



Southeastern Fishes Council

Annual Meeting Program

November 12-14, 2014

Asheville, North Carolina

Wednesday, November 12, 2014

3:00 – 7:00 PM Registration

7:00 – ?? PM Informal gatherings at local establishments

Thursday, November 13, 2014

7:00 Registration

PLENARY SESSION

8:00 – Welcome, Mark Cantrell, USF&WS and Steve Fraley, NCWRC, Program Chairs

8:15 – TWENTY-FIVE YEARS OF CONSERVATION AQUACULTURE IN THE SOUTHEAST. WHAT HAVE WE LEARNED?
J.R. Shute

9:00 – NATIVE FISH CONSERVATION AREAS: A COMMUNITY APPROACH TO AQUATIC CONSERVATION
Fred Harris

9:20 – PLANNING A REINTRODUCTION WITH EMPHASIS ON GENETIC CONSIDERATIONS
Greg Moyer

9:40 – THE DIRTY BIRD FLIES AGAIN: PARTNERSHIP AND PERSISTENCE PAY OFF IN THE PIGEON
Steve Fraley and Joyce Coombs

10:00-10:20 Break

SESSION I -- Re-introductions, Ryan Heise, NCWRC, Moderator (*unless otherwise noted, the first author is the presenter*)

10:20 MOVEMENT ECOLOGY AND DISPERSAL PATTERNS OF REINTRODUCED LAKE STURGEON IN THE UPPER TENNESSEE RIVER SYSTEM
Christina Saidak, Mark Cantrell, and Larry Wilson

10:40 GENETIC ASSESSMENT OF THE LAKE STURGEON REINTRODUCTION PROGRAM IN THE TENNESSEE RIVER
Ashantyé S. Williams and Gregory R. Moyer

- 11:00 REMOVING A STREAM FROM NORTH CAROLINA'S §303 (D) LIST – THE RICHLAND CREEK FISH RE-INTRODUCTION PROJECT
Bryn H. Tracy
- 11:20 MOVEMENT PATTERNS OF TRANSLOCATED ADULT SICKLEFIN REDHORSE (*MOXOSTOMA SP.*) IN THE OCONALUFTEE RIVER
Jessica Davis, Vanessa Hunter, David Gillette, C. Reed Rossell Jr., Michael LaVoie, and Mark Cantrell
- 11:40 CHRONICLES OF SOUTHERN APPALACHIAN BROOK TROUT RESTORATION IN TENNESSEE: PAST, PRESENT AND FUTURE
Jason Henegar, Jim Habera, Kathlina Alford, Jim Herrig, David Teague, and Thomas Johnson
- 12:00 Announcements

LUNCH 12:10-1:30 pm

SESSION II – Communities, Tom Martin, WCU, Moderator

- 1:30 INVESTIGATING THE ROLE OF PARENTAL CARE IN *NOCOMIS* NEST ASSOCIATION
Stephen Floyd
- 1:50 NEST ASSOCIATION DRIVES CYPRINID COMMUNITY STRUCTURE: PRELIMINARY EVIDENCE FOR THE STRESS-GRADIENT HYPOTHESIS IN VERTEBRATE COMMUNITIES
Brandon K. Peoples and Emmanuel A. Frimpong
- 2:10 MULTI-YEAR COMPARISONS OF FISH COMMUNITY SHIFTS IN RESPONSE TO NATURAL GAS DEVELOPMENT ON THE FAYETTEVILLE SHALE, ARKANSAS
Brittany V. Furtado, Jessie J. Green, Ginny Adams, and Reid Adams
- 2:30 WATER AVAILABILITY AS A CATALYST FOR STREAM FISH ASSEMBLAGE SHIFTS IN ALABAMA
Warren Stiles and Carol Johnston
- 2:50 EFFECTS OF LANDUSE CHANGE ON FISH ASSEMBLAGE METRICS IN THE UPPER FRENCH BROAD RIVER BASIN
David Gillette, Dylan Cipkowski, Nicole Dexter, and Jackie Langille
- 3:10 ASSOCIATIONS BETWEEN FISH ASSEMBLAGES AND AGRICULTURAL LAND USE IN THE NOLICHUCKY RIVER WATERSHED
Brian Alford, Joyce Coombs, and Justin Wolbert
- 3:30 EXPANSION PATTERN OF *NOTROPIS TEXANUS* (WEED SHINER) IN THE TENNESSEE RIVER DRAINAGE
Jeffery M. Ray, Joseph W. Schafer, and Amanda L. Oligier

3:50 -- 4:00 Break

4:00 – 5:30 **Business Meeting**

6:00 – 6:30 Poster Set-up

6:30 – 10:00 **Evening Social and Posters Reception**

Friday, November 14, 2014

SESSION III – Species, Brian Alford, UTK, Moderator

- 8:00 STATUS OF AND THREATS TO THE LAUREL DACE, *CHROSOMUS SAYLORI*, ENDEMIC TO WALDEN RIDGE, TENNESSEE
Bernard R. Kuhajda, David A. Neely, Anna L. George, and Sarah C. Hazzard
- 8:20 SUBSTRATE CHARACTERISTICS AND POTENTIAL CONTAMINANT EXPOSURE RISK OF LAKE STURGEON HABITAT IN THE UPPER TENNESSEE RIVER
Daniel Walker, Mark Cantrell, Steve Alexander, and Brian Alford
- 8:40 A SYSTEMATIC EVALUATION OF *ORCONECTES* CF. *BARRENENSIS* FROM THE RED RIVER SYSTEM (CUMBERLAND RIVER) OF TENNESSEE AND KENTUCKY
Erin Bloom, Rebecca Blanton Johansen, John Johansen, and Mollie Cashner
- 9:00 SWIMMING ABILITY OF LARVAL AND JUVENILE SICKLEFIN REDHORSE
Tomas J. Ivasauskas, Thomas J. Kwak, and Patrick L. Rakes
- 9:20 LAKE WACCAMAW ENDEMIC AND THE ARRIVAL OF INVASIVE SPECIES
Ryan J. Heise and Ed Corey

9:40-10:00 Break

SESSION IV -- Genetics / Evolution, Anna George, TNACI, Moderator

- 10:00 SOUTHERN SANDER: EVIDENCE FOR A CRYPTIC SPECIES OF WALLEYE IN THE MOBILE BASIN
Raymond Simpson, Thomas Near, and Steve Rider
- 10:20 REVEALING WHAT LIES BENEATH: UTILIZING ENVIRONMENTAL DNA (EDNA) TO DETECT RARE FISHES IN LOUISIANA
Erica N. Rottmann and Kyle R. Piller
- 10:40 THE INFLUENCE OF PHYLOGENY ON MINNOW MORPHOLOGY, ECOLOGY, AND PHYSIOLOGY
Edward D. Burress, Jordan M. Holcomb, and Jonathan W. Armbruster
- 11:00 COMPARISON OF HISTORIC AND CONTEMPORARY MOLECULAR METHODS TO ASSESS NORTH CAROLINA'S BROOK TROUT
Jacob Rash, Barbara Lubinski, and Tim King
- 11:20 POPULATION STRUCTURE OF SICKLEFIN REDHORSE (*MOXOSTOMA* SP.) IN THE TUCKASEGEE, LITTLE TENNESSEE, AND HIWASSEE RIVER DRAINAGES
Sandra Bohn, Ashantyé S. Williams, and Gregory R. Moyer
- 11:40 POPULATION GENETIC PATTERNS OF *SEMOTILUS ATROMACULATUS* ACROSS SIX DRAINAGES IN MISSISSIPPI AND ARKANSAS
Bjorn Schmidt, Jake Schaefer, and Brian Kreiser
- 12:00 TAXONOMIC STATUS OF THE SNUBNOSE DARTERS *ETHEOSTOMA SIMOTERUM* AND *E. TENNESSEENSE*
Thomas J. Near, Ethan France, and Richard C. Harrington

LUNCH 12:20-1:30 pm

1:30 Announcements and Student Best Papers and Posters Awards: Bryn Tracy, NCDENR

SESSION V – Management, Brena Jones, NCWRC, Moderator

1:40 USING A NON-GOVERNMENTAL ORGANIZATION AS A CATALYST FOR STREAM HABITAT ENHANCEMENT ON PRIVATE LANDS
Jason Meador

2:00 BUNDLING FISHES: WHAT CAN WE LEARN ABOUT MADTOMS AND DARTERS?
Andrew L. Sheldon, Melvin L. Warren, Jr., Wendell R. Haag

2:20 THE EFFICACY OF SMALL-SCALE REMOVAL OF AN INVASIVE SPECIES (REDBREAST SUNFISH (*LEPOMIS AURITUS*)) BY ELECTROFISHING
Miranda Aiken, Thomas Martin, and Rachael Woods

2:40 DAM REMOVAL: A GUIDE TO EFFECTIVE RESTORATION AND PRIORITIZATION
Erin McCombs

3:00 A NEW FRAMEWORK TO EVALUATE AND AVERT RISKS TO FRAGMENTED POPULATIONS OF STREAM FISH
James H. Roberts

3:20 – 3:40 Break

SESSION VI – Habitats, Thomas Russ, NCWRC, Moderator

3:40 RESTORING HABITATS AND RECOVERING SPECIES ONE SHU AT A TIME
Jeffrey R. Powell, Patrick E. O’Neil, and Paul D. Johnson

4:00 BURROWING SITE SELECTION BY JUVENILE *CAMBARUS DIOGENES*: THE ROLE OF CHIMNEYS AND HERDING
Mallary Clay, Jim Stoeckel, and Brian Helms

4:20 EEL LADDERS AND DAM PASSAGE OF UPSTREAM MIGRANT AMERICAN EELS IN THE SHENANDOAH RIVER DRAINAGE
Stuart A. Welsh and Joni. L. Aldinger

4:40 FISH COMMUNITY MONITORING ASSOCIATED WITH THE REMOVAL OF THE DILLSBORO DAM, TUCKASEGEE RIVER, NC
David J. Coughlan, Barry K. Baker, D. Hugh Barwick, and Gene E. Vaughan

5:00 Safe travels!

Posters:

CAPTIVE PROPAGATION AND REINTRODUCTION OF THE KENTUCKY ARROW DARTER, *ETHEOSTOMA SPILOTUM*, IN THE UPPER KENTUCKY RIVER DRAINAGE, CLAY COUNTY, KENTUCKY
Matthew R. Thomas, Stephanie L. Brandt, Patrick L. Rakes, J.R. Shute, Crystal L. Ruble, Melissa A. Petty

CONSERVATION STATUS OF THE EGG-MIMIC DARTER (*ETHEOSTOMA PSEUDOVULATUM*)
Zachary Wolf and Rebecca Blanton Johansen

CONSERVATION AND HABITAT USE OF COASTAL PLAIN MADTOMS
Shawn Patrick Settle and Rebecca Blanton Johansen

LONG-TERM SPOTFIN CHUB MONITORING IN THE LITTLE TENNESSEE RIVER, NC: OVERVIEW AND RESULTS FOR EIGHT YEARS
T.R. Russ and Steve Fraley

CHANGES IN LAND USE AND FISH ASSEMBLAGES IN SYLAMORE CREEK OVER A THIRTY-NINE YEAR PERIOD
Heather Allaben Saco, Ginny Adams, Reid Adams

INFLUENCE OF LAND USE AND STREAM PHYSICOCHEMICAL HABITAT ON NEW RIVER FISH COMMUNITIES
Gary Pandolfi, Jason Selong, M. Worth Pugh, Thomas Franklin, Daniel Mason and Michael M. Gangloff

LIFE-HISTORY ASPECTS OF *CHROSOMUS OREAS*, MOUNTAIN REDBELLY DACE, IN CATAWBA CREEK, VA
Shelby Hargrave, Gregory Morgan, and Steven L. Powers*

PRELIMINARY ECOLOGICAL ENDPOINT CURVES FOR THE CUMBERLAND PLATEAU OF ALABAMA
David C. Werneke, Eric F. Bauer, Jason M. Zink, Eve F. Brantley, Greg D. Jennings, and Brian S. Helms

RESTORATION AND REVITALIZATION OF THE ARKANSAS STATE UNIVERSITY MUSEUM OF ZOOLOGY ICHTHYOLOGY COLLECTION
Starlene M. Loerch, John L. Harris, Tracy Klotz, and Brook L. Fluker

TRADITIONAL SAMPLING DETECTION VS. ENVIRONMENTAL DNA DETECTION
Mariah O. Pflieger, Carol E. Johnston, Steven J. Rider, Alexis M. Janosik

DETECTION OF RARE AQUATIC SPECIES: USING ENVIRONMENTAL DNA TO LOCATE POPULATIONS OF ALABAMA AND GULF STURGEON
Alexis M. Janosik, Carol E. Johnston, Steven J. Rider

DEVELOPMENT AND TESTING OF SAMPLING TECHNIQUES FOR MONITORING SICKLEFIN REDHORSE (UNDESCRIBED *MOXOSTOMA*) IN BRASSTOWN CREEK, GEORGIA
Austin Farley, William Leatherwood, and Johnathan Davis

PRELIMINARY DATA FOR DIAGNOSING PUTATIVE LINEAGES OF THE SOUTHERN CAVEFISH (*TYPHLICHTHYS SUBTERRANEUS*) IN ALABAMA
Pamela Hart, Jonathan Armbruster

GEOMETRIC MORPHOMETRICS OF THE BROADSTRIPE SHINER, *PTERONOTROPIS EURYZONUS* (SUTTKUS, 1955), AND OTHER MEMBERS OF *PTERONOTROPIS* IN THE SOUTHEAST
Malorie M. Hayes, Brendan J. Gould, Jonathan W. Armbruster

GENETIC AND MORPHOLOGICAL DIVERSITY IN THE IMPERILED STRIATED DARTER *ETHEOSTOMA STRIATULUM*

Thomas J. Near

QUANTITATIVE MICROSCOPIC ANALYSIS OF DARTER (PERCIDAE: ETHEOSTOMATINAE) SCALE MORPHOLOGY

Courtney Weyand, Zachary Holtel, Eva Grebe, Sarah Lundin-Schiller and Rebecca Blanton Johansen

SEEKING TAXONOMIC RESOLUTION: IS *ORCONECTES CF. BARRENENSIS* FROM THE RED RIVER (CUMBERLAND RIVER) OF TENNESSEE A DISTINCT SPECIES OF CRAYFISH

Brittany McCall, Erin Bloom, Rebecca Blanton Johansen, and John Johansen

* Presenter