



Southeastern Fishes Council Annual Meeting Program November 8-9, 2012 New Orleans, Louisiana

Thursday, 8 November

8:00 - Welcome

Hank Bart, Tulane University

8:15 - Keynote Address: The Many Facets of Royal D. Suttkus

Robert C. Cashner, Emeritus Vice Chancellor for Research, UNO

9:00 - Did Royal Suttkus coin the term biodiversity?

David Etnier

9:20 - Seining along the Western front

Glenn Clemmer and Jim Williams

9:40 - Suttkus superlatives

Henry L. Bart, Jr.

10:00 – 10:30 Morning Break

10:30 - Extinction attributes of missing north American freshwater fishes

Noel M. Burkhead, Howard L. Jelks, and Stephen J. Walsh

10:45 - Morphological systematics and biogeography of the *Pteronotropis hypselopterus* species complex: a tribute to Royal D. Suttkus

Brady A. Porter

11:00 - Diversity within the weeds: morphological and molecular variation within *Notropis texanus***

Marisa Stachowski, Blake Matherne, Mollie F. Cashner, and Kyle R. Piller

11:15 - Gulf coastal plain vicariance and speciation within the *Cottogaster (Percina copelandi* sp. clade)

Mark A. Dugo, Brian R. Kreiser, William T. Slack, and Paul B. Tchounwou

11:30 - Assessing the impact of low head dams and life-history on fine scale genetic structure of etheostomatine darters**

David Camak and Kyle Piller

11:45 - Occurrence and predicted dispersal of bighead carp (*Hypophthalmichthys nobilis*) in the Mississippi River system: development of a heuristic tool

Martin T. OConnell, Ann M. U. OConnell, and Valerie A. Barko

12:00 – 1:30 Lunch Break

1:30 - Demographic history and population structure of *Notropis suttkusi* in southeastern Oklahoma**

M.R. Schwemm, A.A. Echelle, and R.A. Van Den Bussche

1:45 - A phylogeny of *rhinichthys* (Cypriniformes: Cyprinidae) using COI**

C. Keith Ray and Jonathan W. Armbruster

2:00 - Evolution of two reproductive traits in *Etheostoma* (Etheostomatini): providing new insight to darter phylogenetics**

Zachary P. Martin and Larry M. Page

2:15 - Correlating genetic diversity and habitat preference in three species of Missouri darters**

Kerstin L. Edberg and Robert M. Wood

2:30 - Invasive Pike Killfish (*Belonesox*) in Florida: what's the source?*

Liz Marchio and Kyle Piller

2:45 – 3:15 Afternoon Break

3:15 - Life history of the Brook Silverside, *Labidesthes sicculus*, in the Mobile Basin, Alabama**

Matthew S. Piteo and Phillip M. Harris

3:30 - Reproductive-based patterns of movement in *Fundulus olivaceus***

Scott Clark and Jake Schaefer

3:45 - Life history of the Diamond Darter, *Crystallaria cincotta***

Crystal Ruble, Patrick Rakes, J.R. Shute, and Stuart Welsh

4:00 - Niche position and competitive exclusion in stream fish communities: a geometric morphometric approach**

Luke M. Bower and Kyle R. Piller

4:15 - Trade-offs and synergies between fish production and other ecosystem services in response to flow regime in the nation's largest river swamp – the Atchafalaya River basin, Louisiana**

Micah G. Bennett, Kelley Fritz, Anne Hayden-Lesmeister, Justin Kozak, and Aaron Nickolotsky

4:30 – 6:00 Southeastern Fishes Council Business Meeting

7:00 Poster Session/Social

Friday, 9 November

8:45 - Phylogeography and genetic structure of a genetically distinct population of *Lepomis megalotis* in Cuatro Cianegas, Mexico**

Lyndon M. Coghill, C. Darrin Hulsey, and Steven G. Johnson

9:00 - Examining community level variables of fishes in relation to natural gas development**

Jessie J. Green, Ginny L. Adams, and Reid Adams

9:15 - Refining methods to catch and evaluate size structure of an imperiled population of Alligator Gar in Arkansas**

Chris Naus, Reid Adams, and Lindsey Lewis

9:30 - Explosive diversification coinciding with a benthic to pelagic shift in eastern North American cyprinids**

Phillip Hollingsworth Jr., Andrew Simons, James Fordyce, and Darrin Hulsey

9:45 - Patterns of phylogenetic organization in darter riffle communities**

Aaron D. Geheber

10:00 – 10:30 Morning Break

10:30 - Where have all the Slackwater Darters gone? Using environmental DNA for detection of rare species

Alexis M. Janosik and Carol E. Johnston

10:45 - Evaluation of the Tennessee Lake Sturgeon (*Acipenser fulvescens*) reintroduction and management plan

Kathlina Alford, Mark Cantrell, Carlos Echevarria, Anna George, Jason Henegar, Bernie Kuhajda, Dave Matthews, and Greg Moyer

11:00 - Genetic assessment of Lake Sturgeon for reintroduction into the upper Tennessee River

Ashantye Williams and Gregory Moyer

11:15 - Management and regulatory implications of streamside recreation to listed fishes in Citico Creek (Cherokee National Forest, Monroe County, TN)

Peggy Shute, Ken McDonald, J. R. Shute, and Pat Rakes

11:30 - Freshwater information network: utilizing underutilized distributional data for aquatic conservation

Evan R Collins, Bernard R Kuhajda, and Anna L George

11:45 - Comparing river condition to successful hatching of Alabama Shad (*Alosa alabamae*) in northern Gulf of Mexico drainages

Paul.F. Mickle¹, Jake F. Schaefer¹, Susan.B. Adams², Brian R. Kreiser¹, and Todd Slack³

12:00 – 1:30 Lunch Break

1:30 - From holding on high water: Gulf Sturgeon movement in the Yellow River

Bill Tate, Jeff Van Vrancken, Channing St. Aubin, and Mike Nunley

1:45 - Variation in contact zone dynamics between two species of topminnows, *Fundulus notatus* and *F. olivaceus*, across isolated drainage systems

David Duvernell, Jake Schaefer and Brian Kreiser

2:00 - The effect of reservoirs on gene flow in stream fishes revisited: analysis of two species from the Tallapoosa River system in

Brook L. Flucker, Bernard R. Kuhajda, and Phillip M. Harris

2:15 - A predictive model for estimating fish habitat in upland and lowland southeastern USA streams

Michael H. Doosey, Justin G. Mann, and Henry L. Bart Jr.

2:30 - Beyond multi-district litigation and megapetitions: developing an effective approach to conserving candidate, petitioned, and other at-risk species in the Southeast

Robert Tawes and Gabrielle Horner

2:45 – 3:15 Afternoon Break

3:15 - *Nothonotus* 9.0: three decades of *Nothonotus* (Percidae) phylogeny estimation

Benjamin P. Keck

3:30 - Unexpected genetic divergence among populations of the Brighteye Darter, *Etheostoma lynceum*

Ray C. Schmidt, Michael H. Doosey , and Henry L. Bart Jr.

3:45 - Distribution and life history of a new species of minnow (*Chrosomus* sp. cf. *saylori*) in the upper Clinch River watershed, Virginia

Shannon White and Donald Orth

4:00 - Habitat use of the diamond darter

Stuart Welsh, Dustin Smith, and Nate Taylor

4:15 - An update on the *Cyprinella* bioacoustics project

Catherine T. Phillips and Carol E. Johnston

4:30 - Closing Remarks, Announcement of Student Awards

Poster Session – Thursday, 8 November

1 - Conservation leadership in action: using summer camps to engage teens in aquatic conservation at the Tennessee Aquarium

Ashford S. Rosenberg, Thaddeus M. Taylor, Anna L. George

2 - Fish and mussel assemblage patterns in the Chipola River, Florida, and Spring Creek, Georgia

Stephen J. Walsh, Howard L. Jelks, Nathan A. Johnson and Zachary P. Martin

3 - Occurrence of *Etheostoma fusiforme* in the York River basin of Virginia

Werner Wieland

4 - The Mississippi Museum of Natural Science ichthyology collection: 1933-2012

Matt E. Roberts

5 - An assay of spawning seasonality based on gonadal somatic index in the native North American cyprinid, *Notropis photogenis***

Stefanie Greenleaf, Kelly Hodgskins, Bruce Stallsmith

6 - The effect of hydraulic fracturing on the life history of the Slender Madtom (*Noturus exilis*) in central Arkansas streams**

Page Vick, Chelsey Sherwood, Jessie Green, and Ginny Adams ¹

7 - Data needed for conservation status assessments of petitioned aquatic species in the southeast

Stephanie Chance, Chris Davidson, Beau Dudley, Michael Floyd, Robin Goodloe, Alice Lawrence, Sarah McRae, Jeff Powell, Eric Prowell, and Sandra Pursifull

8 - Identification of Striped Bass spawning sites in the Chattahoochee River above West Point and Walter George Reservoirs, GA**

Bill Davin, Warren Stiles, and Reid Popple

9 - Morphological diversification and flow-induced plasticity in *Cyprinella venusta*

Nathan R. Franssen, Laura K. Stewart, and Jake Schaefer

10 - Isolated wetlands as refuges for species of concern in south Georgia

David Bechler, Brett Albanese, Josh Salter, and Charles Wright

11 - Migratory phenology of young yellow-phase American Eels at Norrell Lock and Dam, Arkansas River navigation system

Casey Cox, Reid Adams, Ginny Adams, Lindsey Lewis, and Jeff Quinn

12 - Assessing fish community structure in the Flint River watershed of North Alabama

Helen Czech, Heather Howell, Allison Bohlman

13 - Life history trait convergence in two species of the *Fundulus notatus* species complex**

Jared Harris, Jake Schaefer

14 - Species-specific relationships between *Pimephales* body shape and discharge regime**

James C. Cureton II

15 - Three years of fish surveys in Aldridge Creek, an urban stream in North Alabama**

Heather Howell, Helen Czech, Allison Bohlman

16 - Museums as Lazarus: effectiveness of extraction and microsatellite amplification on formalin-fixed specimens

Mollie F. Cashner, Erica Lemons, and Kyle Piller

17 - Shape shifters: a look at fish body shape plasticity through geometric morphometrics**

Luke M. Bower and Kyle R. Piller

18 - Reintroduction of the federally endangered Boulder Darter, *Etheostoma wapiti*, and the threatened Spottfin Chub, *Erimonax monachus*, into shoal creek using captive propagation

Rebecca A. Xiques, Patrick L. Rakes, J. R. Shute, Missy A. Petty, Crystal L. Ruble, and Jessica B. Hendricks

19 - Quantitative microscopic analysis of scale morphology in North American darters (Percidae: Etheostomatinae)

Eva Grebe, Sarah Lundin-Schiller, and Rebecca Blanton Johansen

20 - Geometric morphometrics of *Notropis longirostris*

Carla C. Stout and Jonathan W. Armbruster

21 - Morphological variation in the Fantail Darter, *Etheostoma flabellare*, from the Cumberland and Tennessee River drainages**

Aaron Ross and Rebecca Blanton Johansen

22 - Filling the gap: a survey of the Rutherford Fork of the Obion River provides new localities for 20 species**

Kristen Pilcher and Rebecca Blanton Johansen

23 - Evaluation of the southern-most population of the federally endangered Pallid sturgeon, *Scaphirhynchus albus*: using an increased multi-locus dataset of microsatellites**

Krista Boysen and Robert M. Wood

24 - Infrequent visitors? The common occurrence of the Striped Mullet (*Mugil cephalus*) in the lower Arkansas River**

Garrett Grimes, Lindsey Lewis, Reid Adams, and Ginny Adams

25 - Captive propagation of the Gilt Darter, *Percina evides*, for restoration of an extirpated population in New York state

Patrick L. Rakes, J. R. Shute, Crystal L. Ruble, Melissa A. Petty, Jessica B. Hendricks, Rebecca A. Xiques, Doug M. Carlson, John R. Foster, Brent C. Lehman, and Tyler Davis

26 - *Fundulus* as a model for assessing differential toxicological response

Mark A. Dugo, Paul B. Tchounwou, William T. Slack, and Brian R. Kreiser

27 - Overview of the collection of fishes at the LSU Museum of Natural Science

Caleb D. McMahan and Prosanta Chakrabarty

28 - Ecological niche modeling of rare fish and mussel species in east Texas

Marsha G. Williams, Ashley Dunithan, Josh Banta, Lance R. Williams, and Neil B. Ford

29 - Analysis of an introduced species in shape space**

Paul Wiczorek

Presentations indicated by a ** are Student Presentations