



AMERICAN FISHERIES SOCIETY

DECEMBER 1993

Robert J. Goldstein, Ph.D., Editor
Shari D. Gunter, Layout Presentation

8480 Garvey Drive, Raleigh, North Carolina 27604
(919) 872-1174

ANNUAL CHAPTER MEETING INFORMATION

The 1994 Annual Meeting of the North Carolina Chapter of the American Fisheries Society will be held January 18-19, 1994 at the Duke University Marine Laboratory (DUML), Pivers Island, Beaufort, North Carolina. On site registration will begin at 11:00 on January 18, with welcome and introductions beginning at 1:00 pm and presentations at 1:30. The meeting will adjourn at noon on January 19. Costs for attending the meeting will be as follows if you elect to stay at DUML:

Full Registration (includes dorm room, banquet, breakfast and lunch on the 19th, social, and breaks).....\$46.00

Space for about 40 individuals is available at DUML. Rooms are on a first come basis, with priority given to students.

Registration for those who plan to stay in local motels will be as follows:

Basic Registration (includes breaks, lunch on the 19th only)..... \$15.00

Additionally, everyone who wishes can participate in a clam bake provided by DUML and/or the following social at the N.C. Maritime Museum for the following cost:

Banquet and Social (Clam bake dinner on the 18th, social)..... \$13.00

RETURN THE ATTACHED PRE-REGISTRATION FORM TO LIZ NOBLE BY JANUARY 27, 1994.

Forms must be provided to Liz so that we can verify numbers attending for meals and rooms at DUML. Don't send any money--we'll collect that at the meeting.

A LATE REGISTRATION FEE OF \$10.00 WILL BE ADDED TO THOSE NOT PRE-REGISTERING.

For those of you who plan to make your own room accommodations, numbers of some local motels are as follows (this is not an exhaustive list, nor are we recommending these facilities, feel free to call others:

Econo Lodge - Crystal Coast, Morehead City	800-533-7556
Hampton Inn, Morehead City	919-240-2300
Inlet Inn, Beaufort	919-728-3600
Morehead Motor Inn, Morehead City	919-726-5141

LAST CALL FOR PAPERS

In previous Annual Meetings, the program consisted of a session for graduate student presentations and one or two sessions on specific topics with invited speakers. This year, the Program Committee will try a less formal approach. We welcome contributions from Chapter members and potential members on the status of graduate research, ongoing agency or corporate research, past research, or other fishery-related issues.

The Program Committee will group papers by topic. Although no publication of proceedings is planned, we request that presenters submit a brief abstract (one-half page or less, single-spaced) of the proposed talk. Format for the abstract should be as follow: Name of presenter: affiliation: Title: Text describing project. The deadline for submitting abstracts for consideration has been extended.

Indicate if the presenter is a student so that the presentation can be judged for the Best Student Paper Award. Please mail or fax abstracts to:

Program Committee, N.C. Chapter-American Fisheries Society
c/o U.S. Fish and Wildlife Service
South Atlantic Fisheries Coordination Office
P.O. Box 33683
Raleigh, NC 27636-3683
Faxform: (919) 515-4454

The Program Committee this year consists of: President-Elect Dr. Wilson Laney (919-515-5019), Dr. Joseph Hightower (919-515-2631), Mr. John Carmichael (919-515-3547), and Mr. Scott Van Horn (919-528-9887). Feel free to call any member of the Program Committee if you have questions or suggestions for the program.



AGENDA FOR 1994 ANNUAL MEETING North Carolina Chapter - American Fisheries Society Duke University Marine Laboratory, Beaufort, NC January 18-19, 1994

TUESDAY:

1100-1300 Registration

(Lunch on your own, not covered in registration)

1300-1330 Welcome and Introductions

Coastal Fisheries

1330-1350 Bycatch Reduction Gear Development at UNC Sea Grant
James D. Murray et al., NC Sea Grant College Program, Raleigh, NC

- 1350-1410 Characterization, Assessment, and Management of Deep Reef Resources from Cape Hatteras, NC to the Dry Tortugas, FL
Roger Mays et al., SEFSC, NMFS, Beaufort, NC
- 1410-1430 Assessment of Striped Bass Spawning Stock in Roanoke River, North Carolina. Kent Nelson et al., DBIF, NCWRC, Greenville, NC

Life History

- 1430-1450 Age, Growth, and Reproductive Biology of *Clinostomus funduloides raneyi*, in Caney Fork Creek, a Western North Carolina Stream.
Tina L. Yanchis, Western Carolina University, Cullowhee, NC *
- 1450-1510 Morphology of Gill Lamellar Epithelium in Brook Trout (*Salvelinus fontinalis*) from Soft Water and Hard Water Streams.
Laura C. Gore, Western Carolina University, Cullowhee, NC *
- 1510-1530 Break

Freshwater Fisheries Management

- 1530-1550 Fish Health Assessment of Catawba River Largemouth Bass
B.K. Baker et al., Duke Power Company, Huntersville, NC
- 1550-1610 Evaluation of a 305-406 Millimeter Protected Slot Regulation for Largemouth Bass in Lake Sutton, North Carolina.
Bennett Wynne, DBIF, NCWRC, Kinston, NC
- 1610-1630 Angler Diary Survey of Flathead Catfish in the Yadkin-Pee Dee River System, North Carolina. Marla J. Chambers, DBIF, NCWRC, Oakboro, NC
- 1630-1700 Hydroacoustic Assessment of Fish Distribution and Density in Nine Catawba River Reservoirs. Don Degan, Duke Power Company, Huntersville, NC
- 1700-1720 Fish Productivity and Aquatic Vegetation in Selected Duke Power Company Reservoirs. Steven R. Johnson et al., Duke Power Company, Huntersville, NC
- 1830-2200 Dinner (Clam bake)/Social at DUML
- 2000-2200 Optional Social/Tour at N.C. Maritime Museum, Beaufort, NC

WEDNESDAY:

0730-0800 Breakfast

Fish Telemetry/Distribution

- 0815-0835 An Assessment of Gulf Sturgeon in the Apalachicola River, Florida, Using Capture-Recapture Models. Katherine E. Potak et al., N.C. Cooperative Fish and Wildlife Research Unit, NCSU, Raleigh, NC *
- 0835-0855 Summer Habitat of Striped Bass in Lake Norman. Scott Van Horn et al., DBIF, NCWRC, Durham, NC
- 0855-0915 Summer Distribution and Condition of Striped Bass within Albemarle Sound, North Carolina. Steven L. Haeseker et al., N.C. Cooperative Fish and Wildlife Research Unit, NCSU, Raleigh, NC *
- 0915-0935 Status Surveys of North Carolina's Rare Freshwater Fishes. Fred C. Rhode, Division of Marine Fisheries, NCDEHNR, Wilmington, NC
- 0935-0955 Commercial Production of Tropical Ornamentals in North Carolina. William M. Lewis, Southern Illinois University, Carbondale, Faison, NC

Alternate Presentation:

Assessment of the North Carolina Wildlife Resources Commission Environmental Permit Review Program. Keith W. Ashley, DBIF, NCWRC, Elizabethtown, NC

1000-1030 Break

1030-1200 Business Meeting

Determination of Quorum - Liz Noble

Secretary-Treasurer's Report - Liz Noble
Reading of 1993 Minutes
Financial Report

Committee Reports

Executive Committee - President's State of the Chapter
Arrangements Committee - Liz Noble, Tom Jones
Program Committee - Wilson Laney
Newsletter Committee - Bob Goldstein
Environmental Concerns Committee - Stephanie Godreau
Nomination Committee - Scott Van Horn

Student Subunit Report - John Carmichael

Old Business - Frank McBride

New Business - Frank McBride

Installation of New President - Frank McBride

President's Comments - Frank McBride, Wilson Laney

Adjourn

1200-1300 Lunch at DUML (for those who paid)

* *Student presenter eligible for paper competition.*

TRAVEL DIRECTIONS TO DUKE UNIVERSITY MARINE LABORATORY

The Duke University Marine Laboratory is located on Pivers Island in Beaufort, North Carolina. The Southeast Fisheries Center, Beaufort Laboratory, of the National Marine Fisheries Service is also located on Pivers Island. The road to the laboratories is located off U.S. 70, east of the bridge which connects Morehead City with Beaufort. Signs directing the way to the laboratories are prominent. Once on the road to Pivers Island, drive past the NMFS lab to the end of the road. Parking lots are at the end of the road on the right.

From western NC: Follow I-40 to southeast of Raleigh, take the exit for U.S. 70 east, follow U.S. 70 on bypasses of Smithfield and Goldsboro to Morehead City, cross the bridge to Beaufort, and turn right on the causeway when you see the signs to DUML and the NMFS laboratory.

From central NC: Follow I-40 from the Winston-Salem/Greensboro area, or NC 49 to US 64 from the Charlotte area, to I-40 southeast of Raleigh and proceed as described above.

From the northern coastal plain: Follow U.S. 17 south to New Bern, then follow U.S. 70 east to Morehead City, across the bridge to Beaufort, and to the laboratory as described above. Or, for the more scenic route, take N.C. 12 down the Outer Banks, take the Ocracoke-Cedar Island ferry (this is a toll ferry and requires advance reservations), follow N.C. 12 to U.S. 70 west, thence to Beaufort. The road to Pivers Island will be to the left before you cross the bridge to Morehead City.

From the southern coastal plain: Follow U.S. 74/76 to U.S. 17 in Wilmington, then U.S. 17 north to Folkstone, N.C. 172 to Hubert, and N.C. 24 to Morehead City, then U.S. 70 east across the bridge to Beaufort, thence to the laboratory as described above. Alternatively, follow U.S. 74/76 to Freeman, then N.C. 11 to N.C. 53 to Jacksonville, then N.C. 24 to Morehead City, where U.S. 70 east will take you across the bridge to Beaufort.

ENVIRONMENTAL CONCERNS COMMITTEE REPORT

1. A "Guide to Reporting Environmental Violations" was compiled in May 1993 by Mr. Tom Jones of the ECC. The purpose of this project was to notify chapter members who they should call in the event of a suspected environmental violation. A copy of the guide is included in this newsletter.
2. A letter dated September 10, 1993 was sent to the main office of the American Fisheries Society (AFS) regarding the commercial harvest of *Sargassum*. In the letter, we expressed concern over the lack of information regarding species interactions, production, and safe yield and recommended that a fishery management plan not be developed for *Sargassum* at this time. Thanks go to Dr. Bob Goldstein for drafting the original letter and the ECC members who reviewed and provided comments on the draft.
3. Several members have expressed interest in the reauthorization of the Endangered Species Act (ESA) of 1973. The AFS draft policy statement on ESA reauthorization appeared on pages 34-38 of the July 1993 issue of *Fisheries*. All AFS members are encouraged to provide comments on the draft statement to the editor of *Fisheries* or the authors before the final policy statement appears in the January 1994 issue of *Fisheries*.
4. After serving for two years, Stephanie Goudreau will be resigning as ECC Chair at the annual chapter meeting in January. Any ECC member or other chapter member interested in leading this committee should contact Stephanie (704-652-4257) or President Frank McBride (919-733-3633) as soon as possible.

Submitted by Stephanie Goudreau, ECC Chair

ENVIRONMENTAL CONCERNS COMMITTEE GUIDE TO REPORTING ENVIRONMENTAL VIOLATIONS Compiled by Tom Jones, NC Division of Soil & Water Conservation

ANIMAL WASTE

Animal operations cannot discharge into waters of the State, and even animals standing in a stream or ditch leading to a body of water constitutes a discharge. This may lead to sludge buildup or excessive algae growth in a stream or death of riparian trees from ammonia toxicity. If an animal operation is having an adverse impact on water quality, contact the NC Division of Environmental Management (DEM).

As of February 1993, new animal operations must be designed, constructed, operated, and maintained according to US Soil conservation Service standards and specifications. To determine if a specific animal operation has been built to standards, contact your local Soil and Water Conservation District (listed under county in telephone book) or the US Soil Conservation Service (listed under US Government).

POLLUTION

Wastewater treatment plants and industries must have an NPDES permit to discharge into waters of the State. NPDES permits include effluent standards for dissolved oxygen, turbidity, biochemical oxygen demand, and other criteria that must be met by the discharger. If you suspect a discharger does not have an NPDES permit or that water quality standards are being violated either by a discharger or by a nonpoint source such as agriculture, contact DEM.

SEDIMENTATION

It is illegal to violate the turbidity standards designated for waters of the State, whether by a point source or nonpoint source such as agriculture. If you suspect water quality standards for turbidity are being violated, contact DEM.

Report suspected violations to water quality standards to the NC Division of Environmental Management, Water Quality Section:

Asheville	(704) 253-3341	Mooreville	(704) 663-1699
Winston-Salem	(919) 761-2351	Raleigh	(919) 571-4700
Fayetteville	(919) 486-1541	Wilmington	(919) 395-3900
Washington	(919) 946-6481		

WETLANDS/WATERS OF THE STATE

Wetlands and waters of the State cannot be filled or dredged without a 404 permit from the US Army Corps of Engineers and 401 Water Quality Certification from the DEM. Activities such as stream relocation, installation of stream crossings, and placement of fill dirt in wetlands by the NC Department of Transportation, agriculture operations, private individuals, etc. must be permitted by the Corps and the DEM.

Report suspected violations involving wetlands and waters of the State to the US Army Corps of Engineers.

Asheville	(704) 271-4855	Raleigh	(919) 876-8441
Wilmington	(919) 251-4467	Washington	(919) 975-3123

WILDLIFE

Report suspected violations to hunting and fishing regulations to the NC Wildlife Resources Commission:

Statewide	(800) 662-7137	In the Raleigh area	(919) 733-7191
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EXCELLENCE IN FISHERIES EDUCATION AWARD

The American Fisheries Society (AFS) Excellence in Fisheries Education Award was established in 1988. The award is administered by AFS' Education Section and is presented annually to an individual to recognize excellence in organized teaching and advising in some aspect of fisheries education. Nominees may be involved in extension or continuing education, as well as traditional college and university instruction. Nomination deadline is June 1, 1994. Additional information can be obtained from:

Matt Sabo
Chairman-Excellence in Fisheries Award Committee
Louisiana State University
Baton Rouge, LA 70803

ELECTION FOR CHAPTER OFFICERS

The Nominating Committee presents the following slate of candidates for consideration:

President-Elect: Don Degan
 Reid Garrett

Secretary-Treasurer: Shari Bryant
 Kent Nelson

The office of President-Elect is essentially a two-year commitment: The first year is spent as President-Elect whose primary responsibility is chairing the Program Committee, and the second year is spent as Chapter President.

The office of Secretary-Treasurer is also a two-year commitment. This person is responsible for preparing 8minutes for all meetings, handling Chapter correspondence, maintaining financial records, handling the Chapter's bank account, and several other jobs.

CANDIDATES FOR PRESIDENT-ELECT

Mr. Don Degan - Don graduated with a Master's degree from the University of Wisconsin at Stevens Point in 1973. He worked for the Iowa Department of Natural Resources as a district fisheries manager for the next eight years. Don accepted employment with Duke Power Company in 1981. His current research interests at Duke include reservoir fish population dynamics. Don has developed an expertise in hydroacoustics working primarily with forage fish. He is currently serving on the Southern Division AFS Reservoir Committee.

Mr. Reid Garrett - Reid graduated from Auburn University with a Master's degree in 1983. He accepted employment with Carolina Power and Light Company following graduation. Reid's early responsibilities included doing aquatic toxicological work for the company. His responsibilities have since been expanded to include fisheries concerns at one of the company's project sites. Reid is a member of the American Fisheries Society and the Society of Environmental Aquatic Toxicology and Chemistry. He is currently serving as the program chairman for the Carolina Area Aquatic Toxicologists.

CANDIDATES FOR SECRETARY-TREASURER

Ms. Shari Bryant - Shari graduated from Clemson University with a Master's degree in 1986. Her thesis focused on larval striped bass population dynamics in culture ponds. After graduation, shari began working for the North Carolina Wildlife Resources Commission as an assistant fisheries biologist. She was promoted to district biologist in 1989. Shari's work concentrates on managing largemouth bass, crappie, and hybrid striped bass in reservoirs. She is currently serving on the Southern Division AFS Small Impoundments Technical Committee.

Mr. Kent Nelson - Kent graduated with a Master's degree from Virginia Tech in 1978. He began working for the North Carolina Wildlife Resources Commission as a habitat biologist after graduation. He became a district fisheries biologist in 1983 and has been regional fisheries research coordinator since 1989. Kent has extensive experience working on fisheries in coastal streams and rivers, particularly with striped bass in the Roanoke River. He has served on the Southern Division AFS Warmwater Streams Committee and is currently serving on the Striped Bass Committee.

NOMINATING COMMITTEE:

Scott Van Horn-Chairman, Buzz Bryson, and Jim Rice.

Please take the time to review the candidates' biographical sketches, mark the enclosed ballot, and mail it to Scott Van Horn by January 5, 1994.

BALLOT

PRESIDENT-ELECT

Don Degan ()

Reid Garrett ()

SECRETARY-TREASURER

Shari Bryant ()

Kent Nelson ()

-----FOLD ALONG LINE-----

Stamp

Mr. Scott Van Horn
1517 E. Geer Street
Durham, NC 27704

-----STAPLE-----

SHELF BREAK SNAPPER GROUPE FISHING TRIP

Your North Carolina AFS Annual Chapter Meeting hosts have arranged an optional offshore fishing trip on Monday, January 17, 1994, one day prior to our meeting.

The Carolina Princess headboat will run to the Shelf Break Zone at the edge of the Gulf Stream, to bottom fish for vermillion and red snapper; gag, snowy, and red grouper; knobbed, whitebone, red, and other deepwater porgies; bigeye; tilefish; grunt; amberjack; dolphin; triggerfish; and myriad other species occupying this unique zone.

Tackle and bait is provided, and an inexpensive galley on board provides meals, drinks, and snacks. Bring a camera and film, and a cooler to take home your fish.

The Carolina Princess has given us a special reduced fare of \$45 per person. AFS meeting attendees are encourage to come a day early, come on out fishing, and bring along family members.

Space is limited, and reservations required. Have a credit card handy, and telephone the Carolina Princess at 1-800-682-3456 or 1-919-726-5479 to reserve your slots.

The boat is docked at the near end of the Morehead City waterfront, just behind the Ottis Fish House and Restaurant, near the police station. Be at the dock at 5:30 a.m. for departure at 6:00 a.m. sharp. We will return to shore at 5:00 p.m.

Call me at 919-872-1174 if you need further details.

Bob "Bubba" Goldstein



EDITORIAL NOTE:

If you did not receive your September or December newsletter, please call or write to let me know.

Items submitted for insertion in the newsletter need to be provided on an IBM-compatible diskette in an ASCII format or WordPerfect, if possible.

ANNUAL CHAPTER MEETING PRE-REGISTRATION

Please complete the form below and return to Liz Noble by January 7, 1994.

Name:

Agency:

Address:

Phone:

Please indicate the meeting plan in which you are interested. If you are completing this form for more than one person, please indicate the number of participants in each plan. **DO NOT SEND MONEY WITH THIS FORM.**

_____ \$46.00 Registration, lodging, banquet, social, meals

_____ \$15.00 Registration, lunch on January 19

_____ \$13.00 Banquet and Social on January 18

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Liz Noble, Chairman
Arrangements Committee
N.C. Division of Marine Fisheries
P.O. Box 769
Morehead City, NC 28557

-----STAPLE-----



8480 Garvey Drive
Raleigh, NC 27604