

57th Annual Meeting of the New York Chapter American Fisheries Society

February 8-10, 2023

Stony Brook University - Wang Center

Stony Brook, NY

**“Then and Now” Dynamic Fisheries in Changing NY
Waters**



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2023 NY AFS Annual Meeting

Stony Brook University Wang Center Stony Brook, NY
February 8-10, 2023

Wednesday February 8, 2023

12:00 PM to 4:00 PM **Registration**, Theatre Lobby
12:00 PM to 4:00 PM **Workshop**, Lecture 2
4:00 PM to 6:00 PM **Excomm Meeting**, Lecture 2
6:30 PM to 8:30 PM **Welcome Social**, Zodiac Gallery
8:00 PM to 12:00 AM **Shuttles between Wang Center and Downtown Port Jefferson**

Thursday February 9, 2023

8:00 AM to 5:00 PM **Registration**, Theatre Lobby
8:00 AM to 5:00 PM **Poster Setup**, Theatre Lobby
8:30 AM to 9:30 AM **Breakfast**, Theatre Lobby
9:00 AM to 10:15 AM **Introduction and Plenary Session**, Theatre
10:15 AM to 10:30 AM Break
10:30 AM to 12:00 PM **Plenary Session**, Theater
12:00 PM to 1:00 PM **Lunch**, Theatre Lobby
1:00 PM to 3:00 PM **Contributed Sessions**, Theatre/Lecture 1/Lecture 2
3:00 PM to 3:20 PM Break
3:20 PM to 5:00 PM **Contributed Sessions**, Theatre/Lecture 1/Lecture 2
5:00 PM to 7:00 PM **Business Meeting**, Lecture 1
5:00 PM to 7:00 PM **Poster Session**, Theatre Lobby
7:00 PM to 10:00 PM **Banquet**, Zodiac Gallery

Friday February 10, 2023

8:00 AM to 9:00 AM **Women in Fisheries Breakfast**, Chapel/Connections
8:30 AM to 9:30 AM **Breakfast**, Theatre Lobby
9:00 AM to 10:00 AM **Contributed Sessions**, Theatre/Lecture 1/Lecture 2
10:00 AM to 10:20 AM Break
10:20 AM to 12:00 PM **Contributed Sessions**, Theatre/Lecture 1/Lecture 2
12:00 PM to 1:00 PM **Awards and Closing Remarks**, Theatre
1:00 PM to 3:00 PM Native Fish Committee, Lecture 1
1:00 PM to 3:00 PM Outreach Committee/ I Fish NY Program, Lecture 2

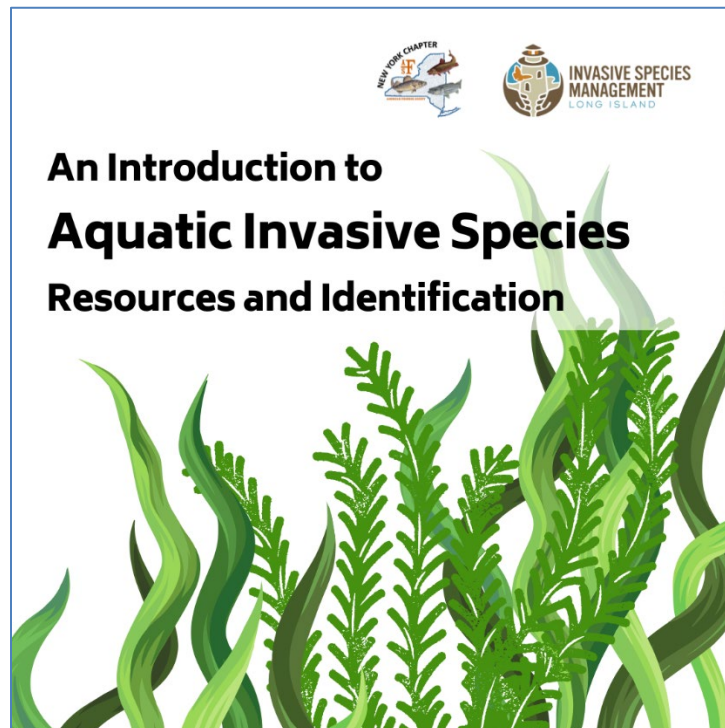
Wednesday February 8, 2023

Workshop
An Introduction to Aquatic Invasives Species Resources and Identification

Lecture 2

1:00-4:00 PM **Long Island Invasive Species Management Area**

The Long Island Invasive Species Management Area (LIISMA) team will conduct an Aquatic Invasive Species Identification Workshop. LIISMA is one of the eight Partnerships for Regional Invasive Species Management (PRISM) in New York State that can coordinate management and outreach regarding invasive species. After a brief presentation on LIISMA and the resources that your local PRISM can provide to you, we will lead a workshop in identifying aquatic invasive species in the northeastern region, their ecological and economic impacts, and ways to report them if found.



Thursday February 9, 2023

Plenary

“Then and Now”: Dynamic Fisheries in Changing NY Waters

Theatre

9:00 AM to 9:15 AM **Jim Gilmore and Mike Frisk.** Welcome

9:15 AM to 9:45 AM **Gregg Kenney.** *“Hudson River Fish: Now and Then”*

9:45 AM to 10:15 AM **Kim McKown.** *“Then and Now”, reflections on career opportunities and challenges”*

10:15 AM to 10:30 AM Break

10:30 AM to 10:45 AM **Rebecca “Jo” Johnson.** Women in Fisheries Mentoring Program

10:45 AM to 11:15 AM **Lyndie Hice-Dunton.** *“Rapidly Expanding Opportunities for Fisheries Science in US Offshore Wind”*

11:15 AM to 11:45 AM **Charlie Witek.** *One Angler's Voyage: People, Fishes, Politics, and Policy, Six Decades of Change*

11:45 AM to 12:00 PM **Joe Cassone.** President Info and Meeting Overview

Thursday February 9, 2023

Symposium: “Fisheries Management: Modeling and Methods”

Concurrent Sessions: Theatre

*Student Presentation, Presenter

1:00-1:20 PM — Doug Carlson. Fish Stories, You Tell Them

1:20-1:40 PM — *Stephanie Arsenault et al. Development of comprehensive metadata records to facilitate historical Hudson River Biological Monitoring Program data sharing and collaborative research

1:40-2:00 PM — Hsiao-Yun Chang et al. Evaluating sampling effects on survey catch rate for the Hudson River Estuary Ichthyoplankton monitoring program

2:00-2:20 PM — *Katrina Rokosz et al. Assessment of survey diel differences in estimating abundance indices for early life stages of striped bass and white perch in the Hudson River

2:20-2:40 PM — Qingqiang Ren et al. Evaluating performance of data-limited management procedures in an ecosystem perspective

2:40-3:00 PM — *Tatum Eigenberger et al. Population dynamics of weakfish in the Peconic Bay Estuary

3:00-3:20 PM — BREAK

3:20-3:40 PM — Ming Sun et al. How can we manage mixed fisheries: a global synthesis

3:40-4:00 PM — Elliot Sivel et al. Developing a multi-stanza Chance and Necessity model to explore the dynamics of winter flounder from an ecosystem perspective

4:00-4:20 PM — Alejandro Reyes. Inventory of Grass Carp Stockings In the Lower Hudson Valley

4:20-4:40 PM — Nick Sard. From Karl Broman’s 11 unique stocks to considering how to sample for rare fish

4:40-5:00 PM — Jessica Steve, et al. Long Island's Changing Commercial Fishery

Thursday February 9, 2023

Symposium: “Modern Threats to Fisheries”

Concurrent Sessions: Lecture 1

1:00-1:20 PM — *Caitlin Anetrella and Konstantine J. Rountos. Lethal and Sublethal Effects of Polyethylene Terephthalate (PET) Microplastics (MPs) on Grass Shrimp (*Palaemonetes pugio*)

1:20-1:40 PM— *Jenna DeFina and Konstantine J. Rountos. Assessment of Microplastics in the Eastern Oyster (*Crassostrea virginica*)

1:40-2:00 PM — *Christopher J. Brianik et al. Are triploid oysters more tolerant to the parasite *Perkinsus marinus* than diploids?

2:00-2:20 PM — Florian Reyda. The parasites of Oneida Lake fishes - then and now - a project update

2:20-2:40 PM — *Jessica Casey and Dan Stich. Using long-term and seasonal data to characterize nutrient balances in Duane Lake, NY

2:40-3:00 PM — Yunzhou Li et al. A global synthesis of climate vulnerability assessments on marine fisheries: methods, scales and knowledge co-production

Symposium: “Non-native Species”

3:20-3:40 PM — *Amelia McReynolds et al. Mechanisms of coexistence between native and invasive pelagic fishes in Lake Champlain: analysis of a long-term acoustic and net survey

3:40-4:00 PM — Steven Pearson. The threat of northern snakehead to New York waterbodies

4:00-4:20 PM — Scott George et al. Status of Round Goby in Eastern New York

4:20-4:40 PM — *Kelsey Alvarez del Castillo et al. Salinity tolerance of Round Goby: informing expansion potential in the Hudson River Estuary

4:40-5:00 PM — *Anna L. Haws et al. Influence of Round Gobies on VHSV Disease Ecology in the Upper St. Lawrence River

Thursday February 9, 2023

Symposium: “Acoustic Telemetry and Offshore Wind”

Concurrent Sessions: Lecture 2

1:00-1:20 PM — *Brandyn M. Lucca et al. Active acoustic surveys of fish and zooplankton in the New York Bight

1:20-1:40 PM — *Ashley Nicoll et al. Coastal movement patterns of Atlantic sturgeon within the Mid-Atlantic Bight over 12 years

1:40-2:00 PM — *Maria Manz et al. Migration dynamics and seasonal habitat use of sharks along the south shore of Long Island

2:00-2:20 PM — Farrah Leone et al. South Fork Wind Telemetry Project: Pre-construction phase

2:20-2:40 PM — Corey Eddy et al. A cost-effective alternative to recovering lost, deep-water acoustic receivers

2:40-3:00 PM — *Matt Futia et al. Where the wild things are: acoustic telemetry reveals differences in spawning behavior of hatchery and natural origin lake trout in Lake Champlain

Symposium: “Genetic Studies: Progress and Development”

3:20-3:40 PM — *Alexander Koeberle et al. Whole-lake acoustic telemetry and eDNA to evaluate native Cisco (*Coregonus artedii*) restoration in Keuka Lake

3:40-4:00 PM — James E. McKenna et al. Biodiversity and Distribution Estimates in a Tributary to the St. Lawrence River Using eDNA and Conventional Collection Methods

4:00-4:20 PM — Benjamin Marcy-Quay and J. Ellen Marsden. Assessing Lake Champlain’s recovering lake trout population using next-generation genetic tools

4:20-4:40 PM — *Christopher Allen Osborne et al. Historical and Contemporary Demographic Events Shape the Genomic Population Structure and Patterns of Genome-Wide Heterozygosity in Southeastern Populations of Lake Charr

4:40-5:00 PM — *Nathan J. C. Backenstose et al. Co-evolution of Ciscos (*Coregonus* spp.) and Lake Charr in the Great Lakes

Friday February 10, 2023

Symposium: “Sturgeon: Historic Fish in a Modern Age”

Concurrent Sessions: Theatre

9:00-9:20 AM – *Evan Ingram et al. Artificial intelligence and species distribution ensemble models inform resource interactions with offshore wind

9:20-9:40 AM – Gregory Kronisch and Dmitry Gorsky. Categorizing Behaviors of Lake Sturgeon in the Niagara River

9:40-10:00 AM – Dawn Dittman et al. Milestones of Success: Return of Lake Sturgeon to the Genesee River, NY

10:00-10:20 AM – BREAK

10:20-10:40 AM – Dewayne Fox, Amanda Simmonds et al. Just how many shortnose sturgeon are out there; a non-traditional approach to estimating sturgeon in a large river system

10:40-11:00 AM – Dan Stich et al. Reconstructing abundance indices for Atlantic Sturgeon in the Hudson River using hierarchical ecological models

11:00-11:20 AM - Jo Johnson and Dmitry Gorsky. Using Historical Lake Sturgeon Data in the Upper Niagara River to Inform Habitat Restoration Goals

Friday February 10, 2023

Symposium: “Habitat Utilization and Restoration”

Concurrent Sessions: Lecture 1

9:00-9:20 AM – Scott Schlueter and Justin Ecret. Update on American Eel Downstream Passage Efforts in the Lake Ontario/St Lawrence River System

9:20-9:40 AM – Luke Gervase. Carmans River Fish Passage

9:40-10:00 AM – Barry Volson and Joyce Novak. Diadromous Fish Habitat Restoration in the Peconic Estuary Watershed

10:00-10:20 AM – Emily Hadzopoulos. Long Island Diadromous Fish Restoration Strategy: 2023 Update

10:20-10:40 AM – *Lauren Malboeuf and Matthew Altenritter. Documenting water chemistry variation across 17 Lake Ontario tributaries to aid in fish movement studies

10:40-11:00 AM – Kellie McCartin and Peter Daniel. Incorporating Multi-Passage Counts To Estimate Alewife Populations From A Fishway Camera Survey

11:00-11:20 AM – *Xindong Pan et al. A long-term monitoring program suggests decadal-scale changes in striped bass spawning strategies in the Hudson River

11:20-11:40 AM – *Jarrold Ludwig et al. Single Spawning Event of Lake Ontario Deepwater Sculpin Supported by Histological Analysis.

11:40-12:00 AM – Alexander J Gatch et al. Seasonal habitat use and site fidelity of Cisco *Coregonus artedii* in Lake Ontario

Friday February 10, 2023

Symposium: “Trophic Ecology”

Concurrent Sessions: Lecture 2

9:00-9:20 AM – Justin Lesser et al. Exploring the trophic ecology of troutperch and their role in coupling disparate lake food webs

9:20-9:40 AM – *Nicholas Farese et al. The diet of Lake Trout from Otsego Lake, NY: stomach contents, biochemical, and isotopic tracers

9:40-10:00 AM – *Colin Clark et al. Acquisition of thiamin by wild Lake Trout eggs and free embryos reared in Lake Champlain

10:00-10:20 – BREAK

10:20-10:40 AM – *Robyn Linner and Yong Chen. Spatial Considerations in the Evaluation of Juvenile Atlantic cod (*Gadus morhua*) Habitat Suitability and Diet Composition in the Gulf of Maine

10:40-11:00 AM – *Raymond Czaja Jr et al. Taking an energetic approach to predicting habitat suitability: the interactive roles of temperature and food availability in bivalve development

Plenary Presenter Biographies

Gregg Kenney

Gregg Kenney is a supervising biologist who works for the Department of Environmental Conservation. His team manages the diadromous fish of the Hudson and Delaware Rivers. Gregg received a Bachelor's degree in Fish and Wildlife Biology from the University of Vermont and a Masters degree from SUNY New Paltz, while studying blue crabs in the Hudson River. Gregg has worked in various capacities for the DEC since he began work there in 2000. He has spent countless pre-dawn hours in a cramped hunting check station, authored a Recovery Plan for the Northern Cricket Frog, and captured and relocated troublesome rattlesnakes and bears. More relevant to today's discussion, he also pioneered sturgeon research to develop a monitoring program for juvenile Atlantic Sturgeon which continues today, developed a sampling protocol for Hudson River blue crabs, and launched the DEC's first investigations of adult Atlantic Sturgeon with sonic tags and telemetry.

Kim McKown

Kim received her B.S. degree in biology from City University of New York from Brooklyn College and her M.S. degree in Marine Environmental Science from the Marine Sciences Research Center (currently SoMAS) at Stony Brook University. Kim worked in the Division of Marine Resources, New York State Department of Environmental Conservation for over 35 years prior to her retirement in October 2022. At Marine Resources she was involved with monitoring, assessment and management of a variety of species ranging from snails to whales.

Lyndie Hice-Dunton

Lyndie Hice-Dunton is the Executive Director of the National Offshore Wind Research and Development Consortium (Consortium). The Consortium, established in 2018, is a not-for-profit public-private partnership focused on advancing offshore wind technology in the United States through high impact research projects and cost-effective and responsible development to maximize economic benefits. Prior to joining the Consortium in 2023, Lyndie served as the Executive Director of the Responsible Offshore Science Alliance (ROSA). ROSA is a partnership formed by fishermen and offshore wind leaders, in collaboration with US federal and state management experts and others to enhance scientific understanding necessary to support the coexistence of wind energy development and sustainable fisheries. Dr. Hice-Dunton is a fisheries scientist with a multidisciplinary background in marine science, environmental policy, and offshore development. Lyndie's offshore wind efforts have allowed her to work closely with state and federal regulatory agencies, researchers, offshore wind developers and fishing industry representatives to identify the best science-based approaches that improve our understanding of the effects of wind energy development on ocean ecosystems and support research and technology innovation. She holds a doctorate in Marine and Atmospheric Sciences from Stony Brook University.

Charles Witek

Charles Witek is a lifelong recreational angler, who lives on the South Shore of Long Island, New York. Although he most frequently fishes his local waters, he has fished on every coast of the United States, including Alaska and Hawaii, as well as in the Caribbean. He has served as a bluefin tuna technical advisor to the U.S. ICCAT delegation, has held a seat on the Mid-Atlantic Fishery Management Council, and has testified before the House Natural Resources Subcommittee on Water, Power and Oceans, with respect to federal fisheries law. In addition to serving on New York's Marine Resources Advisory Council, he represents New York's anglers on the Atlantic States Marine Fisheries Commission's Winter Flounder and Coastal Sharks Advisory Panels. Witek is also a freelance outdoor writer, a past President of the New York State Outdoor Writers' Association, and an attorney who provides advice on salt water fisheries conservation policy, politics, legislation and related matters.

Contributed Posters

*Student Presentation, Presenter(s)

Aaron Rice, Alex Flecker, Patrick Baker, Suresh Sethi, Maija Niemisto, Chris Bowser, Otse Attah. Soundscapes of the Hudson River Estuary: Science Collaboration for bioacoustics research, management, and education

Sarah Rubenstein, James E. McKenna, Jr., James H. Johnson. Phototaxic response of Cisco larvae

*Elijah Creedon. Effects of summer drought on native and invasive stream fish populations within Schoharie creek and two tributaries

*Jie Yin, Yiping Ren, Chongliang Zhang, Ying Xue, Binduo Xu. Potential impacts of ocean warming on the trophic control of a threatened marine ecosystem

Travis Taylor, Marc Chalupnicki, James McKenna, Jr, Jim Johnson. Diel diet of Swallowtail Shiner in Little York Lake

Jared Skrotzki, Marc A. Chalupnicki, James E. McKenna JR, Jim H. Johnson. Dace hybridization and diet comparison

Lucas Iudica, Brittney Scannell, Gregory Metzger, Bradley Peterson. Feeding off fire island: a diet summary of seasonal elasmobranchs on the South Shore of Long Island

*Emily Paribello, Amelia McReynolds, Shira Berkelhammer, J. Ellen Marsden, Jason D. Stockwell. Does length-at-age of burbot differ between two isolated and trophically dissimilar basins of Lake Champlain?

Carrienne Pershyn, Liz Metzger, Carolyn Koestner. Using environmental DNA to determine Brook Trout distribution in Ausable Basin, NY

Doug Carlson, Melissa Cohe, Heidi O'Riordan. Freshwater fishes of Long Island and NYC

*Nicholas Jordan, Andrew Gascho Landis. Comparing ecological parameters associated with riparian zones and Brook Trout presence

*Tucker Skowyra, Brian Hefferon, Andrew Gascho Landis. Microhabitat selectivity of the Yellow Lampmussel in Schoharie Creek

*Kate R. Riordan, Charles F. Cotton. A comparison of natural and man-made structures for habitat enhancement to promote Yellow Perch spawning success

Jacob Moore, Marc Chalupnicki, James E. McKenna, Jr., Dawn E. Dittman. Multi-year assessment of Walleye spawning in the Black River

Brian Weidel, Lucas LeTarte, Jo Johnson, Alex Gatch, Dimitry Gorsky, Gian Dodici, Samantha Lasalle. It's a hard rock life...or is it? Influence of substrate addition on Chaumont Bay coregonine egg deposition; Presented by Matthew Nguyen

*Michael Darling, Andrew Gascho Landis. Comparing aquatic invertebrate populations between restored and unrestored streams

*Alexander Javitz, Andrew Gascho Landis. Comparing fish communities in restored and unrestored streams

Christopher Scott, Catherine Fede, Kyle Martin, Jennifer McNamara, Jennifer Lander. NYSDEC Great South Bay Beam Trawl Survey

Zachary Schuller, Andrew Sinchuk, Caitlin Craig. Exploring species richness and evenness in Jamaica Bay over the past four decades

Jacques Rinchar, Thomas Blowers, Donald Tillitt, Brian Lantry. The Great Lakes Lake Trout Thiamine Monitoring Program: long term trends and ecological connections

Toniann D. Keiling, Hannah B. Blair, Brandyn M. Lucca, Rachel M. Carlowicz, Eleanor I. Heywood, Tyler C. Menz, Joseph D. Warren. From baby fish to large pelagics: gathering baseline data for offshore fish and zooplankton in the New York Bight

Christopher Scott, Catherine Fede, Kyle Martin, Jennifer McNamara, Jennifer Lander. NYSDEC Shark and Sturgeon Salvage Program

Samantha LaSalle, Brian Weidel, Brian O'Malley, Lucas Le Tarte, Matthew Nguyen. Are Lake Whitefish a conservation concern in Lake Ontario?

*Allegra Ervin, Michael Frisk, Robert Cerrato, Adrian Jordaan. Comparative analysis of a Bayesian Stochastic Stock Reduction model and modern stock assessment methods for predicting historic biomass

Stephen Grausgruber. An evaluation of size at stocking of hatchery reared trout

Mariah Leveille. Assessing the efficacy of a catch and release section on Chittenango Creek

Lucas Le Tarte, Marc Chalupnicki, Jim McKenna, Matt Nguyen, Samantha LaSalle, Alex Gatch, Brian C. Weidel. Sodus Bay coregonines: past, present, and future

*Rida Shah, Peter Daniel. Spawning Alewife passage through Rock Ramp Fishway at Peconic River (Long Island, NY) is efficient and exhibits multi-passage behavior

Steven Swenson, Julia Priolo. Evaluation of a bedrock falls potential to serve as barrier to fish passage

Henry Freundlich, Gelyanne Rivera. Utilizing size indices and catch rate data to evaluate the condition of Northern snakeheads in NYC

Garrett Vigrass, Russell Berdan, Edward Rolle. Spawning population of Northern snakehead found in the Bashakill Wildlife Management Area

Rich Pendleton, ElizaBeth Streifeneder, Steven Pearson, Kelsey Alvarez del Castillo. eDNA monitoring reveals patchy, but widespread distribution of Round Goby throughout upper 2/3 of the tidal Hudson River

Karin E. Limburg, Richard M. Pendleton, Kelsey L. Gustafson, Elizabeth L. Streifeneder. Provenance of Hudson-Mohawk Round Gobies determined by otolith chemistry

Hayley Brown. Monitoring the effects of walleye on salmonine populations in Skaneateles lake

*Mya Henry, Dr. Jacques Rinchar, Desmond Barber Jr., Matthew Futia, Thomas Kielbasinski, Jeremiah Blaauw, Dave Meuninck, Nicholas Legler. Assessment of thiamin deficiency in steelhead trout eggs

*Anh Nguyen, Robyn Linner, Hsiao-Yun Chang, Yong Chen. Analyzing historical Atlantic Tomcod monitoring program data to understand their changes in abundance and distribution in the Hudson River

*Ji Feng, Jiangfeng Zhu, Fan Zhang, Yanan Li, Zhe Geng. Influence of statistical deviation of historical catch on stock assessment: a case study of western Atlantic *Thunnus thynnus*

Dewayne Fox, Amanda Higgs, Shannon L. White, David Kazyak, John Madsen. Caught on camera: monitoring adult Atlantic Sturgeon breaching in the Hudson River

Shannon L. White, Amanda Higgs, Richard Pendleton, Dewayne Fox, Joel Van Eenennaam, John Madsen, David Kazyak. Has the size structure of spawning Atlantic Sturgeon in the Hudson River changed following decades of conservation measures?

*Xiangyan Yang, Yong Chen. Developing an end-to-end model to simulate the dynamics of Hudson River and New York Bight ecosystem

Kristyn C. Gessner, Sarah LaLumiere. Like mother, like daughter: is there evidence for early sexual dimorphic habitat preferences in blue crabs?

*Taline Almasian, Emma McLean, Susan Cushman. Assessing the diet of Lake Trout in Seneca Lake, NY

*Pasquale Palumbo III, Taline Almasian, Jake Leaverton, Susan Cushman. Assessing Finger Lake streams for Brook Trout reintroduction eligibility

*Brittney Scannell, Bradley Peterson. Exploring habitat use of Long Island's artificial reefs with acoustic telemetry

*Kellie McCartin, Nicholas Cormier, Amy Dries, Grace Nelson, Kyler Vander Putten. Multi-year study of salt marsh nekton composition across marshes at different stages of restoration

*Evan Ingram, Matthew Altenritter, Kylee Wilson, Michael Frisk, Kellie McCartin. Acoustic telemetry validation of Atlantic Sturgeon dorsal scute microchemistry: complementary tools to reconstruct life-history of an endangered species

*Kellie McCartin, Nell Cava, Valerie Moshier, Annalesa Flemming. Developing an urban glass eel recruitment survey: challenges and lessons learned

Scott Schlueter, Justin Ecret, Jana Lantry, Leslie Resseguie. St. Lawrence River and Eastern Lake Ontario Walleye tagging and movement study

Emma Tyrell, Jack Phillips. "In-seine" fish finds: notable encounters beach seining on the Hudson River

*Liam Spencer, Dan Stich, Charles F. Cotton. An analysis of the littoral fish communities of Brookwood Point and Rat Cove on Otsego Lake

Eileen Randall. Advancing Brook Trout spawning surveys with passive acoustic monitoring (PAM)

William Benedict, Richard Pendleton, Amanda Higgs. Age structure and emigration of juvenile Hudson River Atlantic sturgeon

Patricia Woodruff, Hsiao-Yun Chang, Stephanie Arsenault, Katrina Rokosz, Robyn Linner, Yong Chen. An introduction to historical Hudson River Biological Monitoring Program

Amanda Simmonds, Jessica Best, Dewayne Fox, Mari-Beth Delucia, Matthew Breece. Uncoiling the mysteries of American Eel (*Anguilla rostrata*) emigration in the Delaware River

Amanda Simmonds, Richard Pendleton, Dewayne Fox, John Madsen, David Kazyak, Shannon White, Patrick Sullivan, Gregg Kenney, Amanda Higgs. How many Shortnose Sturgeon (*Acipenser brevirostrum*) are in the Hudson River?

*Joshua M. Lee, Christopher J. Brianik, Allam Bassem. Investigation of seasonal cellular parameters of diploid and triploid Eastern Oysters using flow cytometry

*Katelyn Barhite, John Farrell. Comparison of DNA and bone reconstruction methods to analyze piscivorous Double-crested Cormorant diets within Lake Ontario-St Lawrence River

*Brian Hefferon, Andrew Gascho Landis, Paul H. Lord. Host fishes of the Yellow lampmussel

Matthew Breece, Dewayne Fox, David Kazyak, Matthew Balazik, Hal Brundage, Keith Dunton, Adam Fox, Mike Frisk, Christian Hager, Danielle Haulsee, Amanda Higgs, Eric Hilton, Joe Iafrates, Robin Johnson, Jason Kahn, Micah Kieffer, Michael Loeffler, Barbara Lubinski, Pat McGrath, Mike O'Brien, Ian Park, Bill Post, Eric Reyier, Tom Savoy, Dave Secor, James Sulikowski, Carter Watterson, Shannon White, Gayle Zydlewski. Making sausage with countless cooks; combining genetic and acoustic telemetry data from many collaborators to understand coastwide migration patterns of Atlantic Sturgeon

*Lukas Draugelis, Matthew Futia, Karin Limburg, Benjamin Marcy-Quay, Ellen Marsden, Jason Stockwell. Comparison of normal and giant rainbow smelt using diet composition, growth, and otolith microelemental analysis