

2019 Meeting

North Carolina Chapter of the American Fisheries Society

&

North Carolina Freshwater Mollusk Workgroup

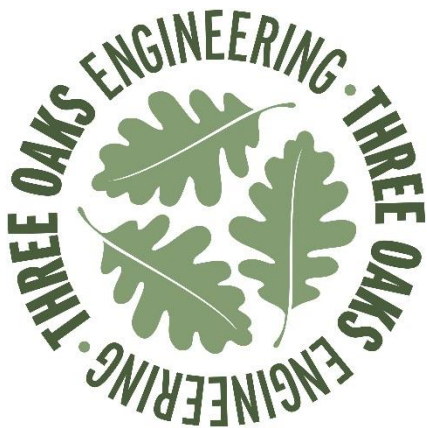
Tuesday, February 19th – Thursday, February 21st, 2019

The Historic Brookstown Inn

200 Brookstown Ave

Winston-Salem, NC

We would like to thank our sponsors of the 30th
annual meeting of the North Carolina Chapter
of the American Fisheries Society



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and the North Carolina Freshwater Mollusk Workgroup

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PROGRAM AT A GLANCE	
Tuesday 19 February	
1000 – 1700	NC Freshwater Mollusk Workgroup Meeting
1830 – 2200	Social, Cotton Mill Lounge
Wednesday 20 February	
0730 – 1800	Registration Open
0800 – 1130	NCAFS Workshop – Aquatic Nuisance Species, Grand Ballroom
1130 – 1300	Lunch (on your own)
1300 – 1800	NCAFS Meeting Registration
1300 – 1800	Oral Presentations, Grand Ballroom
1900 – 2000	Poster Presentations
1900 – 2200	Social, Dinner, and Student Raffle
Thursday 21 February	
0830 – 1105	Oral Presentations
1105 – 1230	Lunch (on your own)
1230 – 1430	NCAFS Business Meeting

Tuesday 19 February	
TIME	Brookstown Inn – Grand Ballroom
1000 – 1700	NC Freshwater Mollusk Workgroup Rachael Hoch, NCWRC - Facilitator
1830 – 2200	Social – Cotton Mill Lounge
Wednesday 20 February	
TIME	Brookstown Inn – Grand Ballroom
0800 – 1130	NCAFS Continuing Education Workshop: Aquatic Nuisance Species Kevin Hining, NCWRC - Introduction Chris Goudreau, NCWRC - North Carolina Aquatic Nuisance Species Plan Bryn Tracy - Nuisance Fish Species Luke Etchison, Thomas Russ, and Dylan Owensby, NCWRC - Nuisance Crayfish and Mollusk Species Erika Haug and Jessica Baumann, NCSU – Nuisance aquatic plants
1130 – 1300	Lunch (on your own)
1300 – 1315	Opening remarks – Tyler Black, NCAFS President
	Session 1: Mussel Ecology and Monitoring Moderator: Andrea Leslie, NCWRC
1315 – 1335	Did You Look Hard Enough? A Case Study of Mussel Detection Efficiency in A Piedmont River Brena K. Jones, NCWRC
1335 – 1355	The Relationship Between Mesohabitat Structure and Mussel Communities in East Texas Rivers Andrew R. Glen, NCWRC
1355 – 1400	Filling the Gaps: Surveying for Two Mussel Species Under Federal Listing Review Katharine DeVilbiss, NCWRC, Lightning Talk
1400 – 1420	Estimating Appalachian Elktoe, <i>Alasmidonta raveneliana</i> , Abundance and Occupancy in the South Toe River, NC Chantelle L. Rondel, ASU
1420 – 1440	Monitoring Changes to Interstitial Sediments in the South Toe River Using Freeze Cores Michael Thompson, ASU
1440 – 1445	Freshwater Mussel Surveys in the Catawba River System Ryan J. Heise, Duke Energy, Lightning Talk
	Session 2: Mussel Toxicology and Propagation Moderator: Rachael Hoch, NCWRC
1445 – 1505	<i>In Situ</i> Evaluation of Freshwater Mussel Sensitivity to Prescribed Algaecide Applications in a North Carolina Piedmont Reservoir Sean B. Buczek NCSU
1505 – 1510	Preliminary Studies on the <i>In-Vitro</i> Culture of Yellow Lance, <i>Elliptio lanceolata</i> Michael J. Walter, NCSU, Lightning Talk

1510 – 1515	Variation in Pollutant-Removal Ecosystem Services of Toxic Heavy Metals by Freshwater Mussels Jennifer M. Archambault, NCSU, Lightning Talk
1515 – 1535	BREAK
	Session 3: Faunal Response to Habitat Modifications Moderator: Mike Gangloff, ASU
1535 – 1555	Harris Lake Habitat Enhancement Project Mark D. Fowlkes, NCWRC
1555 – 1615	Rocky River Dam Removal: Opportunities, Concerns, and Lessons Learned Vann F. Stancil, NCWRC
1615 – 1620	Assessing Aquatic Faunal Response to Dam Removal: Milburnie Dam Removal Species Year 1 Monitoring Review Tim Savidge, Three Oaks Engineering, Lightning Talk
1620 – 1625	Culvert Replacement – Applied Genetic Diversity Ned Jones, Triangle Fly Fishers, Lightning Talk
1625 – 1645	Movement of Acoustic Tagged Largemouth Bass between Lake Mattamuskeet and Surrounding Canals in Relation to Changes in Lake Level Kevin J. Dockendorf, NCWRC
	Session 4: Environmental Impacts to Coastal Fisheries and Software Demonstration Moderator: Courtney Buckley, NCWRC
1645 – 1705	The White Lake Fish Kill: Cause, Context, and Implications Kyle T. Rachels, NCWRC
1705 – 1725	Variability of Striped Bass Egg Characteristics in North Carolina Coastal Rivers Cara K. Kowalchuk, NCSU
1725 – 1730	Fisheries Impacts of Hurricane Florence Kyle T. Rachels, NCWRC, Lightning Talk
1730 – 1750	Introduction to Visual Sampling Plan (VSP) - a Free Sampling Software Ned Jones, 1-alpha Solutions
1750 – 1800	Closing Comments, Tyler Black, NCAFS President
1800 – 1900	On Your Own

1900 – 2000	Poster Session
	<ul style="list-style-type: none"> • Population Genetics of the Carolina Heelsplitter, <i>Lasmigona decorata</i>, a Critically-Endangered Freshwater Mussel presented by Victoria C. Fowler, ASU • Analysis of Fish Collections Data Shows North Carolina Steam Fish Communities are Influenced by Beaver Activity presented by Samuel Fritz, ASU • Estimating Stock Structure of Cobia, <i>Rachycentron canadum</i>, Using Acoustic Telemetry presented by Riley M. Gallagher, NCSU • Phylogeographic Patterns Among the Lanceolate <i>Elliptio</i> Species Complex presented by Hans R. Lohmeyer, ASU • Assessing the Recovery of Freshwater Mussel Populations Following Dam Removals presented by Vincent Santini, ASU • Muskellunge Angler Success on Western North Carolina Waters presented by David L. Yow, Western North Carolina Muskie Club
1900 – 2200	Social, Dinner, and Student Raffle
Thursday 21 February	
TIME	Brookstown Inn – Grand Ballroom
	Session 5: Fishery Management Moderator: Ben Ricks, NCWRC
0830 – 0850	Evaluation of Striped Bass Stocking at Badin Lake Using Parentage Based Genetic Tagging Lawrence Dorsey, NCWRC
0850 – 0855	Indirect Impacts of Modern Bass Fishing: Looking Past Traditional Bass Population Dynamics Seth Mycko, NCWRC, Lightning Talk
0855 – 0915	The Effect of Long-term Stocking Programs on Genetic Diversity Heather K. Evans, North Carolina Museum of Natural Sciences
0915 – 0935	Population Characteristics and Simulated Exploitation Responses of Common Carp, <i>Cyprinus carpio</i> , in Lake Mattamuskeet April D. Lamb, NCSU
0935 – 0940	Evaluation of Coded Wire Tag Retention in Brown Trout, <i>Salmo trutta</i> , Fingerlings Tagged at Three Anatomical Locations Jacob M. Rash, NCWRC, Lightning Talk
0940 – 0945	Lake Gaston Catfish Sampling Update Clint W. Morgeson, NCWRC, Lightning Talk
0945 – 1005	BREAK
	Session 6: Imperiled and Rare Species – Fish, Amphibians, and Crayfish Moderator: Dylan Owensby, NCWRC
1005 – 1010	Sicklefin Redhorse Survival in the Little Tennessee River Basin Jason Doll, University of Mount Olive, Lightning Talk

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1010 – 1030	Engaging North Carolina’s Trout Anglers to Help Conserve Eastern Hellbenders Jacob M. Rash, NCWRC
1030 – 1035	Preventing Extinction of the Carolina Madtom, <i>Noturus furiosus</i> Sarah McRae, U.S. F&WS, Lightning Talk
1035 – 1040	Phylogenetic Survey of Crayfish in the Catawba River Basin Reveals a New Species Endemic to the South Mountains of Western North Carolina Michael A. Perkins, NCWRC, Lightning Talk
1040 – 1100	Ghost of Ichthyologists Past - The Longear Sunfish, <i>Lepomis megalotis</i> , in North Carolina Bryn H. Tracy
1100 – 1105	Closing Remarks, Tyler Black, NCAFS President
1105 – 1230	LUNCH – on your own
1230 – 1430	NCAFS Business Meeting
1430	Adjourn

Continuing Education Course

Wednesday, February 20, 2019

0800 – 1130

Grand Ballroom

**Aquatic Nuisance Species In North Carolina – Where We Are, Where We Are Headed,
And Things We Can Do To Help!**

Join us for a morning of engaging talks about a variety of aquatic nuisance species (ANS) in North Carolina (NC). We'll discuss some of the major ANS issues in NC, current control efforts, and what we as NCAFS members can do to help. To assist us on this journey, we have assembled a diverse group of knowledgeable & willing instructors to lead the workshop:

- Chris Goudreau, North Carolina Wildlife Resources Commission Biologist & NC ANS Management Plan Steering Committee member, will introduce and discuss the NC ANS Management Plan.
- Bryn Tracy, retired fisheries biologist, will discuss nuisance freshwater fish species – the good, the bad, and the ugly.
- North Carolina Wildlife Resources Commission Aquatic Wildlife Diversity staff members Thomas Russ, Luke Etchison, and Dylan Owensby will provide information about nuisance crayfish and mollusks.
- Erika Haug and Jessica Baumann, with the North Carolina State University Aquatic Plant Management Program, will highlight aquatic nuisance plant issues.

POSTER SESSION

**Population Genetics of the Carolina Heelsplitter, *Lasmigona decorata*,
a Critically-Endangered Freshwater Mussel**

Victoria C. Fowler* and Michael M. Gangloff
*Presenter

**Analysis of Fish Collections Data Shows North Carolina Steam Fish Communities
are Influenced by Beaver Activity**

Samuel Fritz*, Michael Gangloff, Michael Madritch, and Robert Creed
*Presenter

Estimating Stock Structure of Cobia, *Rachycentron canadum*, Using Acoustic Telemetry

Riley M. Gallagher*, Jacob R. Krause, and Jeffrey A. Buckel
*Presenter

Phylogeographic Patterns Among the Lanceolate *Elliptio* Species Complex

Hans R. Lohmeyer*, Michael M. Gangloff, Victoria C. Fowler, Jon. D. Wells, and Gretchen. L. Bailey
*Presenter

Assessing the Recovery of Freshwater Mussel Populations Following Dam Removals

Vincent Santini* and Michael Gangloff
*Presenter

Muskellunge Angler Success on Western North Carolina Waters

David L. Yow