



**2016 Meeting of the Virginia and North Carolina  
Chapters of the American Fisheries Society  
&  
The Southeast Atlantic Slope and Virginia  
Atlantic Slope Mollusk Groups**

Monday, March 14<sup>th</sup> - Thursday, March 17<sup>th</sup>, 2016

Institute for Advanced Learning and Research  
150 Slayton Avenue  
Danville, VA 24540

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American Fisheries Society meeting**



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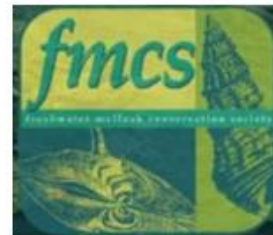
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2016 Meeting of the Virginia and North Carolina Chapters of the American Fisheries Society  
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 The Southeast Atlantic Slope and Virginia Atlantic Slope Mollusk Groups

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Institute for Advanced Learning and Research (IALR)

150 Slayton Avenue

Danville, VA 24540

<b>Program at a glance</b>	
<b>Monday 14 March</b>	
10:00 AM – 4:00 PM	Atlantic Slope Mollusk Groups meeting
<b>Tuesday 15 March</b>	
8:00 AM – 12:00 PM	Atlantic Slope Mollusk Groups meeting
12:00 PM – 5:00 PM	Registration for Joint AFS Meeting
1:00 – 5:00 PM	Continuing Education course – Conservation Genetics
6:00 PM – 10:00 PM	Informal social – Santana's (hotel restaurant)
<b>Wednesday 16 March</b>	
7:45 AM – 3:45 PM	Registration for Joint AFS Meeting
8:00 AM – 8:15 AM	Opening remarks
8:15 AM – 9:45 AM	Contributed papers
9:45 AM – 10:00 AM	BREAK
10:15 AM – 12:00 PM	Contributed papers
12:00 PM – 1:30 PM	LUNCH – on your own
1:30 PM – 2:15 PM	Contributed papers
2:15 PM – 2:30 PM	BREAK
2:30 PM – 3:30 PM	Dan River Symposium
3:30 PM – 3:45 PM	BREAK
3:45 PM – 5:00 PM	Business meetings, VA and NC chapters
6:00 PM – 7:00 PM	Poster session and social
7:00 PM – 10:00 PM	Dinner and raffle
<b>Thursday 17 March</b>	
8:00 AM – 9:15 AM	Contributed papers
9:15 AM – 9:30 AM	BREAK
9:30 AM – 11:45 AM	Catfish Symposium
11:45 AM – 12:00 PM	Closing remarks / Awards

Program Committee: Mike Gangloff (NC Chair), Craig Roghair (VA Chair), Aaron Bunch, Andy Dolloff, Eric Hallerman, Bud LaRoche, Michael Moore, Michael Perkins, Bryn Tracy

Monday 14 March

<b>TIME</b>	<b>Room 207</b>	
10:00 am - 4:00 p.m.	Atlantic Slope Mollusk Groups meeting <i>Judy Ratcliffe</i> <i>Brian Watson</i>	

Tuesday 15 March

12:00 p.m. – 5:00 p.m.      Registration for Joint AFS Meeting in Atrium

<b>TIME</b>	<b>Room 207</b>	<b>Barkhauser Auditorium</b>
8:00 a.m. -12:00 p.m.	Atlantic Slope Mollusk Groups meeting <i>Judy Ratcliffe</i> <i>Brian Watson</i>	
1:00-5:00 p.m.		<u>Continuing Education Course – Conservation Genetics</u> <i>Eric Hallerman</i> <i>Nate Wilkie</i>

6:00-10:00 p.m.      Informal social, Santana’s Restaurant (adjacent to Comfort Suites hotel)

Wednesday 16 March

7:45 a.m. – 3:45 p.m. Registration for Joint AFS Meeting in Atrium

<b>TIME</b>	<b>Room 207</b>	<b>Salon BDF</b>
8:00-8:15 a.m.	Opening Remarks <i>E. Hallerman, VA Chapter President</i>	Opening Remarks <i>K. Sparks, NC Chapter President</i>
	<b>Mussels</b> <b>Moderator: Jennifer Archambault</b>	<b>Trout</b> <b>Moderator: Jake Rash</b>
8:15-8:30 a.m.	Long-term Population Declines of the Mussel Assemblage in the Little Tennessee River <i>D. Stagliano, NC</i>	Gill Lice and Whirling Disease within North Carolina Trout Populations: Past, Current, and Future Efforts to Understand These Recently Discovered Threats <i>J. Rash, NC</i>
8:30-8:45 a.m.	Effects of Land Use and Stream Habitat Changes on Appalachian Elktoe ( <i>Alasmodonta raveneliana</i> ) Populations in the Nolichucky River Drainage, NC <i>G. Pandolfi, NC-Student</i>	Field-based Measurement of Thermal Tolerance Limits for Brook Trout in Ramsey's Draft and Other Virginia Trout Waters <i>T. Benzing, VA</i>
8:45-8:52 a.m.	Grafting of the Tree of Broken Dreams: A Phylogenetic Analysis of <i>Elliptio</i> <i>R. Fagundo, NC-Student-Lightning</i>	A Brief Discussion of Recent Socioeconomic Data Concerning North Carolina's Public Mountain Trout Waters <i>J. Rash, NC-Lightning</i>
8:52-9:00 a.m.	2016 Update on Freshwater Mussel Propagation at the North Carolina Wildlife Resources Commission's Conservation Aquaculture Center <i>R. Hoch, NC-Lightning</i>	Virginia Stocked Trout Management Plan <i>S. Reeser, VA-Lightning</i>
9:00-9:15 a.m.	Assessing the Influence of Propagation and Culture Methods on Juvenile Mussel Chemical Sensitivity <i>A. Popp, NC-Student</i>	Behavior and Survival of Stocked Trout in Southern Appalachian Mountain Streams <i>J. Flowers, NC</i>
9:15-9:30 a.m.	Assessing the Toxicity of the Clinch River Basin Sediment Load to the Endangered Freshwater Mussel <i>Epioblasma brevidens</i> (Cumberlandian Combshell) <i>J. Archambault, NC</i>	Max Patch Pond Angler Access Improvement and Habitat Enhancement, Madison County, NC <i>S. Loftis, NC</i>

Wednesday 16 March

<b>TIME</b>	<b>Room 207</b>	<b>Salon BDF</b>
9:30-9:37 a.m.	Long-term Freshwater Mussel Monitoring in the Pee Dee River, North Carolina  <i>R. Heise, NC-Lightning</i>	Behavioral Mechanisms Brook Trout Use to Establish Linear Dominance Hierarchies  <i>D. Sheire, VA-Student-Lightning</i>
9:37-9:45 a.m.	Population Assessment of the Federally Endangered James Spiny mussel in NC  <i>M. Perkins, NC-Lightning</i>	The Effects of Nitrogen Gas Saturation on the Survival of Brook Trout ( <i>Salvelinus fontinalis</i> ) Eggs and Fry in Aquaculture and Deep Springs in South River, Waynesboro  <i>T. Tears, VA-Student-Lightning</i>
9:45-10:00 a.m.	Mark-Recapture and Artificial Stream Channel Experiments Inform Burrowing Patterns of the Endangered James Spiny mussel ( <i>Pleurobema collina</i> ) in Response to Floods  <i>D. Boisen, VA-Student</i>	Condition, Diet, and Trophic Relations of Stocked Trout in Southern Appalachian Mountain Streams  <i>J. Fischer, NC</i>
10:00-10:15 a.m.	<b>BREAK</b>	<b>BREAK</b>
	<b>Non-game fish</b> <b>Moderator: Michael Moore</b>	<b>Game fish</b> <b>Moderator: Sasha Doss</b>
10:15-10:30 a.m.	Population Estimation of the Imperiled Clinch Dace ( <i>Chrosomus</i> sp. cf. <i>saylori</i> )  <i>M. Moore, VA-Student</i>	Spring Flow Variability Associated With Muskellunge Recruitment on the Upper James River, VA  <i>D. Goetz, VA</i>
10:30-10:45 a.m.	Modelling Sediment Transport in the Roanoke River Basin to Protect Sediment-Sensitive Freshwater Fish Species  <i>L. Scott, NH-Student</i>	A General Assessment of a Southern Riverine Muskellunge ( <i>Esox masquinongy</i> ) Population  <i>J. Hallacher, VA</i>
10:45-11:00 a.m.	Hybridization and Replacement of Roanoke Bass ( <i>Ambloplites cavifrons</i> ) with Invasive Rock Bass ( <i>A. rupestris</i> ) in Virginia  <i>J. Eschenroeder, GA-Student</i>	Can They Play Nicely? Creating and Managing a Two-Predator System  <i>S. Doss, VA-Student</i>
11:00-11:07 a.m.	Status, Trends, and Ecology of the Endemic Carolina Madtom  <i>W. R. Cope, NC-Student-Lightning</i>	Determining the Survivability of Tiger Muskies in mid-Atlantic Small Impoundments  <i>D. Beasley, VA-Lightning</i>
11:07-11:15 a.m.	News Flash! Bridle Shiners still extant in North Carolina  <i>T. Black, NC-Lightning</i>	Trophy Largemouth Bass Research in the Private Sector  <i>J. Haley, VA-Lightning</i>

Wednesday 16 March

<b>TIME</b>	<b>Room 207</b>	<b>Salon BDF</b>
11:15-11:30 a.m.	Detecting Predation Impact of an Introduced Fish Using Next-Generation Sequencing  <i>T. Ivasauskas, NC-Student</i>	The Effects of a Largescale Drawdown and Dam Replacement on Largemouth Bass in Salem Lake, North Carolina  <i>K. Hining, NC</i>
11:30-11:45 a.m.	Swamp Tales: A Status Update for the Carolina Pygmy Sunfish ( <i>Elassoma boehlkei</i> )  <i>B. Jones, NC</i>	Assessing Smallmouth Bass ( <i>Micropterus dolomieu</i> ) Trophic Position in a Hierarchical River Network Using Stable Isotope Methods  <i>O. Nettere, VA-Student</i>
11:45 a.m.–noon	Population Assessment in North Carolina of the Federally Endangered Roanoke Logperch  <i>W. Russ, NC-Lightning – ending 11:52 a.m.</i>	Identifying Sampling Efficiencies in Fisheries Monitoring: Examples from Virginia  <i>A. Bunch, VA – ending noon</i>
12:00-1:30 p.m.	<b>LUNCH – on your own</b>	<b>LUNCH – on your own</b>
	<b>Policy</b> <b>Moderator: Bryn Tracy</b>	<b>Marine</b> <b>Moderator: Allison White</b>
1:30-1:45 p.m.	Duke Energy Activities Regarding the USEPA §316(b) Rule, Entrainment and Impingement at Cooling Water Intakes  <i>T. Thompson &amp; M. Abney, NC</i>	Stock Structure of Spotted Seatrout: Assessing Movement and Genetic Connectivity at Northern Latitudinal Limits  <i>T. Ellis, NC</i>
1:45-2:00 p.m.	North Carolina’s Experience with Clean Water Act §316 (a) Variances and Demonstrations  <i>B. Tracy, NC</i>	Examining Fine-Scale Movement of Estuarine Southern Flounder ( <i>Paralichthys lethostigma</i> ) Using a Combination of Active and Passive Acoustic Techniques  <i>L. Hollensead, NC-Student</i>
2:00-2:15 p.m.	2015 Revised Wildlife Action Plan – Species, Habitats, and So Much More  <i>C. Carr, NC</i>	Spatial and Temporal Heterogeneity in Life History Trends of Atlantic Weakfish ( <i>Cynoscion regalis</i> ) and Implications to Fisheries Management  <i>A. White, VA-Student</i>
2:15-2:30	<b>BREAK</b>	<b>BREAK</b>

Wednesday 16 March

TIME	Room 207	Salon BDF
		<b>Dan River Symposium</b> <b>Moderator: Eric Hallerman</b>
2:30-2:45 p.m.		Overview of the Dan River Coal Ash Spill, Including Results with Invertebrates  <i>B. Williams, Dan River Basin Association</i>
2:45-3:00 p.m.		Emergency Response Actions and Natural Resource Damage Assessment and Restoration following an Accidental Coal Ash Release into the Dan River: An Example of Public/Private Collaboration  <i>L. Hickok, Duke Energy</i>
3:00-3:15 p.m.		Emergency Response Phase Sampling Results and Year-one Sampling Results of a Long-term Monitoring Plan following an Accidental Coal Ash Release into the Dan River  <i>R. Garrett, Duke Energy</i>
3:30-3:45 p.m.		NCDWR's Monitoring of Heavy Metals in Dan River Fish Tissues following the February 2014 Coal Ash Spill; a 15-month Synopsis after Four Rounds of Fish Sampling in North Carolina  <i>J. DeBerardinis, North Carolina Division of Water Resources</i>
3:30-3:45 p.m.		<b>BREAK</b>

3:45-5:00 p.m. Chapter Business Meetings  
 VA – Salon BDF  
 NC – Barkhauser Auditorium, includes presentation of Harris Conservation Award, and Finke Distinguished Service Award

6:00-7:00 p.m. Poster Session and Social in Salon ACE

7:00-10:00 p.m. Dinner & Raffle in Salon ACE



Wednesday 16 March

TIME	Salon ACE
6:00-7:00 p.m.	<b>Poster Session</b>
	Stocking Grass Carp, Is The Reward Worth The Risk? <i>J. Harris, VA</i>
	Development Of Environmental DNA Protocols For Detecting Occurrence Of Imperiled Daces (Genus <i>Chrosomus</i> ) In Virginia <i>E. Hallerman, VA</i>
	CATT Tracks – A Summary Of Stream Inventory Projects In VA And NC, 1995 To Present <i>C. Krause, VA</i>
	Maximum Daily Consumption of Blue Catfish <i>Ictalurus furcatus</i> <i>H. Kim, NC</i>
	Estimating Mortality For Southern Flounder Using A Combined Telemetry And Conventional Tagging Approach <i>T. Scheffel, NC-Student</i>
	Estimation Of Persistence Within The North Carolina Red Drum Juvenile Abundance Index: Performance Of Fixed Versus Partial Replacement Survey Design <i>E. Simpson, NC-Student</i>
	Freshwater Mussel Detection: A Research Synthesis Aimed At Filling Knowledge Gaps On Mussels <i>D. Kobler, VA-Student</i>
	Floodplain Deforestation Effects On Fisheries <i>L. Castello, VA</i>
	Why Is The Stream Drying Up? A Spreadsheet To Calculate Lake Evaporation And Tailwater Discharge <i>C. Cabino, VA-Student</i>
	Do Macroinvertebrate And Habitat Bioassessments Reflect Presence Of Clinch Dace? <i>S. Wolf, VA-Student</i>
	Stream Acid Mitigation Plan For Two Jefferson National Forest Streams <i>K. Pyszka, VA-Student</i>
	Do Resource Agency Reviews Of Road Projects Translate To Better Fish And Wildlife Crossings? <i>M. Chambers, NC</i>
	Multitrophic Effects Of A Diatom On River Food Webs <i>B. Taylor, NC</i>
	<del>An Economic Analysis Of The Striped Bass (<i>Morone Saxatilis</i>) Fishery Of The Neuse River</del> <b>WITHDRAWN</b> <i>K. Herrera, NC-Student</i>
Change In Fish Toxic Element Body Burdens Over The Year Following A Catastrophic Release Of Coal Fly Ash <i>S. Tuberty, NC</i>	

Thursday 17 March

<b>TIME</b>	<b>Room 207</b>	<b>Salon BDF</b>
	<b>Anglers, Amazon, &amp; Maury River Moderator: Kathleen Gray</b>	<b>Exotic &amp; Invasive Species Moderator: Casey Grieshaber</b>
8:00-8:15 a.m.	Recreational Angler Catch, Effort, and Satisfaction in an Urban Setting  <i>W. Xiong, NC-Student</i>	North Carolina Aquatic Nuisance Species Management Plan  <i>C. Goudreau, NC</i>
8:15-8:30 a.m.	Subsistence Anglers and Other At-Risk Consumers of Freshwater Fish: Tools for Communicating Consumption Advisories  <i>K. Gray, NC-Student</i>	Status of Non-indigenous Fishes in North Carolina  <i>S. Fraley, NC</i>
8:30-8:45 a.m.	<del>Human and Environmental Factors Affecting the Distribution of Arapaima in Amazon River Floodplain Lakes</del> <b>WITHDRAWN</b>  <i>J. Richard, VA-Student</i>	Movement of Triploid Grass Carp in the Regulated Pee Dee River, NC  <i>L. Dorsey, NC</i>
8:45-9:00 a.m.	<del>Examining Breathing Behavior of Arapaima for Improved Fishery Management in the Amazon</del> <b>WITHDRAWN</b> <i>G. Stokes, VA-Student</i>	Treating Hydrilla with Fluridone in a Lotic System: Responses of Target and Non-target Species  <i>S. Auell, NC-Student</i>
9:00-9:15 a.m.	Maury River Restoration Project Update  <i>L. Finger, VA-Lightning – ending 9:07 a.m.</i>	Trends in Abundance of Northern Snakehead in Virginia Potomac River Tributaries  <i>J. Odenkirk, VA – ending 9:15 a.m.</i>
9:15-9:30 a.m.	<b>BREAK</b>	<b>BREAK</b>
		<b>Catfish Symposium Moderator: Aaron Bunch</b>
9:30-9:45 a.m.		Sleeping Giants: the Ecology and Impacts of Domestic Invasive Large Catfish  <i>T. Kwak, NC</i>
9:45-10:00 a.m.		Predation of Anadromous Fish by Non-native Catfish in an Atlantic Slope Drainage  <i>J. Schmitt, VA-Student</i>
10:00-10:15 a.m.		Individual Blue Catfish Growth Variation during Introduction and Expansion in Virginia Tidal Rivers: Observations and Modeling  <i>C. Hilling, VA-Student</i>

Thursday 17 March

TIME	Room 207	Salon BDF
10:15-10:30 a.m.		Using Angler Diaries to Provide Cost-Effective Information on an Emerging Blue Catfish Fishery in Lake Wylie, North Carolina  <i>D. Goodfred, NC</i>
10:30-10:37 a.m.		Characteristics of a Native Ictalurid Community in the White Oak River, North Carolina  <i>B. Ricks, NC-Lightning</i>
10:37-10:45 a.m.		Channel Catfish ( <i>Ictalurus punctatus</i> ) Stocking and Reproduction in Small Impoundments  <i>B. Fink, VA-Lightning</i>
10:45-11:00 a.m.		Neuse River Catfish: Dynamic Assemblage and Establishment of a Trophy Fishery  <i>K. Rachels, NC</i>
11:00-11:15 a.m.		Catfish Passage at Boshers Dam Vertical Slot Fishway in the James River Piedmont/Coastal Fall Zone  <i>A. Weaver, VA</i>
11:15-11:22 a.m.		Movement Ecology of Blue Catfish in Virginia's Tidal Rivers: Preliminary Findings  <i>G. Reger, VA-Lightning</i>
11:25-11:45 a.m.		Catfish Panel Discussion
11:45 a.m.–noon		<b>Closing Remarks / Awards</b>