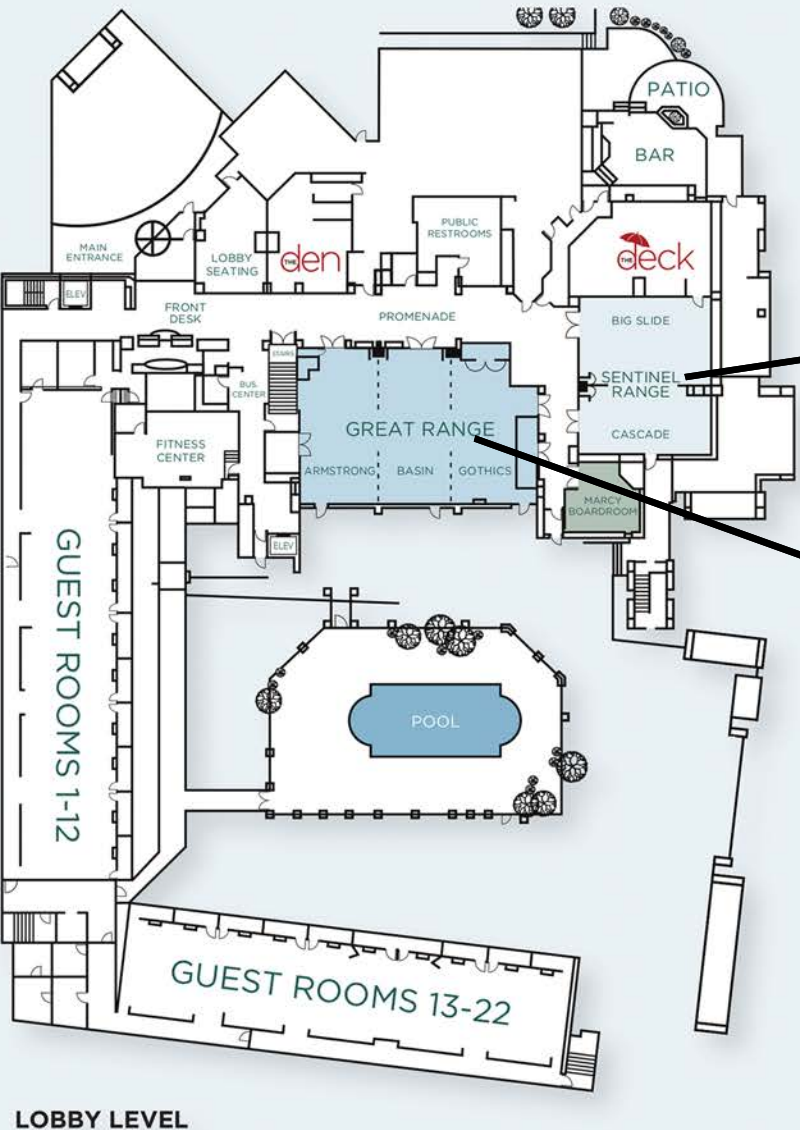
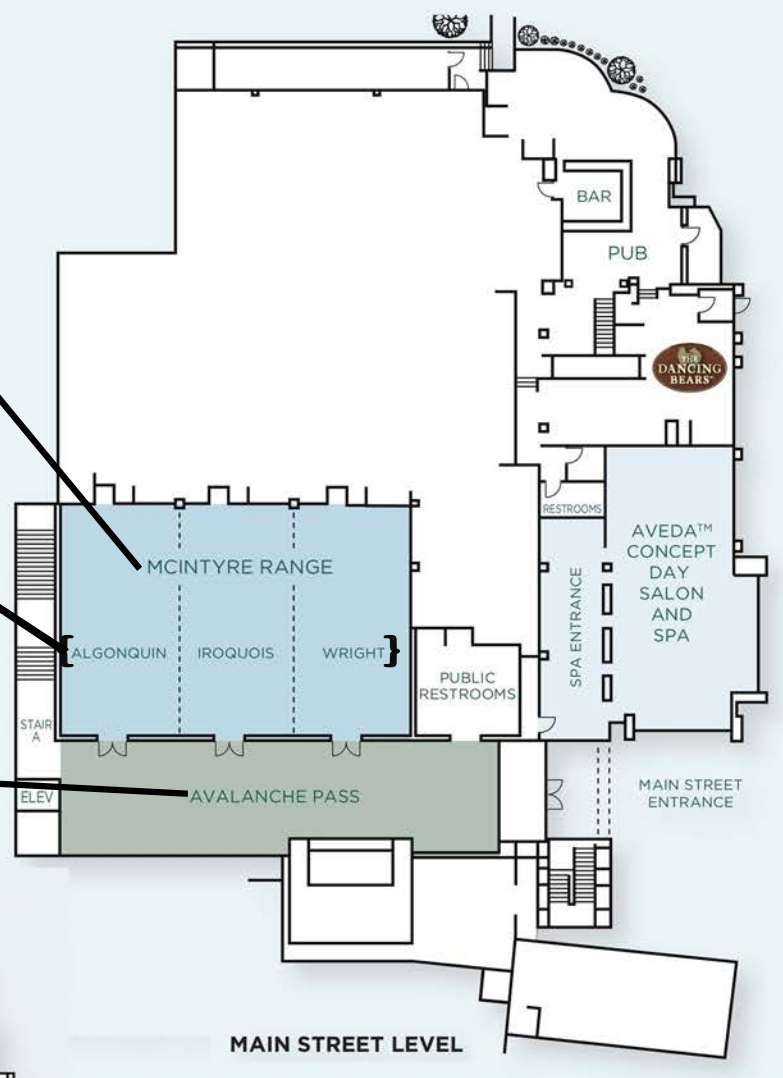
Friday February 7, 2020

7:00 AM to 8:30 AM	Continental Breakfast , Great Range
7:15 AM to 8:15 AM	Women in Fisheries Breakfast , Great Range
7:30 AM to 8:30 AM	Registration , Lobby
8:30 AM to 10:10 AM	Contributed Sessions , Algonquin/Iroquois/Wright
10:10 AM to 10:30 AM	Break
10:30 AM to 11:50 AM	Contributed Sessions , Algonquin/Iroquois/Wright
12:00 PM to 12:30 PM	Awards and Closing Remarks , Algonquin

Workshop (2/5)
Plenary Session (2/6)

Contributing Sessions (2/6, 2/7)

Poster Session (2/6)



Illustrated Fisheries Exhibit (2/6)

Breakfast (2/6, 2/7)
Lunch (2/6)
Banquet/Raffle (2/6)
Women in Fisheries Breakfast (2/7)

Thursday February 6, 2020

PLENARY

Coldwater Fisheries In Light of Climate Change

8:30 AM to 8:45 AM	Susan Cushman (President). Welcome and introductions
8:45 AM to 9:20 AM	Nathaniel Hitt. <i>Brook trout and climate change from genes to landscapes</i>
9:20 AM to 9:55 AM	Brian Lantry. <i>Ruminating on the future of a 47-year-old lake trout restoration program</i>
9:55 AM to 10:30 AM	Ashley Moerke. <i>On thin ice: understanding climate change threats to Lake Superior fishes</i>
10:30 AM to 10:50 AM	Break
10:50 AM to 11:25 AM	Tony David. <i>Indigenous place names: what they tell us about shared resources</i>
11:25 AM to 12:00 PM	Dale Willman. <i>Science the shit out of it: communicating like your life depends on it</i>

Thursday February 6, 2020

CONCURRENT SESSIONS



Coldwater Fisheries (Algonquin)



(*Student presentations)

1:20 PM to 1:40 PM	<u>Trevor J. Krabbenhoft</u> and Nathan J. C. Backenstose. The cisco genome assembly (<i>Coregonus artedi</i>) provides a new tool for managing coldwater fisheries in light of climate change
1:40 PM to 2:00 PM	* <u>Matthew Futia</u> . Pushed to the edge: seasonal shifts in habitat use of lake trout in Lake Champlain
2:00 PM to 2:20 PM	Avril M. Harder et al. (presented by <u>William R. Ardren</u>). Among family variation in survival and gene expression uncovers adaptive genetic variation in landlocked Atlantic salmon
2:20 PM to 2:40 PM	* <u>Taylor Brown</u> et al. Contemporary spatial extent and environmental drivers of larval coregonine distributions across Lake Ontario
2:40 PM to 3:00 PM	Break
3:00 PM to 3:20 PM	<u>Rosalie Bruel</u> et al. Informing lake trout population management in Lake Champlain with an ecosystem-based approach
3:20 PM to 3:40 PM	Pascal D. Wilkins (presented by <u>Ellen Marsden</u>). Seasonal depth distribution of wild and stocked juvenile lake trout in Lake Champlain
3:40 PM to 4:00 PM	<u>Stacy Furgal</u> . Lake trout in Lake Ontario: searching for the secret to spawning success
4:00 PM to 4:20 PM	* <u>Benjamin Marcy-Quay</u> . Expanding the feasibility of fish and wildlife assessments with close-kin mark-recapture



Fish Passage and Restoration (Iroquois)



1:20 PM to 1:40 PM	<u>Jonah Lawrence Withers</u> et al. Evaluation of landlocked Atlantic salmon recolonization in the Boquet River
1:40 PM to 2:00 PM	* <u>Amir Golpira</u> and Abul Basar M. Baki. Mean and turbulent flow characteristics within an array of boulders with different boulder spacing
2:00 PM to 2:20 PM	<u>Jadziah Hannon-Moonstone</u> et al. Fallback of adult landlocked Atlantic salmon (<i>Salmo salar</i>) transported above hydroelectric dams
2:20 PM to 2:40 PM	* <u>Alex Gatch</u> et al. The potential for restoration of rocky reef spawning habitat with custodial maintenance
2:40 PM to 3:00 PM	Break
3:00 PM to 3:20 PM	<u>Gian Dodici</u> et al. Restoring aquatic habitat connectivity in an upper Susquehanna sub watershed, one crossing at a time.
3:20 PM to 3:40 PM	<u>James E. McKenna, Jr.</u> and Michael T. Slattery. Seasonal responses of walleye abundance to changes in ecological flow
3:40 PM to 4:00 PM	<u>Colby Bowman</u> et al. Freshwater mussel propagation efforts for <i>Leptodea fragilis</i>
4:00 PM to 4:20 PM	<u>Richard Redman</u> . Damn the dams of the Adirondacks



Ecological Interactions (Wright)



1:20 PM to 1:40 PM	<u>Jessica E. Best</u> and Rodman G. Getchell. Mycobacterial prevalence in striped bass of the Hudson River
1:40 PM to 2:00 PM	* <u>Chris Marshall</u> et al. Distribution and ecology of <i>Ergasilus cotti</i> (Kellicott 1897) from mottled sculpin and rainbow darter
2:00 PM to 2:20 PM	Chris Marshall et al. (presented by * <u>Ruby Dener</u>). A survey of parasitic crustaceans in Oneida Lake
2:20 PM to 2:40 PM	<u>Craig Milewski</u> . An Adirondack case study of freshwater community ecology and shoreline organic matter
2:40 PM to 3:00 PM	Break



Rivers and Streams (Wright)



3:00 PM to 3:20 PM	<u>Carrienne Pershyn</u> et al. Mapping the spatial distribution of native and non-native trout in the Ausable River watershed.
3:20 PM to 3:40 PM	<u>Scott Cornett</u> . Population trend monitoring for trout streams in NYSDEC Region Nine
3:40 PM to 4:00 PM	* <u>Samantha R. Carey</u> . A comparison of benthic macroinvertebrate communities between the inlets and the outlet of Lake Forest and Lake Allure, NY.
4:00 PM to 4:20 PM	<u>Abul B. M. Baki</u> . Nature-like fishpasses for aquatic connectivity to conserve and restore fish habitat

Friday February 7, 2020

CONCURRENT SESSIONS

Invasive Species (Algonquin)

(*Student presentations)

8:30 AM to 8:50 AM	<u>Rich Pendleton</u> et al. The Erie Canal - easy navigation for more than just boats
8:50 AM to 9:10 AM	<u>Steven Pearson</u> et al. The threat of northern snakehead to New York waterbodies
9:10 AM to 9:30 AM	<u>Douglas Bishop</u> et al. White catfish and channel catfish in the Hudson River estuary
9:30 AM to 9:50 AM	* <u>Brian Mullin</u> . Invasive copepod infections of introduced salmonids in Lake Ontario
9:50 AM to 10:10 AM	* <u>McKenzie J. Frazier</u> and Susan F. Cushman. The effect of round goby on benthic macroinvertebrate lake communities
10:10 AM to 10:30 AM	Break

Climate Change Influences on Fisheries (Algonquin)

10:30 AM to 10:50 AM	<u>Brian Weidel</u> . Recruitment impediments in Lake Ontario coregonines: contrasting mechanisms and the potential roles of habitat and climate
10:50 AM to 11:10 AM	<u>Julie L. Butler</u> . Building diverse partnerships to facilitate species resiliency
11:10 AM to 11:30 AM	<u>Craig Milewski</u> et al. Historical changes in the fish community in Lower St. Regis Lake, northern Adirondacks: what does it all mean?

11:30 AM to 11:50 AM

James R. Jackson et al. Burbot: Oneida Lake's last coldwater species confronts climate change



Fisheries Techniques and Food Webs



(Iroquois)

8:30 AM to 8:50 AM

*Kimberly B Fitzpatrick et al. Predator-prey population dynamics modeling for chinook salmon and alewife in Lake Ontario

8:50 AM to 9:10 AM

James Watkins and Taylor Brown. Capacity of zooplankton prey for supporting coregonid restoration efforts

9:10 AM to 9:30 AM

Colleen Keefer et al. Comparing the utility of morphological and genetic identifications of larval fishes

9:30 AM to 9:50 AM

Brian O'Malley. Comparison of size-corrected traditional and geometric morphometrics for separating coregonine forms

9:50 AM to 10:10 AM

*Daniel Sinopoli. Morphological variation of extant bowfins (Amiidae: *Amia*) in the Mississippi River Basin: taxonomic and conservation implications

10:10 AM to 10:30 AM

Break

10:30 AM to 10:50 AM

*Cara Ewell Hodkin and Karin Limburg. Well, that didn't work: the ongoing quest to track anadromous blueback herring using otolith isotopes

10:50 AM to 11:10 AM

Scott George et al. Round 'slowby' – sluggish expansion of an invasive fish towards the Hudson River

11:10 AM to 11:30 AM

Toniann D. Keiling and Melissa K. Cohen. Largemouth bass populations: New York City vs. New York State

11:30 AM to 11:50 AM

Jacob Cochran. You lost that data sheet! Digital data collection and its utility in fisheries



Rare, Native, and Imperiled Species (Wright)



8:30 AM to 8:50 AM	<p>*<u>Katherine Foley</u> and Susan F Cushman. Competition for food resources between the native lake sturgeon (<i>Acipenser fulvescens</i>) and invasive round goby (<i>Neogobius melanostomus</i>)</p>
8:50 AM to 9:10 AM	<p><u>Dawn Dittman</u> et al. Juvenile lake sturgeon prey consumption in Cayuga Lake, NY.</p>
9:10 AM to 9:30 AM	<p><u>Emily Zollweg-Horan</u>. Cayuga Lake lake sturgeon recovery</p>
9:30 AM to 9:50 AM	<p><u>Matthew Breece</u> et al. Drivers of broad-scale adult Atlantic sturgeon behavior in the Hudson River</p>
9:50 AM to 10:10 AM	<p>*<u>Michael deMoulied</u> and Andrew Gascho Landis. Changes in freshwater mussel communities of the Neversink River, New York, 1990-2019.</p>
10:10 AM to 10:30 AM	<p>Break</p>
10:30 AM to 10:50 AM	<p>*<u>Carl St. John</u>. Does New York have an endemic fish? A 133 year mystery</p>
10:50 AM to 11:10 AM	<p>Amy K. Conley et al. (presented by <u>Lisa Holst</u>). Habitat suitability and management options for maintaining round whitefish (<i>Prosopium cylindraceum</i>) in Adirondack ponds</p>
11:10 AM to 11:30 AM	<p><u>Florian Reyda</u> and Brian Mullin. Extirpation of fish acanthocephalans at their type localities</p>
11:30 AM to 11:50 AM	<p><u>Doug Carlson</u> and Lisa Holst. Monitoring, describing and conserving of imperiled fishes in New York</p>

Plenary Presenter Biographies

Tony Teharatats David

Mr. Tony David is a member of the Saint Regis Mohawk Tribe (SRMT) and has First Nation status in Canada. Beginning in March of 2019, he became the Director of the SRMT Environment Division, which includes diverse programs for water resources, air quality, solid waste management, land resources, superfund remediation and others.

Previously, he was the program manager of the Water Resources Program charged with protecting and enhancing wetlands, fisheries and water quality in Tribal Waters. Under his tenure, SRMT became the first and only Tribe in New York to have federally enforceable water quality standards under the Clean Water Act. He grew the Tribe's fisheries capabilities to conduct population surveys and updated the tribe's fish advisories. In 2016, he completed a 7 year project to decommission and remove the Hogansburg dam, the first impassible fish barrier on the St. Regis River. As a result, project lands were returned to the tribe and exemplified the Tribe's abilities as a sovereign to manage its own resources. The ecological benefits included reconnecting 555 miles of river and stream habitat with the St. Lawrence River. SRMT is the only tribe in the U.S. to remove a licensed hydropower facility, and the first to decommission and remove a dam in New York State.

In January of 2017, Mr. David was appointed to the U.S. Section of the International Lake Ontario-St. Lawrence River Board under the International Joint Commission, where he has developed a leadership role in the communication of complex water regulation issues. In May of 2017, the U.S. Environmental Protection Agency presented Mr. David with the Environmental Champion Award, the highest recognition the agency presents to the public, for his work on the Hogansburg Dam removal. He received a Master of Professional Studies from Cornell University (2005); and a B.A. in Environmental Studies from SUNY Buffalo (2001) while on an athletic scholarship for track and cross country.

Nathaniel Hitt, Ph.D.

Dr. Nathaniel (Than) Hitt is a Research Fish Biologist at the U.S. Geological Survey's Leetown Science Center in Kearneysville, West Virginia. He holds a B.A. in Biology from the College of Wooster, an M.S. in Organismal Biology and Ecology from the University of Montana, and a Ph.D. in Fisheries and Wildlife Sciences from Virginia Tech. Dr. Hitt's research investigates freshwater fish ecology from a landscape perspective, focusing on stream ecosystems in the Appalachian highlands.

Brian Lantry, Ph.D.

Brian Lantry, is a USGS research fisheries biologist and the supervisor of USGS Lake Ontario Biological Station. He has been with USGS since 2001 and before that worked for NYSDEC as a fisheries biologist at their Cape Vincent Fisheries Research Station. In both positions he specialized in lake trout population dynamics working since 1997 towards lake trout restoration in Lake Ontario. He did his graduate work with Don Stewart at the State University of New York College of Environmental Science and Forestry at Syracuse receiving a PhD in 1997 studying percid bioenergetics and population dynamics on Oneida Lake, NY.

Ashley Moerke, Ph.D.

Dr. Moerke has been conducting research in fisheries and aquatic ecology in the Great Lakes basin for over 15 years. She earned a B.S. from the University of Minnesota - Duluth, and an M.S. and Ph.D. from the University of Notre Dame. She joined the faculty of Lake Superior State University in 2004 and is currently a full professor and director of the Center for Freshwater Research and Education (CFRE), a new initiative and building that she has spear-headed for the past 10 years. At LSSU, she has taught over 15 different courses in the Fisheries & Wildlife Management program and been awarded the LSSU and the Michigan Distinguished Professor of the Year awards.

She has developed a collaborative research program integrating undergraduate students that focuses on the ecology and conservation of freshwater fisheries and aquatic ecosystems, including understanding the ecology of migratory fishes, effects of invasive species and landscape stressors on aquatic ecosystems, stream restoration, and stream and wetland bioassessment. She has supervised over 70 undergraduate theses and led or collaborated on over 20 funded research projects (>\$2.5 million directly to LSSU) that have provided more than 100 undergraduates students with hands-on research experiences. She also was appointed by the Michigan Governor to serve as an advisor to the Lake Superior Committee of the Great Lakes Fishery Commission, and on the Governor's Environmental Science Advisory Board.

Dale Willman

Dale Willman has spent his lifetime thinking in images, as both a journalist and photographer. The best writing, after all, is about setting scenes, creating images and telling stories. So is the most captivating photography. Willman is an award-winning news anchor, editor, reporter and trainer with decades of experience working around the world. During more than 15 years in Washington, DC he worked for NPR, CBS and CNN. During the first Gulf War he reported from London for NPR, providing coverage for an IRA

bombing campaign, and he anchored the only NPR Newscasts ever broadcast from overseas. Willman is currently Program Manager for the Resilience Science Journalism Fellowship program at the Craig Newmark Graduate School of Journalism at CUNY in New York City, and continues to anchor NPR newscasts occasionally. Through his work and personal travels, he has reported and taken photographs on five continents. Willman's subject interests are broad, ranging from human interest studies to photography in conflict zones. He has sold photos to clients around the world. As a trainer Willman spent a year recently in South Sudan working with the staff of a local radio station. He was also awarded a Fulbright Scholarship in 2010, spending a year in Indonesia where he researched noted naturalist Alfred Russel Wallace. He also lectured at Padjadjaran University in Bandung, Indonesia. Willman speaks around the world on media and science literacy issues.

Contributed Posters

*Student Presentation

- Altenritter, M. New laboratory introduction: movement variability and ecological resilience (MOVER)
- Aubrey, R. Change is coming, but what does that mean for crayfish?
- *Best, M. and D. Stitch. Age structure and genetic markers of semelparous vs. iteroparous American shad (*Alosa sapidissima*) in the Delaware River
- *Blouin, K. J., C. L. Gunderson, J. G. Layland, C. L. Rattray, C. M. Waltz, T. E. Yorks. Cazenovia Lake fish community and four years of walleye stocking
- Brewer, J., J. Zanett, L. Stratton. Current status of the Chautauqua Lake fishery
- Brooking, T., K. T. Holeck, J. R. Jackson, A. J. VanDeValk. Effects of round goby on fish diets and benthic community in Oneida Lake, NY
- *Canavan, J., C. Cotton, A. Gascho Landis. Diet composition of adult and juvenile blueback herring in the Hudson River
- Carlson, D. Another imperiled species in need of conservation: longnose sucker
- *Conklyn, A. L., R. G. Getchell, J. M. Farrell. VHSV prevalence dynamics in round gobies of the upper St. Lawrence River
- Cooper, J. Eastern pearlshell (*Margaritifera margaritifera*) dominates the unionid mussel population in Scriba Creek, NY
- Davis, C. Physical habitat associated with cisco (*Coregonus artedii*) egg deposition in eastern Lake Ontario
- *Denecke, L. and J. Rinchar. Interaction between dietary thiamine and lipid on juvenile steelhead trout.
- Draves, J. Feed size comparison, with brown trout, at the Randolph Fish Hatchery
- Driscoll C., J. Brewer, M. Clancy. Assessing adult muskellunge movements in Buffalo Harbor, Lake Erie, and the Niagara River
- *Eaton, K., M. Bernal, N. Backenstose, T. Krabbenhoft. Evolution of visual pigment genes underlies adaptation across a depth gradient in Great Lakes ciscoes (*Coregonus* spp.)
- Fox, D. A., A. L. Higgs, J. A. Madsen, D. C. Kazyak, M. W. Breece. Empirical evidence of Atlantic sturgeon spawning in the Hudson River
- Haines, A. M. and W. W. Eakin. Developing a new methodology to estimate alewife abundance in Hudson River tributaries
- *Hefferon B., A. Gascho Landis, S. Swenson. Large woody debris stream enhancement: a model for creating critical brook trout habitat in first and second order streams

- *Heisey A., L. Denecke, M. Sanderson, S. Prindle, M. Todd, C. Lake, M. Yuille, J. Rinchard. Lake-wide comparison of chinook salmon condition after pen-rearing in Lake Ontario.
- *Hemmelgarn, G. L., P. D. Wilkins, J. E. Marsden. Use of maxillae to improve estimation of lake trout ages in Lake Champlain
- Higgs, A., R. Pendleton, D. Fox, J. Madsen, D. Kazyak, P. Sullivan. Just how many shortnose sturgeon are out there; a non-traditional approach to estimating sturgeon in a large river system
- *Hoy, O. S., H. D. Broadbent, P. L. Losee, M. M. Riley, T. E. Yorks. Potential re-establishment of brook trout in Butternut Creek tributaries
- Johnson R. J., S. Keppner, M. Bartron, A. Maloy, C. Rees, C. Osborne. Expanding genetic tools available for aquatic invasive species identification
- Kinney, P. and J. Hentges. Use of a small grader (post hatch) for waste removal from egg incubator trays
- Kronisch, G., D. Gorsky, Z. Biesinger, D. Dittman, M. Chalupnicki, R. Klindt, T. Brooking, R. Jackson, T. Van De Valk, S. Schlueter, N. Ringler, E. Zollweg-Horan. Early evaluation of lake-wide lake sturgeon (*Acipenser fulvescens*) movements in the context of Lake Ontario management units
- Leblanc, J. P., A. Conklyn, J. M. Farrell. Rapid fin regeneration of age-0 Northern Pike and implications of fin-clips as a marking protocol
- Milewski, C. (presented by R. Visicaro). Trends in population dynamics of introduced black crappie in Lower St. Regis Lake, northern Adirondacks
- *Nellis, R. Spawning site fidelity of white sucker in Otsego Lake, NY
- Ohar, M. Going cray for invasives: early detection in the lower Great Lakes
- *Olivencia, K. and A. Gascho Landis. Survival of encysted glochidia after antibiotic treatment
- Osborne, C., D. Gorsky, M. Bartron, B. Lantry, B. Weidel, S. Furgal, M. Connerton. Where the wild trout are: the state of lake trout reproduction in Lake Ontario
- *Pakzad, I., R. Razavi, J. Farrell. Diet overlap between round gobies and tubenose gobies in the St. Lawrence River
- Phillips, S., C. Madenjian, K. Keeler. Variation in respiration for male and female lake trout (*Salvelinus namaycush*) bioenergetics.
- Rawinski, P., M. Chalupnicki, J. E. McKenna, R. Chiavalli, R. Greil. Status of returning Atlantic salmon to the Salmon River, New York
- Rinchard J., L. Denecke, R. Snyder, M. Connerton. Change in gill Na⁺/K⁺ ATPase activity in chinook salmon juveniles
- *Rose A. L., A. L. Beck, C. S. Blouin, N. M. Czudak, B. R. Kern, T. E. Yorks. Upper and Lower Leland Ponds fish communities and results of brown trout and tiger muskellunge stocking

- Roth, C. and K. Williams. Tracking winter outdoor coho salmon growth at NYSDEC Salmon River Fish Hatchery
- Sard, N., Y. Shi, B. Weidel, W. Larson. How did rainbow smelt invade the Great Lakes? – Testing Bergstedt's 1983 multiple introduction hypothesis and its potential role in rapid adaptation
- *Snell, C. J., N. Christ, J. Rinchar. Fate of microplastics in coho salmon (*Oncorhynchus kisutch*) and round goby (*Neogobius melanostomus*)
- *Stetler, J. T. and K. C. Rose. Understanding oxythermal sensitivity of Adirondack lakes: Implications of climate change and browning for cold-water fishes
- Stoddard, E. and D. Domachowske. 2019 lake sturgeon culture at NYS DEC Oneida Fish Hatchery
- Swenson, S. Utilizing pass through and pass over radio frequency identification HDX single antenna systems to evaluate the passability of a culvert pre and post baffle installation
- Swenson, S., C. Shafer, T. Brown. An evaluation of physical and thermal habitat limitations on trout in the upper East Branch of the Delaware River
- Trometer, E. and T. Hoffman. Restoring habitat for brook trout
- VanDeValk, A., R. Jackson, T. Brooking. A comparison of Oneida Lake predator diets before and after round goby arrival
- Watts, A. N., A. L. Higgs, J. A. Madsen, D. C. Kazyak, M. W. Breece, D. A. Fox. New insights into Atlantic sturgeon spawning in the Hudson River; sex-specific estimates of habitat-use and residency in the Hyde Park Reach
- Wilder, M., H. Green, J. Farrell. Monitoring muskellunge in the St. Lawrence River with environmental DNA
- *Wilson, K. and M. Altenritter. Movement and life history diversity of Lake Ontario yellow perch (*Perca flavescens*).
- Wlasniewski, C., A. Day, A. Haley, K. Osika, K. Healy. Cisco (*Coregonus artedii*) culture at the NYSDEC Bath Fish Hatchery

ROOM	ALGONQUIN	IROQUOIS	WRIGHT
Thursday Feb. 6	COLDWATER FISHERIES	FISH PASSAGE AND RESTORATION	ECOLOGICAL INTERACTIONS
1:20 - 1:40 PM	<u>Krabbenhoft, T. J.</u> and N. J. C. Backenstose. The cisco genome assembly (<i>Coregonus artedii</i>) provides a new tool for managing coldwater fisheries in light of climate change	<u>Withers, J. L.</u> et al. Evaluation of landlocked Atlantic salmon recolonization in the Boquet River	<u>Jessica E. Best</u> and Rodman G. Getchell. Mycobacterial prevalence in striped bass of the Hudson River
1:40 - 2:00 PM	* <u>Futia, M.</u> Pushed to the edge: seasonal shifts in habitat use of lake trout in Lake Champlain	* <u>Golpira, A</u> and A. B. M. Baki. Mean and turbulent flow characteristics within an array of boulders with different boulder spacing	* <u>Marshall, C.</u> et al. Distribution and ecology of <i>Ergasilus cotti</i> (Kellicott 1897) from mottled sculpin and rainbow darter
2:00 - 2:20 PM	Harder, A. et al. (presented by <u>W. R. Ardren</u>). Among family variation in survival and gene expression uncovers adaptive genetic variation in landlocked Atlantic salmon	<u>Hannon-Moonstone, J.</u> et al. Fallback of adult landlocked Atlantic salmon (<i>Salmo salar</i>) transported above hydroelectric dams	Marshall, C et al. (presented by * <u>Ruby Dener</u>). A survey of parasitic crustaceans in Oneida Lake
2:20 - 2:40 PM	* <u>Brown, T</u> et al. Contemporary spatial extent and environmental drivers of larval coregonine distributions across Lake Ontario	* <u>Gatch, A.</u> et al. The potential for restoration of rocky reef spawning habitat with custodial maintenance	<u>Craig Milewski</u> . An Adirondack case study of freshwater community ecology and shoreline organic matter
2:40 - 3:00 PM	Break	Break	Break
			RIVERS AND STREAMS
3:00 - 3:20 PM	<u>Bruel R.</u> et al. Informing lake trout population management in Lake Champlain with an ecosystem-based approach	<u>Dodici, G.</u> et al. Restoring aquatic habitat connectivity in an upper Susquehanna sub watershed, one crossing at a time.	<u>Pershyn, C.</u> et al. Mapping the spatial distribution of native and non-native trout in the Ausable River watershed.
3:20 - 3:40 PM	Wilkins, P. D. (presented by E. Marsden). Seasonal depth distribution of wild and stocked juvenile lake trout in Lake Champlain	<u>McKenna, J. E., Jr.</u> and M. T. Slattery. Seasonal responses of walleye abundance to changes in ecological flow	<u>Cornett, S.</u> Population trend monitoring for trout streams in NYSDEC Region Nine
3:40 - 4:00 PM	<u>Furgal, S.</u> Lake trout in Lake Ontario: searching for the secret to spawning success	<u>Bowman, C.</u> et al. Freshwater mussel propagation efforts for <i>Leptodea fragilis</i>	* <u>Carey, S.</u> A comparison of benthic macroinvertebrate communities between the inlets and the outlet of Lake Forest and Lake Allure, NY.
4:00 - 4:20 PM	* <u>Marcy-Quay, B.</u> Expanding the feasibility of fish and wildlife assessments with close-kin mark-recapture	<u>Redman, R.</u> Damn the dams of the Adirondacks	<u>Baki, A. B. M.</u> Nature-like fishpasses for aquatic connectivity to conserve and restore fish habitat

ROOM	ALGONQUIN	IROQUOIS	WRIGHT
Friday Feb. 7	INVASIVE SPECIES	FISHERIES TECHNIQUES AND FOOD WEBS	RARE, NATIVE, AND IMPERILED SPECIES
8:30 – 8:50 AM	<u>Pendleton, R.</u> et al. The Erie Canal - easy navigation for more than just boats	* <u>Fitzpatrick, K. B.</u> et al. Predator-prey population dynamics modeling for chinook salmon and alewife in Lake Ontario	* <u>Foley, K.</u> and S. F. Cushman. Competition for food resources between the native lake sturgeon (<i>Acipenser fulvescens</i>) and invasive round goby (<i>Neogobius melanostomus</i>)
8:50 – 9:10 AM	<u>Pearson, S.</u> et al. The threat of northern snakehead to New York waterbodies	<u>Watkins, J.</u> and T. Brown. Capacity of zooplankton prey for supporting coregonid restoration efforts	<u>Dittman, D.</u> et al. Juvenile lake sturgeon prey consumption in Cayuga Lake, NY.
9:10 – 9:30 AM	<u>Bishop, D.</u> et al. White catfish and channel catfish in the Hudson River estuary	<u>Keefer, C.</u> et al. Comparing the utility of morphological and genetic identifications of larval fishes	<u>Zollweg-Horan, E.</u> Cayuga Lake lake sturgeon recovery
9:30 – 9:50 AM	* <u>Mullin, B.</u> Invasive copepod infections of introduced salmonids in Lake Ontario	<u>O'Malley, B.</u> Comparison of size-corrected traditional and geometric morphometrics for separating coregonine forms	<u>Breece, M.</u> et al. Drivers of broad-scale adult Atlantic sturgeon behavior in the Hudson River
9:50 – 10:10 AM	* <u>Frazier, M. J.</u> and S. F. Cushman. The effect of round goby on benthic macroinvertebrate lake communities	* <u>Sinopoli, D.</u> Morphological variation of extant bowfins (Amiidae: <i>Amia</i>) in the Mississippi River Basin: taxonomic and conservation implications	* <u>deMoulied, M.</u> and A. Gascho Landis. Changes in freshwater mussel communities of the Neversink River, New York, 1990-2019.
10:10 – 10:30 AM	Break	Break	Break
	CLIMATE CHANGE INFLUENCE ON FISHERIES		
10:30 – 10:50 AM	<u>Weidel, B.</u> Recruitment impediments in Lake Ontario coregonines: contrasting mechanisms and the potential roles of habitat and climate	* <u>Hodkin, C. E.</u> and K. Limburg. Well, that didn't work: the ongoing quest to track anadromous blueback herring using otolith isotopes	* <u>St. John, C.</u> Does New York have an endemic fish? A 133 year mystery
10:50 – 11:10 AM	<u>Butler, J. L.</u> Building diverse partnerships to facilitate species resiliency	<u>George, S.</u> et al. Round 'slowby' – sluggish expansion of an invasive fish towards the Hudson River	Conley, A. K. et al. (presented by <u>L. Holst</u>). Habitat suitability and management options for maintaining round whitefish (<i>Prosopium cylindraceum</i>) in Adirondack ponds
11:10 – 11:30 AM	<u>Milewski, C.</u> et al. Historical changes in the fish community in Lower St. Regis Lake, northern Adirondacks: what does it all mean?	<u>Keiling, T. D.</u> and M. K. Cohen. Largemouth bass populations: New York City vs. New York State	<u>Reyda, F.</u> and B. Mullin. Extirpation of fish acanthocephalans at their type localities
11:30 – 11:50 AM	<u>Jackson, J. R.</u> et al. Burbot: Oneida Lake's last coldwater species confronts climate change	<u>Cochran, J.</u> You lost that data sheet! Digital data collection and its utility in fisheries	<u>Carlson, D.</u> and L. Holst. Monitoring, describing and conserving of imperiled fishes in New York

Special thanks to this year's raffle contributors:

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Lake Champlain Chapter of Trout Unlimited

Midwest Lakes
Smith Root
Vexilar
Vortex



Logo art by Isabella Pardales,
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Thank you for attending this year's meeting!

We look forward to seeing you next year!