

Southeastern Fishes Council 2018 Annual Meeting

TECHNICAL PROGRAM

Thursday: early morning - Brett Albanese, moderator

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)

9:00. **Michael Cyrana**, Alexander Ledet, and Henry Bart Jr. **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

9:30. **Jerry W. Kattawar III**, Kyle R. Piller, Dan J. MacGuigan, Richard C. Harrington, and Thomas J. Near **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 – Jon Armbruster, moderator

10:15. **Kyler Hecke** and Brian J. Alford **Student Presentation (G)*

Ecological niche-modeling of the Sickie 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 – Duncan Elkins, moderator

1:30. **Robert T. R. Paine**, Mark W. Rogers, and Carla Hurt

**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 – Brook Fluker, moderator

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 Silknetter**, 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 – Brian Alford, moderator

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 Friebertshauer**, 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 – Kit Wheeler, moderator

10:15. Zachary Sperstad, Peter Berendzen, Andrew Simons, **Jonathan Armbruster**, Carla Stout, Emily Moriarty 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**

Friday: early afternoon – Nathan Whelan, moderator

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 (G)**
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

10. **Kenny Jones**, Michael Sandel, and Bernard R. Kuhajda
**Student Poster (G)*
Using genomics and eDNA methods to assess the conservation and future management of the endemic Coal Darter *Percina breviceauda*
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
28. **Nastasia T. Disotell**, Zachary L. Wolf, Mollie F. Cashner, and Rebecca E. Blanton
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