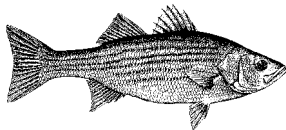
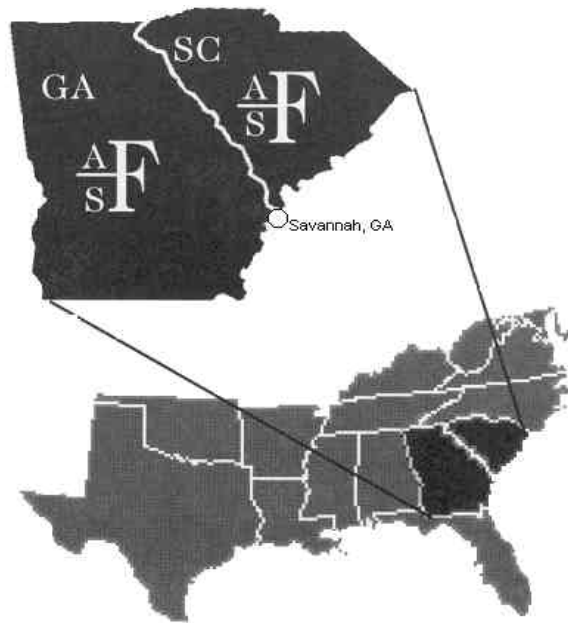
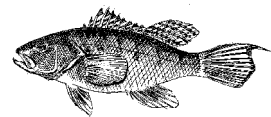


PROGRAM

*American Fisheries Society
Southern Division
2000 Mid-Year Meeting*



*Savannah, Georgia
February 3-6, 2000*



Southern Division American Fisheries Society

2000 Mid-Year Meeting

PROGRAM OVERVIEW

THURSDAY - FEBRUARY 3, 2000

7:00 a.m. - 4:00 p.m.	Registration - 2 nd Floor Desk
8:00 a.m. - 5:00 p.m.	Reservoir Committee Meeting - Chatham
8:00 a.m. - 5:00 p.m.	Warmwater Streams Committee Meeting - Waterfront North
8:00 a.m. - 5:00 p.m.	Striped Bass Committee Meeting - Waterfront South
8:00 a.m. - 5:00 p.m.	Fisheries Management Section - Ballroom B
1:00 p.m. - 5:00 p.m.	Small Impoundments - Ballroom F.
8:00 a.m. - 5:00 p.m.	Pollution Committee - Savannah
3:00 p.m. - 5:00 p.m.	Aquaculture Committee - Westbrook

FRIDAY - FEBRUARY 4, 2000

7:00 a.m. - 5:00 p.m.	Registration - 2 nd Floor Ballroom Entrance, 2 nd Floor Desk
8:00 a.m. - 12:00 p.m.	Executive Committee Meeting - Waterfront
8:00 a.m. - 5:00 p.m.	Reef Fish Ageing Workshop - Ballroom E
8:00 a.m. - 12:00 p.m.	Warmwater Streams Workshop - Ballroom B
1:00 p.m. - 5:00 p.m.	Communications Workshop - Ballroom D
1:00 p.m. - 5:00 p.m.	Beverton-Holt Workshop - Ballroom F
1:00 p.m. - 5:00 p.m.	Student Workshop - Ballroom B
1:00 p.m. - 5:00 p.m.	GA Chapter Meeting - Westbrook
1:00 p.m. - 4:45 p.m.	Instream Flow Committee Meeting - Waterfront
5:00 p.m. - 6:00 p.m.	SC Chapter Meeting - Waterfront
5:00 p.m. - 6:30 p.m.	Fish. Management Section Social
6:00 p.m. - 9:00 p.m.	Student-Professional Social - Ballroom A

SATURDAY - FEBRUARY 5, 2000

7:00 a.m. - 5:00 p.m.	Registration - 2 nd Floor Desk
8:00 a.m. - 12:00 p.m.	Stream Restoration Symposium - Ballroom D
1:00 p.m. - 5:00 p.m.	Developments in Reservoir Habitat Enhancement - Ballroom D
8:00 a.m. - 5:00 p.m.	South Atlantic Slope Rivers Session - Savannah
8:00 a.m. - 5:00 p.m.	Biology and Management of Reef Fishes - Waterfront
8:00 a.m. - 5:00 p.m.	Contributed Paper Session - Ballroom F
8:00 a.m. - 5:00 p.m.	Freshwater Nongame Aquatic Fauna Symposium - Ballroom E
8:00 a.m. - 5:00 p.m.	Poster Session - Trustees Hall
8:00 a.m. - 5:00 p.m.	Slide Viewing Room - Chatham
5:30 p.m. - 9:00 p.m.	Banquet - Harborside Center

SUNDAY - FEBRUARY 6, 2000

8:00 a.m. - 12:00 p.m.	Contributed Paper Session - Ballroom F
8:00 a.m. - 12:00 p.m.	Socioeconomics and Fisheries Mgt. Symposium - Ballroom D
8:00 a.m. - 12:00 p.m.	Biology and Management of Reef Fishes - Waterfront
8:00 a.m. - 12:00 p.m.	Freshwater Nongame Aquatic Fauna Symposium - Ballroom E
8:00 a.m. - 12:00 p.m.	Poster Session - Trustees Hall

Technical Program

Presentations

Saturday, 2/5/00

Stream Restoration Symposium

Ballroom D

Moderator: Joseph Schiller, Austin Peay State University

- 0820 Experiment in Passive Habitat Rehabilitation, Lower Missouri River.
Robert B. Jacobson, Mark S. Lastrup, Raymond E. Arvidson, and Curt S. Niebur, U.S. Geological Survey
- 0840 Restoration of a Maryland Piedmont Stream Utilizing the Natural Channel Design Approach.
Rocky O. Powell, Clear Creeks Consulting
- 0900 Using Soft Technology to Rehabilitate Impacted Streams.
Steve Filipek, Arkansas Game and Fish Commission
- 0920 Damaged Riparian Zones and their Eco-Geomorphic Consequences.
Cliff R. Hupp, U.S. Geological Survey
- 0940 Incorporating Instream Fisheries Habitat Considerations When Designing Streambank Stabilization Project.
Larry Mohn, Virginia Dept. of Game and Inland Fisheries
- 1000 Break**
- 1020 The Effects of Suspended Sediment on the Reproductive Success of the Tricolor Shiner: Implications for Conservation in *Cyprinella* (Cyprinidae).
Noel M. Burkhead and Howard L. Jelks, U.S. Geological Survey
- 1040 Stream Restoration Using a Natural Channel Design Approach.
James W. Gracie,
- 1100 Geomorphic Considerations in Stream Restoration Efforts.
Paul Hartfield, U.S. Fish and Wildlife Service
- 1120 A GIS-Based Watershed Quality Model for Identifying Land-Based Pollution Problems.
Christopher J. O'Bara, Paul P. Piszczek, Yvette R. Clark, Dennis B. George, Jason A. Weeks, and Jack D. Wall, Tennessee Technological University
- 1140
- 1200 Lunch**

Saturday, 2/5/00

Developments in Reservoir Habitat Enhancement

Ballroom D

Moderator: Mike Allen, University of Florida Department of Fisheries and Aquatic Sciences

- 0120 Abiotic Habitat Enhancements in U.S. Lakes and Reservoirs: A Survey of the Southern Division Reservoir Committee.
Kimberly I. Tugend and Mike S. Allen, Dept. Of Fisheries and Aquatic Sciences, University of Florida and Mark A. Webb, Texas Parks and Wildlife Dept.
- 0140 Establishment of Native Aquatic Plants for Habitat Enhancement: Why and How?
R. Michael Smart, USAERDC-WES Lewisville Aquatic Ecosystem Research Facility
- 0200 Aquatic Plant Introduction Survey.
Michael Alexander, U.S. Corps of Engineers
- 0220 Restoring Fish Habitat with Native Aquatic Plants in Arcadia Reservoir, Oklahoma.
Eugene R. Gilliland, Oklahoma Dept. of Wildlife Conservation and R. Michael Smart, USAE Waterways Experiment Station
- 0240 Establishment of Native Vegetation in El Dorado Lake, Kansas.
Gary O. Dick, University of North Texas and R. Michael Smart, USAE Waterways Experiment Station

0300 Break

Moderator: Mike Alexander, Savannah District U.S. Army Corps of Engineers

- 0320 Evaluation of Methods for Establishing Native Aquatic Vegetation in Seven Texas Reservoirs.
Mark Webb, Texas Parks and Wildlife Department and R. Michael Smart, USAE Waterways Experiment Station
- 0340 An Integrated Approach to Managing Aquatic Plants at Lake Jacksonville, Texas.
Richard A. Ott, Jr. , Texas Parks and Wildlife Department and R. Michael Smart, USAE Waterways Experiment Station
- 0400 Materials and Techniques for Live Staking Plants onto Reservoir Shorelines.
Julie Mitchell and Larry Dyck, Clemson University
- 0420 Grasses for Reservoir Shorelines.
Michael Dorn and Larry Dyck, Clemson University
- 0440 The Aquatic Plant Restoration Program in Illinois.
Gary W. Lutterbie, Illinois Department of Natural Resources

Saturday, 2/5/00

South Atlantic Slope Rivers Session

Savannah Room

Moderator: Chuck Coomer, Georgia Department of Natural Resources

- 0820 Occurrence, Distribution, and Movement of Shortnose Sturgeon (*Acipenser brevirostrum*) in the Chesapeake Bay, Maryland.
Stuart A. Welsh, U.S. Fish and Wildlife Service
- 0840 Effects of Watershed and Stream Habitat Conditions on Fish Communities in the Upper Roanoke River Watershed, Virginia.
Vann F. Stancil and Donald J. Orth, Dept. of Fisheries and Wildlife Sciences, Virginia Tech
- 0900 Changes in the Fishery of the Altamaha River System after the Illegal Introduction of the Flathead Catfish.
Robert R. Weller, Georgia Dept. of Natural Resources
- 0920 Movement of Largemouth Bass in a Savannah River Tributary.
Tucker A. Jones, Clemson University, J. Jeffery Isely, S.C. Coop Fish and Wildlife Unit U.S. Geological Survey, Clemson University, Dean Fletcher, Savannah River Ecology Lab, and Michael Paller, Environmental Services Westinghouse Savannah River Corporation
- 1000 Break**
- 1020 Savannah River Trout Stocking Evaluation.
Ed Bettross, GA Dept. of Natural Resources
- 1040 History of the Robust Redhorse in the Savannah River.
Tim Barrett, GA Dept. of Natural Resources
- 1100 A Fisheries Survey of the Tidal James River, Virginia.
Robert Greenlee and Dean Fowler, Virginia Dept. of Game and Inland Fisheries, Mark King, Virginia Commonwealth University
- 1120 Recent Finfish Studies in the Savannah Harbor.
Mark Collins, Bill Post, Chris Walling, and Dan Russ, Marine Resources Research Institute SC DNR
- 1140 Pollution History of the Savannah River Estuary.
Clark Alexander, R. Lee, B. Loganathan, R. Smith, S. Wakeham, and H. Windom, Skidaway Institute of Oceanography

1200 Lunch

Saturday, 2/5/00

South Atlantic Slope Rivers Session

Savannah Room

Moderator: Russ England, Georgia Department of Natural Resources

- 0120 Use of Striped Bass Egg Surrogates to Assess Gear Detection Thresholds and Sampling Efficiency in the Savannah River Estuary.
Ted A. Will, Thomas R. Reinert, GA Coop Fish and Wildlife Research Unit, and Cecil A. Jennings, U.S. Geological Survey-Biological Resources Division
- 0140 Use of Ultrasonic Imaging to Assess the Reproductive Status of Striped Bass in the Savannah River Estuary.
Ted A. Will, Thomas R. Reinert, GA Coop Fish and Wildlife Research Unit, and Cecil A. Jennings, U.S. Geological Survey-Biological Resources Division
- 0200 Habitat Utilization by Striped Bass in J. Strom Thurmond Reservoir During the Summer.
Shawn P. Young and J. Jeffery Isely, S.C. Coop Fish and Wildlife Research Unit Clemson University, and C. Wade Bales, S.C. Dept. of Natural Resources
- 0220 Estimation of Striped Bass Egg Drift Patterns in the Lower Savannah River using Gellan Gum Balls.
Bill Davin, Berry College
- 0300 Break**
- 0320 Savannah River Striped Bass and 10 Years of Recovery Effort: Where Are We Now?
Thomas R. Reinert, Ted Will, GA Coop Fish and Wildlife Research Unit, and Cecil A. Jennings, U.S. Geological Survey-Biological Resources Division
- 0340 Overview of Harbor Deepening Impacts and Striped Bass Population Recovery in the Savannah River.
Thomas G. Meronek, GA Dept. of Natural Resources
- 0400 Back River Section 1135 Environmental Restoration Study, Savannah River.
Terry Straton, U.S. Army Corps of Engineers
- 0420 A Bioenergetics Approach for Determining the Effect of Increased Striped Bass Population on its Prey in the Chesapeake Bay.
Anthony S. Overton, Jennifer C. Griffin, and F.J. Margra, University of Maryland Eastern Shore Maryland Coop Fish and Wildlife Research Unit
- 0440 Effects of Catch and Release Stress on Striped Bass, *Morone saxatilis*, as a function of angling time and temperature.
Julie A. Thompson, Steven G. Hughes, and Eric B. May Maryland Coop Fish and Wildlife Unit, University of Maryland

Saturday, 2/5/00

Biology and Management of Reef Fishes

Waterfront Room

0820 Introductory Remarks. George Sedberry, SCDNR

Session I: MARMAP Program Review

Moderator: Jack McGovern, South Carolina Department of Natural Resources

- 0840 MARMAP Studies of Reef Fishes off the Southeastern United States 1983-2000.
John C. McGovern, George R. Sedberry and Daniel J. Machowski, South Carolina DNR
- 0900 A Summary of MARMAP's Reef Fish Tagging Activities off the Southeastern United States.
H. Scott Meister and John C. McGovern, South Carolina DNR
- 0920 Age, Growth and Reproductive Biology of the Black Sea Bass, *Centropristis striata*, from the Southeastern United States.
John C. McGovern, Mark R. Collins, H. Scott Meister and Oleg Pashuk, South Carolina DNR
- 0940 Age, Growth, and Reproduction of Scamp, *Mycteroperca phenax*, in the Southwestern North Atlantic, 1979-1996.
Patrick J. Harris, David M. Wyanski, D. Byron White and Jennifer L. Moore, South Carolina DNR

1000 Break

Session II: Reef Fish Life History Studies

Moderator: David Wyanski, South Carolina Department of Natural Resources

- 1020 Life History of Red Grouper (*Epinephelus morio*) off the North and South Carolina Coast
Julian Burgos, University of Charleston; Patrick J. Harris, George R. Sedberry and David M. Wyanski, South Carolina DNR
- 1040 Life History of the Gray Triggerfish from the Southeastern United States.
Jennifer L. Moore, University of Charleston
- 1100 Red Snapper Reproduction Revisited: Spawning and Fecundity in the Northern Gulf of Mexico, 1998-1999.
L. A. Collins, G.R. Fitzhugh and R.J. Allman, NMFS Panama City Laboratory
- 1120 Reproductive Biology and Ecology of Red Porgy, *Pagrus pagrus*, in the Northeastern Gulf of Mexico.
Doug DeVries, NMFS Panama City Laboratory
- 1140 Changes in Life History Patterns of Vermilion Snapper and Red Porgy in the Gulf of Mexico.
Peter B. Hood, GMFMC and Andrea Johnson, North Carolina State University

1200 Lunch

Saturday, 2/5/00

Biology and Management of Reef Fishes

Waterfront Room

Session II: Reef Fish Life History Studies

Moderator: Sandy Padgett, South Carolina Department of Natural Resources

- 0120 Age and Growth of Yellowtail Snapper, *Ocyurus chrysurus*, Collected from the Southeastern United States.
Eden Garcia and Roger A. Rulifson, East Carolina University
- 0140 Larval Biology and Transport Scenarios for Lutjanids and Haemulids of Southwest Cuba and Southeast Florida.
K. Lindeman, University of Miami; R. Claro, Instituto de Oceanologia; T. Lee, University of Miami; D. Wilson, NOAA Miami Laboratory; and J. Ault, University of Miami
- 0200 Ingress of Postlarval Snappers (principally *Lutjanus griseus*) into the Newport River Estuary, North Carolina.
Mimi W. Tzeng, University of North Carolina at Wilmington; Jonathan A. Hare and Allyn B. Powell; NOAA Beaufort Laboratory; and David G. Lindquist, University of North Carolina at Wilmington

Session III: Status of Reef Fish Stocks

Moderator: Sandy Padgett, South Carolina Department of Natural Resources

- 0220 Good and Bad Years in the Gulf: Tracking Age-Structure for Gag Grouper and Red Snapper
Gary R. Fitzhugh, William A. Fable, and Linda A. Lombardi, NMFS Panama City Laboratory; and Allyn G. Johnson, Panama City
- 0240 The Effects of Shelf-Edge Fishing on the Demographics of the Gag, *Mycteroperca microlepis*, Population of the Southeastern United States.
Christopher C. Koenig, Felicia C. Coleman, Institute for Fishery Ecology (FSU/NMFS) Robert W. Chapman, Mark R. Collins, Patrick Harris, John McGovern, George R. Sedberry and David M. Allyn, South Carolina DNR, and Allyn G. Johnson, NMFS Panama City Laboratory
- 0300 Break**

Saturday, 2/5/00

Biology and Management of Reef Fishes

Waterfront Room

Session IV: Reef Fish Communities, Distribution and Habitat

Moderator: Doug Weaver, Florida Caribbean Science Center USGS

- 0320 A Preliminary Study of Reef Fish at Navassa Island.
Mark Grace, NMFS Pascagoula Laboratory
- 0340 Distribution, Abundance and Habitat Utilization of Adult and Juvenile Jewfish, *Epinephelus itajara*, in Southwest Florida, USA.
Anne-Marie Eklund, NMFS Southeast Fisheries Science Center; Christopher C. Koenig, and Felicia C. Coleman, NOAA/FSU Institute for Fishery Resource Ecology, Florida State University
- 0400 Fish Populations and Habitat Recovery in the *Oculina* Research Reserve (1995 to 1999) off Ft. Pierce, FL.
Christopher C. Koenig, Felicia C. Coleman, IFRE (FSU-NMFS); Christopher T. Gledhill, Mark Grace, NMFS Pascagoula Laboratory; Churchill B. Grimes, NMFS Tiburon Laboratory; Kathryn M. Scanlon, USGS Woods Hole, and Sandra Brooke, Harbor Branch Oceanographic Institution
- 0420 Spatial Subsidies in the Twilight Zone: Food Web Structure of Outer Continental Shelf Reef Fishes.
Douglas C. Weaver and K.J. Sulak, Florida Caribbean Science Center, USGS
- 0440 The Distribution of *Enneanectes* (Blennioidei: Tripterygiidae) on Multiple Spatial Scales.
Lisa K. Haney, University of Charleston

Contributed Paper Session

Ballroom F

Moderator: David Partridge, Georgia Dept of Natural Resources

- 0820 Natural Recruitment Failure of Walleye in Tennessee Reservoirs.
Christopher S. Vandergoot and Phillip W. Bettoli, Tennessee Coop Fishery Research Unit Tennessee Technological University, and Dale C. Honeyfield U.S. Geological Survey, Biological Resources Division
- 0840 Assessment of Brook Trout Restoration Efforts in Two Great Smoky Mountains National Park Streams.
Ben. F. Brammell and S. Bradford Cook, Dept. of Biology Tennessee Technology University
- 0900 Evaluation of Rainbow Trout Introductions in Northeastern Oklahoma Streams.
Maureen G. Walsh, Oklahoma Coop Fish and Wildlife Unit, Oklahoma State University
- 0920 An Evaluation of the Trout Fishery on the Hiawassee River below Apalachia Dam.
Michael P. Luisi and Phillip Bettoli, Tennessee Coop Fishery Research Unit, Tennessee Technological University
- 0940 Comparison of Prepositioned Area Electrofishers and an Electric Seine for Sampling Stream Fish Communities.
Daniel B. Fenner, Oklahoma Coop Fish and Wildlife Research Unit, Oklahoma State University
- 1000 Break**

Saturday, 2/5/00

Contributed Paper Session

Ballroom F

Moderator: John Crane, S.C. Department of Natural Resources

- 1020 Largemouth Bass Annual Exploitation in Felsenthal National Wildlife Refuge, Arkansas as Determined by a Tag-Reward Study.
D. Colton Dennis, Arkansas Game & Fish Commission and Steve Lochmann, Department of Aquaculture and Fisheries, University of Arkansas Pine Bluff
- 1040 Evaluation of a 254-mm Size Limit and Supplemental Stocking as Management Strategies for Tennessee Reservoir Crappie Fisheries.
Daniel A. Isermann, Phillip W. Bettoli, and Steve Sammons, Tennessee Coop Fishery Research Unit, Tennessee Technological University
- 1100 Evaluation of an 457-mm Minimum Size Limit on Saugeye in Oklahoma Reservoirs.
Brandon Brown, Jeff Boxrucker, Larry Cofer, and Paul Watkins, Oklahoma Dept. Of Wildlife Conservation
- 1120 Detecting Largemouth Bass Population Responses to a Minimum Length Limit: Effects of Variable Recruitment and Duration of Evaluation.
Mike S. Allen and William E. Pine III., Dept. Of Fisheries and Aquatic Sciences, Univeristy of Florida
- 1140 Survival, Habitat Use, and Movement Patterns of Adult Striped Bass in Lake Blackshear, Georgia.
Troy L. Baker and Cecil A. Jennings, Georgia Coop Fish and Wildlife Research Unit, University of Georgia

1200 Lunch

Moderator: Alfred Mauldin, Georgia Dept of Natural Resources

- 0120 Hatching Periodicity, Hatching Distributions, and Daily Growth Rates of Age-0 White Crappies in Response to Hydrology and Zooplankton Densities in Normandy Reservoir, Tennessee.
Steve M. Sammons, Phillip W. Bettoli, and Veronica A. Greear, Tennessee Coop Fishery Research Unit Tennessee Technological University
- 0140 Top-down Influences of Larval Shad on Zooplankton Abundance at Hugo Reservoir, Oklahoma.
Jeff Boxrucker, Oklahoma Dept. Of Wildlife Conservation
- 0200 Isolating the Parentals of the Late Summer Spawn of Threadfin Shad in Hugo Reservoir, Oklahoma.
Kurt E. Kuklinsk, University of Oklahoma and Jeff Boxrucker, Oklahoma Dept of Wildlife Conservation
- 0220 Differential Growth Rates and Mortality Rates Between Gizzard Shad and Threadfin Shat at Hugo Reservoir, Oklahoma.
Barbara J. Adams, University of Oklahoma and Jeff Boxrucker, Oklahoma Dept of Wildlife Conservation
- 0240 Assessing Potential Instream Flow Impacts on the Fishes of Baron Fork Creek, Oklahoma.
W. Jason Reshardt and William L. Fisher, Oklahoma Coop Fish and Wildlife Research Unit, Oklahoma State University

0300 Break

Saturday, 2/5/00

Contributed Paper Session

Ballroom F

Moderator: Scott Lamprecht, S.C. Department of Natural Resources

- 0320 Fish IBI Work on TMDL Streams in the Piedmont Ecoregion of Georgia.
Patti Lanford, Georgia Dept of Natural Resources
- 0340 Effects of Highly Fluctuating Flows on Nest Success of Redbreast Sunfish in the Tallapoosa River, Alabama.
Robert O. Andress, Kevin Kleiner, and Elise R. Irwin, Alabama Coop Fish and Wildlife Research Unit, Auburn University
- 0400 Evaluation of the Effectiveness of Hoop Nets for Sampling Channel Catfish.
Kenneth K. Cunningham and Larry Cofer, Oklahoma Dept of Wildlife Conservation
- 0420 Bus Route Creel Survey of the Duck River, Tennessee.
C. Blake Condo and Phillip Bettoli, Tennessee Coop Fishery Research Unit, Tennessee Technological University
- 0440 Utilization of Two River Basins by Common Snook, *Centropomus undecimalis* in Tampa Bay, Florida.
Brent L. Winner, Robert H. McMichael, and Julie Fine, Florida Marine Research Institute

SDAFS/SFC Symposium: Conservation of the Freshwater Nongame Aquatic Fauna in the Southeast-Challenges for the New Millennium

Ballroom E

Moderator: Stephen J. Walsh, U.S. Geological Survey

- 0830 Diversity, Distribution, and Conservation Status of Freshwater Fishes of the Southern United States.
Melvin L. Warren, Jr. et al., USDA Forest Service, Southern Research Station
- 0855 Natural Biological Entities and Their Surrogates: Prerequisites to Effective Conservation Strategies for Biodiversity.
Richard L. Mayden, University of Alabama
- 0920 From Molecules to Management: Demystifying Genetics for Nongame Species.
Anna L. Bass, Department of Fisheries and Aquatic Sciences, University of Florida
- 0945 Patterns of Imperilment of Southern Appalachian Fishes.
Noel M. Burkhead, Stephan J. Walsh, and Robert M. Dorazio, U.S. Geological Survey, Biological Resources Division, Florida Caribbean Science Center
- 1010 Break**

Saturday, 2/5/00

**SDAFS/SFC Symposium: Conservation of the Freshwater Nongame
Aquatic Fauna in the Southeast-Challenges for the New Millenium**

Ballroom E

Moderator: Stephen J. Walsh, U.S. Geological Survey

- 1025 Habitat and the Conservation of Riffle Inhabiting Fishes: Population and Assemblage Response to Temporal and Spatial Habitat Change.
Stephen T. Ross, Martin T. O'Connell, William T. Slack, Department of Biological Sciences, University of Southern Mississippi; and David M. Patrick, Department of Geology, University of Southern Mississippi
- 1050 Native Fishes Below Dams: Working With What We Have.
Mary C. Freeman, USGS Patuxent Wildlife Research Center, University of Georgia; Elise R. Irwin, USGS Alabama Coop Fish and Wildlife Research Unit, Auburn University and Byron J. Freeman, Institute of Ecology, University of Georgia
- 1115 Academia, Management, and Policy: The Challenge of Pulling Our Oars in the Same Direction.
Gary K. Meffe, Dept of Wildlife Ecology and Conservation, University of Florida
- 1145 Lunch**
- 0130 Recovering Rare Fishes: An Update on Success in the Southeastern United States.
Peggy Shute, Tennessee Valley Authority, Regional Natural Heritage Project
- 0155 Conservation Status of Freshwater Mussels of the Southeastern United States.
James D. Williams, U.S. Geological Survey
- 0220 Status of Ozark Cavefish, Cave Crayfish, and Other Stygobionts in Arkansas.
Art Brown and G.O. Graening, Dept of Biological Sciences, University of Arkansas
- 0245 Arkansas Nongame Aquatics Program.
Brian K. Wagner, Arkansas Game and Fish Commission
- 0310 Break**
- 0325 Conservation of Aquatic Biodiversity in Georgia.
Christopher E. Skelton, Georgia Dept of Natural Resources
- 0350 Aquatic Resource Conservation Planning in Florida.
Theodore Hoehn, Florida Fish and Wildlife Conservation Commission
- 0415 Evolution of Nongame Aquatic Conservation in North Carolina Since 1986.
John M. Alderman, North Carolina Wildlife Resources Commission

Sunday, 2/06/00

Contributed Paper Session

Ballroom F

Moderator: Cecil Jennings, U.S. Geological Survey - Biological Resources Division, GA Coop Fish and Wildlife Research Unit

- 0800 Bowfishing Tournament in Arkansas.
Jeff Quinn, Arkansas Game and Fish Commission
- 0820 Effects of Ingesting Red Imported Fire Ants on Fishes.
Q.C. Fontenot, J.J. Isely, and C.R. Allen, U.S. Geological Survey, Biological Resources Division, S.C.
Coop Fish and Wildlife Research Unit, Clemson University
- 0840 Response of a Brown Bullhead Population to Flathead Catfish Introduction in a Small Virginia
Impoundment.
John Odenkirk, Virginia Fish and Game
- 0900 Using Geographic Information Systems Technology to Model Relationship Between Black Bass
Abundance and Physiochemical Characteristics in an Oklahoma Reservoir.
James M. Long and William L. Fisher, Oklahoma Coop Fish and Wildlife Research Unit, Oklahoma State
University
- 0920 A Reciprocal Transplant Study for the Comparison of Two Genetic Strains of Largemouth Bass in South
Carolina.
Jean Leitner and James Bulak, South Carolina Dept of Natural Resources
- 0940 Assessing the Effects of Alternative Feeding Strategies on Growth of Hybrid Bluegill.
Clifton R. Sager and Dana L. Winkelman, Oklahoma Coop Fish and Wildlife Research Unit, Oklahoma
State University
- 1000 Break**
- 1020 Response of Anglers to a Differential Harvest Regulation on Three Black Bass Species in an Okalahoma
Reservoir.
Randy G. Hyler and William L. Fisher, Oklahoma Coop Fish and Wildlife Research Unit, Oklahoma State
University
- 1040 Daily Growth of Young-of-Year Flathead Catfish.
Michael Brown and Dana L. Winkleman, Oklahoma Coop Fish and Wildlife Research Unit, Oklahoma
State University
- 1100 An Assessment of Water Quality, Crayfish and Corbicula of the Reedy River, South Carolina following a
Diesel Oil Spill.
Gerrit J. Jobsis, South Carolina Dept of Natural Resources
- 1120 Recovery of the Reedy River Fish Community following a Major Diesel Oil Spill.
James S. Bulak, South Carolia Dept of Natural Resources and R. Duane Harrel, Duke Energy
- 1140 A macrovertebrate Biological Assessment of the Reedy River in South Carolina following a Diesel Oil
Spill from a Subsurface Pipeline.
James B. Glover, South Carolina Dept of Health and Environmental Control

Sunday, 2/06/00

Socioeconomics and Fisheries Management Session

Ballroom D

Moderator: Ray Rhodes, South Carolina Department of Natural Resources

- 0820 Shrimp Baiting: Potential Impacts on the Profitability of South Carolina Commercial Shrimpers. Mark Henry, David Barkley, and Queen Vo; Dept of Agriculture and Applied Economics, Clemson University
- 0840 Marginalization of African-Americans in Commercial Fishing in Georgia. Ben G. Blount, Department of Anthropology, University of Georgia
- 0900 Marine Reserves in the South Atlantic Region: Socio-Economic Issues to be Addressed. Vishwanie Maharaj, South Atlantic Fishery Management Council
- 0920 A New Approach to Determining the Legal Monetary Value of Marine Finfish Species. Webb Smathers, Dept of Agriculture and Applied Economics, Clemson University; Ray Rhodes, South Carolina Dept of Natural Resources
- 0940 A Decision Support System for Recreational Fisheries Management. Anthony J. Fedler, University of Florida and Wolfgang Haider, Simon Fraser University

1000 Break

- 1020 Expenditure Patterns of South Carolina's Saltwater Private Boat Recreational Anglers. Kandice Kahl and Michalann Evatt, Dept of Agriculture and Applied Economics, Clemson University; Raymond Rhodes, South Carolina Dept of Natural Resources
- 1040 Analysis of Access Site Use by Georgia Saltwater Anglers. Clark Evans, Georgia Dept of Natural Resources
- 1100 Oral Histories, Environmental Knowledge, and the Folk Sequence of Commercial Crab Fishers in Coastal Georgia. D. Robert Cooley and Benjamin G. Blount, Dept of Anthropology, University of Georgia
- 1120 Demographics and License Buying Trends of Oklahoma Anglers. Greg L. Summers, Oklahoma Dept of Wildlife Conservation

Biology and Management of Reef Fishes

Waterfront Room

Session IV: Reef Fish Communities, Distribution and Habitat (continued)

Moderator: Joel Carlin, University of Florida

- 0800 Attraction of Age-0 Red Snapper, *Lutjanus campechanus*, to Areas of Reduced Bycatch Mortality. Stephen T. Szedlmayer, Auburn University
- 0820 Fish Assemblages on High Latitude Coral Reefs: A work in Progress. David Gilliam, Brian D. Ettinger, Richard E. Spieler, and Lance K.B. Jordan, Nova Southeastern University Oceanographic Center

Sunday, 2/06/00

Biology and Management of Reef Fishes

Waterfront Room

Session V: Reef Fish Population Structure

Moderator: Joel Carlin, University of Florida

- 0840 Stock Structure of Red Snapper in the Northern Gulf of Mexico: Is their Management as a Single Unit Stock Justified Based on Spatial and Temporal Patterns of Genetic Variation, Otolith Microchemistry, and Growth Rates?
William F. Patterson III, Louisiana State University; James H. Cowan Jr., University of South Alabama; John R. Gold, Texas A&M University; and Charles A. Wilson, Louisiana State University
- 0900 Population Genetic Partitions and Phylogeography of Atlantic Reef Zones:
Rypticus saponaceous and *Epinephelus adscensionis*.
Joel L. Carlin and Brian W. Bowen, University of Florida
- 0920 Analysis of Mitochondrial DNA Sequence Variation and Ecological Distribution of Six Color Morphologies of the Serranid Fish *Hypoplectrus*.
William P. Christenson, University of Charleston
- 0940 Genetic Studies of White Grunt, *Haemulon plumieri*, Indicate Restricted Gene Flow and Deep Phylogeographic Divergence Between Caribbean, Trinidadian and Atlantic Coast Populations.
Robert W. Chapman and George Sedberry, South Carolina DNR

1000 Break

Session VI: Reef Fish Management Issues

Moderator: Joel Carlin, University of Florida

- 1020 Fishery-Independent and Fishery-Dependent data: Which Should be Used to Manage the Resource?
Patrick Harris, South Carolina DNR
- 1040 Do Stock Assessments Reflect Reality?
Fred C. Rohde, North Carolina Division of Marine Fisheries
- 1100 Socio-Demographic Assessment of Commercial Reef Fishermen in the South Atlantic.
Kim Iverson, SAFMC; and Ray Rhodes, South Carolina DNR
- 1120 Manmade Reefs as a Model in Marine Reserve Research.
Mel Bell, South Carolina DNR
- 1140 The Role of Public Aquaria in the Conservation of Fish Species: Examples from the South Carolina Aquarium.
Whit McMillan, South Carolina Aquarium
- 1200 General discussion and closing remarks

Sunday, 2/06/00

Freshwater Nongame Aquatic Fauna

Ballroom E

Moderator: Brain Wagner, Arkansas Game and Fish Commission

- 0830 A Facility for Captive Propagation and Restoration of Rare Southeastern Fishes.
J.R. Shute, P.L. Rakes, and J.T. Baxter; Conservation Fisheries, Inc.
- 0850 Assessing Nongame Fish Distributions on the Cherokee National Forest.
Jim Herrig, U.S. Forest Service
- 0910 Development of a Predictive Stream Assessment Model Using the Tolerances of Maryland Freshwater Fishes to Physical Habitat, Chemistry and Land Use.
Scott Stranko, Martin Hurd, Anthony Prochaska, and Paul Kazyak; Maryland Dept of Natural Resources
- 0930 Distribution and Abundance of Fishes in Tidal Freshwater Wetlands of the Cooper River, South Carolina.
M.G. McManus, L. Rose, and J. Bulak; South Carolina Dept of Natural Resources
- 0950 Strontium/Calcium Ratios in Robust Redhorse Otoliths.
Dave Coughlan and W. Mark Rash, Duke Power Company; Karin Limbug, State University of New York
- 1010 Break**
- 1030 Temporal and Spatial Characteristics of the Fish Assemblages in a Large Regulated River.
Jeff M. Howard and James B. Layzer, Tennessee Coop Fishery Research Unit, Tennessee Technological University
- 1050 Population Biology of Madtoms: a Review and Generalized Model.
Matthew D. Chan and Timothy Copeland, Dept of Fisheries and Wildlife Sciences, Virginia Polytechnic Institute and State University
- 1110 The Status of *Etheostoma osburni* Candy Darter-in West Virginia.
D.A. Cincotta, T. Bassista, and T.E. Oldham, West Virginia Division of Natural Resources
- 1130 Genetic and Meristic Variations Between and Within Populations of *Etheostoma moorei* (Yellowcheek darter).
Richard M. Mitchell, George L. Harp, and Ronald L. Johnson, Dept of Biological Sciences, Arkansas State University
- 1150 Status of Snail Darters (*Percina tanasi*) in the Lower French Broad River, Tennessee.
Edwin M. Scott, Tennessee Valley Authority

Posters:

Spawning Season, Sexual Maturity, and Gonad Development of White Grunt From the West Coast of Florida.

Debra J. Murie and Daryl C. Parklyn, Dept of Fisheries and Aquatic Sciences, University of Florida

Application of Acoustic Systems to Assess the Condition and Morphology of Oyster Reef Habitat in the Chesapeake Bay.

David G. Bruce, Gary F. Smith, and Eric B. Roach, Maryland Dept of Natural Resources, Sarbanes Coop Oxford Laboratory

Development and Application of the Oklahoma Stream Fisheries Management Information System.

Ellen C. Tejan and William L. Fisher, Oklahoma Coop Fish and Wildlife Research Unit, Oklahoma State University

Aquaculture of Black Sea Bass (*Centropristis striata*)

C. Cotton and R.L. Walker, University of Georgia, Shellfish Aquaculture Lab

Preliminary Assessment of Sheepshead (*Archosargus probatocephalus*) Age, Growth and Movement in Georgia's Waters.

Arnold Woodward, John Fortuna, and Paul Medders, Georgia Dept of Natural Resources

Preliminary Assessment of the Striped Mullet (*Mugil cephalus*) in the Altamaha River of Georgia.

Dominic Guadagnoli, Arnold G. Woodward, and John L. Fortuna, Georgia Dept of Natural Resources

Modeling Annual White Shrimp (*Litopenaeus setiferus*) Harvest from Fishery Independent Assessment Parameters.

Carolyn N. Belcher and John L. Fortuna, Georgia Dept of Natural Resources

Diel Variation in Habitat Use by Stream Fish.

Edward E. Leonard and William E. Ensign, Dept of Biological and Physical Sciences, Kennesaw State University

An Historical Bioenergetics Evaluation of Striped Bass in Chesapeake Bay.

Jennifer C. Griffin, F. Joseph Margraf, and Eric B. May, Maryland Coop Fish and Wildlife Research Unit, University of Maryland Eastern Shore

Riparian Habitat Restoration: An Important Tool in the Recovery of Federally Listed Riverine Species in the Southeastern United States.

Robert S. Butler, U.S. Fish and Wildlife Service

Evaluation of the Genetic Status of the Ozark Hellbender Population in the Spring River, Arkansas.

Brain K. Wagner and Richard Shopen, Arkansas Game and Fish Commission; Huseyin Kucuktas, Auburn University

Examination of Juvenile and Adult Freshwater Mussell (*Bivalvia: Unionidae*) Stream Parameter Preferences.

Holly N. Blalock, U.S. Geological Survey, Biological Resources Division, Florida Caribbean Science Center

Freshwater Mussels of the Choctawhatchee River Drainage in Alabama and Florida.

Holly N. Blalock, Jeffery J. Herod, and James D. Williams; U.S. Geological Survey, Biological Resources Division, Florida Caribbean Science Center

The GA & SC Chapters would like to thank the following contributors to the 2000 Mid-Year Meeting:

Silver Sponsors (\$2,500)

Georgia Ports Authority
Georgia Power
Tennessee Valley Authority
U.S. Forest Service

Bronze Sponsors (\$1,000)

Duke Power Company
U. S. Army Corps of Engineers, Savannah District

Sponsors (\$500)

American Aquatics, Inc.
Outdoor Technology Group (Fenwick, Berkely)
Shealy Environmental Services, Inc.

Associate Sponsors (\$250)

Kleinschmidt Associates
Savannah Electric
South Carolina Wildlife Federation
Westvaco