



2018 Meeting

The North Carolina Chapter of the American  
Fisheries Society

&

The North Carolina Freshwater Mollusk Workgroup

Monday, February 19<sup>th</sup> – Thursday, February 22<sup>nd</sup>, 2018

Morganton Community House  
120 North King St.  
Morganton, NC 28655

We would like to thank our sponsors of the  
29<sup>th</sup> annual meeting of the North Carolina  
Chapter of the American Fisheries Society



29<sup>th</sup> Annual Meeting of the North Carolina Chapter of the American Fisheries Society  
 February 19-22, 2018  
 Morganton, NC

2018 Meeting of the North Carolina Chapter of the American Fisheries Society  
 and the Southeast Atlantic Slope Mollusk Workgroup

Tuesday, February 19<sup>th</sup> – Thursday, February 22<sup>nd</sup>, 2018  
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Program at a glance	
<b>Monday 19 February</b>	
1300 – 1500	Southeast Atlantic Slope Mollusk Meeting – Hatchery Tour (NCWRC Marion Conservation Aquaculture Center)
<b>Tuesday 20 February</b>	
0800 – 1700	Southeast Atlantic Slope Mollusk Meeting (Cobb Room)
1900 – 2200	Social (Connelly Room)
<b>Wednesday 21 February</b>	
0730 – 1800	NCAFS Registration Table Open
0800 – 1130	NCAFS Workshop – Climate Change, Climate Models, and Best Practices for Using Them for Impact Assessments and Adaption Planning (Cobb Room)
1130 – 1230	Lunch (on your own)
1230 – 1250	Opening Comments (Cobb Room)
1250 – 1530	Contributed Papers
1530 – 1545	Afternoon Break
1545 – 1745	Contributed Papers
1745 – 1750	Day #1 Concluding Remarks & Announcements
1900 – 2200	Dinner, raffle, and social
<b>Thursday 22 February</b>	
0730 – 1200	NCAFS Registration Table Open
0800 – 0920	Contributed Papers (Cobb Room)
0920 – 0940	Morning Break
0940 – 1230	Contributed Papers
1230 – 1235	Day #2 Concluding Remarks & Announcements
1235 – 1345	Lunch (on your own)
1345 – 1530	NCAFS Business Meeting

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<b>Monday, 19 February</b>	
TIME	NCWRC Marion Conservation Aquaculture Center
1300 – 1500	Southeast Atlantic Slope Mollusk Meeting – Hatchery Tour  <i>Rachael Hoch</i>
<b>Tuesday, 20 February</b>	
TIME	Morganton Community House
0800 – 1700	Southeast Atlantic Slope Mollusk Meeting  <i>Rachael Hoch</i>
1900 – 2200	Social
<b>Wednesday, 21 February</b>	
TIME	Morganton Community House
0800 – 1130	<i>NCAFS Continuing Education Workshop: Climate Change, Climate Models, and Best Practices for Using Them for Impact Assessments and Adaption Planning</i>  Dr. Ryan Boyles, Acting Director, Department of the Interior, US Geological Survey, Southeast Climate Science Center, North Carolina State University, Raleigh, NC
1130 – 1230	<b>Lunch (on your own)</b>
1230 – 1240	Opening remarks – <i>Corey Oakley, NCAFS President</i>
1240 – 1250	Welcome to Morganton – Ed Phillips, Burke County Director of Tourism
1250 – 1300	<i>Science Communication as a Strand in the Aquatic Ecosystem</i>  William Seaman, University of Florida, Lightning
	<b>Session 1: Nongame Imperiled Fauna</b> <b>Moderator: Ryan Heise, Duke Energy</b>
1300 – 1310	<i>The New Norm: Species Status Assessments for All ESA Decisions</i>  Sarah McRae, US Fish & Wildlife Service, Lightning
1310 – 1330	<i>Status, Habitat, and Genetics of the Endemic Carolina Madtom</i>  William R. Cope, North Carolina State University, Student
1330 – 1340	<i>Spotfin Chub Habitat Association in the Little Tennessee River</i>  Luke Etchison, NCWRC, Lightning
1340 – 1400	<i>Variation in Appalachian Elktoe Detectability in the South Toe River</i>  Chantelle Rondel, Appalachian State University, Student
1400 – 1410	<i>Population genetics of the Carolina Heelsplitter (<i>Lasmigona decorata</i>) a critically-endangered freshwater mussel</i>  Victoria C. Fowler, Appalachian State University, Lightning
1410 – 1420	<i>The Other Brookie: Surveys for the Brook Floater Mussel (<i>Alasmidonta varicosa</i>) in the Cape Fear and Lower Yadkin-Pee Dee Basins</i>  Anakela Popp, NCWRC, Lightning

	<b>Session 2: Fish Movement</b> <b>Moderator: Tom Kwak, North Carolina State University</b>
1420 – 1440	<i>Movement by Adult American Shad (Alosa sapidissima) in Western Albemarle Sound, North Carolina and Associated River Basins</i>  Fritz Rohde, National Marine Fisheries Service
1440 – 1500	<i>Movement of Acoustic Tagged Largemouth Bass between Lake Mattamuskeet and Surrounding Canals in Relation to Changes in Lake Level</i>  Kevin J. Dockendorf, NCWRC
1500 – 1510	<i>Estimating Stock Structure of Cobia (Rachycentron canadum) Using Acoustic Telemetry</i>  Riley M. Gallagher, North Carolina State University, Lightning
1510 – 1530	<i>Influence of River Discharge on Diurnal Movement of Smallmouth Bass: A Time Series of Fish Movements</i>  Seth A. Mycko, NCWRC
1530 – 1545	<b>BREAK</b>
	<b>Session 3: Angler Fishery Values and Impacts from Invasive Fish Species</b> <b>Moderator: Kim Sparks, RTI</b>
1545 – 1605	<i>Assessing Angler Use and Demographics at Three Sandhills Region Lakes in North Carolina using Trail Cameras</i>  Lawrence G. Dorsey, NCWRC
1605 – 1615	<i>Angler Tendencies and Population Characteristics of a New Hybrid Striped Bass Fishery in Lake Norman, NC</i>  J. Michael Fisk II, NCWRC, Lightning
1615 – 1635	<i>Two Years of Assessing Trout Distribution: Where We Have Been and Plan to Go</i>  Kenneth J. Lingerfelt, NCWRC
1635 – 1655	<i>Evaluation of Recreational Hand-Crank Electrofishing on Flathead Catfish in Four Southeastern North Carolina Rivers</i>  J. Michael Fisk II, NCWRC
1655 – 1715	<i>Impacts of Invasive Ictalurids on Native Fish Communities in Southeast North Carolina Rivers</i>  Clint W. Morgeson, NCWRC
1715 – 1725	<i>Identifying Ecological Impacts of Common Carp to Inform Biomass Removal and Restoration Efforts in Lake Mattamuskeet</i>  April Lamb, North Carolina State University, Lightning
1725 – 1745	<i>Impacts of Nonnative and Invasive Fish Pathogens to North Carolina's Trout Resources and Its Managers</i>  Jake Rash, NCWRC
1745 – 1750	Day # 1 Concluding Remarks & Announcements– Corey Oakley, NCAFS President
<b>TIME</b>	<b>Morganton Community House</b>
1900 – 2200	Dinner, Raffle, and Social

<b>Thursday, 22 February</b>	
<b>TIME</b>	<b>Morganton Community House</b>
	<b>Session 4: Clams, Mussels, and Contaminants</b> <b>Moderator: Analeka Popp, NCWRC</b>
0800 – 0820	<i>Potential Effects of the Invasive Asian Clam on Methane Cycle Processes in an Urban Stream</i>  Robert Brown, RiverLink
0820 – 0840	<i>Is Contaminant Removal by Native Freshwater Mussels an Ecosystem Service?</i>  Jennifer M. Archambault, North Carolina State University, Student
0840 – 0850	<i>Phylogeography of the Freshwater Mussel Genus Elliptio: Preliminary Trends and Future Directions</i>  Michael M. Gangloff, Appalachian State University, Lightning
0850 – 0900	<i>Improving Growth and Survival of In-Vitro Propagated Mussels and In-Vitro Propagation of the Dwarf Wedgemussel</i>  Michael J. Walter, North Carolina State University, Lightning
0900 – 0920	<i>Evaluation of Freshwater Mussel Sensitivity to Algaecides for Potential Control of Giant Lyngbya</i>  Sean B. Buczek, North Carolina State University
0920 – 0940	<b>BREAK</b>
	<b>Session 5: Alterations of Aquatic Habitats</b> <b>Moderator: David Goodfred, NCWRC</b>
0940 – 1000	<i>Lake Waccamaw Rare Species Monitoring and Exotic Vegetation Management: A Progress Report on Positive Partnerships</i>  Brena Jones, NCWRC
1000 – 1020	<i>Monitoring the Effects of Hydrilla Removal on the Fish Community of a Piedmont River in North Carolina</i>  Jessica R. Baumann, NCWRC
1020 – 1030	<i>Upcoming Removal of Hoosier Dam on the Rocky River in Chatham County</i>  Vann F. Stancil, NCWRC, Lightning
1030 – 1050	<i>Assessing Aquatic Faunal Response to Dam Removal: Milburnie Dam Removal Species Monitoring Overview</i>  Tim Savidge, Three Oaks Engineering
1050 – 1110	<i>Effects of Beavers on North Carolina Stream Fish Communities: A Preliminary Assessment</i>  Samuel F. Fritz, Appalachian State University, Student
1110 – 1130	<i>Evidence of Freshwater Salinization Syndrome in Blue Ridge Mountain Streams and Implications for Aquatic Biodiversity</i>  Amber Lipsky, Appalachian State University, Student
1130 – 1140	<i>Impacts of Urbanization on Freshwater Fishes in the Upper Neuse Watershed</i>  Emilee B. Wooster, North Carolina State University, Lightning

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	<b>Session 6: Methods</b> <b>Moderator: Jennifer Archambault, North Carolina State University</b>
1140 – 1200	<i>Monitoring Changes to Interstitial Sediments in the South Toe River Using Freeze Cores</i>  Michael Thompson, Appalachian State University, Student
1200 – 1220	<i>Lake Bathymetry Mapping using a Raspberry Pi and Open-Source Software</i>  Powell Wheeler, NCWRC
1220 – 1230	<i>Mapping Ocean Resources Using High-Resolution Aerial Imagery</i>  David Coughlan, Normandeau Associates, Inc., Lightning
1230 – 1235	Day # 2 Concluding Remarks & Announcements– <i>Corey Oakley, NCAFS President</i>
1235 – 1345	<b>LUNCH – on your own</b>
1345 – 1530	<b>NCAFS Business Meeting</b>