



AMERICAN FISHERIES
SOCIETY



NEWSLETTER

SEPTEMBER 2004

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We would appreciate your comments on this electronic version of the NC Chapter Newsletter. Please send all responses to Jerry Finke (jerry.finke@ncwildlife.org).

President's Message – Mallory Martin

I recently attended a fisheries conference that featured Ted Turner as the keynote speaker. "Captain Outrageous," as Ted was known in the 1970s, became famous first for sailboat racing, particularly for winning the America's Cup of sailing in 1977. Later, Ted went on to found CNN, the first 24-hr TV news network, and with Hollywood wife Jane Fonda, became the owner-sometimes-manager of Atlanta Braves baseball and other professional sports teams. Nowadays, Ted spends his time managing possibly the largest privately-owned landholdings in the world – some 2 million acres of forest and range lands in North and South America. Today's connection between Ted Turner and the fisheries world is his passion for land- and watershed restoration and management for native species (including American bison in the western US).

Ted's keynote address comprised a rambling 15-minute monologue on war (in Iraq and elsewhere), nuclear weapons, fossil fuel dependence, global climate change, and human population explosion. His views are effectively summarized by a bumper sticker proclaiming "Save the Humans" (available by request to Ted). Significantly, amid these depressing and overwhelming themes, a note of optimism emerged: that is, the solution to these weighty and global issues lies in progressive leadership. Further, Ted urged conference attendees to practice and implement progressive leadership at all levels of our personal and professional lives.

Here's where AFS comes in: As one of the most respected voices for environmental management, AFS provides the framework for us to develop and express that progressive leadership. At the national (and international) level, AFS is active in leadership and policy issues directly affecting Ted's global concerns. As AFS members, we can participate in leadership training and communications workshops that better prepare us to influence these global issues, even if only at a local level. Within our chapters we can participate in continuing education workshops and other professional collaborations that enhance our effectiveness in addressing critical concerns. The NC Chapter is especially effective at supporting and encouraging professional development of fisheries students – the progressive leaders of the very near future. Even at the committee level, your AFS chapter offers outlets to release your "inner leader" through activities like preparing position statements and resolutions on critical environmental issues.

I may not necessarily share all aspects of Ted Turner's pessimistic world view. The optimist in me wants to believe that collectively we can solve the heavy issues by practicing progressive leadership. AFS can be the vehicle for you to become a progressive leader – get involved!



Minutes of the September 2004 EXCOM Meeting

[Click here to view the minutes from the September 2004 EXCOM Meeting.](#)

Submitted by Brian McRae, Secretary-Treasurer

NCSU Student Subunit Report

This summer the student sub-unit was a whirl wind of activity. With most students out of classes for the summer there was time to do fieldwork, attend a special summer field camp, go fishing, plan a feast and prepare for the parent society meeting in Madison.



Technician Gery Cox and graduate student Warren Mitchell prepare to deploy a hydroacoustic transducer in the Roanoke River to estimate run size of several anadromous species.

Summer Field Studies - Many of our members conducted field research this summer. Through our FISH program (Fisheries Interns and Student Helpers); undergraduate students were connected with graduate students for single or multi day field experiences. Graduate students, benefited from the field help and undergraduates benefited from the hands on experience. The subunit will continue to facilitate these sorts of opportunities through a new on-line calendar system. Graduate students and faculty can post requests for field help on a calendar by logging on to our web site.

Students wishing to volunteer can log on the web site and sign up for these opportunities. This calendar system is still new and we are waiting to see how well it catches on. If you are interested in checking it out, log on to: http://www.ncsu.edu/stud_orgs/sfs/calendar.html.

Summer Camp - Students attended the NCSU Fish and Wildlife Summer Camp. Summer Camp is an 8 week required field course for all Fish and Wildlife majors at NCSU. Students live on site and learn about, ecology, field biology and various sampling techniques. The subunit awarded fisheries undergraduate Russell Rigsbee with a \$300 scholarship to attend Fish and Wildlife Summer Camp. Russell gave a brief presentation on his experiences at our last meeting.



Undergraduate Russell Rigsbee looks for aquatic invertebrates during Fish Week at NCSU Summer Camp (photo by Tom Kwak).

Mark Recapture Event - One of the activities at Summer Camp, is a mark recapture exercise, taught by Tom Kwak. Several of our members assisted with catching fish, during both the mark and recapture phases of this exercise.

Madison 2004! - Our subunit represented the state chapter at the national meeting in Madison, Wisconsin last month with eight students in attendance. Five of the eight students gave presentations. Students attended workshops and assisted with AV and technical support at the meeting. The state chapter donated \$300 for

travel (Thank You!) which was matched by \$300 from the student subunit.



From left to right: Jeff Buckel, Jack Tuomikoski, Kara Schwenke, Warren Mitchell, Lori Davias, and Summer Burdick, pose for a picture at the annual parent society meeting in Madison, Wisconsin.

Fish Fry - On September 11th we held a fish fry at Schenk Forest, in Raleigh. This social event was well attended, attracted new fisheries students and helped to boost membership. Approximately 35 people showed up to eat 4 species of delectable fried fish, hush puppies, and slaw. We hope to reinstate this event as an annual tradition.

Up Coming Events - The subunit has several events in the works for this fall. Several student volunteers will assist the Wildlife Resources Commission with public outreach at the North Carolina State Fair next month. In an effort to get more young women involved in fisheries, we will hold a fishing clinic for female NCSU students next month. A delegation of students will be attending the Student Fisheries Colloquium in St. Augustine Florida this November.

Up Coming Speakers - October 5th, Greg Cope, Aquatic Toxicologist with NCSU; November 2nd, Angie Rogers, Non-game fisheries biologist with the WRC. As always, anyone is welcome to attend these talks. Meetings are held at 7 pm on the first Tuesday of each month in Gardner Hall room 2207.



From left to right: Ed Malindzak, Nolan Banish, Mike Holliman, and Warren Mitchell man the fryer for the 2004 Student Fisheries Society Fish Fry.

Please check out the sub-unit web page at http://www.ncsu.edu/stud_orgs/sfs/ to learn more about our group and upcoming activities. The sub-unit list serve is the best way to stay up to date on fisheries related happenings at NCSU. Directions on how to subscribe are available at the web site.

Contact Summer Burdick (smburdic@unity.ncsu.edu) if you have any questions about Sub-unit events.

Submitted by Summer Burdick, Student Subunit President

Education Committee

As always, I would appreciate any comments or suggestions regarding items for the Education Committee. While I have focused primarily on continuing education for members, there are other ways we as a chapter can provide education outside of our membership. If anyone has any suggestions, please contact me at dorseylg@vnet.net or 704-986-6109.

Submitted by Lawrence Dorsey, Education Committee Chair

Environmental Concerns Committee

Please see the EXCOM minutes for a detailed report of recent ECC activities.

As always, we welcome any recommendations on issues of concern and supporting information from the Chapter membership. Please help the committee help the Chapter encourage aquatic resource conservation in North Carolina. If Chapter members would like to participate in addressing any issues or have ideas or suggestions please contact Dave McHenry at E-mail: mchenryd@brinet.com or use the comment form on the ECC web page.

Submitted by David McHenry, Environmental Concerns Committee Chair

News from around North Carolina

Call for Papers for the 2005 NCAFS Annual Meeting, Duane Harrell, Duke Power – The North Carolina chapters of the American Fisheries Society and The Wildlife Society announce the joint annual meetings of both organizations to be held concurrently at The Summit meeting facilities, Greensboro, NC, Tuesday-Wednesday, February 8-9, 2005. The theme is “*Fisheries and Wildlife Management in Riparian Systems: Where Wet and Dry Meet*”. This joint meeting will feature keynote speakers, continuing education workshops, contributed papers and technical sessions. A fisheries continuing education workshop will be presented by Doug Dixon, Electric Power Research Institute, on the topic of the 316b rule for fish impingement and entrainment at cooling water intakes. A wildlife continuing education workshop topic will be announced.

[Click here to view "Call for Papers for the 2005 NCAFS Annual Meeting"](#)

Joint technical sessions on management in riparian systems will feature keynote addresses by **Sam Pearsall**, Director of Science for the NC Nature Conservancy, and **Andy Dolloff**, Professor of Fisheries and Coop Unit Leader at Virginia Tech. Contributed papers on management in riparian systems will be featured in the joint technical sessions. Meeting organizers specifically seek presentations of research findings, technical reports, and case studies related to riparian systems and habitats and resources that are riparian dependent. All contributed papers will be scheduled for 20-minute oral presentations, including 5 minutes for questions.

A combined evening social will feature food and beverage, raffles and drawings, and lots of fun and good fellowship.

Technical sessions will follow on the second day with separate AFS and TWS papers and presentations. Meeting organizers seek general presentations on broad fisheries- and wildlife-related topics. Students are especially encouraged to present research findings. Following the technical sessions, both societies will hold their annual business meetings in the afternoon. The meeting will adjourn upon conclusion of the business meetings.

2004 AFS Parent Society Meeting News submitted by Tom Kwak, NCSU and NCAFS Past-President - By all accounts, the 2004 AFS Parent Society Annual Meeting in Madison, Wisconsin, August 22-26, was a success — and part of that outcome is due to participation by our members! First some facts...1,700 people attended the meeting with 15 concurrent technical sessions, about 800 oral presentations, half were included in symposia, and 180 were presented by students. The program began with an inspirational plenary session about applying the conservation principles of Aldo Leopold to aquatic environments. There were also 120 poster presentations that were well attended during a special poster session and at the Trade-Show Social. **Tom Kwak** was Program Co-Chair and helped organize these technical sessions.



All these student papers required judging for the Best Student Paper and Poster Awards, and **Mike Holliman** stepped up to the plate to organize the student paper judging. He recruited many gracious NC Chapter members to help judge papers, including **Bob Curry, Kent Nelson, Christian Waters, Robert Bringolf, Jeff Buckel, Greg Cope, Joe Hightower, Jim Rice, Summer Burdick, Lori Davias, Warren Mitchell, Alesia Read, and Jenny Vander Pluym**. Five of the 8 students from our student subunit that attended made some really great presentations of their research, as did several of our professional members. In addition, **Lori Davias** and **Jenny Vander Pluym** worked as AV

assistants to ensure that these presentations went smoothly and in the business office to facilitate communications.

There were plenty of opportunities to discuss science, visit with old friends, and make new ones at some sort of social activity each evening. Tuesday night's activity was a Student Job Fair and Social, and **Bob Curry** set up a table there to feature job opportunities in North Carolina and to recruit the best students for jobs and student assistantships in our state. At the business meeting Tuesday, **Fred Harris** stepped up to the podium for the last time as AFS Past President. When Fred left the stage during the installation of new officers, we saw a wide grin that he tried to conceal, but couldn't. I'm sure that Fred's happy to have his life back, but we sure appreciate his service as AFS President — and formally recognized that with our Chapter's Distinguished Service Award last year.

As recipient of the Outstanding Chapter Award from the Southern Division, our chapter's application was submitted to be considered for the Outstanding Chapter Award from the parent society, but this was not our year. The Colorado-Wyoming Chapter received this award among large chapters this year. It just figures, that it would take two states to exceed the accomplishments of our dynamic and energetic chapter!

Finally, Wisconsin has very strict laws when it comes to wasting food and drink resources, and our chapter members made a good showing at the Madison meeting and did our part in consuming vast quantities of grain beverages, assorted sausages, and cheese! So now when we hear such common terms from the upper Midwest as "Leinenkugel", "Johnsonville", and "fried curds," we'll know what those cheese-heads are talking about — You Betcha!

NCDWQ News from Bryn Tracy – Summer Intern at DWQ - Alison L. Price, a third semester Senior in Fisheries & Wildlife Sciences at North Carolina State University, recently completed a summer internship with the Division of Water Quality's Biological Assessment Unit. This was the second year that the Division has co-funded an intern with NCSU's College of Natural Resources (see September 2003 Newsletter http://www.sdafs.org/ncafs/Newsletters/September2003/Sept2003_Low.pdf). In 12 short weeks Alison traveled more than 6,500 miles visiting 29 counties from Cherokee to Halifax sampling 88 streams, and collecting more than one-half of all the freshwater fish species in the state! Alison, who will graduate this December (and is looking for a job in Fisheries, hint, hint) was an invaluable and never-tiring assistant. Her motto was: "Shock 'em, net 'em, and put 'em in the

bucket". And even after losing her balance on slippery substrates and "cooling-off" in the stream, Alison would bounce right up saying: "Nothin' to see here".



Alison Price with two flathead catfish from Muddy Creek, Forsyth County.

By sampling a wide range of streams from minimally impacted mountain streams in the Hiwassee and Little Tennessee River basins to greatly urbanized streams in Charlotte, Greensboro, and Winston-Salem, Alison was able to experience first-hand the wide diversity of our stream fauna. Beautifully-colored tangerine, riverweed, banded, and redline darters; dazzling smoky dace, thicklip chub, and fieryblack and crescent shiners; large schools of redhorse suckers; and two leviathan-sized flathead catfish never failed to impress Alison.

Alison provided much needed assistance to the Basinwide Fish Community program and to the NCSU's - DWQ's Urban Fish Community Study. During her tenure she gained critical skills in the field and laboratory identification of many species of freshwater fish from the Hiwassee, Little Tennessee, Broad, Catawba, Yadkin, Cape Fear, Roanoke, Neuse, and Tar River basins. She gained experience in wadeable stream backpack electrofishing techniques, database data entry and management, instream and riparian habitat assessments, water quality instrumentation, and most importantly, in teamwork. As a young professional, her enthusiasm and eagerness to learn everything she could about stream fish are already sorely missed.

2004 Monitoring - Unlike last year when the sampling efforts were constantly hindered by never ending rains and high flows, this year's efforts have been record setting! Since March 2004, almost 140 stream sites have been evaluated. The sampling season has seen the field work completed on two Ecosystems Enhancement Program projects (Mountain Creek in the Yadkin River basin and Catheys/Hollands Creeks in the Broad River basin), Basinwide Monitoring in the Roanoke, Watauga, Little Tennessee, and Hiwassee River basins, and a project with Dr. Jim Gilliam at NCSU. Thirty sites in the Piedmont portion of the Roanoke River basin were sampled from the Dan River in Stokes County to Chockyotte Creek in Halifax County. The fish communities in the Hiwassee (13 sites) and Watauga River (10 sites) basins had never been assessed by DWQ and more sites were evaluated in the Little Tennessee River basin (22 sites) than ever before. Staff have been assisted most professionally by Dave "Chili-lips" Coughlan and Kim "Squealer" Baker (Duke Power Company), Sarah McRae (Natural Heritage Program), Angie Rogers and Nolan Bannish (NC Wildlife Resources Commission), Bill McLarney and Cal Yonce (Franklin, NC), and Mark Cantrell (USF&WS).

Based upon a cursory examination of the data, new distributional records have been recorded for:

- Little Tennessee River basin – *Ameiurus brunneus*;
- Hiwassee River basin – *A. natalis*, *A. nebulosus*; and *Lepomis cyanellus*; and
- Watauga River basin – *Phoxinus oreas* and *Semotilus atromaculatus*.

The Dan River and its tributaries in Stokes County continued to support a unique fauna including *Exoglossum maxillingua*, *Hypentilium roanokense*, *Scartomyzon ariommus*, *Etheostoma podostemone*, and *Cottus caeruleomentum*. However, no *Thoburnia hamiltoni* or *Noturus gilberti* were collected from any of the small tributaries.



DW

Q Staff sampling Fires Creek, Clay County.

Much of June and all of July were spent assisting Brad Lamphere (UNC-Chapel Hill and soon to be Post-doc at NCSU under Dr. Jim Gilliam) with a WRRI-funded project: "*Stream fish as bioindicators of water quality: assessing threshold responses to urbanization and correlations with invertebrate indices.*" Fifty one sites across a continuum of degrees of urbanization were sampled following DWQ's NCIBI protocols. Approximately 130 sites will have fish, benthic macroinvertebrate, percent impervious area, and an urbanization index data from which correlations and thresholds to measures of urbanization will be calculated. Also assisting in the study were Laura Gillespie (Univ. Miami) and Miller Johnstone (NCSU). For more details on this study, please contact Brad (lamphere@email.unc.edu) or Dr. Gilliam (mailto:james_gilliam@ncsu.edu).



Bigeye jumprock (Scartomyzon ariommus) from the Dan River, Stokes County.

From the Virginia to the South Carolina to the Georgia, and to the Tennessee state lines and from practically Manteo to Murphy, the Staff of the Biological Assessment Unit, "got 'er done in 2004"!



Left to right: Niki Flint, Laura Gillespie, Jeff DeBerardinis, Alison Price, and Bryn Tracy.

For further information on the Division's on-going fish studies, please visit the Biological Assessment Unit's web site <http://www.esb.enr.state.nc.us/BAU.html> or contact Bryn Tracy (bryn.tracy@ncmail.net), Jeff DeBerardinis (jeff.deberardinis@ncmail.net), or Mark Hale (mark.hale@ncmail.net).

Relocation News forwarded by Chad Hallyburton, Museum of Life and Science – My wife and I will be moving to Western Carolina University. My wife has a tenure-track Reference Librarian job at Western Carolina University. I'll be teaching at Southwestern Community College and taking coursework towards a Master's in education at WCU. I hope to stay involved with the student researchers at the Museum, so you've probably not seen the last of my presentations at AFS meetings. Thanks for your support of our Museum volunteers over the years!

SEAFWA 2004 News from Steve Leach, SCDNR – The South Carolina Department of Natural Resources invites you to the 58th Annual Southeastern Association of Fish and Wildlife Agencies Conference, Hilton Head, SC, October 30 – November 3, 2004. The fisheries session will include posters and oral presentations of peer-reviewed manuscripts on marine, estuarine, and

freshwater fisheries topics, including but not limited to management, research, and culture.

Graduate Student Recognition News forwarded by Joe Hightower, NCSU - NCSU graduate student Summer Burdick received a travel grant from the Equal Opportunities Section of the American Fisheries Society. This award covered much of the cost of attending the American Fisheries Society's 2004 annual meeting, held in Madison, WI. Summer also received an Honorable Mention award from the John E. Skinner Memorial Fund. While at Madison, Summer presented a talk on her MS thesis research regarding the response of migratory fishes to removal of a dam on the Neuse River. Her results showed that several migratory species including American shad and striped bass have taken advantage of the restored habitat, with spawning activity detected all the way to Raleigh. **Congratulations, Summer!**

Dam Removal News forwarded by Mallory Martin, NCWRC - The University of Wisconsin-Madison, Department of Engineering Professional Development, will offer the course, *Succeeding with a Dam Removal Project*, November 30-December 2, 2004 in Raleigh, North Carolina. This practical course will evaluate all aspects of dam removal, including: the key decision points, how to remove a dam efficiently and maximize environmental endpoints, engineering and management issues associated with a range of dam types, sediment management and water quality issues related to dam removal, practical approaches to remove both large and small dams. For more information, visit the Web site at <http://epdweb.engr.wisc.edu/brochure/emaG555> or call 800-462-0876 or email custserv@epd.engr.wisc.edu

Sampling Assistance Requests from Jessica Thompson, NCSU - As some of you may be aware, I've taken on the task of teaching ZO420 (Intro to Fisheries Science) here on campus this fall. I'm in the process of redesigning the lab section to provide more specifically management-oriented experience for the students and to have less overlap with the current structure of the Fish Biology lab section. I would really like for the students to get some experience with the type of fieldwork that fisheries researchers and managers do on a day-to-day basis – to that end, I'm looking for some opportunities for the students to volunteer for fieldwork during the fall semester. This fieldwork could be with an NCSU researcher (i.e. grad student) or with the NCWRC or private company -- anything from helping to set and haul nets to doing water quality analysis. If you will be needing volunteers for fieldwork in the fall or if you

wouldn't mind a student tagging along with you, please let me know ASAP that you're interested in this free worker/mentoring opportunity. At this point, I'll need to know the following info: 1. the activity for which you'd like a helper 2. the date(s) you would be looking for someone (this could be approximate at this point if need be, but I will at least need to know whether you'll be going out on a weekday, evening, or weekend) and the number of hours of the trip 3. how many people you would want at a time and whether you'd like someone for multiple days 4. whether the student will need to provide their own transportation or whether they'll be able to catch a ride from campus with you I will let you know immediately if I think a student would be able to help out with your fieldwork, and then I will let you know for sure if one of the students has volunteered to help you by the beginning of September. All you will need to do is provide me the details for your trip (once we know someone has volunteered for your slot) and then send me or my TA a quick email to let me know that the student did in fact come with you. Each student will be receiving a completion grade for their volunteer time.

Marine Resources Population Dynamics Workshop News forwarded by Tom Kwak, NCSU - Announcing the 2nd Annual Marine Resources Population Dynamics Workshop for undergraduates sponsored by the National Marine Fisheries Service and Virginia Tech. All expenses will be paid for the students selected to participate. The workshop will be January 9-14, 2005 in Fort Pierce, Florida. We are looking for excellent students that have a strong quantitative background and an understanding of basic ecology. Please forward this announcement to any students you believe will qualify and be interested. Please contact Dr. Kwak to view the attached flier.

Stormwater Workshop News from Andrea C. Olevano, NCSU Biological & Agricultural Engineering - Intro to Stormwater, Cartaret County Center, October 7, 2004. The workshop will provide an overview of stormwater practices utilized in coastal counties, including: stormwater wetlands, innovative wet ponds, bioretention, and permeable pavement. An afternoon tour of several BMPs in Cartaret and Onslow Counties follows a morning classroom session. Transportation will be available for the tour. This workshop is sponsored by NCSU Biological and Agricultural Engineering Extension, NCSU Agricultural and Resource Economics, Sea Grant of NC, Coastal Training Program of NC, and the Division of Coastal Management. For more information, please visit our website at <http://www.bae.ncsu.edu/workshops>.

Stream Restoration News from Ellen Colodney - If anyone would like me to fax them monthly updates on the stream stabilization and riparian buffer plants available at Coastal Plain Conservation Nursery (Species, size, quantity and prices) please let me know. Coastal Plain Conservation Nursery, 3067 Connors Drive, Edenton, NC 27932. Phone 252-482-5707, fax 252-482-4987, e-mail liv2plant@earthlink.net.

Spotlight on Students and Young Professionals

Mike Holliman, Post-Doctoral Research Associate, NCSU - Mike Holliman recently joined the NC Cooperative Fish and Wildlife Research Unit at NC State as a Post-Doctoral Research Associate, but this Carolina adventure is a return to his alma mater. Usually, it's frustrating for us university professors, because just when our students have learned something useful and become good scientists — they leave for greener pastures! In this case, we're lucky to have Mike return to wolf country, and put his experiences from North Carolina and his new Alaska expertise to work on fisheries problems here at home.

A native of Arkansas, Mike began his undergraduate career at NC State in 1992 and graduated in 1995. While pursuing his B.S. degree in Fisheries and Wildlife, Mike received a scholarship from the North Carolina Wildlife Federation, worked as a student research assistant on the Jordan Lake Largemouth Bass Research Project, and participated in the College of Agriculture and Life Sciences Honors Program. In partial fulfillment of the requirements of the Honors Program, he conducted research on in-water voltage measurements and electrofishing-induced mortality of juvenile largemouth bass with Randy Jackson and Rich Noble.



Mike Holliman - out standing in his field!

Mike's graduate career at NC State spanned from 1996 to 1998, and it was his good fortune to work with Rich Noble as his advisor. His thesis topic was electrofishing efficiency for capturing cichlids. Field work was conducted in the wilds of Puerto Rico with help from

Alexis Alicea and Tim Churchill (NCSU student and staff), and Jim Reynolds (Alaska Cooperative Fish and Wildlife Research Unit Leader). While working on his Master's degree in Zoology, Mike served as Vice-President of the Student Subunit of the NC Chapter of the American Fisheries Society. After his experiences in Puerto Rico, he decided that a change in latitude (and longitude) was just what he needed, so he packed up the old Chevy S-10, discarded the rest of his stuff, and moved to Fairbanks, Alaska, to pursue a doctoral degree in Fisheries under the guidance of Jim Reynolds.

While working toward his degree in Fairbanks, Mike developed a love for ice hockey. After playing hockey for a few years, he developed his skating skills to the point of being able to perform a "hockey stop", forgoing the three other popular stopping methods (1. run into the boards; 2. run into someone else; 3. fall down and slide to a stop) used by neophyte hockey players. Mike's dissertation topic was electrofishing-induced fish injury. He and Jim conducted injury experiments on white sturgeon, chinook salmon, rainbow trout, channel catfish, largemouth bass, bluegill, and hybrid striped bass to develop a mechanistic model for injury. Additionally, opportunities arose for collaborative efforts with John Holmes (Abernathy Fish Technology Center, Longview, WA) on injury, growth, and mortality of juvenile chinook salmon exposed to electroshock and with Tom Kwak (NC Cooperative Fish and Wildlife Research Unit) on electroshock effects on the endangered Cape Fear shiner and threatened spotfin chub. These collaborative efforts led to Mike's return to NC State, where he collaborates with Tom Kwak, Greg Cope, NC Wildlife Commission biologists, and other NC Chapter members on research projects including an evaluation of electrofishing effects on freshwater mussels, electrofishing vulnerability of invasive fishes, and habitat suitability of the shortnose sturgeon.

We hope that Mike won't miss, the salmon fishing, skijoring, hockey, and frostbite of his arctic past. Welcome back, Mike, you can sell your parka now!

Submitted by Tom Kwak, NCSU

Meetings of Interest

58th Annual Southeastern Association of Fish and Wildlife Agencies Conference – Oct. 30-Nov. 3, 2004, Hilton Head, SC. www.dnr.state.sc.us/seafwa.

7th International Conference on Shellfish Restoration – Nov. 17-20, 2004, Charleston, SC. <http://www.scseagrant.org/icsr.htm>.

First National Conference on Ecosystem Restoration – Dec. 6-10, 2004, Wyndham Palace in Lake Buena Vista, FL <http://conference.ifas.ufl.edu/ecosystem>.

Joint annual meeting of the North Carolina chapters of the American Fisheries Society and The Wildlife Society – Feb. 8 & 9, 2005, The Summit meeting facilities, Greensboro, NC. *Fisheries and Wildlife Management in Riparian Systems: Where Wet and Dry Meet*. <http://www.sdafs.org/ncafs/index.htm>.

2005 Southern Division Spring Meeting - Feb. 10-13, 2005, Virginia Beach Resort Hotel and Conference Center, Virginia Beach, VA <http://faculty.virginia.edu/vcafs/meetings.html>.

8th International Conference on Artificial Reefs and Artificial Habitats – April 10-14, 2005, Biloxi, MS. <http://www.lsu.edu/faculty/jhcowan/CARAH.htm>

If you are aware of meeting information that would be beneficial to the membership of the NCAFS, please send it to the newsletter editor for inclusion in the next newsletter. djcoughl@duke-energy.com

Employment Opportunities

Inshore Waters Fishery Observer, The Institute for Coastal and Marine Resources (ICMR) at East Carolina University – Seeking applicants for employment in the Inshore Large Mesh Gill Net Observer Program within the state of North Carolina. ICMR has the responsibility for conducting daily trips with commercial fishers, primarily in the Albemarle and Pamlico Sounds, Neuse River, and adjacent waters, for the purpose of observing and recording the direct catch and the bycatch of non-targeted finfish species in this fishery. Each observer will be deployed on inshore commercial fishing vessels 3 times per week in his/her respective zone. Adverse weather conditions and equipment failure will affect the number of successful trips, but it anticipated that this will result in about 130 trips per year at a pay rate of \$10.50/hour plus mileage. Occasional overnight stays may be required. Commercial fishers usually leave the dock early in the morning and finish by mid-day, depending on the catch. Each observer will receive training to collect data under the NC Division of Marine Fisheries (DMF) protocols, and National Marine Fisheries Service (NMFS) staff will provide training on protected species ID, handling, and tagging protocols. Observers will be responsible for contacting and establishing weekly trips with commercial fishers from a list of all active fishers in his/her zone. Successful applicants should have at a minimum of college coursework in biological sciences,

demonstrated skills in interacting with the public, good work ethic, and a personal vehicle. Additional attributes could include a post-secondary education degree, preferably in biology, fisheries, marine biology, or sociology; and computer skills with word processing and spreadsheets. Five one-year temporary observer positions are available, with possible option for short-term renewal. To apply for one of these positions, send a resume accompanied by a cover letter expressing interest, and names of three references to: Dr. Roger A. Rulifson, Director, LMGN Observer Program, Institute for Coastal and Marine Resources, Mamie Jenkins Bldg., Greenville, NC 27858-4353. Telephone 252-328-1757; Email: rulifsonr@mail.ecu.edu.

Fishery related jobs can be found on the AFS web site at: <http://www.fisheries.org/jobs.html>. This site also offers links to job postings on non-AFS web sites.

If you have a fishery-related job opening and would like to post it in the next NCAFS Newsletter, please send your announcement to the newsletter editor.

djcoughl@duke-energy.com

Valuable Links – Courtesy of AFS

The American Fisheries Society Home Page offers a wealth of links to assist you in your fishery endeavors. Information on ordering AFS books, public outreach, annual meetings, chapter links and joining the AFS can be found at <http://www.fisheries.org/>.

Additional links can be found courtesy of Dr. Mike Allen and the Southern Division, AFS.

<http://www.sdafs.org/links/msallen1.htm>