Southeastern Fishes Council 2018 Annual Meeting

TECHNICAL PROGRAM

Thursday: early morning

8:30. **Tanya Darden**

Introductory remarks

8:45. **Caleb A. Aldridge**, Bradley M. Richardson, David A. Schumann, and Michael E. Colvin

*Student Presentation (G)*

Identifying barriers to the detection of passive integrated transponder (PIT) tags in Southern Brook Lamprey ammocoetes (*Ichthyomyzon gagei*, Hubbs & Trautman, 1937)


*Student Presentation (G)*

Reproductive impairment in three groundfish species in and around the northern Gulf of Mexico hypoxic zone

9:15. **Emily Judson**, Yoichiro Kanno, Matthew Walker, Tanya Darden, and Brandon Peoples

*Student Presentation (G)*

Modeling distribution of endemic Bartram’s bass in the Savannah River basin


*Student Presentation (G)*

Phylogenetics of *Stigmacerca*: evolutionary resolution of the spottail darters

9:45. **Kurtis Shollenberger**, Carol Johnston, and Alexis Janosik

*Student Presentation (G)*

Current distribution and habitat use of the threatened snail darter (*Percina tanasi*) in Alabama

10:00. **Morning break**

Thursday: late morning

10:15. **Kyler Hecke** and Brian J. Alford

*Student Presentation (G)*

Ecological niche-modeling of the Sickle Darter *Percina williamsi* across multiple scales

10:30. **Zach Martin** and Paul Angermeier

*Student Presentation (G)*

Testing effects of embeddedness on nest-site choice and oviposition by a cavity-nesting stream fish
10:45. **Joshua R. Vine**, S. Chad Holbrook, William C. Post, and Brandon K. Peoples
*Student Presentation (G)*

Identifying environmental cues for Atlantic and Shortnose sturgeon spawning migrations in the Savannah River

11:00. **Chance Garrett**, Ginny Adams, and Reid Adams
*Student Presentation (UG)*

Habitat associations of riffle fishes in an Ozark river having a dynamic gravel bed load

11:15. **Robert Ellwanger**, Carol Johnston, and Alexis Janosik
*Student Presentation (G)*

Potential decline of Bluestripe Shiner, *Cyprinella callitaenia*, from hybridization and environmental factors

**Lightning talks:**

11:30. **Worth Pugh**, Julia Wood, and Phillip Harris

Shining a light on a treasure of natural history: modernization and digitization of the Geological Survey of Alabama Ichthyology Collection

11:35. **Shawna M. Mitchell** and Bernie R. Kuhajda

Studying life history of the Tennessee Dace *Chrosomus tennesseensis* to determine the best conservation practices for the endangered Laurel Dace *Chrosomus saylori*

11:40. **Valerie J. Jones**, Hayden T. Mattingly, Samantha A. Allen, and Jeffery W. Simmons

Distribution and abundance of the Bluemask Darter *Etheostoma akatulo* in the Collins River during summer 2018

11:45. **Lunch**

**Thursday: early afternoon**

*Student Presentation (G)*

Environmental DNA (eDNA) tracking of the invasive silver carp (*Hypophthalmichthys molitrix*) in the Duck River, Tennessee

1:45. **Edward Stowe**, Mary Freeman, Seth Wenger, and Bud Freeman
*Student Presentation (G)*

Assessing the status of the Amber Darter (*Percina antesella*) with multivariate state-space analysis

2:00. **Jennifer Main**, Ginny Adams, and Reid Adams
*Student Presentation (G)*

Fish assemblage dynamics over a 30-year period in the Strawberry River in relation to land use
2:15. Lauren Stoczynski and Brandon Peoples
   *Student Presentation (G)*
   Understanding the elements of metacommunity structure in stream fish communities of the eastern United States

2:30. **Afternoon break**

**Thursday: late afternoon**

2:45. Bernie Kuhajda, Sarah Sweat, George Gavrielides, Anna Geroge, Justyn Patterson, Christina Quinn, Joe Powell, Mack Lunn, and Ryan Brown
   Sharing is caring: use the freshwater information network (fin) to share your southeastern fish encounters with others

3:00. Sam Silkenetter, Bryan Brown, Robert Creed, Emmanuel Frimpong, James Skelton, and Brandon Peoples
   *Student Presentation (G)*
   Positive biotic interactions in freshwaters: a research directive

3:15. Amanda K. Pinion, Daemin Kim, and Kevin W. Conway
   *Student Presentation (G)*
   Phylogeography of the Sand Shiner, *Notropis stramineus* (Teleostei: Cyprinidae)

**Lightning talks:**

3:30. Tierra Curry
   Progress and setbacks in ESA protections for southeast freshwater species

3:35. Meredith Hayes Harris
   Captive propagation of a federally endangered species, the Laurel Dace *Chrosomus saylori*

3:40. Matthew Wagner
   The Comeback and the takeover: results from a 2018 survey of the Pearl River

3:45. Duncan Elkins
   If you spilled it, will they come? Tracking fish recovery in Flat Creek near Dawsonville, GA

4:00: **Southeastern Fishes Council Business Meeting**
**Friday: early morning**

8:30. Katie E. McBaine, Paul L. Angermeier, and Eric M. Hallerman  
*Student Presentation (G)*  

Preliminary assessment of within-stream movement patterns of candy darter in Virginia

8:45. Jeffrey W. Simmons and David C. Matthews  

Going with the flow- discovery of the Snail Darter *Percina tanasi* throughout the mainstem Tennessee River

9:00. Rachel Finigan, Michelle Ruigrok, Thomas Martin, Michael LaVoie, Luke Etchinson, and Rachael Hoch  
*Student Presentation (G)*  

Feasibility study for restoration of freshwater mussels (*Villosa iris* and *Lampsilis fasciola*) into the upper Oconaluftee River in North Carolina

9:15. Joshua Hubbell and Jake Schaefer  
*Student Presentation (G)*  

Evidence for habitat filtering as a basis for the coexistence of three darters (*Etheostoma*) in a Gulf coastal plain drainage

9:30. Malorie M. Hayes and Kyle. R. Piller  
*Student Presentation (G)*  

The diversification of the Blackbanded Darter (*Percina nigrofasciata*) across the southeast

9:45. Ryan Friebertshauser, Carol Johnston, and Daniel Holt  
*Student Presentation (G)*  

Physiological and behavioral impacts of acute anthropogenic noise on stream fishes

10:00. Morning break

**Friday: late morning**

10:15. Zachary Sperstad, Peter Berendzen, Andrew Simons, Jonathan Armbruster, Carla Stout, Emily Moriary Lemmon, and Alan Lemmon  

Resolving the evolutionary history of the freshwater suckers using anchored enrichment (*Cypriniformes: Catostomidae*)

10:30. Jake Schaefer, Joshua Hubbell, and Brian Kreiser  

Population genomics of two headwater specialist darters in the Yazoo River basin

10:45. Seth Wenger, Mary Freeman, William McLarney, Edward Stowe, Kelly Petersen, Phillip Bumpers, and Byron Freeman  

The critical importance of long-term fish monitoring
11:00. **Michelle S. Ruigrok**, Rachael Finigan, Luke Etchison, Rachael Hoch, Michael J. LaVoie, and Thomas Martin

In-situ feasibility study of freshwater mussel reintroduction: survival and growth of the Slippershell *Alasmidonta viridis* in the upper Oconaluftee River, NC (Swain Co.)

11:15. **Michael Sandel**

Phylogenomic interrelationships of the southernmost sculpins (Perciformes: Uranidea)

11:30. **Bryn Tracy**, Gabriela M. Hogue, and Fritz C. Rohde

Ghost of ichthyologists past - the Longear Sunfish *Lepomis megalotis* in North Carolina

11:45. **Lunch**

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**Friday: early afternoon**

1:30. **Brian Zimmerman** and S. Mazeika P. Sullivan

Successful translocation of Bluebreast Darters: A case study from the upper Licking River, Ohio

1:45. **Carrie A. Straight**

Species status assessments and the use of decision analysis for recovery, listing, and conservation

2:00. **James D. Williams**, Mark A. Cantrell, and Judy A. Takats

A vision for aquatic restoration for the Coosa River

2:30. **Awards Ceremony**
Thursday evening Poster Session

1. **Alexsis M. Mross** and Brook L. Fluker
   *Student Poster (UG)*
   
   Assessing species boundaries among clades of the Least Darter, *Etheostoma microperca*, using multilocus species delimitation methods and morphological data

2. **Annie E. Savage**, Jennifer C. Taylor, Kari M. Harris, and Brook L. Fluker
   *Student Poster (UG)*
   
   Project Macroinvert: bringing mayfly (Ephemeroptera) collections out of the dark at Arkansas State University

3. **Benjamin Wilson**, Rebecca E. Blanton, and Matthew D. Wagner
   *Student Poster (G)*
   
   Phylogeography of the Piebald Madtom, *Noturus gladiator*

4. **Dustin R. Thomas**, Brook Fluker, and Brett Timmons
   *Student Poster (G)*
   
   Assessment of Walleye in the Eleven Point River, Arkansas, following a six-year stocking gap

5. **George Gavrielides**, Ginny Adams, Reid Adams, and Matt Connolly
   *Student Poster (G)*
   
   Potential effects of land cover change on fish assemblages in the Eleven Point River basin

6. **Hilary K. Canada**, Brittany L. McCall, and Brook L. Fluker
   *Student Poster (UG)*
   
   Phylogeographic analyses suggest cryptic diversity within the Bluntnose Darter, *Etheostoma Chlorosoma*

7. **Jennifer C. Taylor**, Annie E. Savage, and Brook L. Fluker
   *Student Poster (UG)*
   
   Project Macroinvert: unlocking geospatial data of Odonates from the aquatic macroinvertebrate collection at Arkansas State University

8. **Brooke Grubb**, John W. Johansen, and Rebecca E. Blanton
   *Student Poster (G)*
   
   Phylogeography of a small-stream adapted crayfish, *Cambarus pristinus*, from the Cumberland Plateau of Tennessee

9. **Karlie Jeffers**, Shawna Mitchell, and Brian Alford
   *Student Poster (UG)*
   
   Using otoliths to age a population of Tennessee Dace in southeast Tennessee
*Student Poster (G)*  
Using genomics and eDNA methods to assess the conservation and future management of the endemic Coal Darter *Percina breviceuda*

11. **River A. Watson**, Brook L. Fluker, and Bernard R. Kuhajda  
*Student Poster (UG)*  
Taxonomic evaluation of the Goldstripe Darter *Etheostoma parvipinne*, using species delimitation methods with molecular and morphological data

12. **Sarah Sweat**, Bernie Kuhajda, George Gavrielides, Justyn Patterson, Christina Quinn, Anna George, Joe Powell, Mack Lunn, and Ryan Brown  
Engaging scientists and citizen scientists using the Freshwater Information Network (FIN)

13. **Tyler M. Brown**, Lindsey A. Martin, and Brook L. Fluker  
*Student Poster (UG)*  
Effects of black-spot disease on the body condition of Bleeding Shiners, *Luxilus zonatus*

14. **Calvin Rezac**, Ginny Adams, Reid Adams, and Matt Connelly  
*Student Poster (G)*  
Temporal variation of fish assemblages in the Spring River, Arkansas in relation to land-use change and geomorphology

15. Mollie F. Cashner and **Laurel Y. Hansen**  
Development of informative microsatellite loci for population genetic analysis of the Yellowfin Shiner (*Notropis lutipinnis*)

16. **Sara Barrett**, Jake Schaefer, and Scott Clark  
*Student Poster (G)*  
Alternative stable state driving changes in fish assemblage within the Pascagoula River

17. **William Commins** and William Ensign  
*Student Poster (G)*  
Using instream stationary antennas to monitor the movements of warm water fishes

18. **Matthew R. Thomas** and Stephanie L. Brandt  
Status survey of the Redside Dace, *Clinostomus elongates*, in Kentucky

19. Katelyn A. Bockwoldt and **Steven L. Powers**  
Georeferenced electronic database for the Roanoke College Ichthyological Collection

20. **Cori Black**, Eric Bauer, David Werneke, Jon Armbruster, Brian Helms  
*Student Poster (G)*  
Drought effects on ecological endpoint curves in a biodiversity hotspot
21. Lauren Kelley, Kayla Key, and Amanda Rosenberger
   *Student Poster (UG)
   Life history strategies of freshwater mussels along longitudinal gradients in the Meramec River, Missouri

22. Michael J. Pinder, Paul E. Bugas Jr., Donald J. Orth, Corbin D. Hilling, Valerie A. Kells, Derek A. Wheaton
   A field guide to the freshwater fishes of Virginia

23. Jacob Brumley and Philip Lienesch
   *Student Poster (G)
   Use of dead mussel shells by madtom catfish in the Green River

24. Kiersten Schellhammer and Michael Sandel
   *Student Poster (UG)
   An aquatic melting pot: mapping genetic homogenization among fish populations of the Tenn-Tom waterway

25. Nathan V. Whelan and Ashantye' S. Williams
   Lessons learned and new directions: long-term genetic monitoring of hatchery efforts in the southeastern United States

26. Tammy St. James and Mollie F. Cashner
   *Student Poster (UG)
   The scarlet letters: detection of cross-species mtDNA between Scarlet Shiners and Striped Shiners

27. Noah Daun, Justin Kowalski, Maxfield JonasKrueger, Jeanne Thibodeau, and Justin T. Sipiorski
   *Student Poster (UG)
   Morphometric variation of Iowa Darters (Etheostoma exile) in lotic and lentic environments in Wisconsin

   Are neighbors pillaging nests: detecting spatial complexity of allopaternal care in the imperiled Egg-mimic Darter (Percidae: Etheostoma pseudovulatum)

29. Jessica L. Davis, Mary C. Freeman, and Stephen W. Golladay
   Stream drying and fish occupancy dynamics in the Ichawaynochaway Creek basin