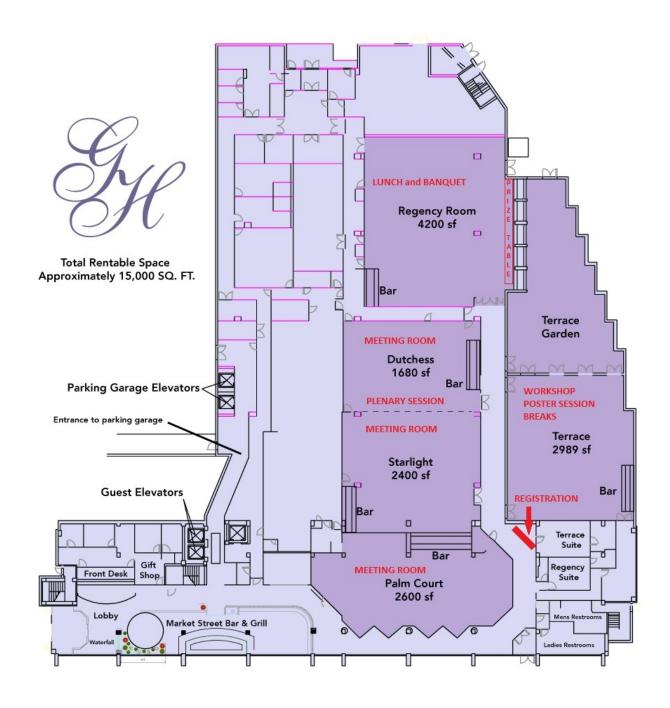
# 53<sup>RD</sup> ANNUAL MEETING OF THE NEW YORK CHAPTER AMERICAN FISHERIES SOCIETY



February 6 – 8, 2019
Poughkeepsie Grand Hotel
40 Civic Center Plaza
Poughkeepsie, NY



### Schedule by day

### **06 February 2019**

11:00am - 12:30pm Registration

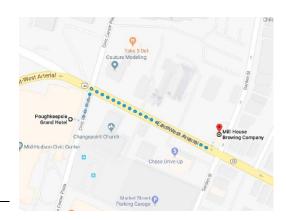
12:30pm - 7:00pm Poster set up (Terrace room)

4:30pm – 6:00pm NYCAFS Executive Committee

Meeting (Terrace room)

6:30pm - 8:30pm NYCAFS Welcome Social

Millhouse Brewing Company, 2<sup>nd</sup>&3<sup>rd</sup> floors, 289 Mill St., Poughkeepsie – see map



# **07 February 2019**

### **SCHEDULE AT A GLANCE**

7:00am – 8:00am Registration

7:00am – 8:30am Continental Breakfast (Regency)

7:00am – 6:30pm Poster set up (Terrace)

8:30am – 12:15pm Plenary Session (Starlight/Dutchess)

10:30am – 10:45am Break

12:15pm – 1:00pm Lunch (Regency)

1:00pm – 4:40pm Concurrent Sessions (Starlight, Dutchess, Palm Court)

2:20pm – 2:40pm Break

5:00pm – 6:15pm Business meeting (Palm Court)

5:30pm – 6:30pm Poster Session (Terrace)

6:30pm – 10:00pm Banquet, Awards and Raffle (Regency)

# **08 FEBRUARY 2019**

# SCHEDULE AT A GLANCE

| 7:00am – 8:00am   | Registration                                       |
|-------------------|--|
| 7:00am – 8:30am   | Continental breakfast (Regency)                    |
| 7:30am – 8:30am   | NED Business meeting (Terrace)                     |
| 8:30am – 10:10am  | Concurrent sessions (Palm Court, Regency, Terrace) |
| 10:10am – 10:30am | BREAK  |
| 10:30am – 11:50am | Concurrent sessions (Palm Court, Regency, Terrace) |
| 11:50am – 12:10pm | Student presentation awards (Regency)              |

# **07 FEBRUARY 2019**

### **PLENARY SESSION**

| 8:30am – 8:45am   | Meeting and film introductions (Karin Limburg/Riverkeeper)   |
|-------------------|--|
| 8:45am – 9:00am   | Riverkeeper film   |
| 9:00am – 9:30am   | <u>David H Secor</u> . Migration ecology of marine fisheries: Contingents for contingencies                                    |
| 9:30am – 10:00am  | <u>Janet Nye</u> . The future is now: Climate change and North Atlantic fisheries  |
| 10:00am – 10:30am | <u>Katherine E. Mills</u> . Vulnerabilities and adaptation of Northeast fishing communities in the context of fish on the move |
| 10:30am – 10:45am | BREAK  |
| 10:45am – 11:15am | John Maniscalco. Fish on the move – one manager's perspective  |
| 11:15am – 11:45am | <u>Chris Bowser</u> . The Hudson River Eel Project: Fish conservation through community engagement (and vice versa)            |
| 11:45am – 12:15pm | Panel Discussion, John Waldman, moderator  |
| 12:15pm – 1:00pm  | Lunch – Regency Room   |

# **CONCURRENT SESSIONS** (\*Student presenter)

# Shad Symposium (Palm Court)

1:00pm - 1:20pm

2:20pm – 2:40pm

| 1.50рт 1.20рт          | America's "Founding Fish"?  |
|------------------------|---|
| 1:20pm – 1:40pm        | *Gilligan, E. Incorporating anticipated climate change effects in growth models for American shad populations throughout the Atlantic Coast.                          |
| 1:40pm – 2:00pm        | Adams, et al. Hudson River American shad: A brief status update.  |
| 2:00pm – 2:20pm        | *Nack, et al. Historical and future changes in spawning phenologies of American shad and striped bass in the Hudson River Estuary.                                    |
| 2:20pm – 2:40pm        | BREAK   |
| 2:40pm – 3:00pm        | *Andrews, D. Variability in growth of alewife in six coastal rivers.  |
| 3:00pm – 3:20pm        | *Futia, et al. Can fish have too much fat? Lower thiamine concentrations in salmonines associated with the consumption of fatty alewife <i>Alosa pseudoharengus</i> . |
| 3:20pm – 3:40pm        | <u>Lambert, et al.</u> Diadromous fishes and ecosystem services: A transnational approach for a first valuation.  |
| 3:40pm – 4:00pm        | *Hodkin, C. and K. Limburg. Differential migration in blueback herring as evidenced from otolith chemical signatures.   |
| 4:00pm – 4:20pm        | *Bianchi, et al. Oocyte development of age 2 alewife in Lake Ontario.   |
|                        |   |
| Management (Starlight) |   |
| 1:00pm – 1:20pm        | <u>Jackson, et al.</u> Year-class production of black bass before and after opening of a spring catch and release season in New York: Case studies from three lakes.  |
| 1:20pm – 1:40pm        | *Marcy-Quay, et al. A comparison of three boat electrofishing effort metrics.   |
| 1:40pm – 2:00pm        | *Kasper, et al. Modifying age-based selectivity to rebuild overfished stocks and increase resilience.   |
| 2:00pm – 2:20pm        | Boenish, R. The global rise of crustaceans: Shelling out more for seafood?  |

Limburg, K. and R. Adams. Whither Shad? What has happened to

**BREAK** 

# Hudson River/Marine Symposium (Starlight)

| 2:40pm – 3:00 pm | *Smith, K. Reconnecting waters for eels and river herring: Towards resilience building approaches for dam removal action in the Hudson River watershed.          |
|------------------|--|
| 3:00pm – 3:20pm  | Pendleton, et al. Tracking the recovery: Atlantic sturgeon in the Hudson River.  |
| 3:20pm – 3:40pm  | Wildman, L. Dam removal: When less is more.  |
| 3:40pm – 4:00pm  | McKown, K. Lobsters in Southern New England and climate change.  |
| 4:00pm – 4:20pm  | <u>Van Genechten, A.</u> When your diadromous reputation precedes you: Convincing striped bass anglers and unintended consequences of a Hudson River slot limit. |
| 4:20pm – 4:40pm  | $\underline{\text{Mount, et al.}}$ The American eel: Citizen science ambassador at all life stages.  |

# Cisco in the Great Lakes (Dutchess)

| 1:00pm – 1:20pm | *Paufve, et al. Spawning habitat and reproductive strategies of Cisco in the Great Lakes.  |
|-----------------|--|
| 1:20pm – 1:40pm | *Brown, et al. Moving to a lake-wide understanding of early life-history habitat for Lake Ontario coregonines.                                     |
| 1:40pm – 2:00pm | *George, et al. Genetic diversity, stock structure, and hybridization of cisco in Lake Ontario.  |
| 2:00pm – 2:20pm | *Lachance, et al. Shedding light on an understudied environmental factor: How does light impact cisco ( <i>Coregonus artedi</i> ) eggs and larvae? |
| 2:20pm – 2:40pm | BREAK  |

# Great Lakes/Lake Champlain (Dutchess)

| 2:40pm – 3:00pm | Evans, et al. Can size spectrum modeling be used to inform ecosystem management of the Great Lakes? |
|-----------------|---|
| 3:00pm – 3:20pm | <u>Watkins, et al.</u> Pop-off satellite archival tags on Chinook salmon in Lake Ontario.           |
| 3:20pm – 3:40pm | *Wilkins, P. and E. Marsden. Growth and recruitment of lake trout juveniles in Lake Champlain.      |

| 3:40pm – 4:00pm | Markham, J. Using lake trout movement patterns to understand reproductive failure in Lake Erie.                     |
|-----------------|---|
| 4:00pm – 4:20pm | Robinson, J. Differing movement patterns of walleye spawning stocks in Lake Erie.                                   |
| 4:20pm – 4:40pm | *Conklyn, et al. Seasonal condition and VHSV prevalence in the invasive round goby in the Upper St. Lawrence River. |

### **08 FEBRUARY 2019**

# **CONCURRENT SESSIONS** (\*Student presenter)

### Shad Symposium (Palm Court)

| 8:30am – 8:50am   | Gahagan, B. and M. Bailey. Improving acoustic telemetry in alosines: American shad in the Charles River and beyond.  |
|-------------------|--|
| 8:50am – 9:10am   | *Limaye, et al. Monitoring Long Island alewife populations: Evaluating the efficacy of a new fishway at Beaver Lake in Mill Neck, NY.                                |
| 9:10am – 9:30am   | <u>Gurshin, C. and M. Balge.</u> Using sonar technologies to monitor out-migration of juvenile Clupeids: Two case studies in the Mohawk River and Connecticut River. |
| 9:30am – 9:50am   | * <u>Littrell, et al.</u> River restoration project mediates secondary contact between anadromous and landlocked alewife.  |
| 9:50am – 10:10am  | <u>Eakin, et al.</u> River herring abundance and parameters influencing migration patterns in Black Creek, a small tributary of the Hudson River.                    |
| 10:10am – 10:30am | BREAK  |
| 10:30am – 10:50am | Savoy, T. "Ecological Trap" consequences of fish restoration: A case history of American shad in the Connecticut River.  |
| 10:50am – 11:10am | <u>Daverat, et al.</u> Shadeau research project: From applied to academic research for the recovery of Allis shad and Twaite shad.                                   |
| 11:10am – 11:30am | Stich, D. and E.Gilligan. Moving toward a unified approach to informing American shad dam passage performance standards.   |
| 11:30am – 11:50am | <u>Constantine, et al.</u> Dam removals and the return of East Coast shads and other native species.   |
|                   |  |

### Recovery & Resilience in Response to Major Environmental Change (Regency)

8:30am – 8:50am \*Coney et al. The reintroduction of the American eel to the NY portion of the Upper Susquehanna.

| 8:50am – 9:10am     | *Goretzke, J. and J. Farrell. Development of native fish and aquatic macrophyte assemblages in excavated coastal wetlands of the Upper St. Lawrence River.               |
|---------------------|--|
| 9:10am – 9:30am     | *Kronisch, G. and N. Ringler. Evaluation of fish assemblage response to the remediation of an urban lake.  |
| 9:30am – 9:50am     | *Caves, S. Grass carp Ctenopharyngodon Idella growth before and after hydrilla Hydrilla verticillata control.  |
| 9:50am – 10:10am    | *Block, et al. The importance of winter foraging by thermally-dissimilar fish species.   |
| 10:10am – 10:30am   | BREAK  |
| 10:30am – 10:50am   | Gorman, L. The first 2 years of the Lower Grasse River freshwater mussel relocation project.   |
| 10:50am – 11:10am   | <u>Siegfried, S.</u> Aquatic organism passage benefits resulting from culvert replacement projects at Fort Drum.   |
| 11:10am – 11:30am   | <u>Josephson et al.</u> Chemical and biological recovery of Adirondack Mountain region lakes from acid deposition: A conservation success story.                         |
| 11:30am – 11:50am   | Infections & Invasions (Terrace)   |
| 8:30am – 8:50am     | Getchell et al. Co-infections in Oneida Lake smallmouths and Sodus Bay sunfish.  |
| 8:50am – 9:10am     | Reyda, F. Fish parasites as indicators of host biology: Insights from a fish parasite survey in New York.  |
| 9:10am – 9:30am     | *Mullin, B. A survey of Salmonid infection with the copepod Salminicola californiensis in Lake Ontario.  |
| 9:30am – 9:50am     | George, S. and B. Baldigo. Efficacy of Environmental DNA and traditional sampling methods to monitor the expansion of round goby in the Mohawk River-Barge Canal System. |
| 9:50am – 10:10am    | Cushman, S. and N. Michels. Foraging ecology of round goby: Impacts on native and non-native prey choices.   |
| 10:10am – 10:30am   | BREAK  |
| Genetics (Dutchess) |  |
| 10:30am – 10:50am   | <u>Therkildsen, et al.</u> Whole genome sequencing provides new insights into adaptive divergence in Atlantic cod.   |
| 10:50am – 11:10am   | Roman et al. Contrasted patterns of divergence and gene flow among five fish species in a Mongolian rift lake following glaciation.                                      |

| 11:10am – 11:30am | <u>Sethi et al.</u> Estimating the number of contributors to DNA mixtures provides a novel tool for ecology.                                      |
|-------------------|---|
| 11:30am – 11:50am | <u>Sard, N.</u> Environmental DNA metabarcoding sampling methods are effective at detecting low abundance species in complex aquatic communities. |

### **Plenary Presenter Biographies**

### David H. Secor

Dr. Secor is a fisheries ecologist and Regents Professor at University of Maryland Center for Environmental Science, Chesapeake Biological Laboratory, where he began as a PostDoc in 1991. He was graduated by Macalester College (BA, 1983) and conducted dissertation research (PhD, 1990) at the Baruch Institute, University of South Carolina and at Kagoshima University, Japan. His research group has pioneered applications using otolith tracers and acoustic telemetry to reconstruct migrations in estuarine and coastal fishes. Much of this work during the past 25 has been focused in the Hudson River and NY Harbor. A primary interest is how diversity in life history and migration contribute to resilience in exploited species and species of concern. He has provided a comprehensive review of this topic in his book entitled <u>Migration Ecology of Marine Fishes</u> published in 2015 by The Johns Hopkins University Press. Dave teaches graduate courses in fisheries science and management and fish ecology, and advises the Chesapeake Bay Program and other state, federal, and international agencies on fisheries stock assessment, climate impacts, species of concern, and ecosystem-based fisheries management.

### Janet Nye

Dr. Nye is an Associate Professor at Stony Brook University School of Marine and Atmospheric Science. She is a quantitative fisheries ecologist interested in the effects of climate variability and climate change, including ocean acidification, on marine fishes and ecosystems. Her research has focused on how changes in the physical environment scale from individual physiological effects to populations and ecosystems. She is an expert in ecosystem-based fisheries management and teaches courses in Fish Ecology, Biological Oceanography and Scientific Decision Support.

### Katherine E. Mills

Dr. Katherine Mills is a research scientist at the Gulf of Maine Research Institute in Portland, Maine. She earned her Ph.D. in Natural Resources at Cornell University. As a quantitative fisheries ecologist, Kathy studies (1) how physical and ecosystem conditions are changing; (2) how these changes affect fish populations, biological communities, and marine fisheries; and (3) how fisheries and fishing communities can effectively respond. Much of her work is interdisciplinary, seeking to understand and inform management of fisheries as coupled social-ecological systems. This research integrates climate, ecological, social and economic information to link changes in the ecosystem to societal outcomes. Climate adaptation within marine fisheries has become a major recent focus, with emphases on assessing climate adaptation strategies and providing new forms of information to support adaptation planning by fishery participants, fishing communities and fishery managers.

### John Maniscalco

John Maniscalco is the Bureau Chief of Marine Fisheries for the New York State Department of Environmental Conservation's Division of Marine Resources. After receiving his M.S. from Stony Brook University's School of Marine and Atmospheric Science, he began working for New York State in 2006 as a biologist monitoring horseshoe crab and American lobster. Prior to graduate

school, he had been a fish-geek maintaining tanks at the New York Aquarium. John Maniscalco is an active participant in the interstate fisheries management process, and currently sits on several technically-oriented species committees including summer flounder, scup and black sea bass.

### Chris Bowser

Chris Bowser is the education coordinator at the NYSDEC Hudson River National Estuarine Research Reserve and Hudson River Estuary Program, in partnership with the Water Resource Institute at Cornell University. He has also taught environmental science at Marist and Bard Colleges, explored the Hudson aboard the Sloop Clearwater, and planted trees in the Sahara Desert with the US Peace Corps.

### 2019 Klumb-Spindler Award Recipients

Benjamin Block, *The importance of winter foraging by thermally-dissimilar fish species*, University of Vermont

Thomas Bianchi, Oocyte development of Age-2 Alewife in Lake Ontario, SUNY Brockport

Cara Ewell Hodkin, Differential migration in blueback herring as evidenced from otolith chemical signatures, SUNY ESF

Colleen Schmid, Analyzing the Change in Juvenile Eel Catch and Weight Throughout the Migration Season, Ossining High School



"Fish on the Move" logo design: Matthew Paufve

### **Contributed Posters** (\*student posters)

<u>Bishop</u>, <u>D</u>. Annual trends in YOY abundance for two Hudson River catfish.

<u>Breece, M., A. Higgs and D. Fox.</u> Environmental drivers of broad-scale adult Atlantic sturgeon behavior in the Hudson River.

Carlson, D. Late-spawning suckers of the eastern and western Adirondacks.

\*Cooper, R.A., O.F. Vosburg, M.R. Willett and T.E. Yorks. Walleye and tiger muskellunge stocking in Jamesville Reservoir and its fish community.

Craig, C. Western Long Island striped bass seine survey.

Craig, C. and Z. Schuller. Long Island juvenile American eel survey.

<u>Dittman, D. and Chalupnicki, M.</u> Status and seasonal habitat use by lake sturgeon in the Seneca River. New York.

<u>Driscoll, C., J. Brewer, M. Todd, R. Roth, Jr. and J. Zanett.</u> Assessing adult muskellunge movements in Buffalo Harbor, Lake Erie, and the Niagara River.

\*Duskey, E., A. Higgs and P. Sullivan. Modeling diadromous movement of Hudson River spawning Atlantic sturgeon.

\*Fitzpatrick, K.B., T.O. Brenden, S.R. LaPan, L.G. Rudstam, P.J. Sullivan, B.C. Weidel and S.A. Sethi. Modeling Chinook salmon population dynamics in Lake Ontario.

\*Goretzke, J., J. Farrell and M. Windle. Range expansion of the western tubenose goby in the Upper St. Lawrence River.

\*Kern, B.R., O.S. Hoy, A.L. Rose and T.E. Yorks. Cazenovia Lake's fish community and short-term results of three years of walleye stocking.

Kinney, P., L. Resseguie and T. Kielbasinski. Experimental grading of Washington steelhead.

\*Konrad, C. Lake sturgeon and round goby prey consumption and availability in the northern end of Cayuga Lake and the Cayuga/Seneca Canal.

<u>Lepak, J.</u> Understanding angler response to barotrauma in Lake Erie yellow perch.

Limburg, K. 29 years on, your PhD shad otoliths may still surprise you.

\*Lloyd, C., C. Evans, R. DeBruyne, A. Briggs, J. Hessenauer, T. Wills and E. Roseman. Distribution and abundance of larval yellow perch in Lake St. Clair and adjoining waters.

Mabey, A., S. Mount and C. Bowser. What eels teach us about people: Evaluating a citizen science project.

\*Matt, M. Zooplankton community shifts in Lake Ronkonkoma.

Marshall, C., P. Hudson, J. Watkins, L. Rudstam, T. Brooking and R. Jackson. Parasitic crustacean survey of Oneida Lake.

\*Moss, S. Nesting of diamondback terrapins (*Malaclemys terrapin*) at three locations in coastal New Jersey.

O'Malley, B., R. Chapina and J. Stockwell. A remote video camera system to observe behavior, abundance, and predator-prey interactions of deepwater organisms.

\*Pakzad, I., J.M.Farrell and R.Razavi. Mercury bioaccumulation and diet overlap of two invasive goby species in the St. Lawrence River.

\*Paumier, A., H.Drouineau and P. Lambert. Assessing the environmental control on fish life cycle: case of temperature, discharge and photoperiod control on shad reproduction.

\*Petrou, N.A., T.A.Bauer, H.N.O'Riordan and K.C. Jones. Fluctuations in drought levels that effected banded sunfish populations in the Peconic River Drainage.

\*Petrou, N.A., A.R.Holsopple, M.K. Mulvihill, M. Best and A.G. Landis. Characterization of spawning rainbow smelt in relation to water temperature on Otsego Lake, NY.

<u>Pokorny, T. and D. Pierce.</u> Joint fisheries investigation plan for the Delaware Tailwaters, 2018-2020.

<u>Rinchard, J., M. Beers, T. Bianchi and M. Futia.</u> Comparison of prey fish fatty acid signatures among the Finger Lakes.

Rinchard, J., J. Noonan, M. Futia, M. Sanderson, S. Prindle, M. Todd, C. Lake and M. Yuille. Lake-wide comparison of Chinook salmon condition after pen-rearing in Lake Ontario.

Ross, A., B. Weidel and C. Solomon. Against the current: stream-run behavior in Cisco (*Coregonus artedi*).

\*Schmid, C. and M. Ippoliti. Analyzing the change in glass eel count and weight throughout the glass eel season.

\*Sinopoli, D. and D. Stewart. A synthesis of management regulations and attitudes towards bowfins, and conservation implications of a developing caviar fishery.

<u>Swenson</u>, <u>S</u>. Utilizing pass thru and pass over radio frequency identification HDX single antenna systems to evaluate the passability of a culvert pre and post baffle installation.

<u>Turek, J., G. Fricano and B. Kulik.</u> Scaling riverine ecological restoration services from dam removals.

<u>Van Genechten, A.</u> Reaching and educating Hudson River fish consumers about PCB contamination in fish.

Weidel, B., J. Hoyle, M. Connerton, J. Holden and M. Vinson. Long-term surveys inform Lake Ontario coregonine dynamics.

\*Winterhalter, D. and A.G. Landis. Potential effects of culvert water velocity on upstream movements of brook trout.

Zacharias, J., C. Ziegler, K. McKown, R. Cerrato and M. Frisk. One fish, two fish, red fish, blue fish: Nearshore ocean trawl survey.

# Thursday, February 7th – Abbreviated overview of concurrent sessions (\*Student presenter)

| ROOM:       | PALM COURT  | STARLIGHT   | DUTCHESS   |
|-------------|---|---|--|
| TIME        | SHAD SYMPOSIUM  | MANAGEMENT  | GREAT LAKES CISCO  |
| 1:00-1:20pm | Limburg, K. & R. Adams. Whither shad? What has bannened to  | Jackson, et al. Year-class prod of black bass hefore & after opening of spring C&R season             | *Paufve, et al. Spawning habitat and reproductive strategies of cisco in the Great Lakes                               |
|             | America's "Founding Fish"?  | in NY: Case studies from three lakes.   | Si S   |
| 1:20-1:40pm | *Gilligan, E. Incorporating climate change effects in growth models for Am. shad throughout the At. Coast.                                      | *Marcy-Quay, et al. A comparison of three boat electrofishing effort metrics.                         | *Brown, et al. Moving to a lake-wide understanding of early life-history habitat for Lake Ontario coregonines.         |
| 1:40-2:00pm | Adams, et al. Hudson River<br>American shad: A brief status update.   | *Kasper, et al. Modifying age-based selectivity to rebuild overfished stocks and increase resilience. | *George, et al. Genetic diversity, stock structure, and hybridization of cisco in Lake Ontario.                        |
| 2:00-2:20pm | *Nack, et al. Historical and future changes in spawning phenologies of Am. shad and striped bass in the HRE.                                    | Boenish, R. The global rise of crustaceans:<br>Shelling out more for seafood?                         | *Lachance, et al. Shedding light on an understudied environmental factor: How does light impact cisco eggs and larvae? |
| 2:20-2:40pm | BREAK   | BREAK   | BREAK  |
|             | SHAD SYMPOSIUM  | <b>HUDSON RIVER/MARINE SYMPOSIUM</b>  | GREAT LAKES/LAKE CHAMPLAIN   |
| 2:40-3:00pm | *Andrews, D. Variability in growth of alewife in six coastal rivers.  | *Smith, K. Reconnecting waters for eels and river herring: dam removal action in HR watershed         | Evans, et al. Can size spectrum modeling be used to inform ecosystem management of the Great Lakes?                    |
| 3:00-3:20pm | *Futia, et al. Can fish have too much fat? Lower thiamine conc in salmonines assoc with consumption of fatty alewife <i>A. pseudoharengus</i> . | Pendleton, et al. Tracking the recovery: Atlantic Sturgeon in the Hudson River.                       | Watkins, et al. Pop-off satellite archival tags on Chinook salmon in Lake Ontario.                                     |
| 3:20-3:40pm | Lambert, et al. Diadromous fishes and ecosystem services: A transnational approach  | Wildman, L. Dam removal: When less is more.   | *Wilkins, P. and E. Marsden. Growth and recruitment of lake trout juveniles in Lake Champlain.                         |
| 3:40-4:00pm | *Hodkin, C. and K.Limburg. Diff.<br>migration in blueback herring as evid<br>from otolith chemical signatures.                                  | McKown, K. Lobsters in Southern New England and climate change.                                       | Markham, J. Using lake trout movement patterns to understand reproductive failure in Lake Erie.                        |
| 4:00-4:20pm | *Bianchi, et al. Oocyte development of age 2 alewife in Lake Ontario  | Van Genechten, A.: Convincing striped.bass anglers/unintended consequences of slot limit              | Robinson, J. Differing movement patterns of walleye spawning stocks in Lake Erie.                                      |
| 4:20-4:40pm |   | Mount, et al. American eel: Citizen science ambassador at all life stages.                            | *Conklyn, et al. Seasonal condition/VHSV in round goby in Upper St. Lawrence River.                                    |

Friday, February 8th - Abbreviated overview of concurrent sessions (\*Student presenter)

| communities.  |  |  |               |
|---|--|--|---------------|
| Sard, N. Environmental DNA metabarcoding sampling methods are effective at detecting low abundance species in complex aquatic |  | Constantine, et al. Dam removals and the return of East Coast shads and other native species | 11:30-11:50am |
|   | success story.                                 | silad dalli passage peri stalidards  |               |
| to DNA mixtures provides a novel tool for ecology.  | recovery of Adirondack Mountain region         | a unified approach to informing Am   |               |
| Sethi, et al. Estimating the number of contributors   | Josephson, et al. Chemical and biological      | Stich, D. & E. Gilligan. Moving toward   | 11:10-11:30am |
| Mongolian rift lake following glaciation.   | projects at Ft. Drum                           | Allis and Twaite shad recovery   |               |
| and gene flow among five fish species in a  | benefits resulting from culvert replacement    | project: From applied to acad res. for   |               |
| Roman, et al. Contrasted patterns of divergence   | Siegfried, S. Aquatic organism passage         | Daverat, et al. Shadeau research   | 10:50-11:10am |
| Atlantic cod.   | project  | case history of Am shad in Ct. River   |               |
| provides new insights into adaptive divergence in   | Grasse River freshwater mussel relocation      | consequences of fish restoration: A  |               |
| Therkildsen, et al. Whole genome sequencing   | Gorman, L. The first 2 years of the Lower      | Savoy, T. "Ecological Trap"  | 10:30-10:50am |
| GENETICS  | RESPONSES TO MAJOR ENV CHANGE                  | SHAD SYMPOSIUM   |               |
| BREAK   | BREAK  | BREAK  | 10:10-10:30am |
| choices.  |  | patterns in Black Creek, HR tributary  |               |
| round goby: Impacts on native & non-native prey   | foraging by thermally-dissimilar fish species. | and parameters influencing migration   |               |
| Cushman, S. & N. Michels. Foraging ecology of   | *Block, et al. The importance of winter        | Eakin, et al. River herring abundance  | 9:50-10:10am  |
| System  |  | מו ממו טוו טמט מ ומו מוטכאסט מופאווס   |               |
| goby expansion in the Mohawk River-Barge Canal  | alter Hydrilla control                         | mediates secondary contact between   |               |
| George, S. and B. Baldigo. Efficacy of eUNA &   | Caves, S. Grass carp growth before and         | *Littrell, et al. River restoration project  | 9:30-9:50am   |
|   |  | 7.180  | 0             |
|   |  | River & Collection   |               |
| Ontario.  | an urban lake.                                 | of juvenile Clupeids: 2 case studies in  |               |
| copepod Salminicola californiensis in Lake  | assemblage response to the remediation of      | technologies to monitor out-migration  |               |
| *Mullin, B. A survey of Salmonid infection with the   | *Kronisch, G. & N. Ringler. Evaluation of fish | Gurshin, C. & M. Balge. Using sonar  | 9:10-9:30am   |
|   | of the Upper St. Lawrence River.               | NY   |               |
| York  | assemblages in excavated coastal wetlands      | populations: Evaluating a new  |               |
| Reyda, F. Fish parasites as indicators of host  | *Goretzke, J. & J. Farrell. Development of     | *Limaye, et al. Monitoring LI alewife  | 8:50-9:10am   |
|   |  | Charles River & beyond   |               |
|   | Susquehanna.                                   | alosines: American shad in the   |               |
| smallmouths and Sodus Bay sunfish   | American eel to the NY portion of the Upper    | Improving acoustic telemetry in  |               |
| Getchell, et al. Co-infections in Oneida Lake   | *Coney, et al. The reintroduction of the       | Gahagan, B. and M. Bailey.   | 8:30-8:50am   |
| INFECTIONS & INVASIONS  | RESPONSES TO MAJOR ENV CHANGE                  | SHAD SYMPOSIUM   | TIME          |
| TERRACE   | REGENCY  | PALM COURT   | ROOM:         |

### Special thanks to this year's raffle contributors:

Kurt Jirka

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Thad Yorks

Sarah Mount/Chris Bowser

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Susan Cushman

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Jesse Lepak

Cara Ewell Hodkin

Dawn Dittman

The Millhouse Brewing Company

Jones Jerky Joint

Leslie Resseguie

Justin Herne

Thanks for attending this year's meeting!

