



2018 Meeting

The North Carolina Chapter of the American
Fisheries Society

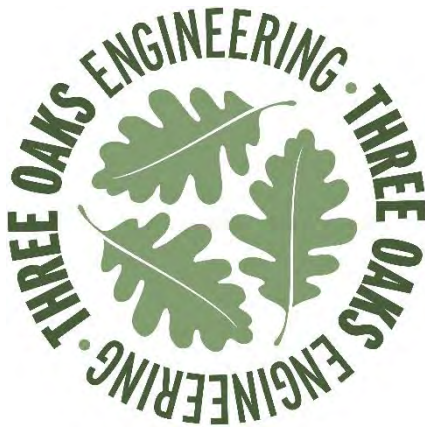
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The North Carolina Freshwater Mollusk Workgroup

Monday, February 19th – Thursday, February 22nd, 2018

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

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



29th 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 19th – Thursday, February 22nd, 2018
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 120 North King St.
 Morganton, NC 28655

Program at a glance	
Monday 19 February	
1300 – 1500	Southeast Atlantic Slope Mollusk Meeting – Hatchery Tour (NCWRC Marion Conservation Aquaculture Center)
Tuesday 20 February	
0800 – 1700	Southeast Atlantic Slope Mollusk Meeting (Cobb Room)
1900 – 2200	Social (Connelly Room)
Wednesday 21 February	
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
Thursday 22 February	
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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Monday, 19 February	
TIME	NCWRC Marion Conservation Aquaculture Center
1300 – 1500	Southeast Atlantic Slope Mollusk Meeting – Hatchery Tour <i>Rachael Hoch</i>
Tuesday, 20 February	
TIME	Morganton Community House
0800 – 1700	Southeast Atlantic Slope Mollusk Meeting <i>Rachael Hoch</i>
1900 – 2200	Social
Wednesday, 21 February	
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	Lunch (on your own)
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
	Session 1: Nongame Imperiled Fauna Moderator: Ryan Heise, Duke Energy
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

Session 2: Fish Movement	
Moderator: Tom Kwak, North Carolina State University	
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	BREAK
Session 3: Angler Fishery Values and Impacts from Invasive Fish Species	
Moderator: Kim Sparks, RTI	
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
TIME	Morganton Community House
1900 – 2200	Dinner, Raffle, and Social

Thursday, 22 February	
TIME	Morganton Community House
	Session 4: Clams, Mussels, and Contaminants Moderator: Analeka Popp, NCWRC
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	BREAK
	Session 5: Alterations of Aquatic Habitats Moderator: David Goodfred, NCWRC
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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	Session 6: Methods Moderator: Jennifer Archambault, North Carolina State University
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	LUNCH – on your own
1345 – 1530	NCAFS Business Meeting