

**52<sup>nd</sup> ANNUAL MEETING OF THE NEW YORK  
CHAPTER AMERICAN FISHERIES SOCIETY**



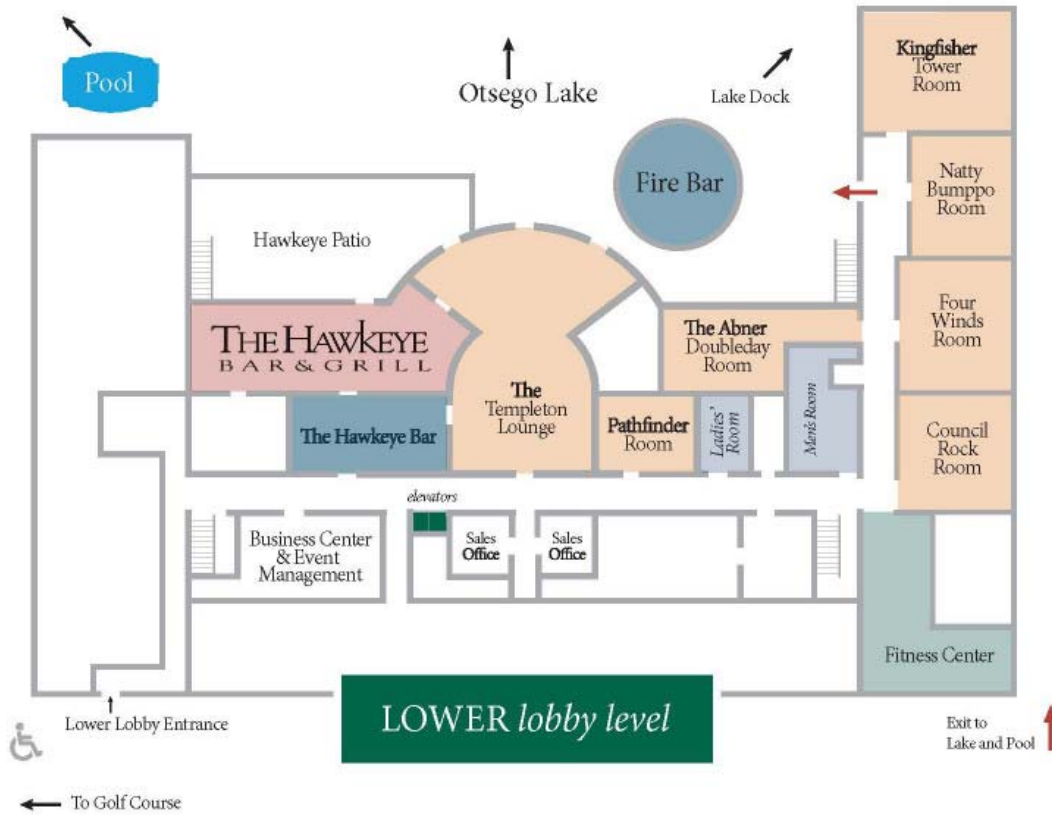
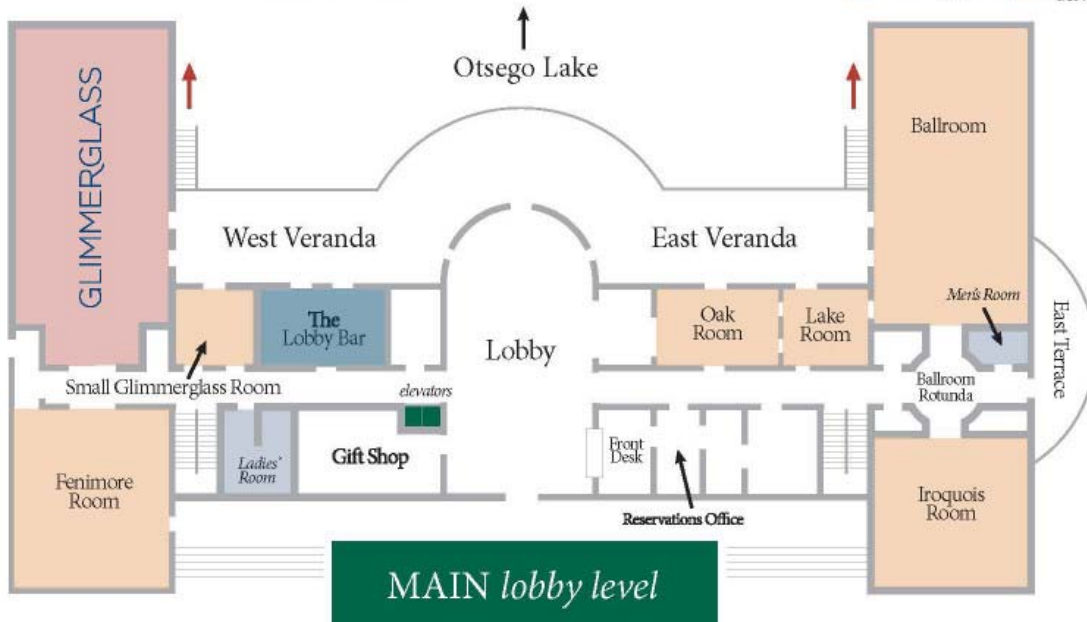
**07 – 09 February 2018**

Otesaga Resort Hotel

Cooperstown, NY

# the OTESAGA Event Spaces

- Key:
- Restrooms
  - Dining
  - Fitness Center
  - Meeting Space
  - Beverage Services



## *Schedule by day*

### **07 February 2018**

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11:00AM-12:30PM	Registration ( <b>Oak Room</b> )
12:30PM-7:00PM	Poster set up ( <b>Fenimore</b> )
12:30PM-4:30PM	Alan Alda Center for Communicating Science Workshop ( <b>Ballroom</b> )
2:30PM-2:45PM	Break ( <b>Ballroom Rotunda</b> )
4:30PM-6:00PM	NYCAFS Executive Committee Meeting ( <b>Kingfisher Tower</b> )
6:00PM-7:00PM	Registration ( <b>Oak Room</b> )
7:00PM-9:00PM	NYCAFS Welcome Social ( <b>Fenimore</b> )
9:00PM-12:00AM	Fire bar and late night social ( <b>Kingfisher Tower</b> )

### **08 February 2018**

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#### **SCHEDULE AT A GLANCE**

7:00AM-8:00AM	Registration ( <b>Oak Room</b> )
7:00AM-8:30AM	Continental Breakfast ( <b>Glimmerglass</b> )
7:00AM-6:30PM	Poster set up ( <b>Fenimore</b> )
8:30AM-11:30AM	Plenary Session ( <b>Ballroom</b> )
10:15AM-10:30AM	Break ( <b>Ballroom Rotunda</b> )
11:30AM-1:00PM	Lunch ( <b>Glimmerglass</b> )
1:00PM-4:00PM	Concurrent Sessions ( <b>Ballroom, Iroquois, and Kingfisher Tower</b> )
2:40PM-3:00PM	Break ( <b>Ballroom Rotunda</b> )
4:00PM-5:00PM	Business Meeting ( <b>Ballroom</b> )
5:00PM-6:30PM	Poster Session ( <b>Fenimore</b> )
6:30PM-10:00PM	Banquet, Awards, and Raffle ( <b>Glimmerglass</b> )
9:00PM-12:00AM	Fire bar and late night social ( <b>Kingfisher Tower</b> )

## PLENARY SESSION

- 8:30AM-8:45AM Meeting introduction (Mark Cornwell)
- 8:45AM-9:30AM Brian Weidel. Who's driving this ship? Alewife and the changing Lake Ontario food web.
- 9:30AM-10:15AM Adrian Jordaan. River herring population dynamics in coastal ecosystems: movement from one black box to the other.
- 10:30AM-11:00AM John Waldman. Toward reconciling energy production and diadromous fish migrations on Atlantic rivers.
- 11:00AM-11:30AM Tony David. Historic High Lake Ontario-St. Lawrence River Levels: Maximizing Outflows in a Record Year.

## CONCURRENT SESSIONS (\*Student presenter)

*Trophic changes in Otsego Lake, NY Following introduction, expansion, and collapse of invasive alewife (Ballroom)*

- 1:00PM-1:20PM Waterfield, H. Otsego Lake 30 years post-alewife (*Alosa pseudoharengus*) introduction: a recent history of a managed food web.
- 1:20PM-1:40PM \*Murch, C., and D. Stich. Density-dependent changes in Alewife growth.
- 1:40PM-2:00PM Albright, M. Changes in trophic conditions in Otsego Lake, NY as influenced by changes in the plankton community, as influenced by changes in the fishery...
- 2:00PM-2:20PM Cornwell, M. The re-introduction of walleye to Otsego Lake.
- 2:20PM-2:40PM \*Carey, S., et al. The Feasibility of Restoring Lake Whitefish as an Integral Component of the Cold-water Fish Community in Otsego Lake, NY.

*Who is eating WHAT and for HOW MUCH? (Ballroom)*

- 3:00PM-3:20PM Evans, T. M., and B. C. Weidel. Lake Ontario Deepwater Sculpin diet identification using gut content and stable isotopes: Are all *Mysis* equal?

- 3:20PM-3:40PM Richter, W., and J. Becker. Stain- and flame-resistant fish? Perfluorinated Substances (PFAS) in fish from contaminated sites.
- 3:40PM-4:00PM Raab, D. J., et al. Economic feasibility and marketing of boneless bighead and silver carp meat on a small scale .

### *Predator-prey dynamics (Iroquois)*

- 1:00PM-1:20PM \*Marcy-Quay, B. Community response to Smallmouth Bass removal – long term review.
- 1:20PM-1:40PM Jirka, K. J., et al. Changes in diets of two top predators in response to a long-term Smallmouth bass removal program.
- 1:40PM-2:00PM \*Futia, M., et al. Long-term assessment of lipid content and fatty acid signatures of Lake Ontario prey fishes.
- 2:00PM-2:20PM Rinchard, J., et al. Thiamine deficiency complex in salmonines from New York State.
- 2:20PM-2:40PM Markham, J. L. Round Goby: Friend or foe in the Lake Erie food web?
- 3:00PM-3:20PM Markley, N., et al. Setting the table for predators: Cisco *Coregonus artedii* culture at the Northeast Fishery Center.
- 3:20PM-3:40PM \*Hulbert, J., and D. Stich. Trophic interactions between Alewife, Walleye, and Yellow Perch.
- 3:40PM-4:00PM Cochran, J., et al. What's going on with the Emerald Shiner? A look at a native species through the lens of an invasive species early detection program.

### *Resource use and habitat selection (Kingfisher Tower)*

- 1:00PM-1:20PM Sethi, S., et al. The role of invasive Round Goby in the Great Lakes basin: habitat use and standing stock biomass in a recently invaded, deep inland lake.
- 1:20PM-1:40PM Dittman, D., et al. Habitat selection by reintroduced Lake Sturgeon in a Cayuga Lake tributary.

1:40PM-2:00PM	<u>Jackson, R., et al.</u> Movement patterns and home range fidelity of Bowfin in Oneida Lake, New York.
2:00PM-2:20PM	<u>Karboski, C., et al.</u> Cisco Movement and Spawning Behavior in Eastern Lake Ontario.
2:20PM-2:40PM	* <u>George, E., et al.</u> Discovery of Cisco Spawning Locations in Eastern Lake Ontario.
3:00PM-3:20PM	* <u>Paufve, M., et al.</u> Characterizing the spawning and incubation habitat of Cisco <i>Coregonus artedi</i> in the Great Lakes.
3:20PM-3:40PM	* <u>Duskey, E., A. Higgs, and P. Sullivan.</u> Analyzing dynamic movement processes of Hudson River spawning Atlantic sturgeon using multiple analytical perspectives.
3:40PM-4:00PM	<u>Watkins, J., et al.</u> Tracking diel foraging behavior of Chinook Salmon in Lake Ontario using pop-off archival tags.

## 09 February 2018

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### SCHEDULE AT A GLANCE

7:00AM-8:00AM	Registration ( <b>Oak Room</b> )
7:00AM-8:30AM	Continental Breakfast ( <b>Glimmerglass</b> )
8:30AM-11:40AM	Concurrent Sessions ( <b>Ballroom</b> )
10:00AM-10:20AM	Break ( <b>Ballroom Rotunda</b> )
11:45AM-12:00PM	Student Presentation Awards ( <b>Ballroom</b> )
12:30PM	Ice fishing ( <b>Otsego Lake</b> )

## CONCURRENT SESSIONS (\*Student presenter)

### *Molecular applications (Ballroom)*

- 8:30AM-8:50AM     \*Pershyn, C. E., N. H. Ringler, and M. H. Murphy. Population genetics and diversity of Brook Trout *Salvelinus fontinalis* in the headwaters of the Ausable River, New York.
- 8:50AM-9:20AM     Bartron, M., et al. Genetic assessment of Western New York Brook Trout *Salvelinus fontinalis*.
- 9:20AM-9:40AM     Overgaard Therkildsen, N. Genomic underpinnings of fisheries-induced evolution.
- 9:40AM-10:00AM    Rees, C., et al. Comparison of electrofishing and environmental DNA detection methodologies in Great Lakes tributaries.
- 10:20AM-10:40AM   George, S. D., et al. Efficacy of Environmental DNA and traditional sampling methods to monitor the expansion of Round Goby in the Mohawk River-Barge Canal system.
- 10:40AM-11:00AM   Getchell, R. G. et al. Initial phylogenetics of 2017 Cayuga Lake viral hemorrhagic septicemia virus (VHSV) outbreak.
- 11:00AM-11:20AM   Evans, T. M., and A. M. Weber. Using Stable isotopes to identify the nutritional sources supporting American Brook Lamprey *Lethenteron appendix* along a stream gradient.

### *Community and Habitat Restoration (Iroquois)*

- 8:30AM-8:50AM     \*Goretzke, J. A., and J. M. Farrell. Aquatic plant community response to restoration of Muskellunge nursery habitat in the Upper St. Lawrence River.
- 8:50AM-9:20AM     \*Franzem, T. P., and P. H. Lord. American Eel stocking in the Upper Susquehanna.
- 9:20AM-9:40AM     \*Hummel, D. L., and N. H. Ringler. The attraction of Largemouth Bass *Micropterus salmoides* to newly implemented and existing habitat structure in a recovering urban lake, Syracuse, New York.

- 9:40AM-10:00AM LeBlanc, J. P., et al. Walleye early-life as an important component of management: habitat restoration, protection, and evaluation in eastern Lake Ontario.
- 10:20AM-10:40AM Hornstein, E., et al. Restoring Alewife habitat in the Peconic River.
- 10:40AM-11:00AM Dodici, G. Wood is good! How reintroducing wood can increase stream function.
- 11:00AM-11:20AM Gosier, C. NYSDEC's freshwater mussel caging project on the Lower Grasse River.
- 11:20AM-11:40AM McKenna, Jr., J., et al. Response to lotic flow changes: Brook Trout.

### *Fisheries Management (Kingfisher Tower)*

- 8:30AM-8:50AM \*Elliott, R., and D. Stich. A citizen-based approach to supplementing state fishery data.
- 8:50AM-9:20AM Sethi, S., et al. Rapid response for invasive waterweeds in temperate lakes: assessment of collateral impacts from herbicide treatment.
- 9:20AM-9:40AM Higgs, A., et al. Estimating the precision and accuracy of high resolution side-scan sonar length estimates of overwintering adult Shortnose Sturgeon.
- 9:40AM-10:00AM Robinson, J. and D. W. Einhouse. Effectiveness of daily bag limit regulations for controlling percid harvest in Lake Erie.
- 10:20AM-10:40AM Lepak, J., et al. Lake Ontario Cooperative Science and Monitoring Initiative.
- 10:40AM-11:00AM Kenney, G., and W. Eakin. Anadromous River herring in the Hudson River: status, research and management.
- 11:00AM-11:20AM Scholten, G., et al. Dead or alive: estimating catch-and-release mortality of Spotted Seatrout *Cynoscion nebulosus* in the Gulf of Mexico.
- 11:20AM-11:40AM Pennuto, C., and K. Mehler. A case of missing adults and the size distribution of seasonally migrating round goby in Lake Ontario.



## CONTRIBUTED POSTERS (\*Student presenters)

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- \*Abbott, K. M., J. M. Farrell, R. Getchell, and C. Whipps. Restoration of native Muskellunge in the upper St. Lawrence River in the face of viral hemorrhagic septicemia virus and Round Goby invasions.
- \*Andrews, D., and D. Stich. Where do the Walleye go? Analyzing fry stocking success in Butterfield Lake, NY.
- Arams, J., McKenna Jr., and A. David. Changes in fish assemblages after the removal of the Hogansburg Dam on the lower St. Regis River, NY.
- \*Bianchi, T., B. Wiedel, M. Connerton, M. Futia, and J. Rinchar. Examining reproductive potential of Alewife *Alosa pseudoharengus* in Lake Ontario.
- Benedetto, F., and M. DiSarno. Eastern Brook Trout Joint Venture surveys in NYSDEC Region 3: 2016-2017.
- Best, M., J. Best, W. Eakin, and A. Higgs. Effects of acoustic tag implantation on the spawning behaviors and migration of Striped Bass *Morone saxatilis* in the Hudson River.
- Bowyer, W., S. Garcia, N. Nguyen, P. Murphy, and S. Cushman. Histological analysis for evidence of endocrine disruption in Blacknose Dace *Rhinichthys atratulus* in the Seneca Lake watershed.
- Brewer, J. M. Todd, C. Driscoll, R. Roth Jr., and J. Zanett. A Muskellunge telemetry study in the Buffalo Harbor and Upper Niagara River.
- Brown, E. N., and J. A. Hoyle. Migration and spatial ecology of Bay of Quinte-eastern Lake Ontario Walleye.
- Bruestle, E., Z. Beisinger, C. Karboski, and D. Gorsky. Lake Sturgeon spawning migration patterns and timing in the lower Niagra River.
- Carlson, D. Fish recovery programs in NYS: players and scorecards.
- Carlson, D., and E. Maxwell. Unusual suckers of Big Moose Lake: environmental disturbances and recovery?
- \*Casscles, J. B., and D. Stich. Detecting shifts in an Adirondack Lake Trout *Salvelinus namaycush* population using size structure and condition
- \*Caves, S., and D. Stich. Grass Carp *Ctenopharyngodon idella* population models for Song Lake (Cortland County) and Crooked Lake (Onondaga County).
- Cushman, S., and N. Michels. Impacts of the invasive Round Goby on benthic and pelagic prey in lakes.
- \*Diehl, Z., L. M. Watkins, and J. R. Foster. Seasonal movements & habitat utilization of White Suckers *Catostomus commersonii* in Cobleskill Creek, New York.
- \*Dower, H., and D. Stich. Population characteristics of spawning Walleye in Otsego Lake, NY.
- Draves, J., J. Robinson, D. Einhouse, and J. Markham. Historic commercial fishing records document shifts in fish communities and fisheries in eastern Lake Erie.

\*Fitzpatrick, K. B., and S. Sethi. Predator-prey population dynamics model for Lake Ontario salmon management.

Furgal, S. L., B. F. Lantry, J. M. Farrell, J. E. Marsden, D. Gorsky, and J. R. Lantry. Lake Trout spawning habitat changes in Lake Ontario: historical and contemporary evidence from Stony Island Reef.

\*Gallo, B. D., J. M. Farrell, and B. F. Leydet. A novel approach to compare gut microbiota in native and invasive fish species in the upper St. Lawrence River using emerging next generation sequencing (NGS) technologies.

Hammers, B. Keuka Lake forage collapse: A management perspective. Push nets: Better than your average ichthyoplankton gear?

Himes, H., C. Castiglione, M. Ohar, K. Wyman-Grothem, and S. Sanders. Ecological risk screening summaries: Quickly evaluate risk of non-native species including climate matching with future climate scenarios.

\*Holsopple, A. R., M. K. Mulvihill, and J. R. Foster. Resurgence of Rainbow Smelt *Osmerus mordax* following the collapse of the Alewife *Alosa pseudoharengus* population in Otsego Lake, New York

Jamieson, S., C. Gosier, and J. Ryan. Building the perfect (maybe?) mussel cage: a pilot approach on the Grasse River.

Keefer, C., C. Hatigan, J. Cochran, and M. Senske. Push nets: better than your average ichthyoplankton gear?

\*Kronisch, G., D. J. Stewart, and N. H. Ringler. Longitudinal changes of fish assemblages in Nine Mile Creek, tributary to a recovering urban lake.

\*Kua, Z. X., J. M. Farrell, and J. C. Stella. Water regulation effects on community associations in the St. Lawrence River

Kucera, S. J., J. H. Johnson, J. E. Mckenna, D. L. Bishop, S. E. Prindle, F. Verdoliva, N. Ringler. Length predictions of young-of-year (YOY) Chinook Salmon *Oncorhynchus tshawytscha* in the Salmon River, Pulaski, NY.

Kugler, M., P. Lord, and A. Gascho-Landis. Populations on the brink: predictive estimates of time since recruitment for *Elliptio Complanata* by thin-section aging of deceased individuals.

Lane, C., E. J. Livengood, R. D. Miles, and F. A. Chapman. The effects of every-other-day feeding on the growth performance of yearling stellate sturgeon, *Acipenser stellatus*.

Lehman, B. C. SUNY Cobleskill's conservation fisheries: past, present, future.

Lepak, J. M. Barotrauma in Lake Erie Yellow Perch: take pride in your perch!

Madsen, J. A., and D. A. Fox. Quantifying benthic habitat disturbances of commercial vessel anchoring: implications for protected resources and submerged electric-power transmission cables.

\*Maier, C., M. Futia, B. Hammers, E. Zollweg-Horan, M. Speziale, and J. Rincharad. Fatty acid signatures of Lake Trout *Salvelinus namaycush* from the Finger Lakes.

\*Matt, M., and D. Stich. Long-term proportional size distribution trends in Lake Ronkonkoma

Mulloy, C., E. Bruestle, C. Karboski, and D. Gorsky. Larval and juvenile Lake Sturgeon assessment of the Lower Niagara River.

- \*O'Reilly, J., and D. Stich. Comparison of sub-basin characteristics within Cassadaga Lakes Chautauqua County, New York.
- \*Pakzad, I., R. Jackson, T. VanDeValk, and T. Brooking. Round Gobies, piscivory, and growth rate in Oneida Lake young-of- year Largemouth and Smallmouth Bass.
- Pokorny, T. Brown trout movement and spawning tributary use in the West Branch Delaware River tailwater, Delaware County, NY.
- Post, T. Integrated management of invasive and other aquatic plants in lake ecosystems.
- Razavi, R., R. Jackson, T. Van De Valk, N. Michels, C. Driscoll, and L. Cleckner. Effect of the Round Goby invasion on fish mercury bioaccumulation in the Oneida Lake food web.
- Reed, K., H. Himes, T. Lewis, and M. Rosten. Implications of invasive species management on native fish populations.
- \*Robbins, B., J. R. Foster, B. C. Lehman, J. M. Ratchford, and M. Soukup. Pond culture of the endangered Pugnose Shiner *Notropis anogenus*.
- \*Rose, P., D. Andrews, S. Carey, J. B. Casscles, S. Caves, M. Matt, and D. Stich. Beaver pond management as a tool to control algae blooms in a small, private lake.
- Ryan, J., C. Gosier, and D. Mayer. Changes in a native mussel community over distance: are Zebra Mussels to blame?
- \*Scholten, G., T. Pitcher, and J. McKenna Jr. Evaluating the feasibility of imprinting *Coregonus artedii* to increase natal homing ability.
- \*Sibinga, N., V. Selvaraj, and H. Marquis. Let them eat insects: evaluating the potential of manure-raised housefly larvae as a feed ingredient in the diet rainbow trout.
- \*Smith, G., and D. Stich. Community tensions and influences on development of a management plan for a small, private pond.
- Swenson, S. Adapting radio frequency identification FDX-B/HDX single antenna system to use in lotic systems.
- VanDemark, C., J. Cochran, and C. Keefer. Larval fish photo repository.
- \*Walczyk, A. Walleye growth in connection with the eradication of Alewife population in Otsego Lake, New York.
- Weidel, B., M. Connerton, M. Vinson, J. Holden, J. Hoyle, D. Gorsky, and E. Roseman. Lake Ontario Cisco dynamics based on long-term surveys.
- Weidel, B., J. Palumbo, S. Furgal, T. Evans, K. Holeck, J. Holden, and M. Connerton. Is *Bythotrephes* abundance driving recent increases in Lake Ontario Alewife weight-at-age?
- Wiltse, B., C. Pershyn, and L. A. Sporn. Mapping Brook Trout occupancy using environmental-DNA.
- \*Wixom, S. Emphasis on the expansion of fisheries definition to include important nonconsumptive resources.

**Special thanks to numerous individuals and businesses that helped make this meeting possible!**

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*Awestruck Ciders  
Baxter House Outfitters  
Brooks BBQ  
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