

POSTER PRESENTATIONS

*Presenter

- 1. Assessing the Utility of Otolith Microchemistry on Invasive Carps in the Red River**
Yahua Zhu* (Wuxi Fisheries College), Hae H. Kim (Missouri State University), Kristen Sardina (US Fish and Wildlife Service), Samantha Hannahbass (US Fish and Wildlife Service), Brian Fillmore (US Fish and Wildlife Service), Stephen Banaszak, Jian Yang (Chinese Academy of Fisheries Science), and Quinton E. Phelps (Missouri State University)
- 2. Sampling Techniques and Habitat Types for Young of Year Black Carp (*Mylopharyngodon piceus*) in the Coastal Plain Province of Western Kentucky**
Matthew Dollenbacher* (Kentucky Department of Fish and Wildlife (KDFWR)), Matthew R. Thomas (KDFWR), Joshua Tompkins (KDFWR)
- 3. Mitogenomes derived via genome skimming reveal a complicated history for *Cambarus longulus***
Paul R Cabe* (Washington and Lee University), David Foltz (Environmental Solutions and Innovations), Bronwyn W. Williams (North Carolina Museum of Natural Sciences)
- 4. Annual estimates of effective number of breeders in systems across the range of the Gulf Sturgeon**
Kobe White* (University of Southern Mississippi), Jacob Zona (University of Southern Mississippi), Brian Kreiser (University of Southern Mississippi)
- 5. Range Extension of Endangered Fountain Darter *Etheostoma fonticola***
Lauren Chappell* (Texas State University), Elibardo Leal (Texas State University), Joshua D. Tivin (Texas State University), Timothy H. Bonner (Texas State University)
- 6. Mussel community and water quality within a southcentral river basin of North America with emphasis on two federally proposed species**
Caitlin N. Schoeck^{1*}, Kyle T. Sullivan², Jubentino Guajardo³, Brad M. Littrell², Bill Kirby³, Alan W. Groeger¹, and Timothy H. Bonner¹, ¹ Department of Biology, Texas State University 601 University Drive, San Marcos, Texas 78666-4684, U.S.A, 2BIO-WEST, Inc 1405 United Drive, Suite 111 San Marcos, Texas 78666-2834, 3Sabine River Authority 450 TX-135 Spur, Burkeville, Texas 75932, U.S.A
- 7. Evaluation of Cypress Tree Survival Rates at Kentucky Lake and Lake Barkley**
Nick Simpson* (Kentucky Department of Fish and Wildlife Resources), Adam Martin (Kentucky Department of Fish and Wildlife Resources), Justin Graben (Murray State University), Scott Starr (Kentucky Department of Fish and Wildlife Resources)
- 8. Assessing the accuracy of gonadosomatic index (GSI) staging for maturity and age at first maturity in summer flounder, *Paralichthys dentatus***
Julian Quinones* (Virginia Tech), Hailey Conrad (Virginia Tech), Holly Kindsvater (Virginia Tech)
- 9. Hauling away the Blues- Evaluating the use of a commercial haul seine fishery as a management tool for tilapia in Upper St Johns River Lakes**
Arthur Bernhardt* (Florida Fish and Wildlife Conservation Commission) Reid Hyle (Florida Fish and Wildlife Conservation Commission)
- 10. Preliminary Life-History Characteristics for Bigeye Scad in Southeast Florida**
Mariah France (Nova Southeastern University), Nicole Kirchoff (Live Advantage Bait LLC), David Kerstetter (Nova Southeastern University)

- 11. Developing a standardized quantitative framework for evaluating imperilment of southeastern crayfishes**
S.E. Cathey* (North Carolina Cooperative Fish and Wildlife Research Unit; North Carolina State University, Department of Applied Ecology, Raleigh, North Carolina), M.E. Colvin (U.S. Geological Survey, Columbia Environmental Research Center, Columbia, Missouri), and C.G. Dunn (U.S. Geological Survey, North Carolina Cooperative Fish and Wildlife Research Unit; North Carolina State University, Department of Applied Ecology, Raleigh, North Carolina)
- 12. Monitoring river herring abundance in a Virginia tidal river using fishway electronic counts**
L. Alan Weaver (Virginia Department of Wildlife Resources), Matthias Gaffney* (Virginia Department of Wildlife Resources), and Tim Owen (Virginia Department of Wildlife Resources)
- 13. Utilizing Fisheries Management Data to Implement On-Farm Conservation Practices in the Upper Chattahoochee Watershed**
*Eason, N.1, Hibbs, G.1, MacAllister, C. 1 *Patrick, S.1, C.1, Pennisi, B.1, Wunderly, M. 1, Bowen B.B.2, Kaiser, C.2, Roop, H.J.2, Severens, D.2, Ewing T.3, Darling, J. 4, Peoples, B. 5, Taylor, A.6, Shelton, J.L.7, Brown, C.8, McCay, J.8, Biagi, J.9, 1 UGA Extension – College of Agricultural & Environmental Sciences, 2 Georgia Department of Natural Resources, Wildlife Resources Division, Freshwater Biodiversity Program, 3 Southeast Aquatic Resources Partnership, 4 Unicoi Outfitters, 5 Clemson University College of Agriculture, Forestry, & Life Sciences, 6 University of North Georgia, Dahlonega, 7 UGA Warnell School of Forestry and Natural Resources, 8 USDA Natural Resources Conservation Service, 9 Gwinnett County Department of Water Resources
- 14. Following fishes: engaging stakeholders in fisheries research**
Samantha Hagedorn*, Danielle Morley, Alejandro Acosta (Florida Fish and Wildlife Conservation Commission)
- 15. Temporal assessment of fish communities in the headwaters of a South-Central Plains ecoregion watershed**
Tara L. Schnelting* (Arkansas Tech University), Kyle B. Hecke (Arkansas Tech University)
- 16. Fostering data sharing and scoping needs assessment through simple digital tools: A case study with an acoustic telemetry lookup tool**
Evan C. Boone* (U.S. Fish and Wildlife Service) and Caleb A. Aldridge (U.S. Fish and Wildlife Service)
- 17. A Comparison of Freshwater Mussel Species Detection and Abundance Across Different Survey Methods**
Hunter Torolski*(Oklahoma State University), James M. Long and Robert Lonsinger (U.S. Geological Survey, Oklahoma Cooperative Fish and Wildlife Research Unit) and Lindsey Bruckerhoff (Ohio State University)
- 18. I spy with my IBI: Application of fish bioassessment across an urban-rural gradient in a watershed spanning multiple ecoregions**
Olivia Reves* (University of Illinois-current, University of Texas at San Antonio-former)
- 19. Temporal Fish Assemblage Patterns Associated with Fluctuating Flow in a Cumberland River Watershed in Tennessee**
Mark Rine* (Tennessee Tech University), Kit Wheeler (Tennessee Tech University)
- 20. Stream Restoration on Cub Creek, tributary to Hatchie Scenic River, in Middleton, TN**
Kimberly Rios Rosado* (West TN River Basin Authority), Kayla Key (West TN River Basin Authority), Amy Alford (West TN River Basin Authority), Kris Gordon (West TN River Basin Authority), and David Blackwood (West TN River Basin Authority)
- 21. Assessing aquatic organism passage (AOP) of culverts in degraded streams of West Tennessee**
Caitlin Scott*, Kayla Key, Kimberly Rios Rosado, Amy Alford

- 22. Movement of bighead carp in response to a flow field produced by a half-cylinder**
Fred Martin* (US Army Corps of Engineers, Engineer Research and Development Center), Olivia Douell (US Army Corps of Engineers, Engineer Research and Development Center), James Biedenbach (US Army Corps of Engineers, Engineer Research and Development Center), Christa Woodley (US Army Corps of Engineers, Engineer Research and Development Center), David Smith (US Army Corps of Engineers, Engineer Research and Development Center)
- 23. A Potential Unifying Model to Assess Fish Thermal Tolerance**
Jacob Daley* (Clemson University), Luke Bower (United States Geological Survey), Troy Farmer (Clemson University)
- 24. Validating Shortnose Sturgeon (*Acipenser brevirostrum*) Age Estimates from Known Age Fish**
Hunter Rider* (University of Georgia), Adam Fox (University of Georgia), Martin Hamel (University of Georgia)
- 25. Influences of environmental variation on estuarine nekton assemblages in the Guadalupe River Delta, Texas**
Kyle Sullivan*, Bradley Littrell, Edmund Oborny (BIO-WEST, Inc.)
- 26. Predictors of angler catch and effort in Texas black bass fisheries**
David R. Smith (LSU), Mitch Nisbet (TPWD), Randy Myers (TPWD), J. Warren Schlechte (TPWD), Stephen R. Midway (LSU), Michael A. Dance (LSU)
- 27. Evaluating the efficacy of regional models in predicting flow regimes in ungaged catchments of West Tennessee**
Amy B. Alford (West TN River Basin Authority), Kayla Key (West TN River Basin Authority), Kimberly Rios Rosado (West TN River Basin Authority), David Blackwood (West TN River Basin Authority)
- 28. Distribution and habitat associations of *Procambarus pearsei* and *P. braswelli* and range overlap with invasive Red Swamp Crayfish (*P. clarkii*) in Southeastern North Carolina**
Robert Adams* (Appalachian State University), Sidney Busch (Appalachian State University), Elijah Thompson (Appalachian State University), Robert Creed (Appalachian State University), Michael Gangloff (Appalachian State University)
- 29. Assessment of Fish Movement in Relation to Barriers in the Upper Illinois Bayou Watershed**
Risa McCollough* (Arkansas Tech University) and Kyler Hecke (Arkansas Tech University)
- 30. Crayfish Conservation in Kentucky**
Michael C. Compton* (Office of Kentucky Nature Preserves), Zach Couch* (Kentucky Department of Fish and Wildlife Resources), David Hayes (Eastern Kentucky University)
- 31. CPUE of Invasive Silver and Bighead Carp in Kentucky and Barkley Lakes**
Joshua Tompkins (Kentucky Department of Fish and Wildlife Resources), Matthew Dollenbacher (Kentucky Department of Fish and Wildlife Resources)
- 32. Offshore movements and potential spawning behaviors of southern flounder inferred from archival satellite tags**
Eric Taylor* (University of North Carolina, Wilmington), Mason Collins (University of North Carolina, Wilmington), Anne Markwith (NCDEQ), Micheal Loeffler (NCDEQ), and Frederick S. Scharf (University of North Carolina, Wilmington)
- 33. Minimum Length Evaluation of Stockton Lake Crappie**
Chase Forck (Missouri State University), Grant Schmitz (Missouri State University), Hae H. Kim (Missouri State University), T. Ben Parnell (Missouri Department of Conservation), and Quinton E. Phelps* (Missouri State University)
- 34. Assessing Stream Health: What More Can Fish Assemblage Tell Us About Kansas Streams?**
Aaron Walker, Caitlin Schoeck, Alexander Bornstein, Elizabeth Smith (Kansas Department of Health and Environment)

- 35. Utility of side-scan and down-scan sonar for monitoring Paddlefish**
Wyatt Wolfenkoehler* (Oklahoma State University, Stillwater) James M. Long (US Geological Survey, Oklahoma Cooperative Fish and Wildlife Research Unit), Lindsey A. Bruckerhoff (US Geological Survey, Oklahoma Cooperative Fish and Wildlife Research Unit), Robert C. Lonsinger (US Geological Survey, Oklahoma Cooperative Fish and Wildlife Research Unit), Patrick Joyce (Oklahoma State University, Stillwater), Ryan Gary (Arkansas Game and Fish Commission), Richard A. Snow (Oklahoma Department of Wildlife Conservation), Jason D. Schooley (Oklahoma Department of Wildlife Conservation)
- 36. Combining spatial gradients and sparse time series data to predict fish assemblage response to increasing aridity**
Thomas A. Dodson* (Department of Ecology and Conservation Biology, Texas A&M University, College Station, TX), Jacob Barret (Department of Ecology and Conservation Biology, Texas A&M University, College Station, TX), Noah Santee (Department of Ecology and Conservation Biology, Texas A&M University, College Station, TX), David Smith (Environmental Research & Development Center, U.S. Army Corps of Engineers, Vicksburg, MS), Joshua S. Perkin (Department of Ecology and Conservation Biology, Texas A&M University, College Station, TX)
- 37. New Vs. Old: Comparing eDNA metabarcoding with conventional electrofishing sampling to monitor fishes in headwaters of Western Tennessee**
Tony Kumetis* (Tennessee Tech University, Department of Biology), Kit Wheeler (Tennessee Tech University, Department of Biology), Robert T. Paine (Cooperative Research Fishery Unit, Tennessee Tech University), Kayla Key (West Tennessee River Basin Authority, Tennessee Department of Environment and Conservation), and Amanda Rosenberger (U.S. Geological Survey, Cooperative Fishery Research Unit, Tennessee Tech University)
- 38. Analyzing Gizzard Shad *Dorosoma cepedianum* Populations in Two Kentucky Reservoirs Affected by the Infiltration of Silver Carp *Hypophthalmichthys molitrix***
Justin Graben* Graduate student Timothy Spier PhD Associate Professor
- 39. Uncharted waters: high-resolution stream networks reveal habitats for petitioned headwater crayfish**
Devin M. Raburn* (North Carolina Cooperative Fish and Wildlife Research Unit; North Carolina State University, Department of Applied Ecology, Raleigh, NC), Hafez Ahmad (Mississippi State Cooperative Fish and Wildlife Research Unit; Mississippi State University, Department of Wildlife, Fisheries, and Aquaculture, Mississippi State, MS), Patrick F. Allison Jr. (Department of Biology, University of Mississippi, University, MS), Susan B. Adams (USDA Forest Service, Southern Research Station, Center for Bottomland Hardwoods Research, Oxford, MS), Zanethia C. Barnett (USDA Forest Service, Southern Research Station, Center for Bottomland Hardwoods Research, Oxford, MS), Ryan C. Garrick (Department of Biology, University of Mississippi, University, MS), Kenneth A. Sterling (USDA Forest Service, Okanogan-Wenatchee National Forest, Naches Ranger District, Naches, WA), Sara Cathey (North Carolina Cooperative Fish and Wildlife Research Unit; North Carolina State University, Department of Applied Ecology, Raleigh, NC), Michael E. Colvin (U.S. Geological Survey, Columbia Environmental Research Center, Columbia, MO), Corey G. Dunn (U.S. Geological Survey, North Carolina Cooperative Fish and Wildlife Research Unit; North Carolina State University, Department of Applied Ecology, Raleigh, NC)
- 40. PING-Mapper: Efficient and Reproducible Substrate Mapping with Recreation-grade Sonar Systems**
Cameron S. Bodine* (Northern Arizona University), Daniel Buscombe (Northern Arizona University)
- 41. The Middle Collins River is not as barren as we thought: Assessment of a newly discovered population of the Barrens Topminnow (*Fundulus julisia*)**
Kirsten Humphries* (Tennessee Tech University), Kit Wheeler (Tennessee Tech University)
- 42. Can eDNA be used to locate Shawnee Cavefish?**
Megan Brandt* (Murray State University), Dr. Timothy Spier (Murray State University)
- 43. Land Use Impacts on Fish Communities in the Arkansas Valley Ecoregion: A Preliminary Analysis**
Jarrett Tallent* (University of Central Arkansas), Ryne Lehman (University of Central Arkansas), Ginny Adams (University of Central Arkansas), Reid Adams (University of Central Arkansas)

- 44. Conditional Occupancy and Habitat Selection of the Rocky Shiner, *Notropis suttkusi*, in Arkansas**
Savannah Wise* (Arkansas Tech University), John Jackson (Arkansas Tech University)
- 45. Temporal and spatial patterns of larval fish assemblages across a river-reservoir continuum**
Madison Niles* (Clemson University), Luke Bower (USGS South Carolina Cooperative Fish & Wildlife Research Unit, Clemson University)
- 46. The development of triploidy induction methods for hybrid Striped bass production**
Samuel Garcia-Vazquez* (University of Arkansas at Pine Bluff), David Straus (United States Department of Agriculture), Dayan A. Perera (University of Arkansas at Pine Bluff)
- 47. Assessment of barriers to connectivity in Alabama's Uphapee Creek watershed**
Susan Fuller (Troy University), Josiah Gullatte (Auburn University), Colin Nunn (Troy University), Daniel West (Geological Survey of Alabama), James Stoeckel (Auburn University), and Kaelyn Fogelman (Troy University)
- 48. Genetic Analysis of *Cambarus aff. dubius* in Kentucky using RADseq Methodologies**
Kathryn Schulz* (Department of Organismal Biology, Ecology, and Zoo Sciences, West Liberty University), Eric Ng (Department of Organismal Biology, Ecology, and Zoo Sciences, West Liberty University), Nicole Garrison (Department of Organismal Biology, Ecology, and Zoo Sciences, West Liberty University), Zachary Loughman (Department of Organismal Biology, Ecology, and Zoo Sciences, West Liberty University)
- 49. Geomorphic and Ecological Responses of a Small Dam Removal**
Emily Chalfin* (University of Georgia), Seth Wenger (University of Georgia, Odum School of Ecology), Rhett Jackson (University of Georgia, Warnell School of Forestry and Natural Resources)
- 50. Impact of land management on *Distocambarus crockeri* (Piedmont prairie burrowing crayfish) burrow density in Sumter National Forest**
Eric Ng* (Department of Organismal Biology, Ecology, and Zoo Science, West Liberty University), Kathryn Schulz (Department of Organismal Biology, Ecology, and Zoo Science, West Liberty University) Zanethia Barnett (USDA Forest Service, Southern Research Station, Center for Bottomland Hardwoods Research, Oxford MS), Zachary Loughman (Department of Organismal Biology, Ecology, and Zoo Science, West Liberty University)
- 51. First dedicated survey of the Upper Guyandotte River for *Cambarus veteranus* (Guyandotte River Crayfish)**
Montana Fonner* (West Liberty University), Zachary Loughman (West Liberty University)
- 52. Scale-dependent tradeoffs between habitat and time in explaining Alligator Gar (*Atractosteus spatula*) movement**
Hayden Roberts* (Department of Ecology and Conservation Biology, Texas A&M University), Johnathan Ellard (Department of Ecology and Conservation Biology, Texas A&M University), Daniel Daugherty (Inland Fisheries Division, Texas Parks and Wildlife Department), Matthew Acre (U.S. Geological Survey, Columbia Environmental Research Center), and Joshua Perkin (Department of Ecology and Conservation Biology, Texas A&M University)
- 53. Hydrodynamics and Fish Assemblage Fluxes in a Forested Riverscape**
Blake Elzi* (Texas A&M University), Hannah Evans (Texas A&M University), Lucas Stevens (Texas A&M University), Joshua Perkin (Texas A&M University)
- 54. A Statistical Model to Assess Juvenile Atlantic Sturgeon Age Based on Length and Julian Day**
Alan Bond* (University of Georgia), Adam Fox (University of Georgia), Martin Hamel (University of Georgia)
- 55. Does Rio Grande Cichlid (*Herichthys cyanoguttatus*) induce trophic niche shifts in native centrarchids?**
Jacob Wolff* (Texas A&M University), Joshua Perkin (Texas A&M University), Chris Johnson (Living Waters Fly Fishing)

- 56. Identifying Drivers of Arapaima Population Dynamics in a Floodplain Ecosystem**
Emma A. Hultin* (Virginia Tech), George Brooks (Virginia Tech), Holly K. Kindsvater (Virginia Tech), Leandro Castello (Virginia Tech)
- 57. Silver Carp Hypophthalmichthys molitrix movements in the Lower Cumberland River and Lower Tennessee River**
Miranda Belanger* (Murray State University), Tim Spier (Murray State University)
- 58. Assessment of Barriers to Connectivity in Alabama's Uchee Creek Watershed**
Colin Nunn (Troy University), Josiah Gullatte (Auburn University), Susan Fuller (Troy University), Daniel West (Geological Survey of Alabama), James Stoeckel (Auburn University), Katelyn Lawson (Auburn University), and Kaelyn Fogelman (Troy University)
- 59. Effects of prolonged holding in recirculating aquaculture systems on spawning efficiency of wild White Crappie (Pomoxis annularis)**
Matthew E. Nichols* (Mississippi State University, Starkville), Charles C. Mischke (Mississippi State University), Sandra B. Correa (Mississippi State University), Peter J. Allen (Mississippi State University)
- 60. U.S. INLAND CREEL PROGRAMS: A REGIONAL COMPARISON AND BEST PRACTICES**
Anna L. Kaz* (Louisiana State University), Nicholas A. Sievert (USGS National Climate Adaption Science Center), Abigail J. Lynch (USGS National Climate Adaption Science Center), Stephen R. Midway (Louisiana State University), David R. Smith (Louisiana State University), Holly S. Embke (USGS Midwest Climate Adaption Science Center), Matthew D. Robertson (Fisheries and Marine Institute of Memorial University of Newfoundland), Lyndsie Wszola (University of Missouri), Craig P. Paukert (University of Missouri)
- 61. Effects of Extreme Flow Events on Community Composition and Habitat Complexity in Groundwater Dominated Systems**
Josh Tivin* (Texas State University), Timothy Bonner (Texas State University)
- 62. Responses of Fishes to Multiple Barrier Removals on War Eagle Creek**
Claire Binfield* (University of Central Arkansas), Ginny Adams (University of Central Arkansas), Reid Adams (University of Central Arkansas)
- 63. Examining spatial heterogeneity in the summer flounder sex ratio using fishery-independent data**
Hailey Conrad* (Virginia Tech), Holly Kindsvater (Virginia Tech)
- 64. Determining Minimum Habitat Availability for Muskellunge in North Carolina**
Delaney Whitson* (Western Carolina University), Keith Gibbs (Western Carolina University)
- 65. Investigating Batrachochytrium dendrobatidis presence in Mississippi crayfish and exploring bounds of critical temperature possibly affected by Batrachochytrium dendrobatidis load**
Lauren M. Flood* (Department of Biology, University of Mississippi, University, MS), Ashlyn K. Silliman (Department of Biology, University of Mississippi, University, MS), Arma'Rosa R. Mohead (Department of Biology, University of Mississippi, University, MS), Patrick Allison F. Jr. (Department of Biology, University of Mississippi, University, MS), Michel E.B. Ohmer (Department of Biology, University of Mississippi, University, MS)
- 66. Non-invasive Survey of Walleye in the Tennessee-Tombigbee Waterway**
Austin Lisowski* (Mississippi State University), Michael Sandel (Mississippi State University)

- 67. Assessment of stream fish assemblage responses to hydrologic variability and disturbances in the Ichawaynochaway Creek Watershed, GA**
Jake R. Duhé* (School of Renewable Natural Resources, Louisiana State University), Garrett W. Hopper (School of Renewable Natural Resources, Louisiana State University and Agricultural Center), Carla L. Atkinson (Department of Biological Sciences, University of Alabama)
- 68. Trophic dynamics of an expanding population of invasive blue catfish in Albemarle Sound, North Carolina**
Nolen Vinay* (University of North Carolina Wilmington), Cami Miller*(East Carolina University) Frederick S. Scharf (University of North Carolina Wilmington), James W. Morley (East Carolina University)
- 69. Use of secondary pectoral fin rays to age Atlantic sturgeon: examining section thickness to improve the clarity of annuli distinction**
Marc Chelala* (UNCW), Joseph Mathews (UNCW), Frederick Scharf (UNCW)
- 70. Optimizing environmental DNA assays for Atlantic Sturgeon: a pilot study in the Ocmulgee River, Georgia**
Taylor Faherty* (1), Adam Fox (1), James Shelton (1), Wesley Gerrin (1), Sarah McNair (1), Kayla Evans (1), Miluska Olivera-Hyde (2), David Kazyak (2), Brian Shamblin (1); 1 Warnell School of Forestry and Natural Resources, University of Georgia; 2 U.S. Geological Survey, Eastern Ecological Science Center
- 71. Detection and Modeling of Darters and Madtoms: eDNA Surveillance of Imperiled Southeastern US Fishes**
Hannah Swain-Menzel¹, Robert T. R. Paine¹, and Amanda E. Rosenberger²; ¹ Cooperative Fishery Research Unit, Tennessee Tech University, Cookeville, TN; ² U.S. Geological Survey, Cooperative Fishery Research Unit, Tennessee Tech University, Cookeville, TN
- 72. Effects of anthropogenic stream barriers on Sandhills Chub (*Semotilus lumbee*) population genetics**
Riley Phelps* (Coastal Carolina University), Derek Crane (Coastal Carolina University), Tanya Darden (South Carolina Department of Natural Resources), Mark Scott (South Carolina Department of Natural Resources), Brena Jones (North Carolina Wildlife Resources Commission), Charles Bryan (Fort Liberty Endangered Species Branch), and John Hutchens (Coastal Carolina University), Zach Ramsey (Coastal Carolina University)
- 73. Angler attitudes toward longnose gar in Virginia's recreational fisheries: Ecological outcomes and management implications**
Lily Casteen* (Virginia Tech- College of Natural Resources and Environment), Jeff Williams (Virginia Department of Wildlife Resources), Dr. Elizabeth Nyboer (Virginia Tech- College of Natural Resources and Environment)
- 74. Looking for Lazarus: Environmental DNA (eDNA) surveillance of the federally threatened Slender Chub (*Erimystax cahni*) in the Clinch River and Powell Rivers**
Robert T. R. Paine¹ and Mark W. Rogers²; ¹ Cooperative Research Fishery Unit, Tennessee Tech University, 1100 N. Dixie Ave, Box 5114, Cookeville, TN 38505, United States; ² U.S. Geological Survey, Cooperative Fishery Research Unit, Tennessee Tech University, 1100 N. Dixie Ave, Box 5114, Cookeville, TN 38505, United States
- 75. Microhabitat Use of the Highland Darter (*Etheostoma teddyroosevelt*) in the Illinois Bayou Watershed of Arkansas**
Colton W. Morris* (Arkansas Tech University), Kyler Hecke (Arkansas Tech University)
- 76. Quantifying Movement of Seven Imperiled Pelagic-Broadcast Spawning Fishes in Three Great Plains Rivers**
Lucas Stevens* (Texas A&M University), Dr. Zachary Steffensmeier (Ohio State University), Kevin B. Mayes (Texas Parks and Wildlife Department), Dr. Joshua Perkin (Texas A&M University)

- 77. Movement and Habitat Use of Lemon Sharks (*Negaprion brevirostris*) in Mississippi Coastal Waters**
Lindsay K. Bomgardner,*(1,2), Paul O. Grammer(1), Angie M. Hoover(1), Jeremy M. Higgs(1), Jill M. Hendon(1), Micheal J. Andres(2), 1 Center for Fisheries Research and Development, The University of Southern Mississippi, Ocean Springs, MS 39564, 2 Division of Coastal Sciences, The University of Southern Mississippi, Ocean Springs, MS 39564
- 78. Evidence of an extant spring-spawning population of Atlantic sturgeon in a southeastern North Carolina river**
Joseph A. Mathews* (University of North Carolina, Wilmington), Joseph J. Facendola (North Carolina Division of Marine Fisheries), Aaron Bunch (Clemson University), Troy Farmer (Clemson University), David C. Kazyak (U.S. Geological Survey), and Frederick S. Scharf (University of North Carolina, Wilmington)
- 79. Evaluation of passage efficiency and migration of striped bass in relation to a modified nature-like fish swimway and elevated flows in the Cape Fear River**
Gabrielle Shay* (University of North Carolina-Wilmington), Maggie Gaither (Clemson University), Troy Farmer (Clemson University), and Frederick Scharf (University of North Carolina-Wilmington)
- 80. Stomach Content Analysis of the Non-Native Mayan Cichlid (*Mayaheros urophthalmus*) in Wolf Branch Creek Nature Preserve, Tampa, Florida**
Adam Cieslik* (The University of Tampa), Mark McRae (The University of Tampa)
- 81. Spatial Assessment of Slender Madtom (*Noturus exilis*) Diets within the Illinois Bayou Watershed**
Kade B. Mitchell* (Arkansas Tech University), Kyler B. Hecke (Arkansas Tech University)
- 82. Mate Choice as a Driver of Reproductive Isolation in *Fundulus notatus* and *Fundulus olivaceus***
C. E. Davis (University of Southern Mississippi honors scholar), Emilee Holderness* (University of Southern Mississippi graduate research assistant), and Jacob Schaefer (University of Southern Mississippi director & professor and curator of fishes)
- 83. Assessment of Aquatic Macroinvertebrate Assemblages in the Upper Illinois Bayou Watershed of Arkansas**
Coley Turner* (Arkansas Tech University), Risa McCollough (Arkansas Tech University), and Kyler Hecke (Arkansas Tech University)
- 84. Assessing vulnerability to overfishing of the top imported marine ornamental species into the US using productivity susceptibility analysis**
Alice A. Wynn (University of Massachusetts-Boston), Gabrielle A. Baillargeon (Roger Williams University), Jemelyn Grace P. Baldesimo* (Old Dominion University), Michael F. Tlusty (University of Massachusetts-Boston), Andrew L. Rhyne (Roger Williams University)
- 85. Estimation of Sportfish Populations in an Unmanaged Farm Pond in Arkansas**
Karson Hamilton* (Arkansas Tech University) and Kyler Hecke (Arkansas Tech University)
- 86. Machine Learning, Longlining Fishing Tactics, and Seabird Bycatch Risk**
Iman Pakzad* (Department of Fish and Wildlife, Virginia Tech), Joan Browder (NOAA, Southeast Fisheries Center), Yan Jiao (Department of Fish and Wildlife, Virginia Tech)
- 87. RAPID ASSESSMENT OF MUSSEL COMMUNITIES OF TWO TRIBUTARIES IN THE ARKANSAS SOUTH CENTRAL PLAINS Ecoregion**
Jimmy Hall* (Arkansas Tech University), Seth Drake (Arkansas Tech University), Kyler Hecke (Arkansas Tech University), Parker Brannon (Arkansas Tech University), Savannah Wise (Arkansas Tech University), and Tom Nupp (Arkansas Tech University)

88. Native crayfish morphological variation in relation to dams and introduced species

Rachel Simpson (Troy University), Riley Egan (Troy University), Zanethia Barnett (US Forest Service), Brian Helms (Troy University)

89. Reproductive Life History of *Pleurobema riddellii*

Alex Zalmat, Camelle Garner*, Clementine Adams, Timothy Bonner

90. Mitogenome Surveillance of Invasive and Endangered Fishes in the Southeastern United States

Tobin J. Davidson (Wildlife, Fisheries, and Aquaculture, Mississippi State University), Kayla M. Fast (Wildlife, Fisheries, and Aquaculture, Mississippi State University), Michael W. Sandel (Forest and Wildlife Research Center, Mississippi State University & Wildlife, Fisheries, and Aquaculture, Mississippi State University)