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**Welcome** to the homepage of the **South Carolina Chapter** of the American Fisheries Society.

The South Carolina Chapter was chartered on September 24, 1982. Our membership includes numerous professionals from state and federal resource agencies, private industry, education institutions, and non-profit organizations.

For more information about the South Carolina Chapter, including information on how to join, see our [Membership](#) page. For information about our parent organization, the American Fisheries Society, click [here](#).

This website is a service provided for members and all others interested in the activities of our Chapter. This site contains information about our Officers, current news including awards, and upcoming and recent Meetings.

We hope you find this site useful and informative.

Send comments or report problems on this site to the [Webmaster](#). To bookmark this site for easy access in the future, press Ctrl+D.

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<http://www.scafs.org>

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## What's New

[2005 Annual Meeting Information and Registration Packet](#)

[Palmetto Pisciforum - Summer 2004](#)

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## 2003 Jack Bayless Award

Steve Leach was announced as the winner of the 2003 Bayless Award at our Annual Meeting on February 2, 2004 at the Baruch institute. The award was for Steve's presentation, Beneficial effects of increased river flow and upstream fish passage on anadromous alosid stocks, which he gave on February 3, 2003.

Steve Leach works as Assistant Diadromous Fish Project Coordinator at the South Carolina Department of Natural Resources, where he has served as a fisheries biologist for over five years.

The Bayless Award was created in honor of Jack W. Bayless, to recognize the best South Carolina presentation/paper given at each annual chapter meeting. Each year, volunteer judges evaluate presentations in the following categories:

- Significance to aquaculture and fisheries,
- Experimental design and analysis,
- Organization,
- Presentation, and
- Quality of visual aids.

Presenters are scored on a scale of one to four, four being excellent, for each category. The presenter with the highest total score receives the award. Any members interested in volunteering as judges for the next annual meeting, or joining the Awards Committee, should contact Chris Thomason or Leo Rose.

Congratulations Dave!

The Bayless Award was created in honor of Jack W. Bayless, to recognize the best South Carolina presentation/paper given at each annual chapter meeting. Each year, volunteer judges evaluate presentations in the following categories:

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## President

**[Leo Rose](#)**  
(803) 734-1280

## President - elect

**[Marcel Reichert](#)**  
(843) 953 – 5778

## Secretary & Treasurer

**[Jason Moak](#)**  
(803)822-3177

## Past-President

**[Chris Thomason](#)**  
(803)259-5474



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The **American Fisheries Society** (AFS), founded in 1870, is the oldest and largest professional society representing fisheries scientists. The South Carolina Chapter of AFS was chartered on September 24, 1982.

Objectives of our organization include conservation, development and wise utilization of the fisheries, promotion of the educational, scientific, and technological development and advancement of all branches of fisheries science and practice, and exchange and dissemination of knowledge about fish, fisheries and related subjects.

The annual dues for South Carolina Chapter members is \$5.

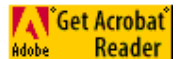
If you would like to become a member of the South Carolina Chapter of the American Fisheries Society, click on the link below to download a membership form. If you would like more information about our Chapter and its activities, call or email the Chapter President, [Leo Rose](#).

[Membership Form](#) (PDF, 20 KB)

If you would like additional information about our parent organization, the American Fisheries Society, click on the link below.

[American Fisheries Society Homepage](#)

**About PDF Documents:** A PDF document looks identical to a printed copy and affords you many options for viewing and printing. Most often, the latest versions of Netscape Navigator and Microsoft Internet Explorer come with the Adobe Acrobat reader plug-in, equipping you to view PDF pages automatically in your browser. If you do not have the reader (your browser will let you know when you click on a PDF link) you can download it free from [Adobe](#).



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## 2005 Annual Meeting

The 2005 Annual Meeting of the South Carolina Chapter (Chapter) will be held February 7 - 8 at Clemson University's Outdoor Laboratory facilities. As has become customary, the meeting will be held jointly with the South Carolina Fishery Workers Association (SCFWA). Click on the link below to download a copy of the registration packet.



[2005 SCAFS-SCFWA Annual Meeting Registration Packet](#) (PDF 138KB)



The program will include contributed papers on any fishery related topic. Presentations may include completed projects or works in progress. We urge students to attend and we are particularly interested in student presentations. The SCAFS sponsored "Jack Bayless Best Paper" and the SCFWA sponsored "Best Student Paper" will be presented.

**NEW! Download the Meeting Program and SCAFS Business Meeting Agenda:**

[2005 Meeting Program](#) (370 KB, PDF)

[205 SCAFS Business Meeting Agenda](#) (169 KB, PDF)

### RAFFLE!

The Clemson Student Subunit will hold a raffle at the 2005 Annual Meeting. Tickets are \$1 each, and prizes include outdoor items and gear. Donations are welcome.

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## Pisciforum Resurrected

The Executive Committee, with the help of Jim Long, has resurrected the Chapter newsletter from several years of hiatus. The newsletter will be issued twice per year, in the Summer and Winter. If you are interested in helping with newsletter or if you have items you would like to submit for publication, please contact [Jim Long](#).

Click on a link below to view or download an issue of the Palmetto Pisciforum.

[2004 Palmetto Pisciforum - Summer - Volume 16 No. 2](#) (PDF, 941 kb) **NEW!**

[2004 - Palmetto Pisciforum - Winter - Volume 16 No. 1](#) (PDF, 1.21 MB)

[2003 - Palmetto Pisciforum - Summer - Volume 15 No. 2](#) (PDF, 549KB)

[2002 - Palmetto Pisciforum - Winter - Volume 15 No. 1](#) (PDF, 200KB)

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## Bylaws of the South Carolina Chapter

To download a PDF copy of the Bylaws, click [HERE](#).

### Section 1 - Names and Objectives

The name of this organization shall be the South Carolina Chapter of the American Fisheries Society, hereinafter referred to as the Chapter. The purpose of the Chapter shall be those of the American Fisheries Society, as set forth in the Constitution of the Society, hereinafter referred to as the Parent Society. Subunits may be established at the direction of the membership to fulfill the objectives of the Chapter.

### Section 2 - Membership and Dues

Membership in the Chapter shall be available to anyone with an interest in the fishery resources of South Carolina, in accordance with the Constitution and Bylaws of the Parent Society. Members pay dues annually and their membership extends through the calendar year (only) for which dues are paid.

Dues shall be collected annually to cover reasonable expenses of the Chapter and its Committees, subject to review of the membership. The amount of dues will be established initially, and may be subsequently adjusted if necessary, by majority vote of the membership at an annual meeting.

Membership in the Parent Society shall be paid by the Chapter, on request, for any person elected to an Office in the Chapter, for the tenure of that Office.

### Section 3 - Meetings

The Chapter shall hold at least one meeting annually at a time and place designated by the Executive Committee. The program at the annual meeting shall be the responsibility of the Program Committee. The business of the Chapter will be conducted during a business session at the annual meeting, in accordance with the Constitution of the Parent Society, and Robert's Rules of Order. Special meetings and workshops may be scheduled during the year by the Executive Committee and planned by the Program Committee.

The Executive Committee may assess each registrant attending a meeting or workshop a registration fee over and above annual dues to cover the costs of the meeting and associated Chapter activities.

### Section 4 - Officers

The officers of the Chapter shall consist of a President, a President-Elect, and a Secretary-Treasurer.

Officers shall be elected biennially at an annual meeting. Only active members of the Parent Society are eligible to serve as officers of the Chapter. Terms of office shall be two years, and shall commence at the close of the Chapter meeting at which elections are held. In the event an office is vacated, the Executive Committee shall appoint a qualified replacement to fill the unexpired term.

In the event of a cancellation of an annual meeting at which an election would otherwise be held, the officers and the members of any committee shall continue to serve until the next scheduled meeting.

### Section 5 - Duties of Officers

The President of the Chapter shall preside at all meetings, chair the Executive Committee, represent the Chapter on the Executive Committee of the Southern Division and at the American Fisheries Society meetings, and make appointments and perform other duties and functions as are authorized.

The President-Elect shall chair the Program Committee and shall assume the duties of the President if the latter is unable to act.

The Secretary-Treasurer shall keep the official records of the Chapter, shall record the minutes of Chapter meetings, and shall collect and be the custodian of any funds collected by or allotted to the Chapter. The Secretary-Treasurer shall disburse funds as authorized by the Executive Committee or the membership, and submit a record of receipts and disbursements at the annual Chapter meeting.

Other duties may be requested by the Executive Director of the Parent Society or by officers of the Southern Division.

## Section 6 - Executive Committee

The Executive Committee of the Chapter shall consist of the elected officers, the immediate Past President, and Presidents of any established Subunits. The Committee is authorized to act for the Chapter between meetings and to perform appropriate duties and functions.

## Section 7 - Chapter Committees

Standing Committees shall include:

**Nominating**, which recommends candidates for offices and conducts a ballot election at the annual meeting.

**Membership**, which recruits new members for the Chapter and the Parent Society.

**Resolutions**, which develops and recommends resolutions for consideration by the Chapter membership.

**Awards**, which evaluates presentations at the annual meeting for the Jack Bayless Award for best paper and considers special awards for approval by the Executive Committee.

**Bylaws**, which conducts an annual review of the Chapter Bylaws and recommends changes, if any, to the Executive Committee for consideration by the Chapter membership.

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The terms of office for members of Chapter Committees shall end upon the discharge of the duties for which they were appointed, or at the next annual meeting of the Chapter, whichever comes first.

## Section 8 - Voting and Quorum

Decisions at Chapter meetings shall be by simple majority, except that changes to these bylaws shall require a 2/3 majority of those present and voting.

A quorum at any meeting for the transaction of official business shall be 12.

## Section 9 - Honors and Awards

The Jack Bayless Award will be presented annually to the author of the best paper, as judged by the Awards Committee, given during the Technical Session of the previous annual meeting. The Award will consist of a plaque honoring the memory of the late Jack Bayless, inscribed with the name of the recipient and the year of the meeting. The plaque will be procured by the Secretary-Treasurer upon receipt of a report from the Chair of the Awards Committee at the end of the meeting at which papers were judged.

The Chapter shall present other honors and awards as directed by the membership.



## Section 10 - Amendment of the Bylaws

The Bylaws of the Chapter may be amended by a two-thirds majority approval of those members voting, provided that prior notice of at least 30 days be given the membership of the proposed change(s). Said change(s) must be approved by the Governing Board of the Parent Society before taking effect.

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## Riparian Buffer Zones

- [Chesapeake Bay Program](#)
- [Iowa State University Agroecology Issue Team Riparian Buffer Project](#)
- [University of Maryland - Riparian Buffer Systems](#)
- [Connecticut River Joint Commission - Riparian Buffers](#)
- [Virginia Department of Forestry - Riparian Forest Buffers](#)
- [University of Nebraska - Lincoln: National Agroforestry Center](#)
- [Little Tennessee River Restoration and Greenway Project](#)

## State and Federal Agencies

- [South Carolina Department of Natural Resources](#)
- [South Carolina Department of Health and Environmental Control](#)
- [US Fish and Wildlife Service](#)
- [US Geological Survey](#)
- [US Environmental Protection Agency](#)
- [US Forest Service](#)
- [National Park Service](#)

## AFS Links

- [American Fisheries Society](#)
- [Southern Division](#)

## Employment

- [South Carolina DNR Jobs](#)
- [American Fisheries Society Employment Resources](#)
- [Federal Jobs Websit](#)

## Student Subunits

- [Clemson University](#)
- [East Carolina University](#)
- [North Carolina State University](#)
- [University of Georgia](#)

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# BYLAWS of the SOUTH CAROLINA CHAPTER OF THE AMERICAN FISHERIES SOCIETY

## Section 1 – Name and Objectives

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# PALMETTO PISCIFORUM

NEWSLETTER OF THE SOUTH CAROLINA CHAPTER OF THE AMERICAN FISHERIES SOCIETY



October 2004

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<http://www.scafs.org>

## President's Message

Loe Rose

Dear Colleagues,

I am pleased and honored that you have selected me for the responsibility of president of the South Carolina Chapter of the American Fisheries Society. I would like to thank Chris Thomason as the outgoing president for his hard work. While he was in office he was successful in reviving the Palmetto Pisciforum from its years on hiatus. Also, he successfully carried out the duties of organizing the fall workshops and the joint annual meetings. Additionally, he represented us at the Southern Division meetings and sat on a number of committees during his time as president. Thanks, Chris for all your hard work. I look forward to carrying on with your efforts. So far this has been an active year for the SCAFS and we look forward to more exciting things in the future.

Our 2003 fall workshop on "Technology in Fisheries" was a success with many participants learning about new GIS tools and the latest and greatest in fish catching, tracking and observing technology. Our 2004 annual meeting was again a joint affair with the South Carolina Fishery Workers Association (SCFWA). For those of you who missed the fun at the Belle Baruch Institute, I have plenty of incriminating

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## Columbia Dam gets a new Fishway

Jason Moak

Within the next year, South Carolina Electric and Gas Company (SCE&G) will begin constructing a fishway at the Columbia Diversion Dam (Dam) on the Broad River in Columbia. Once constructed and operational,



the fishway will provide spawning access to an additional 23 miles of the Broad River for American shad and

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## 2002 Bayless Award Winner



Steve Leach was announced as the winner of the 2003 Bayless Award at our Annual Meeting on February 2, 2004 at the Baruch institute. The award was for

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## SCAFS OFFICERS

### PRESIDENT

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### PRESIDENT-ELECT

MARCEL REICHERT

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### PAST-PRESIDENT

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### SECRETARY/TREASURER

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JIM LONG

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email: [newsletter@scafs.org](mailto:newsletter@scafs.org)

## CALENDAR OF EVENTS

September 26 – October 1, 2004  
International Association of Fish and Wildlife Agencies  
94th Annual Meeting, Atlantic City, NJ  
Contact 1-800/624-4960.

October 31 – November 3, 2004  
SEAFWA 2004 Annual Conference  
Hilton Head, SC  
[stevel@scdnr.state.sc.us](mailto:stevel@scdnr.state.sc.us) or  
[lamprechts@scdnr.state.sc.us](mailto:lamprechts@scdnr.state.sc.us)

## *President's Message* continued from page 1

photos of the event that may be on sale at the 2005 joint annual meeting (Feb 7-8, Clemson). I look forward to seeing you there.

Also, SCAFS is looking forward to the up-coming SEFWA annual conference that will be held in Hilton Head later this year (October 31 – November 3). SCAFS has committed to providing administrative support and sponsorship money for events at that meeting. Additionally, we will provide support in the form of administrative services and infrastructure for the Robust Redhorse Conservation Committee. We are continually looking for ways to protect and enhance the aquatic resources of the state and look forward to participating in future projects.

The 2004 officer elections resulted in Marcel Reichert (President in 2006) as president-elect and Jason Moak as Secretary/Treasurer. Congratulations to both of you on assuming your duties with SCAFS. Also, a special thanks to our newsletter editor, Dr. Jim Long, who has once again packed lots of interesting information in this edition of the Palmetto Pisciforum. Happy Reading.

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## SEAFWA at Hilton Head

The South Carolina Department of Natural Resources will host the 58<sup>th</sup> annual conference of the Southeastern Association of Fish and Wildlife Agencies (SEAFWA) October 31 – November 3, 2004 at the Westin Resort in Hilton Head Island, SC.

The SEAFWA is an organization whose members are the state agencies with primary responsibility for management and protection of the fish and wildlife resources in 16 southeastern states, Puerto Rico and the United States Virgin Islands ([www.seafwa.org](http://www.seafwa.org)). The annual conference is hosted each fall by member states on a rotating basis, to provide a forum for presentation of information and exchange of ideas regarding the management and protection of fish and wildlife resources. Anyone with an interest in wildlife and fisheries management and research is invited to attend. Attendees generally represent state and federal agencies, citizen's organizations, universities, consultants and private wildlife research groups.

Fisheries technical sessions this year will be held on Monday November 1 and Tuesday November 2. Approximately 23 papers will be presented in the general technical sessions on topics ranging from marine to freshwater, and from aquaculture to fish disease. Two special symposia will also be offered: experts on Robust Redhorse, a hot topic for the southeastern fisheries

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November 5 – 7, 2004  
AFS Fourth Annual Fisheries Student Colloquium:  
Migrate South This Winter, St. Augustine, FL.  
[surf.ifas.ufl.edu/colloquium.htm](http://surf.ifas.ufl.edu/colloquium.htm)  
Contact Mark Rogers, mrogers@ufl.edu, 352/392/9617,  
ext. 271.

November 17 – 20, 2004  
Seventh International Conference on Shell Fish  
Restoration, Charleston, SC.  
[www.scseagrant.org/icsr.htm](http://www.scseagrant.org/icsr.htm).  
Contact Elaine Knight, elaine.knight@scseagrant.org.

February 7-8, 2005  
SCAFS/SCFWA Annual Meeting  
Clemson, SC. [www.scseagrant.org/icsr.htm](http://www.scseagrant.org/icsr.htm).  
Contact Leo Rose, President@scafs.org.

## TREASURER'S REPORT

DATE: 9/1/2004

Checking Account Balance:	\$3,300.18
Savings Account Balance:	\$4,105.87
6-Month Certificate of Deposit:	\$3,331.88
<b>TOTAL CHAPTER ASSETS:</b>	<b>\$10,737.93</b>

### BAYLESS continued from page 1

Steve's presentation, Beneficial effects of increased river flow and upstream fish passage on anadromous alosid stocks, which he gave on February 3, 2003.

The Bayless Award was created in honor of Jack W. Bayless, to recognize the best South Carolina presentation/paper given at each annual chapter meeting. Each year, volunteer judges evaluate presentations in the following categories:

- Significance to aquaculture and fisheries,
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management and research community, will present information on that species; and a special half-day session on interdisciplinary management will be offered with experts presenting information on such topics as the intertwining of fisheries, wildlife, and land-use management practices. Additionally, 18 posters on a diverse array of fisheries related topics will be presented, and a specified time will be scheduled when the audience may speak with poster presenters for Q&A.

A detailed agenda will be available soon. This and other conference details can be found at <http://www.dnr.state.sc.us/seafwa/index.htm>. For further information on fisheries sessions, contact Steve Leach or Scott Lamprecht of SCDNR at (843) 825-3388.

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## SCAFS 2004 Annual Meeting Wrap-Up

The 2004 Annual Meeting of the South Carolina Chapter (Chapter) was held at the Belle W. Baruch Institute at Hobcaw Barony near Georgetown, South Carolina on the 2<sup>nd</sup> and 3<sup>rd</sup> of February. As has become customary, the meeting was held jointly with the South Carolina Fishery Workers Association (SCFWA). The meeting was well-attended, with over 60 individual registrants.

The meeting began at noon on Monday, February 2<sup>nd</sup> with presentations in the Conference Center. At the conclusion of Monday's presentations, the Chapter and SCFWA each held their respective annual business meetings. At the Chapter's annual business meeting, Steve Leach was announced as the winner of the 2003 Bayless Award for his presentation, Beneficial effects of increased river flow and upstream fish passage on anadromous alosid stocks, given at the 2003 Annual Meeting at Hickory Knob.

In the absence of outgoing chapter president Chris Thomason, who missed the meeting to be with his expecting wife, Leo Rose, president-elect, convened the chapter business meeting. Leo promptly began his term as chapter president and elections were held. Marcel Reichert was voted president-elect and Jason Moak was reelected as secretary/treasurer.

Leo gave a brief summary of the Chapter's 2003 Fall Workshop on Technology in Fisheries at Saluda Shoals Park, and encouraged attendees to submit suggestions

[Continued on Page 5](#)

## Book Announcement

### FISHES OF THE MIDDLE SAVANNAH RIVER BASIN: WITH EMPHASIS ON THE SAVANNAH RIVER SITE



Barton C. Marcy, Jr.,  
Dean E. Fletcher,  
F. Douglas Martin,  
Michael H. Paller,  
and  
Marcel J. M. Reichert

Photographs by David E. Scott



2005 - University of Georgia Press

This book provides the first comprehensive assessment of the fishes of the Middle Savannah River Basin (MSRB) and is unique in its detail and area coverage of both South Carolina and Georgia fishes. The MSRB represents all of the Savannah River drainage area in the upper coastal plain plus edges of the lower coastal plain. The book focuses on species collected in fisheries studies from 1879 to present based on distribution data from 756 state agency, museum, and university collections, and 50 years of fisheries research studies by the University of Georgia, University of South Carolina, Savannah River Ecology Laboratory, and U. S. Department of Energy Savannah River Site (SRS) scientists. It covers studies within the unique 300 square mile area of the SRS that contain both highly altered aquatic habitats from previous nuclear reactor operations and habitats that remain relatively undisturbed and well preserved since 1951 compared to off-site water bodies.

The book addresses 24 fish families and includes 98 native or introduced fish species collected in the MSRB. It discusses the Savannah River, tributary streams, reservoirs, and ponds from the 1950's to present showing ecological changes, detailed habitat

descriptions, and associated fish assemblages within the region. It presents fish family descriptions and species accounts. Each account includes a species description with notes on similar species, distribution (including a color map of the distribution within the MSRB), and information on size, conservation status, habitat, and the biology of the species. Over 170 color photos illustrate each species (mostly live specimens of differing ages and sex, many in spawning colors) and the diverse habitats. A taxonomic field key for the identification of the families and individual species is uniquely illustrated with 180 black and white plates. The extensive reference list includes close to one thousand cited works. Book is 8 ½ x 11 and has 462 pp., 112 maps, 173 color photos, and 180 B&W plates. The expected publication date is February 2005.

Please send an e-mail to:  
[fishesMSRB@yahoo.com](mailto:fishesMSRB@yahoo.com) if you are interested in receiving future information about this publication or if you are interested in purchasing a copy of the book.

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blueback herring.

Plans for the fishway were developed during the Federal Energy Regulatory Commission (FERC) relicensing process in consultation with the SCE&G, South Carolina DNR, U.S. Fish and Wildlife Service, NOAA Fisheries (formerly NMFS), and Kleinschmidt (SCE&G's consultant). During the relicensing process, participants documented the presence of blueback herring and American shad downstream of the Dam.

The Dam was originally built by the State of South Carolina in 1824, and was modified in 1893 to generate electricity. The Dam now diverts flows from the Broad River into a 3.5 mile long canal that conveys water to the project powerhouse, located adjacent to the South Carolina State Museum on Gervais Street. The canal also serves as a municipal water supply source for the City of Columbia. The Broad River joins the Saluda River approximately two miles downstream of the Dam to form the Congaree River.



Construction of the fishway is slated to begin in April of 2005 and is expected to take six to eight months. The fishway will be a vertical slot, pool and weir design, with 12 pools that will allow fish to negotiate the 14 ft high Dam. Attraction flows ranging from 50 to 200 cfs will be provided at the fishway to help upstream migrants locate the fishway entrances. The fishway was designed to accommodate the upstream passage of up to 250,000 American shad and 2,500,000 blueback herring annually.

Once construction is completed, the upstream fishway will be operated from February 1<sup>st</sup> through May 15<sup>th</sup> each year. The new operating license for the project also requires the release of minimum flows at the Dam, ranging from 550 cfs to 900 cfs, depending on the season of year.

As part of the fishway requirement, SCE&G will also modify an existing, unused intake structure at the powerhouse to provide downstream passage for fish

migrating out of the power canal.

Once construction is completed and the upstream fishway is operational, SCE&G may perform surveys to determine its effectiveness. Details of the monitoring efforts will be developed in consultation with state and federal resource agency personnel.

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### *Annual Meeting* continued from page 3

for topics for the 2004 workshop. Larry Connor, Vice-president of the Southern Division of AFS, highlighted some of the Southern Division's recent activities. After the business meetings, attendees feasted on steamed oysters and low country boil.

On Tuesday, the meeting was resumed with a full morning of presentations. Over the course of the two-day meeting, over 20 presentations were given. The meeting was adjourned just after noon on Tuesday.

### *Meet Your New Officers!*

**Leo Rose** was born and raised in Victoria, Australia. He moved to the United States in 1995 where he graduated from the University of South Carolina with a degree in Marine Science. Leo initially worked at the Riverbanks Zoo Aquarium as an aquarist before he began work with the Department of Natural Resources (DNR) in 1998. At that time he joined the SCAFS and was elected President for the 2004 – 2006 term. He recently concluded a three-year research project in the Congaree National Park focusing on the fish community structure. Currently Leo works in SCDNR's Environmental Programs office where he works as an Environmental Program Coordinator. In this capacity he provides advice and comments on DOT projects, wetlands permitting and FERC licensing issues.

**Marcel Reichert** was born and grew up in Haarlem, The Netherlands. He graduated from the University of Amsterdam and later received his Ph.D. at the University of Groningen. He worked at the Netherlands Institute for Sea Research at Texel on zooplankton-phytoplankton interactions in the North Sea until he moved to the US in 1992. Here, he worked for 12 years at the University of South Carolina as research faculty in the Baruch Institute and the Department of Biological Sciences. His research concentrated on fish ecology, especially in estuarine and freshwater stream environments. Much of his recent research was conducted at the Savannah River Site, where he studied the structure of fish communities in collaboration with students and colleagues at USC and the SRS. One of the products of these collaborations is the book

[Continued on Page 7](#)



# Clemson University Student Sub-Unit, SCAFS

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## TREASURER'S REPORT

DATE: 9/1/2004

Checking Account Balance: \$250.00

**TOTAL CHAPTER ASSETS: \$250.00**

It's been another busy semester for the Clemson University Student Subunit. On April 1, we held our Spring Social that included venison cooked Cajun style and a bonfire. Our second Kid Fish was held on March 28. We again hosted approximately 30 kids from Helping Hands, the local shelter for abused and neglected children, for a day of fishing and a hot dog lunch. Everyone caught a fish and had a great time on a beautiful Sunday afternoon. We have continued our charity work with Helping Hands through providing labor and services when called upon for various

activities. We hope to increase our membership to 20+ at our first meeting of the fall semester, September 7, by encouraging participation of students from the biological sciences and environmental toxicology that are working with fish, aquatic animals, and aquatic ecology. Our group also plans to interact with other student environmental organizations at Clemson to support various activities such as recycling and aquatic ecology education in return for their participation in our activities.

Several members attended and presented at the SCAFS, GAAFS, and annual AFS meetings. Clemson University hosted the 28<sup>th</sup> Annual Larval Fish Conference of the Early Life History Section of the American Fisheries Society in May, and our members were busy supporting the meeting and assisting Dr. Jeff Isely with arrangements. Also, four members gave oral presentations. Tim Grabowski, past-president of the sub-unit and current PhD student with Dr. Jeff Isely, was awarded the Sally Richardson Award for Best Student Presentation for his talk on the partitioning of gravel bar spawning habitat among riverine fishes in the Savannah River. Also, Ian Davenport, member and recent PhD graduate, was runner-up for the Sally Richardson Award for Best Student Presentation for his talk on the evolution and development of large egg size in sharks.

Our members have continued their diverse research looking at the movement patterns and behavior of striped bass in reservoirs, shortnose sturgeon, and robust redhorse; the ontogeny of the immune system in mummichogs; mating systems and sexual selection in sailfin mollies; ammonia and nitrite toxicity in Pacific white shrimp; the partitioning of gravel bar spawning habitat among riverine fishes in the Savannah River; and aquatic contaminants and metals toxicity. We have been able to encourage several of our undergraduate members to participate in these research projects and hope to gain even greater participation in the future. If SCAFS members are looking for assistance, please contact us here at Clemson. Many of our members are looking for opportunities to gain experience.

Our accounts are steady at \$250.00. All T-shirts have been sold. We will discuss future fundraisers at our September 7 meeting to support this semester's activities.

Visit us on the web at our new site:

[www.clemson.edu/~csafs](http://www.clemson.edu/~csafs)

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Fishes of the Middle Savannah River Basin, which will be published early 2005. His salt water investigations include the study of recruitment processes, reproduction, and age and growth of a variety of species including a SC flatfishes, wahoo, tuna, lane snapper, and bass. Marcel also taught several courses at USC, including Ichthyology. In July of this year he accepted a position at the Marine Resources Division at the South Carolina Department of Natural Resources in Charleston, where he is now working on life history and fisheries aspects of hard bottom fishes.

**Jason Moak** has been a SCAFS member since 1998, and Secretary-Treasurer since 1999. Jason earned a his BS in Biology from Augusta State University in 1997. Jason lives in Augusta, Georgia and has worked for Kleinschmid, an energy and water resources consulting firm in Columbia, for six years as a biologist. Jason also serves as the webmaster for the SCAFS website.

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## CLEMSON GRADUATES

Congratulations to these members that have recently graduated with a B.S. in Fisheries and Wildlife Sciences.

- *Caroline Clarkson*
- *Jason Shirley*
- *John Swaim*
- *Patrick Ely*

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## NOMINATIONS NEEDED

### *Fishery Conservationist of the Year*

The SCAFS presents, annually, the Fishery Conservationist of the Year award to an individual or organization for outstanding contributions to the conservation of South Carolina's fishery resources. We are currently soliciting nominations for this year's (2003) award. Submit your nomination, along with a brief biographical sketch outlining why that person or organization deserves the award, to any SCAFS officer by November 1, 2004.

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Don't get swallowed alive. Join SCAFS!!!



## Membership

Interested in becoming a member of SCAFS? Contact the chapter president, [Leo Rose](#), fill out the form below, or download the [membership form](#) and send it in, along with your \$5 annual dues, to:

**Jason Moak**  
**Kleinschmidt Associates**  
**101 Trade Zone Drive Suite 21A**  
**West Columbia, SC 29170**

Name	
Address	
City, State ZIP	
Phone	
Email	
Title	
Employer	

Dues enclosed

Dues paid through Parent Society

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# PALMETTO PISCIFORUM

NEWSLETTER OF THE SOUTH CAROLINA CHAPTER OF THE AMERICAN FISHERIES SOCIETY



<http://www.scafs.org>

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## President's Message

Chris Thomason

I hope everyone has thoroughly enjoyed (and recovered from) this past Holiday season. I guess this will be my swan song in this issue. I will become the ultimate useful officer after the annual meeting at Belle Baruch Institute this February --**Past President!** I must say this has been a most educational and enjoyable experience serving as the South Carolina Chapter's President the past 2 years. I have been able to work with more fisheries professionals throughout the state, southeast and even nationally than I would have had the opportunity to associate with in my more normal job duties.

The best part of the job has been the guys I have had working with me for the chapter. Leo Rose (President-elect), Jason Moak (Sec./Treasurer), and Jim Long (Newsletter editor) have made the various tasks the chapter handles run smoothly. The Fall workshops, annual meetings, newsletters, web site, award ceremonies and other duties of SCAFS are accomplished largely as the result of all the time and talents they have freely given. I think we have made a good team, and I appreciate all they have done. I know they will be doing even more in the future to help connect the fisheries professionals of our state (and beyond) through SCAFS. Please consider serving in an office or on a committee to help continue the tradition. Remember, elections are to be held at

*[Continued on page 2](#)*

## Hutton Junior Fisheries Biologists in South Carolina

Brian Wisner

Heather Underwood, a Walhalla High School student, was chosen as one of 55 students nationwide to participate in the 2003 Hutton Junior Fisheries Biology Program. The program was developed by the AFS and designed to primarily encourage interest in fisheries among women and minority high school students. Miss Underwood was awarded a scholarship to work at the Walhalla State Fish Hatchery (WSFH), which is operated by the South Carolina Department of Natural Resources. The program matches a student with a mentor so they can learn what it's like to be a fisheries professional. Brian Wisner, WSFH Manager, served as her mentor for the eight-week program.



WSFH produces approximately 500,000 trout annually for stocking public waters of South Carolina. Miss Underwood was involved in all aspects of fish culture at the hatchery. She took part in daily water quality monitoring, fish feeding, raceway cleaning, inventory, growth measurements, stocking and fish health management. She learned how to use a dissolved oxygen meter, pH meter and temperature logger. Miss Underwood also assisted with electroshocking two stream segments near the hatchery as part of the trout population survey. She assisted with a short-term growth study that compared trout growth, water temperature and feed conversion. Heather was responsible for setting up the spreadsheets, gathering data and writing a brief report.

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## CALENDAR OF EVENTS

January 27 – 29, 2004

GA AFS 2004 Annual Meeting

Holiday Inn Express

Athens, GA

[www.uga.edu/ugafish/ga-afs/](http://www.uga.edu/ugafish/ga-afs/)

February 26 – 29, 2004

Southern Division AFS 2004 Spring Meeting

Westin Hotel

Oklahoma City, OK

[www.sdafs.org](http://www.sdafs.org)

the annual meeting!

Back on our main subject of fish and fish squeezers, please take note on the calendar of events section, the wide range of gatherings that will be held in our state this year. We will have much more than the annual SCAFS/SCFWA meeting. There will be meetings of the 13<sup>th</sup> Annual Southeastern Lake Management Conference in March, 28<sup>th</sup> Annual Larval Fish Conference in May, North American Native Fishes Association in June, and Southeastern Association of Fish and Wildlife Agencies in October. These meetings have rarely or never been held in our state before. They offer quite a variety of venues for fisheries professionals to gather, learn and make contacts. Notify your colleagues, who may not be members, of these events and opportunities. While you're at it, encourage them to join SCAFS and make it even stronger! I hope to see all of you sometime, somewhere this year.

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## SCAFS 2004 Annual Meeting

This year's Annual Chapter Meeting will be jointly held with the South Carolina Fishery Workers Association (SCFWA) at the Baruch Marine Laboratory near Georgetown on February 2<sup>nd</sup> and 3<sup>rd</sup>. Registration will begin at 11 a.m. and the technical session will begin at 12:30 p.m.

The Lab, located on the North Inlet of Winyah Bay, is the primary research facility of the University of South Carolina's Belle W. Baruch Marine Institute.

[Continued on page 3](#)



**A tidal creek on the North Inlet at Belle W. Baruch Marine Institute.**

[Continued on page 3](#)

March 7 – 9, 2004  
 13<sup>th</sup> Annual Southeastern Lake Management Conference  
 Wild Dunes Resort  
 Isle of Palms, SC  
[wadeb@scdnr.state.sc.us](mailto:wadeb@scdnr.state.sc.us)

May 23 – 26, 2004  
 28<sup>th</sup> Annual Larval Fish Conference  
 Clemson University

August 22 – 26, 2004  
 134<sup>th</sup> Annual AFS Meeting  
 Monona Terrace Convention Center  
 Madison, WI  
[www.afs2004madison.org](http://www.afs2004madison.org)

October 31 – November 3, 2004  
 SEAFWA 2004 Annual Conference  
 Hilton Head, SC  
[stevel@scdnr.state.sc.us](mailto:stevel@scdnr.state.sc.us) or  
[lamprechts@scdnr.state.sc.us](mailto:lamprechts@scdnr.state.sc.us)

## TREASURER'S REPORT

DATE: 1/1/2004

Items	Debits	Credits
Web hosting	\$ 239.40	
Dues		\$160.00
2003 Annual Meeting	\$ 288.24	\$152.14
2003 Fall Workshop	\$ 569.38	\$105.00
2003 Officer dues	\$ 190.00	
Awards	\$ 150.16	
Miscellaneous	\$ 222.28	\$205.00
Interest		
Checking		\$ 8.57
Savings		\$ 41.31
Certificate of Deposit		\$ 61.16
	\$ 1,659.46	\$733.18

### Account Balances

Checking	\$ 2,706.68
Savings	\$ 4,806.75
Certificate of Deposit	\$ 3,310.42

**TOTAL ASSETS** \$10,823.85



© Joe Tomelleri

Registration fees are \$30 for individuals and \$15 for students registering prior to January 15 (\$35/\$20 thereafter). Fees will be waived for student presenters. The registration fee includes attendance, refreshments at breaks, continental breakfast, dinner and social (including beverages). Overnight accommodations in onsite dorm-style rooms (3-4 beds per room) are available on a "first come, first served" basis for \$12. Additional offsite accommodations are available at the Days Inn in Georgetown (ph. 843-546-8441).

The program will include contributed papers on any fishery related topic. Presentations may include completed projects or works in progress. The submission deadline is **January 15**. All submissions should include your *name, title of presentation, affiliation, phone number and e-mail address*. Please note if you are a student. Submissions should be sent to:

Bill Post  
 SCFWA  
 SCDNR  
 PO Box 12559  
 Charleston, SC 29422  
 Phone: (843) 953-9821  
[postb@mrd.dnr.state.sc.us](mailto:postb@mrd.dnr.state.sc.us)

A copy of the registration packet can be downloaded from the chapter website at  
<http://www.scafs.org/meetings.html>.

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## SCAFS 2003 Fall Workshop

Leo Rose

The SC Chapter of the American Fisheries Society (SCAFS) held its annual fall workshop on November 19, 2003 at Saluda Shoals Park. This year the subject of the workshop was technology in fisheries. Our guest speakers led the morning session with presentation sessions on emerging technology in geographic information systems (GIS), applied GIS solutions, GPS hardware and radio telemetry.

Kevin Remington, the Campus GIS Coordinator for the University of South Carolina's Center for GIS & Remote Sensing gave an exceptional presentation on current GIS trends and how GIS can be used for more than just making pretty maps. Remington showed how remote sensing technology has evolved into a tool that

[Continued on Page 7](#)

# North American Native Fishes Association to convene Annual Conference in South Carolina

We invite you to attend this year's NANFA Convention in Columbia, SC on June 17-20, 2004. Our annual convention is a great place to meet other NANFA members, hear some great presentations about fishes and the aquatic environment in general, and spend a day or two visiting some of the local areas and collecting fishes you may have never seen before.

South Carolina has a diverse range of habitats, from mountains to piedmont to coastal plains, so we have a lot of options! You will need a South Carolina recreational fishing license to collect nongame fishes in South Carolina. Anyone who wants should be able to find some interesting fishes. The weather in early June should be warm but not oppressive, and many of the fish may still be in breeding coloration. For those of you wishing to bring your families, there are many historical sites and attractions for them to visit around the state.

Riverbanks Zoological Park & Gardens has been kind enough to allow us to have our auction, speakers and banquet in their facilities. Dustin Smith, Fritz Rohde and Chip Rinehart will be acting as your hosts. The format for the meeting will be a full day on Friday of collecting trips around South Carolina, with the possibility of brief forays into North Carolina. Friday night we will have our annual auction as well as guided tours of the aquariums at Riverbanks Zoo. On Saturday we will have presentations of interest to NANFA members by some well-known and highly regarded speakers, followed by the banquet that night. Sunday, for those interested, we will do some more collecting. This year's convention t-shirt will again be an original design by Casper Cox; make sure to get your order in early.

On Saturday, our meeting will begin at 8:30am, lunch break at 12:30pm, resume at 2:00pm and continue until 5:00pm. A brief list of our speakers and their topics below:

- Patrick McMillan - Aquatic Plants
- Gerald Pottern - Shiners of the subgenus *Hydrophlox*
- Fritz Rohde - Pygmy Sunfishes
- Brian Wagner - Crayfishes
- Dave Neely - Sculpins
- Ray Wolff - Aquarium and Pond Maintenance

We are honored to have, as our special guest speaker at the banquet, Dr. Robert Goldstein, who will be speaking on collecting in South America.

Here are the details of how to get to and where to stay in Columbia:

**CONVENTION LODGING:** Holiday Inn - Columbia Airport. The rooms will be non-smoking doubles, and some smoking rooms will be available at your request. The rate will be \$65.00 per night and will include a complimentary hot breakfast buffet in Magnolia's Grill which is the on-site

restaurant ([www.holiday-inn.com/cae-airport](http://www.holiday-inn.com/cae-airport), (803) 794-9440). \*NOTE: Make sure to mention that you are with the 'NANFA' group and tell them to use tracking number "2-NAN". The deadline for making reservations is May 25, 2004. This Holiday Inn is located on Chris Drive, just off of US #1 at I-26 (Exit 111b) and is a short 10 minute drive to Riverbanks Zoo via I-26/I-126. For any of you that may be flying in, it is also very close (approx. 10 minutes) to the Columbia Metropolitan Airport and has free shuttle service to and from the airport.

**AIR TRAVEL:** Columbia Metropolitan Airport is served by several major air carriers with direct connections to many North American cities. The airport is about 10 miles west of the meeting site, connected by US #1/I-26/I-126.

**TRAVEL BY CAR:** Columbia is located in the center of the state easily accessible via interstates I-20, I-26, and I-77.

**CONVENTION REGISTRATION:** The registration fee for the convention is \$65 if paid by May 16, \$75 at the door. A spousal registration fee of \$20 will cover attendance at the Saturday evening banquet and admission to other convention events. Also, this year we will have a special student registration rate of \$25 (\$30 at the door) for middle school, high school and college students. Early registrations should be made out to NANFA and sent to: Dustin Smith, 1229 Walnut Street, Newberry, SC 29108.

We hope you can make it to Columbia this June. If you have any questions, please contact us at:

Dustin - home phone 803-405-1847 or email [Dsmith73@hotmail.com](mailto:Dsmith73@hotmail.com)

Fritz - e-mail at [Fritz.Rohde@ncmail.net](mailto:Fritz.Rohde@ncmail.net)

Chip - home phone 803-808-3502 or email [Ipchay61@aol.com](mailto:Ipchay61@aol.com).

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## Guest Column: Trout Unlimited in South Carolina

Tom McInnis, Chair

### South Carolina Council of Trout Unlimited

Trout Unlimited (TU) is a national organization dedicated to “conserving, protecting and restoring North America’s cold water fisheries”. TU accomplishes this mission on local, state and national levels with an extensive and dedicated volunteer network. TU’s national office, based just outside of Washington, D.C., and its regional offices employ professionals who testify before Congress, publish a quarterly magazine, intervene in federal legal proceedings, and work with the organization’s 125,000 member-volunteers in 500 chapters nationwide to keep them active and involved in conservation issues.

South Carolina TU consists of four chapters, one each in Clemson, Greenville-Spartanburg and Columbia, and an inactive chapter in Charleston. Representatives from each chapter form the state council, which coordinates the activities of the four chapters and acts as an intermediary between the chapters and the national office.

South Carolina TU has formed partnerships with many state and federal agencies, and private companies, to carry out our conservation mission here in South Carolina. The fact that South Carolina has only a limited amount of trout water makes it even more precious and worthy of our protection. Some examples of recent and future activities in South Carolina include:

- Participation in “Partners for Trout”, a consortium of the Natural Resources Conservation Service, U. S. Forest Service, SC Department of Natural Resources, and Trout Unlimited, along with other groups. Major projects include installation of bottom-draw cold water release structures on lakes feeding warm water into trout streams and restoration of the Eastatooe River as a trout fishery.
- Monitoring water quality in the Saluda River trout water below Lake Murray and the re-licensing of the Lake Murray dam operated by SC Gas and Electric.
- Construction of educational kiosks on the Saluda, Chattooga and Middle Saluda rivers.
- Offering short courses for youth in fly fishing and cold-water resource conservation.
- Opposing a request by a gold mining outfit for a DHEC permit to open an in-stream mining operation

in Oconee County.

- Opposing proposed changes in administration of the Clean Water Act by the Bush Administration that would have removed one-third of the nation’s wetlands and small streams from federal protection.
- Working for more stringent restrictions on mercury emissions by coal-fired power plants.
- Assisting the U. S. Forest Service and SC Department of Natural Resources with a brook trout restoration project in the Chattooga River watershed.
- Participating in the Chattooga Coalition, which brings together federal and state agencies, and conservation groups to monitor, protect and restore the Chattooga River, including its trout fishery.

We are committed to continuing our fight to preserve our cold-water resources in South Carolina, and invite anyone interested to join with us.

For more information on the state’s chapters and the national organization, visit the following web sites.

- Chattooga River Chapter: [www.chattoogatu.org](http://www.chattoogatu.org)
- Mountain Bridge Chapter: [www.mbtu.org](http://www.mbtu.org)
- Saluda River Chapter: [www.saludatu.org](http://www.saludatu.org)
- National TU: [www.tu.org](http://www.tu.org)



**Trout stocking via helicopter (the only way to fly).**

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# Clemson University Student Sub-Unit, SCAFS

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## TREASURER'S REPORT

DATE: 1/05/2004

Checking Account Balance: \$573.61

**TOTAL CHAPTER ASSETS: \$573.61**

We plan to continue working with Helping Hands throughout the spring semester including another Kid Fish. We are also hoping to sponsor the attendance of our members at the SCAFS/SCFWA meeting in February and the national AFS meeting at Madison, WI in August. Clemson University will be hosting the 28<sup>th</sup> Annual Larval Fish Conference and our members will be busy supporting the meeting May 23<sup>rd</sup>-26<sup>th</sup>. We are planning a weekend getaway in Charleston for the spring semester, which will include fishing and possibly a trip to the South Carolina Aquarium.

Our accounts are in good shape, and we anticipate the revenue from our T-shirt sales to continue to support our activities for 2004. Currently we have \$573.61 having made \$53.36 in donations to Helping Hands (so far) and \$130.80 for our Fall Social. We have made \$200.00 in T-shirt sales this year and will continue to sell T-shirts at SCAFS/SCFWA functions, Robust Redhorse Conservation Committee meetings, and other meetings until they are gone.

Our members have continued their diverse research looking at the movement patterns and behavior of striped bass in reservoirs, shortnose sturgeon, and robust redhorse. We have new members who are conducting research on the ontogeny of the immune system in mummichogs, mating systems and sexual selection in sailfin mollies, and ammonia and nitrite toxicity in Pacific white shrimp. We also have a project starting up that will look at the partitioning of gravel bar spawning habitat among riverine fishes in the Savannah River. We have been able to encourage several of our undergraduate members to participate in these research projects and hope to gain even greater participation in the future. If SCAFS members are looking for assistance, please contact us here at Clemson. Many of our members are looking for opportunities to gain experience.

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Visit us on the web at our new site:

[www.clemson.edu/~csafs](http://www.clemson.edu/~csafs)

It's been a busy semester for the Clemson University Student Subunit. We have successfully increased our membership to 15 and plan to continue our recruitment efforts. On October 6<sup>th</sup>, we held our Fall Social that included smoked brisket, a fish fry, and a bonfire not to mention good company and a keg. We have also continued our charity work with Helping Hands through the construction of picnic tables for their outdoor pavilion. We also mobilized other student organizations at Clemson to donate money for Christmas presents for Helping Hands children through our offer of matching funds.





# Clemson Sub-Unit hosts fishing derby for disadvantaged youth

Our first Kid Fish was held on October 12<sup>th</sup>. We hosted approximately 30 kids from Helping Hands, the local shelter for abused and neglected children, for a day of fishing and a hot dog lunch. A good time was had by all...and it didn't hurt that everyone caught a fish.

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## *Hutton Biologist* continued from page 1

One of the greatest benefits of the program was exposing Miss Underwood to the real work involved in fisheries and hatchery duties so she can make an informed career choice in the future. She saw that there is much more to do than stock fish or record length measurements. Much of her time was spent doing the daily fish husbandry tasks that make up most of our time at a hatchery. She worked well with the hatchery crew and the program was beneficial for the staff as well. Having the extra person around the facility helped to free up some time to do those elusive odd jobs that are difficult to find time to do in a busy summer. Although it takes time to mentor a high school student, I would recommend the Hutton Program as a positive experience for both the student and mentor.

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## *Fall Workshop* continued from page 3

can provide useful information rapidly and at a relatively low cost. Projects that used to take years of manual field data collections can now be completed in a matter of minutes or days. Remington gave numerous examples of how GIS technology can be applied to marine and freshwater fisheries. Remington concluded by offering to teach a free-of-charge technical GIS training session to AFS members. For those of you who are interested in attending a training session contact Leo Rose (803-734-1280) for more information. Also, Remington instructs excellent one-day training classes at USC that are very affordable (\$60). For more information on GIS training at USC see their website (<http://www.cla.sc.edu/gis/>).

Tara Koman presented her recently completed GIS modeling project that showcased how these new technologies have real-world applications. She developed a model that combines existing biological and chemical data with spatial and geological information to predict mercury levels in fish. The new method she developed will allow for more accurate fish consumption advisories.

A regional representative from Duncan-Parnell, Chuck Drouillard, showcased the new Trimble GPS technology and provided an overview of some of the more technical benefits and advancements in the new generation of GPS receivers.

Doug Cooke wrapped up the final morning presentation with an informative talk on tracking fish movement and passage through dams. Cooke showed impressive 3D images developed from data collected by some of their new equipment. Also, Cooke brought various types of telemetry devices that allowed us to get a hands-on look at the equipment.

After the morning session Drew Robb prepared a delicious Beaufort boil for lunch (thanks Drew) before we headed back for the hands-on equipment demonstrations.

Jason Moak was able to demonstrate Kleinschmidt's sonar device with some previously collected data. Also, the new Trimble GPS units were on display along with two new backpack electrofishing units. Smith-Root's newest model features an electronic display while the new HallTech Aquatic Research model is slightly cheaper, comes with a handy carry case and has an ergonomic anode handle.

Based on comments from many who attended, the information provided at the workshop was useful and interesting. All our presenters did an excellent job. Thanks to all those people who participated to make this year's workshop another resounding success.

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Don't get swallowed alive. Join SCAFS!!!

## Clemson University Grads

**Nathacha Emerant, M.S. Aquaculture, Fisheries, and Wildlife** (May 2004).

“Caged Nile tilapia (*Oreochromis niloticus*) Growth, Survival and Assimilation Efficiency in a Greenhouse Partitioned Aquaculture System (PAS) Wastewater Unit”. Currently, Nathacha is looking for a short-term internship through June 2004.

**Tiffany Griggs, M.S. Aquaculture, Fisheries, and Wildlife** (December 2003).

Tiffany used radio and acoustic telemetry to complete her thesis; “Diel movement of Hatchery-Reared and Wild Shortnose Sturgeon in the Savannah River South Carolina-Georgia.” She will begin a position at Fort Stewart, GA in February 2004 working on sturgeon. Congratulations Tiffany!!

**Kevin Kubach, M.S. Aquaculture, Fisheries, and Wildlife** (December 2003).

Kevin’s thesis, “Development and Implementation of a Reintroduction Methodology for the Turquoise Darter (*Etheostoma inscriptum*) in a South Carolina Piedmont Stream,” focused on assessing the suitability of a small stream system in the upper Savannah River drainage for reintroduction of the turquoise darter, a species extirpated from the system. He is currently seeking employment in the fields of fisheries/aquatic resources management, conservation, consulting, or education in the southeast.

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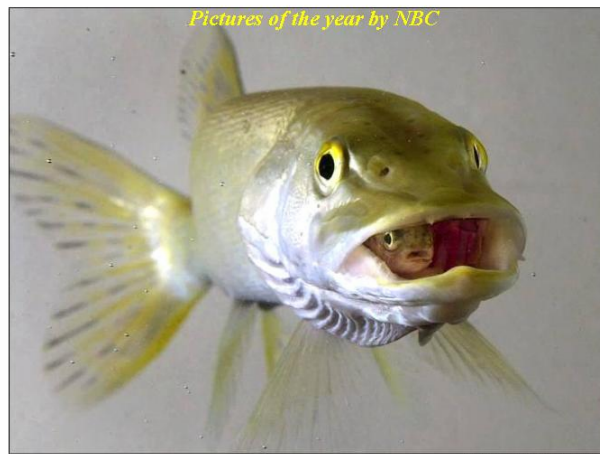
## NOMINATIONS NEEDED

### Chapter Officer Elections

Nominations are needed for the offices of President-elect and Secretary/Treasurer. Elections for these offices will be held during the Chapter’s business meeting on February 2, 2004 at the SCAFS-SCFWA Annual Meeting at the Baruch Marine Lab (see page 2). Please send your nominations to Leo Rose (president-elect@scafs.org).

### Fishery Conservationist of the Year

SCAFS presents, annually, the Fishery Conservationist of the Year award to an individual or organization for outstanding contributions to the conservation of South Carolina’s fishery resources. We are currently soliciting nominations for this year’s (2002) award. Submit your nomination, along with a brief biographical sketch outlining why that person or organization deserves the award, to any SCAFS officer by March 1, 2004.



## Membership

Interested in becoming a member of SCAFS? Contact the chapter president, [Chris Thomason](#), fill out the form below, or download the [membership form](#) and send it in, along with your \$5 annual dues, to:

**Jason Moak**  
**Kleinschmidt Associates**  
**101 Trade Zone Drive Suite 21A**  
**West Columbia, SC 29170**

Name	
Address	
City, State ZIP	
Phone	
Email	
Title	
Employer	

Dues enclosed

Dues paid through Parent Society

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# PALMETTO PISCIFORUM

NEWSLETTER OF THE SOUTH CAROLINA CHAPTER OF THE AMERICAN FISHERIES SOCIETY



August 2003

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<http://www.scafs.org>

## President's Message

Chris Thomason

It's Summertime and the Living is Easy! At least I hope it is for everyone. I was just sitting here at my desk watching it rain and reflecting on some of the changes that we are seeing in recent times that have influence on our fisheries and the people who are tied to them. One of the dramatic ones is the recent 100-year drought we just went through in South Carolina. This time last year we were in as dire shape with our aquatic resources as anyone alive can remember. Many of us were dealing with a myriad of problems related to the drought. Rivers, lakes and water tables were at extremely low levels and all resource users were affected. Most of you had some user groups you had to deal with in relation to our drought. There were many conflicts and stresses among states, hydropower companies, natural resource managers, city and industrial water suppliers, sewer companies, boaters, anglers, farmers, and private homeowners for our precious water.

Now look at us today. During the past 7 or 8 months, we switched into a period of higher than normal rainfall. We

*[Continued on page 2](#)*

## SCAFS Award Winners

### Fishery Conservationist of the Year

Dr. John Mark Dean, University of South Carolina

Dr. John Mark Dean, Distinguished Professor Emeritus of Biological Sciences and Marine Science at the University of South Carolina, was presented with the 2002 Fishery Conservationist of the Year award on June 23, 2003. Chapter President Chris Thomason presented the award during a luncheon at New Orleans Riverfront Restaurant in Columbia. Several friends, colleagues, and SCAFS members attended the luncheon to honor Dr. Dean.



SCAFS President Chris Thomason (right) presents the 2002 Fishery Conservationist of the Year Award to Dr. John Dean.

*[Continued on page 7](#)*

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### Jack Bayless Award for Best Professional Paper

Dave Coughlan, Duke Power

Dave Coughlan was announced as the winner of the 2002 Bayless Award at our Annual Meeting on February 4, 2003 at Hickory Knob State Park. The award was for Dave's presentation, Strontium/calcium ratios in robust redborse otoliths, at the 2002 Annual Meeting at St. Christopher on John's Island. Dave's presentation

*[Continued on page 7](#)*

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## CALENDAR OF EVENTS

### AFS 133<sup>RD</sup> ANNUAL MEETING

QUEBEC CITY, QUEBEC, CANADA

AUGUST 10-14, 2003

[www.fapaq.gouv.qc.ca/fr/AFS\\_congres/accueil.htm](http://www.fapaq.gouv.qc.ca/fr/AFS_congres/accueil.htm)

### INTERNATIONAL ASSOCIATION OF FISH AND WILDLIFE AGENCIES ANNUAL MEETING

MADISON, WISCONSIN

SEPTEMBER 10-13, 2003

have had our reservoirs and rivers above full pool or flood stage for a longer continuous period than I can remember in my 17 years in the fisheries profession. It certainly shows those of us who try to research and manage our fisheries resources the tremendous influence the natural cycles of our world have on everyone and everything. Many of you are conducting various studies, which will encompass the drought and the subsequent flooding events. This presents a tremendous opportunity to relate these climactic events to responses in our natural biota. Hopefully, we will have more answers to questions on how best to protect our resources during the next drought cycle. We all know it's coming again. Many of those stresses and conflicts among user groups have receded to the back burner with the coming of water. They will return with a vengeance. We are a growing state with growing needs. We hope the members of the South Carolina Chapter of the American Fisheries Society will always be there to help protect the resources we have staked our careers on during the next dramatic round of change.

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## SCAFS 2003 Annual Meeting Wrap-up

The 2003 Annual Meeting of the South Carolina Chapter (Chapter) was held at Hickory Knob State Resort Park in McCormick on the 3<sup>rd</sup> and 4<sup>th</sup> of February. As has become customary, the meeting was held jointly with the South Carolina Fishery Workers Association (SCFWA). The meeting was well-attended, with over sixty individual registrants.

The meeting began at noon on Monday, February 3<sup>rd</sup> in the Conference Center overlooking Lake Thurmond, with a number of interesting presentations. These included a presentation by Dr. Paul Sandifer on his work as a member of the U.S. Commission on Ocean Policy. At the conclusion of Monday's presentations, the Chapter and SCFWA each held their respective annual business meetings.

At the Chapter's annual business meeting, Dave Coughlan

*[Continued on page 3](#)*

*[Continued on page 3](#)*

(800) 624-4960

SE ASSOCIATION OF FISH AND WILDLIFE AGENCIES  
ANNUAL CONFERENCE

MOBILE, ALABAMA

OCTOBER 11-15, 2003

<http://www.dcnr.state.al.us/seafwa2003/>

AFS FUTURE FISHERIES PROFESSIONALS STUDENT  
COLLOQUIUM

MORGANTOWN, WEST VIRGINIA

NOVEMBER 7-9, 2003

[www.forestry.caf.wvu.edu/wvuafs/](http://www.forestry.caf.wvu.edu/wvuafs/)

## TREASURER'S REPORT

DATE: 7/1/2003

Checking Account Balance:	\$3,476.91
Savings Account Balance:	\$4,071.02
6-Month Certificate of Deposit:	\$3,282.29
<b>TOTAL CHAPTER ASSETS:</b>	<b>\$10,830.22</b>

### SCAFS Annual Meeting continued from page 2

was announced as the winner of the 2002 Bayless Award for his presentation, Strontium-Calcium Ratios in Robust Redhorse Otoliths, at the 2002 Annual Meeting at St. Christopher. Also, Jason Moak announced the new location of the Chapter website, [www.scafs.org](http://www.scafs.org). Chris Thomason gave a brief summary of the Chapter's 2002 Fall Workshop on catostomid and cyprinid identification at Congaree Swamp, and encouraged attendees to submit suggestions for topics for the 2003 workshop. Larry Connor, Vice-president of the Southern Division of AFS, highlighted some of the Southern Division's recent activities.

After the business meetings and dinner, many attendees reconvened for an informal social at the conference center Monday evening. Mild weather encouraged many to

congregate on the outside deck where cold beverages and interesting stories abounded. Later in the evening, some attendees gathered to enjoy a nice fire in the enormous fireplace inside the conference center. Later still, Damon Abernathy's room was transformed into a "pickin' parlor" as he and Miller White treated a small audience to some banjo music.

On Tuesday, the meeting was resumed with a full morning of presentations. Over the course of the two-day meeting, over 30 presentations were given. The meeting was adjourned just after noon on Tuesday.

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# Paul Sandifer Retires from SCDNR as Agency Director

Jean Leitner, SCDNR Fisheries Biologist

Dr. Paul Sandifer, current SCAFS member, retired April 1 as director of the South Carolina Department of Natural Resources (SCDNR). He leaves to pursue a new career with the National Oceanic and Atmospheric Administration (NOAA).



Paul Sandifer retired as Agency Director of SCDNR after more than 30 years of service.

Dr. Sandifer began his career in 1972 with the then S. C. Wildlife and Marine Resources Department at the Marine Resources Center in Charleston. He served there as a staff scientist until 1983, and as Marine Resources Division Director from 1984-1997, when he was named Agency Director.

Freshwater and marine fisheries workers alike have appreciated Dr. Sandifer's leadership and support. He signed off on broad human dimension studies for the freshwater fisheries section, recognizing the importance of better defining and understanding that component of the agency's constituency. He was instrumental in securing funding for the study of, among other things, endangered sea turtles, imperiled swordfish stocks, and the ecologically important Charleston Bump area. He placed his full support behind a strategic plan developed by the freshwater fisheries section that seeks to streamline current operations, obtain or develop expertise in new areas, and set the section on a new direction to best manage and conserve all freshwater aquatic organisms, from game fish to aquatic insects. He played an integral role in development of the Hollings Marine Lab in Charleston and Bennets Point facility in Green Pond.

While serving as chairman of the Atlantic States Marine Fisheries Commission he pushed for and obtained support of the Atlantic Coastal Cooperative Statistics Program, and a memorandum of understanding among Atlantic coastal states to standardize the collection of fisheries statistics. In 2001, President George W. Bush

appointed Dr. Sandifer to the U.S. Commission on Ocean Policy. Dr. Sandifer is now the Senior Scientist for the NOAA's National Centers for Coastal Ocean Science (NCCOS) stationed at the Hollings Marine Laboratory in Charleston. In this role, he identifies national coastal environmental research needs, recommends scientific priorities for NCCOS, defines new approaches for NCCOS science and works with scientists to develop these new initiatives.

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## North American Native Fishes Association to convene Annual Conference in South Carolina

The North American Native Fishes Association (NANFA) is currently planning its 2004 annual conference, to be held at Riverbanks Zoo in Columbia, SC, June 18-20. NANFA is an unusual mix of academic and agency biologists, amateur naturalists, teachers, and aquarium hobbyists interested in the natural history, ecology, and conservation of native fishes, plants, and invertebrates, and their maintenance and propagation in home aquaria and ponds. Topics planned so far include pygmy sunfishes (genus *Elassoma*), sculpins (*Cottus*), aquatic plants, nest-building minnows, and aquarium and pond culture of native fishes. For more information, check out the NANFA website at [www.nanfa.org](http://www.nanfa.org) or contact Fritz Rohde at [fritz.rohde@ncmail.net](mailto:fritz.rohde@ncmail.net).

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## Zebra Mussel Watch

SCDNR is looking for any reports on this exotic species. While not found in the state yet, this exotic has the potential to cause great harm. Visit <http://water.dnr.state.sc.us/water/envaff/aquatic/zebra.html> for more information.



# A reflection on hydropower relicensing and aquatic resources in South Carolina

**Dick Christie, SCDNR Hydropower Coordinator**

The development of hydropower has probably been the single most important factor impacting freshwater aquatic habitat in South Carolina. Although our Native American's lived in harmony with the streams and rivers in the State for thousands of years, we have managed to alter much of the aquatic landscape in a relatively short 'blink-of-the-eye"! It wasn't until the early 1900's, when the Catawba Station was built on the Catawba River in York County, that South Carolinians accepted the notion that the conversion of sections of the States natural rivers into man-made impoundments was a fair exchange for the benefits of electricity. Since that first large dam on the Catawba River, about 40 other hydropower projects have been constructed in South Carolina.

Since hydropower projects usually impact public, navigable waters, the Federal Government recognized a need to provide oversight. Thus, the Federal Power Act was born in 1920. However, State and Federal fish and wildlife agencies were not allowed to participate in the licensing process until 1986, when an amendment to the Federal Power Act (ECPA, 1986) gave specific them authority to do so. That act required the Federal Energy Regulatory Commission (FERC) to solicit recommendations from federal and state fish and wildlife agencies on conditions for the protection, mitigation of damages to, and enhancement of fish and wildlife resources affected by the development, operation, and management of hydropower projects.

As a result of ECPA, hydropower relicensing is now a common link shared by a number of fisheries professionals and AFS members. Licensees employ private consultants to help plan and conduct resource studies. Fisheries staff from the State DNR, the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) provides guidance throughout the relicensing process. NGO's, such as the Catawba River Foundation and the Coastal Conservation League, employ personnel with extensive aquatic training and experience.

Virtually every large river system in South Carolina is being impacted by hydropower. In fact, South Carolina is home to some of the nation's largest hydroelectric projects. Some of

these that will undergo FERC relicensing during the next five years include the Catawba-Wateree project, the Santee Cooper project and the Saluda (Lake Murray) project. The operation of these projects, together with the Yadkin-Pee Dee project, impact more than 450 miles of rivers in South Carolina and 230,000 reservoir acres!



Saluda Dam, impounding the Saluda River in central South Carolina creating Lake Murray, is one of many dams scheduled for relicensing in the next 5 years.

The benefits of these projects may include relatively "green" electricity, employment, reservoirs and their associated recreational activities such as fishing and boating, water supply and aesthetics. However, there are also some negative environmental impacts associated with the hydro operations. These include degraded water quality, impacts to water quality associated with residential and commercial development, fluctuating reservoir water levels, fish mortality via entrainment, and blocked fish migration. Additionally, these projects alter stream flow, affecting fish and wildlife habitat, flood plain dynamics, navigation, and recreation.

Hydro licenses are generally issued from 30 to 50 years in duration. Many of the licenses that are currently up for renewal were licensed prior to 1970. A change in environmental ethics, as well as the development of alternative sources of electricity, has resulted in a more complicated, thorough, and costly relicensing process. Currently, relicensing a FERC project is designed around a five-year schedule (highly ambitious based on

[Continued on Page 8](#)

# Clemson University Student Sub-Unit, SCAFS

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## TREASURER'S REPORT

DATE: 7/1/2003

Checking Account Balance: \$427.77

**TOTAL CHAPTER ASSETS: \$427.77**

Currently, the Clemson student chapter is working to increase membership and member participation. The Department of Aquaculture, Fisheries and Wildlife has ended as a stand alone department. With the rearrangement of the natural resource departments, we are hoping to get exposure to a broader range of students from Environmental Toxicology, Forestry and Natural Resources, and Biological Sciences. This fall we will be working hard on our membership drive and hope to hold several social events at the beginning of the semester. Additionally, plans are in the works to take a Chapter sponsored trip to either the

South Carolina Aquarium in Charleston or to the Tennessee Aquarium in Chattanooga.

We hope to get interested undergraduate students involved in ongoing graduate student research. We also want to encourage all of our members to attend local meetings by having the chapter cover as much of the expenses as possible. Our members will have the unique opportunity to attend the Early Life History section's annual Larval Fish Conference at almost no cost when it is held at Clemson next summer. The student chapter sub-unit will assist with planning and running the meeting.

Currently, our only fund raising activity is T-shirt sales, but we hope to augment this with other activities (Send us your ideas!). Our chapter has plans to assist our charity Helping Hands beyond the monetary donations we have already made this year. We are considering several options, including organizing a small kid fishing event for the children at Helping Hands house and volunteering time to assist in the maintenance and improvements of the grounds. Additionally, there has been interest in volunteering in activities such as the Yadkin-Pee Dee Robust Redhorse Round-Up and SCDNR Reel Kid Fish programs.

Members are currently pursuing research with robust redhorse and other big river fishes (suckers, gar, etc.) striped bass, hybrid striped bass, shortnose sturgeon, tessellated darter, rainbow trout, mummichog and channel catfish.

The new Clemson chapter T-shirt is available. Price is \$15 and available sizes are S, M, L, and XL. On the front is the Clemson tiger paw with the lettering Clemson University-American Fisheries Society. On the back is an outline of the state with the title "South Carolina Natives". Within the outline are pictures of brook trout, rosyside dace, redbreast sunfish, striped bass, and robust redhorse. T-shirts will be sold at SC-AFS meetings and events, GA-AFS annual meeting, and Robust Redhorse Conservation Committee meetings. Mail orders may be taken with a little extra for shipping (cost not yet determined).

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# SCAFS Award Winners

*Fishery Conservationist continued from page 1*

While the list of Dr. Dean's fisheries work is much too long to include in this article verbatim, below is a brief summary of some his contributions to South Carolina fisheries.

Dr. John Mark Dean joined the University of South Carolina as an associate professor in 1970 where he helped establish the Baruch Institute and the Marine Science Program. He is currently a special advisor to the Director of the Baruch Institute, chair of the Highly Migratory Species committee, and is a consultant to several seafood and restaurant companies. In 1973, he received the Conservation Educator of the Year award from the South Carolina Wildlife Federation. His research emphasizes the age and growth of recreationally and commercially important fishes in fresh water, estuarine and oceanic ecosystems and environmental resource policy and management. Dr. Dean is an international researcher, regularly collaborating with colleagues in Japan, Italy, France, Netherlands, and Turkey.

Dr. Dean was a pioneer in the use of otoliths to define the age and environmental history of adult and larval fishes. John co-edited "Recent developments in fish otolith research," which was the result of the First International Symposium on Fish Otoliths held in Hilton Head in 1992. John's work as a researcher and educator has resulted in over 70 peer-reviewed publications and 40 successful graduate students. Other important accomplishments of Dr. Dean include:

- Director, USC Marine Science Program (1975 – 1981)
- Founding member (1974) and President (1979) of South Carolina Fishery Workers Association
- President, Southeastern Estuarine Research Society (1981 – 1983)
- Founding member (1982) and President of the South Carolina Chapter of AFS (1983 – 1984; 1988 – 1990)
- Chair, International Commission for the Conservation of Atlantic Tunas (1992-1995)
- Director of the Center for Environmental Policy at the Institute of Public Affairs, USC (1992 – 1996)
- Director of the Natural Resource Session for Leadership in South Carolina (1980 – present)
- Appointee, South Carolina Commission on Judicial Conduct (2001-Present)

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*Bayless Award continued from page 1*

detailed some interesting research that may shed light on the early life stages of the imperiled robust redhorse.



Dave Coughlan of Duke Power received the Jack Bayless Award for best professional paper at the 2002 SCAFS Annual Meeting.

The Bayless Award was created in honor of Jack W. Bayless, to recognize the best South Carolina presentation/paper given at each annual chapter meeting. Each year, volunteer judges evaluate presentations in the following categories:

- Significance to aquaculture and fisheries,
- Experimental design and analysis,
- Organization,
- Presentation, and
- Quality of visual aids.

Presenters are scored on a scale of one to four, four being excellent, for each category. The presenter with the highest total score receives the award. Any members interested in volunteering as judges for the next annual meeting, or joining the Awards Committee, should contact Chris Thomason or Leo Rose.

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my observations!).

Because of the time and money needed to relicense, there is a move to streamline the FERC process. The current version of the Senate energy bill includes changes to the relicensing process that would potentially reduce the role of public and private regulators who now provide oversight to the process. One proposal would redefine the manner in which the federal agencies (USFWS, NMFS) can prescribe fish passage.

As I reflect on 100 years of hydropower in South Carolina, I think the wisdom of damming our natural rivers to produce electricity will be judged by generations to come. The development of more efficient energy, and changing societal values will demand that we re-examine the "highest and best" use of our aquatic resources. Will the trend be reversed, and will we see the day when the large dams are removed? I don't think you and I will!

However, when you consider the decreasing contribution of hydropower to the total amount of power generated, and the increased cost in maintaining ageing facilities, there may be less economic incentive to continue hydropower production. On the other hand, the increased development and the implied "ownership" of public resources by a growing private community, coupled with the value of a stored water supply, as exemplified by the recent drought, will make for some interesting and difficult decision-making. When that day comes, I wonder on what side of the dam we will be as fisheries professionals?

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### Captions Needed!

Got a good caption for this photo? Send it in to Leo Rose, President-elect, and we will publish the results in the next newsletter.



## Clemson University Grads

**Michelle Duncan, M.S.-** Worked with the timing of shortnose sturgeon spawning in the tailrace of the Pinopolis Dam, Cooper River. Currently working with NMFS in Florida.

**Sam Finney, M.S.-** Worked with the behavior of American shad at the New Savannah Bluff Lock and Dam, Savannah River. Currently working with the U.S. Fish and Wildlife Service in Montana.

**Drew Trested, M.S.-** Compared seasonal movements and macrohabitat use between wild and hatchery raised shortnose sturgeon in the Savannah River. Currently working for Normandeau Associates, Inc. in New Hampshire.

### Membership

Interested in becoming a member of SCAFS? Contact the chapter president, [Chris Thomason](#), fill out the form below, or download the [membership form](#) and send it in, along with your \$5 annual dues, to:

**Jason Moak**  
**Kleinschmidt Associates**  
**101 Trade Zone Drive Suite 21A**  
**West Columbia, SC 29170**

Name	
Address	
City, State ZIP	
Phone	
Email	
Title	
Employer	

Dues enclosed

Dues paid through Parent Society

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# PALMETTO PISCIFORUM

NEWSLETTER OF THE SOUTH CAROLINA CHAPTER OF THE AMERICAN FISHERIES SOCIETY



<http://inlet.geol.sc.edu/SCAFS/>

December 2002

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## President's Message

**Chris Thomason**

Greetings! I hope everyone has enjoyed the Holiday season! As an added bonus, you now get the thrill of the SCAFS newsletter! We have resurrected the newsletter after a couple of years' hiatus. The Chapter was still going strong during this stretch, of course. We cohosted the 2000 Southern Division AFS Mid-winter Meeting with the Georgia Chapter of AFS in Savannah, and cohosted our annual SCAFS meeting with the NC Chapter of AFS at Sunset Beach in 2001, along with the SC Fishery Workers Association (SCFWA). The 2002 meeting was again held in conjunction with SCFWA at Seabrook Island. We sponsored Fall workshops in fishery related topics, each year, during this time, too.

Since 2002 was the 20<sup>th</sup> Anniversary of the Chapter's founding, and many new members have come on board, we felt it was a good time to bring back the newsletter, and spread the word. As you now note, we are sending the newsletter out to the masses by e-mail. This aids the chapter in cost, ease of handling, and speed of transfer. It also allows members to

*Continued on page 2*

## SCAFS Award Winners

### Fishery Conservationist of the Year

**Gerrit Jöbsis, SC Coastal Conservation League**

The South Carolina Chapter presented the 2001 Fishery Conservationist of the Year Award to Gerrit Jöbsis, rivers coordinator with the S.C. Coastal Conservation League and a former fisheries biologist with the S.C. Department of Natural Resources. The Award was presented at a luncheon at the 2002 Palmetto Sportsmen's Classic in Columbia. The award is given to an individual or organization for outstanding contributions to the conservation of South Carolina's fishery resources.



Gerrit Jöbsis, 2001 Fishery Conservationist of the Year, showing off a striped bass.

*Continued on page 3*

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### Jack Bayless Award for Best Professional Paper

**Josh Loefer, SC Department of Natural Resources**

Josh presented "Life History of the Atlantic Sharpnose Shark, *Rhizoprionodon terraenovae*, in the South Atlantic Bight" at the 2001 meeting at Sea Trail Resort, Sunset Beach, North Carolina. Unfortunately, Josh was not present to receive the award in person (he was working), but he assured he appreciated the recognition of his work.

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## SCAFS OFFICERS

### PRESIDENT

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### NEWSLETTER EDITOR

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email: [jim\\_long@nps.gov](mailto:jim_long@nps.gov)

## CALENDAR OF EVENTS

### GEORGIA AFS ANNUAL MEETING

ROME, GA

JANUARY 21-23, 2003

[WWW.UGA.EDU/UGAFISH/GA-AFS/HOME.HTM](http://WWW.UGA.EDU/UGAFISH/GA-AFS/HOME.HTM)

### SE COASTAL OCEAN SCIENCE CONFERENCE

CHARLESTON, SC

JANUARY 27-31, 2003

Contact: [Rick DeVoe](mailto:Rick DeVoe) 843/953-5586

*President's Message continued from page 1*

forward it on to other interested parties (Potential members?). We will certainly continue mailing hardcopies to those without e-mail. Let us know what you think about this method.

I believe the South Carolina Chapter of AFS is an excellent organization that can promote professionalism and communication among the wide array of people involved in fisheries and aquatic resources. Our diverse membership includes professionals from state and federal agencies, academic institutions, private companies, zoos and aquariums. Of course, we add into this mix a number of students in the midst of pursuing degrees that will lead them into a career in fisheries. I hope this newsletter can be used not only as a tool to keep ourselves informed, but to promote and expand our membership and participation. Please give us your ideas and assistance so we can make this endeavor and the Chapter truly useful to all.

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## SCAFS Annual Meeting

The South Carolina Chapter will hold a joint annual meeting with the South Carolina Fishery Workers Association on February 3-4, 2003 at Hickory Knob State Resort Park. Hickory Knob is located near McCormick on the Eastern shoreline of J. Strom Thurmond Reservoir.

The program will include presentations on any fishery-related topic. Presentations may include completed projects or works in progress. The **deadline** for submission of presentation titles is **January 3**.

Title submissions should be sent to:

**Leo Rose**  
**SCDNR**  
**1921 Van Boklen Road**  
**Eastover, SC 29044**  
**phone: (803)353-8232**  
**fax: (864) 223-0649**  
**email: [leor@scdnr.state.sc.us](mailto:leor@scdnr.state.sc.us)**

Early registration for the meeting is \$15 before Jan. 3, and \$25 thereafter (students - \$8).

*Continued on page 3*

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SCAFS/SCFWA ANNUAL MEETING

HICKORY KNOB STATE PARK, SC  
FEBRUARY 3-4, 2003

[INLET.GEOL.SC.EDU/SCAFS/MEETINGS.HTML](http://inlet.geol.sc.edu/SCAFS/MEETINGS.HTML)

SOUTHERN DIVISION AFS SPRING MEETING

WILMINGTON, NC  
FEBRUARY 12-16, 2003

[www.sdafs.org/meetings/03sdafs/2003home.htm](http://www.sdafs.org/meetings/03sdafs/2003home.htm)

AQUACULTURE AMERICA 2003

LOUISVILLE, KY  
FEBRUARY 18-21, 2003

[www.was.org](http://www.was.org)

AFS 133<sup>RD</sup> ANNUAL MEETING

QUEBEC CITY, QUEBEC, CANADA  
AUGUST 10-14, 2003

[www.fapaq.gouv.qc.ca/fr/AFS\\_congres/accueil.htm](http://www.fapaq.gouv.qc.ca/fr/AFS_congres/accueil.htm)

TREASURER'S REPORT

DATE: 12/17/2002

Checking Account Balance:	\$3,664.03
Savings Account Balance:	\$4,045.44
6-Month Certificate of Deposit:	\$3,249.26
<b>TOTAL CHAPTER ASSETS:</b>	<b>\$10,958.73</b>

SCAFS Annual Meeting continued from page 2

Attendees will be responsible for booking their own rooms. The double occupancy room rate is \$51.84. Meals will be available at the restaurant buffet at prices that fall within the SCDNR per diem (individuals are responsible for paying for their own meals at the restaurant). Contact the Park at (864) 391-2450 or 1-800-491-1764 for reservations. Be sure to indicate you are with the SCFWA/SCAFS meeting when making your reservation. Pre-registration is requested so that we may plan for refreshments and the social. For more information about registration, contact Sabrina Wright at (843) 825-3388. Additional information including a downloadable copy of the registration packet is available on the SCAFS website

<http://inlet.geol.sc.edu/SCAFS/meetings.html>.

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Fishery Conservationist continued from page 1

Jöbsis and the S.C. Coastal Conservation League partner with American Rivers and the Hydropower Reform Coalition to work on river conservation issues. Under a unique arrangement, Jöbsis leads hydropower reform work in the Carolinas for both American Rivers and the Conservation League. Jöbsis has extensive experience in hydro relicensing, having coordinated Federal Energy Regulatory Commission work for the S.C. Department of Natural Resources (DNR) for more than a dozen years before joining the Coastal Conservation League in 2001.

A fisheries biologist by training, Jöbsis focuses on hydropower projects on numerous rivers including the Santee, Cooper, Catawba, Wateree, Yadkin, Pee Dee, Saluda and Savannah. More than 20 hydropower dams on these rivers will undergo relicensing during the current decade.

Some of Gerrit's accomplishments, which helped earn him the Fishery Conservationist of the Year Award, include:

- Key role in the development and implementation of DNR instream flow and impoundment construction policies.
- Establishment of the Environmental Coordination program within DNR's Division of Wildlife and Freshwater Fisheries that is specifically responsible for the review of environmental permits and development of environmental policy.
- Instrumental in the development and application of a Federal Energy Regulatory Commission review process for the DNR.
- His efforts have led to improved water quality, increased flows, mitigation of environmental damages, establishment of environmental trust funds and a standardized approach for the review of Federal Energy Regulatory Commission relicensing projects in South Carolina waters.

*Adapted From April 1, 2002 SCDNR News Release, written by Greg Lucas.*

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Hickory Knob State Park, South Carolina is the site for the 2003 Annual Meeting.

# SCAFS 2002 Fall Workshop

The SC Chapter of the American Fisheries Society (SCAFS) held its annual Fall workshop on November 13, 2002 at the Congaree Swamp National Monument.

This year the subject of the workshop was Cyprinid and Catastomid identification. Our guest speakers, Fritz Rohde (NC Department of Environment and Natural Resources) and Dr. Wayne Starnes (NC State Museum of Natural Sciences), led the workshop's morning session with lecture and presentation sessions. Rohde showcased his new [Key to South Carolina's Carps and Minnows \(draft\)](#) (PDF, 273KB) and some excellent South Carolina Cyprinid slides. Starnes presented a PowerPoint show of the Catastomid family of fishes. The presentation included a slide comparing the lips of various suckers ([JPEG](#), 2.89MB or [PDE](#), 791KB). Both the sucker lips slide and Fritz Rohde's Key to South Carolina's Carps and Minnows (draft) are available free for download at the SCAFS website (<http://inlet.geol.sc.edu/SCAFS/>).

After the morning session, Drew Robb (SCDNR) prepared a delicious lunch of catfish stew, chili, and cornbread (Thanks Drew) before we headed back for some hands on fish identification. Rohde assisted people with their minnow identifications while Starnes shared his expertise on the suckers.



Wayne Starnes demonstrates the art of identifying Catastomids.

Based on comments from many who attended, the information provided at the workshop was very useful. Both Rohde and Starnes did an excellent job. With over 50 participants, representing state and federal government, universities, industry, and private citizens, the workshop was a resounding success.

THANK YOU FRITZ AND WAYNE!

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Fritz Rohde demonstrates the ease (for him) of identifying the minnows of South Carolina.



Forrest Sessions taking a closer look at some suckers brought to the workshop.

# Clemson University Student Sub-Unit, SCAFS

## OFFICERS

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The Clemson University Student Sub-Unit has been quite active during 2002. The officers have conducted an aggressive membership drive during this past year. Membership has increased to 20, and we are holding monthly meetings throughout the year.

During 2002, we accomplished several goals. As part of our outreach campaign, members have designed and produced a Clemson University Student Chapter poster to be shown at various functions and meetings to increase our visibility. Another product is a new Clemson AFS T-shirt. This shirt will have the Clemson AFS logo on front and a design called the South Carolina Natives on the back. The design is an outline of the state overlain with photos of 5 SC native species (brook trout, redbreast sunfish, robust redhorse, striped bass and rosyzide dace). T-shirts will sell for \$15 apiece, with proceeds helping to send student members to various professional meetings in 2003. Students have plans for attending the annual

meetings of SCAFS, Georgia AFS and The Southern Division AFS Spring meeting.

Several activities are now in the planning stages for early 2003. A Catfish Sale will be held in conjunction with the Clemson Chapter of The Wildlife Society this Spring. This will serve as a fundraising event for both chapters. We also plan to host a Career Workshop this Spring to help students in their pursuit of employment in the field of fisheries and related areas (the halcyon days of student life must end someday!) Other activities include sponsoring a Children's Fishing Rodeo and participating in the Clemson University Student Colloquium.

Members have also taken on a very worthy project as their official philanthropy: assisting with the local Clemson area Shelter for Battered Women and Children. The students in the chapter have helped with needed repairs to the facility and given material donations (e.g. clothes, toiletries) which are always of benefit to the residents of the shelter.

In 2003, Clemson University students will be studying rainbow trout, robust redhorse, American shad, tessellated darter, and shortnose sturgeon. Any help from the professionals in SCAFS are welcomed and encouraged.

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## Class of 2002 Clemson University Graduates

- Quenton Fontenot Ph.D.

Quenton's work involved Bioenergetics in Tilapia. He has now moved back to his native Louisiana, and is working at Nichols State University.

- Mike Bailey M.S.

Mike was involved with American shad passage in the lower Savannah River while at Clemson. He is now returning to his native New England where he is pursuing work on anadromous species in Maine.

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# AWARD NOMINATIONS NEEDED

## Fishery Conservationist of the Year

SCAFS presents, annually, the Fishery Conservationist of the Year award to an individual or organization for outstanding contributions to the conservation of South Carolina's fishery resources. We are currently soliciting nominations for this year's (2002) award. The award will be presented at the 2003 Palmetto Sportsman's Classic. Submit your nomination, along with a brief biographical sketch outlining why that person or organization deserves the award, to any SCAFS officer by March 1, 2003.

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## SOUTHERN DIVISION AFS STUDENT SCHOLARSHIPS AND AWARDS

### John F. Dequine Scholarship

Scholarship created to provide financial assistance to students in the southeastern states. One \$1,000 scholarship awarded based on academic and professional performance. Award made directly to student. Application deadline is February 1, 2003.

### Reservoir Committee: Robert M. Jenkins Memorial Reservoir Research Scholarship

Scholarship created in 1997 to provide financial assistance to graduate students in the southeastern states that are conducting reservoir related fisheries research. Two \$1,000 scholarships awarded annually with funding for a second year contingent upon research and academic performance. Made directly to student. Deadline for application is January 31, 2003.

### Warmwater Streams Committee: Jimmie Pigg Memorial Outstanding Student Achievement Award

Award created by the Warmwater Streams Committee in 1997 to recognize university students for outstanding research

activities in warmwater streams. Renamed in 1999, in honor of Jimmie Pigg, a long time supporter of student activities. Outstanding student(s) are recognized at the Southern Division Spring Meeting, receive a plaque, funds to travel to the meeting, and a one-year membership to the American Fisheries Society. Deadline for application is January 15, 2003.

All nomination material and application forms can be accessed through the Southern Division AFS homepage (<http://www.sdafs.org>) and/or the links to the committee homepages.

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## Membership

Interested in becoming a member of SCAFS? Contact the chapter president, [Chris Thomason](#), fill out the form below, or download the [membership form](#) and send it in, along with your \$5 annual dues, to:

Jason Moak  
Kleinschmidt Associates  
101 Trade Zone Drive Suite 21A  
West Columbia, SC 29170

Name	
Address	
City, State ZIP	
Phone	
Email	
Title	
Employer	

Dues enclosed

Dues paid through Parent Society

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## FIRST CALL FOR PAPERS 2005 JOINT MEETING

### AMERICAN FISHERIES SOCIETY, SOUTH CAROLINA CHAPTER AND SOUTH CAROLINA FISHERIES WORKERS ASSOCIATION

The 2005 meeting will be February 7 – 8 at Clemson University's Outdoor Lab facilities. The program will include contributed papers on any fishery related topic. Presentations may include completed projects or works in progress.

We urge students to attend and we are particularly interested in student presentations. The SCAFS sponsored "Jack Bayless Best Paper" and the SCFWA sponsored "Best Student Paper" will be presented.

Presenters should plan for a 15-minute program that includes a question/answer period. A laptop PC with CDROM drive and digital projector will be provided for Power Point presentations. Please inquire about other audio-visual aids.

### *Submission deadline is January 19*

Presenters are requested to provide *name, title of presentation, affiliation, phone number and e-mail address. Please inform us if you are a student.* Send submissions to:

Marcel Reichert  
SCDNR  
217 Fort Johnson Rd.  
(or P.O. Box 12559)  
Charleston, SC 29412  
Phone: (843) 953 – 5778  
[reichertm@mrd.dnr.state.sc.us](mailto:reichertm@mrd.dnr.state.sc.us)



# **REGISTRATION FORM**

**2005 JOINT ANNUAL MEETING**

**AMERICAN FISHERIES SOCIETY, SOUTH CAROLINA CHAPTER**

**AND**

**SOUTH CAROLINA FISHERIES WORKERS ASSOCIATION**

Registration form also available online at : <http://www.scafs.org/>

## **Registration Options:**

<b>Regular Rate</b>		<b>Student Rate<sup>1</sup></b>
___\$30.00 <sup>2</sup>	Pre-Registration (before January 15, 2004)	___\$15.00
___\$35.00	Late Registration (after January 15, 2002)	___\$20.00
___\$20.00	Lodging on-site Cabins (5 per Cabin)	___\$20.00
___\$5.00	Annual Dues-SCFWA	___\$5.00
___\$5.00	Annual Dues-SCAFS	___\$5.00

<sup>1</sup>Registration fee will be waived for Student Presenters.

<sup>2</sup>Includes dinner and social Monday night, and breakfast Tuesday morning.

\$ \_\_\_\_\_ **TOTAL ENCLOSED**

Name \_\_\_\_\_ Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

**\*\*\*Attendees not registering in time to request a bed in the cabins will be responsible for their own lodging. A special rate of \$52.00 (plus tax) per room has been secured at the nearby Days Inn. Be sure to indicate you are with the SCAFS meeting when making your reservation.**

Days Inn  
1387 Tiger Blvd  
Clemson, SC 29631  
(864) 653 – 4411

**Pre-registration is requested so that we may plan for refreshments and meals accordingly.**

Please make checks payable to SCFWA and send this form via mail or fax to:

**Sabrina Wright, SCDNR, PO Drawer 190, Bonneau, SC 29431, Fax (843) 825-3382**

For more information contact Sabrina Wright at (843) 825-3387 or [wrights@dnr.sc.gov](mailto:wrights@dnr.sc.gov)



## **SCAFS/ SCFWA 2004 MEETING SITE INFORMATION**

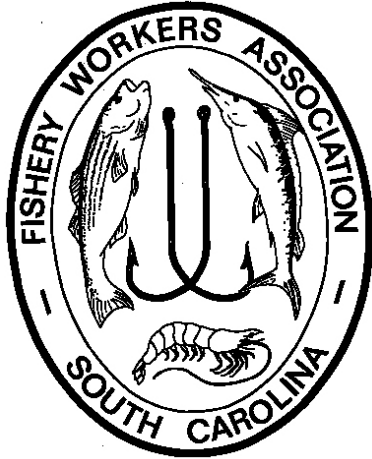
For Directions or additional information about the meeting site, visit Clemson's Outdoor Laboratory website at:

<http://www.clemson.edu/outdoorlab/>

Registration will begin at 11:00 am on February 7 at Kresge Hall. The first technical session will begin at 1 PM.

**ATTENTION: Attendees who choose to stay in the cabins will need to provide their own linens (sheets, pillow cases, and towels).**

2005 JOINT MEETING  
 AMERICAN FISHERIES SOCIETY, SOUTH CAROLINA CHAPTER  
 AND  
 SOUTH CAROLINA FISHERY WORKERS ASSOCIATION  
 FEBRUARY 7 – 8.  
 CLEMSON, SC.



AGENDA:

February 7	11:00 am	Registration	Lobby
		Lunch	On your own
	12:00 pm	Welcome	
	12:10 pm	Presentations, Session 1 and 2	Conference room
	4:15 pm	SCFWA business meeting	Conference room
	5:00 pm	SC-AFS business meeting	Conference room
	6:00 pm	Dinner and Social	
February 8	7:30 am	Breakfast	
	8:30 am	Presentations, Session 3 and 4	Conference room
	12:30 pm	adjourn	

2005 JOINT MEETING  
AMERICAN FISHERIES SOCIETY, SOUTH CAROLINA CHAPTER  
AND  
SOUTH CAROLINA FISHERY WORKERS ASSOCIATION  
FEBRUARY 7 – 8, CLEMSON, SC.

PRESENTATION SCHEDULE

<sup>1</sup> = Student paper

\* = Presenter

SESSION 1, MONDAY FEBRUARY 7, 2005, 12:00 PM – 1:50 PM.

MODERATOR: DAVID WYANSKI

12:00 pm **Welcome and introductions**

12:10 pm 1 **American shad (*Alosa sapidissima*) usage of the Wateree River, SC.**  
David Coughlan, D. Hugh Barwick, B.Kim Baker, W.H. Rash, A.Brad  
Garner\*, and W. Bob Doby. *Duke Power Company, Huntersville, SC*

12:30 pm 2 **Largemouth bass movements in the Savannah River and Steel Creek.**  
Michael H. Paller\*, D.E. Fletcher, T. Jones, S.A. Dyer, J.J. Isely, and J.W.  
Littrell.  
*Westinghouse Savannah River Company, Savannah River Ecology Laboratory  
and Clemson University.*

12:50 pm 3<sup>1</sup> **Age, growth and reproduction of the barrelfish, *Hyperoglyphe  
perciformis*.**  
Kelly Filer, *College of Charleston and S.C. Dept. of Natural Resources.*

1:10 pm 4<sup>1</sup> **Submersible observations of fish assemblages in deep reef habitats off the  
Southeastern United States: Implications for management.**  
Christina Schobernd, *College of Charleston, S. C. Dept. of Natural Resources*

1:30 pm 5<sup>1</sup> **Is self fertilization possible in sand perch, *Diplectum formosum*.**  
Walter Bublely, *College of Charleston and S.C. Dept. Natural Resources.*

1:50 pm **BREAK**

SESSION 2, MONDAY FEBRUARY 7, 2005, 2:10 PM – 4:20 PM.

MODERATOR: JEFF ISELY

2:10 pm 6 **Estimating the non-market economic benefits of red drum stocking: A  
progress report.**  
Ray J. Rhodes, *Office of Fisheries Management, Marine Resources Division,  
S.C. Dept. of Natural Resources*

- 2:30 pm 7<sup>1</sup> **Catch and release in South Carolina's red drum recreational fishery.**  
Julie Vecchio, *College of Charleston and S.C. Dept. of Natural Resources*
- 2:50 pm 8<sup>1</sup> **Post-tournament live-release dispersal, behavior, and survival of adult striped bass.**  
Shawn Young, *Clemson University*
- 3:10 pm 9<sup>1</sup> **Genetic patterns of introgressive hybridization between native Yellowstone cutthroat trout and introduced rainbow trout.**  
Kelly Gunnell, *Clemson University*
- 3:30 pm 10<sup>1</sup> **Spatial and temporal segregation of habitat by spawning fishes in the Savannah River, South Carolina-Georgia.**  
Timothy B. Grabowski, *Dept. of Biological Sciences, Clemson University*
- 3:50 pm 11<sup>1</sup> Larval and juvenile fish utilization of bottomland floodplains.  
Susan Dyer, *Westinghouse Savannah River Company*
- 4:10 pm **Introducing: "Fishes of the middle Savannah River basin"**  
Bart Marcy, *Westinghouse Savannah River Company*

BUSINESS MEETINGS, MONDAY FEBRUARY 7, 2005, 4:30PM – 6:00 PM

- 4:30 pm SCFWA business meeting**
- 5:15 pm SCAFS business meeting**
- 6:00 pm DINNER AND SOCIAL**

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SESSION 3, TUESDAY FEBRUARY 8, 2005, 8:30 AM –10:30 AM.

MODERATOR: TIM GRABOWSKI

- 8:30 am 12 ***Sargassum* communities of the western North Atlantic.**  
H. Scott Meister, *S.C. Dept. of Natural Resources, Marine Resources Division.*
- 8:50 am 13 **Species composition and seasonal occurrence of sharks in South Carolina estuaries.**  
Carrie Hendrix\*, Glenn Ulrich, *S.C. Dept. of Natural Resources, Marine Resources Division.*

- 9:10 am 14 **Age, growth, and reproduction of greater amberjack, *Seriola dumerili*, in the southwestern north Atlantic.**  
Paulette Mikel, *S.C. Dept. of Natural Resources, Marine Resources Division.*
- 9:30 am 15 **The spawning of black sea bass, *Centropristis striata*.**  
Allison White, *S.C. Dept. of Natural Resources, Marine Resources Division.*
- 9:50 am 16 **Using GIS analysis to map spawning locations of Atlantic reef fishes off the Southeastern U.S.**  
G.R. Sedberry, O. Pashuk, David .M. Wyanski\*, J.A. Stephen, and P. Weinbach *S.C. Dept. of Natural Resources, Marine Resources Division*
- 10:10 am 17 **Characterization of commercial reef fish catch and bycatch off the SE coast of the US.**  
Jessica Stephen, *S.C. Dept. of Natural Resources, Marine Resources Division.*
- 10:30 am **BREAK**

SESSION 4, TUESDAY FEBRUARY 8, 2005, 10:50 AM – 12:30 PM.

MODERATOR: SCOTT MEISTER

- 10:50 am 18 **Fish assemblage integrity among tributaries of the Reedy River**  
Kevin Kubach, *S. C. Dept. of Natural Resources*
- 11:10 am 19 **Species diversity and condition of the fish community during a drought in Congaree National Park.**  
Leo Rose\* and J. Bulak, *S. C. Dept. of Natural Resources*
- 11:30 am 20 **Prey item investigations for sturgeons in two South Carolina rivers; preliminary results.**  
Bill Post\*, Mark Collins, and Angela Rourk, *S.C. Dept. of Natural Resources, Marine Resources Division.*
- 11:50 am 21 **South Carolina Statewide Stream Survey: What will we learn?**  
Mark C. Scott, *S. C. Dept. of Natural Resources*
- 12:10 pm 22 **How many of those stocked fish will I be able to catch?**  
Wallace Jenkins, *S.C. Dept. Natural Resources., Marine Resources Research Institute*
- 12:30 pm **ADJOURN**



South Carolina Chapter  
American Fisheries Society

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**2005 SCAFS BUSINESS MEETING**

Call to Order

- I. Minutes of the Spring 2004 Meeting
- II. Reports of Officers
  - a. report of the treasurer – Jason Moak
- III. Report of the Clemson University Subunit – Shawn Young
- IV. Report of the Southern Division AFS
- V. Reports of Standing Committees
  - a. Nominating Committee
    - i. 2006 Chapter Elections
  - b. Resolutions Committee
    - i. Clemson University Forestry and Natural Resources Advisory Board
      1. Wildlife and Fisheries Biology Curriculum Sub-committee
      2. Land use at Clemson University and Experimental Forest
    - ii. request to provide financial support for a member's medical bill
  - c. Awards Committee
    - i. SCAFS Conservationist of the Year Award
    - ii. SCAFS Jack Bayless Award (for best 2004 paper)
  - d. Program Committee
    - i. 2004 and 2005 Fall Workshop
    - ii. 2006 Joint Annual Meeting
    - iii. 2009 AFS Annual Meeting
- VI. New Business
- VII. Announcements
- VIII. Adjourn



# SCAFS Membership Form

**Name** \_\_\_\_\_

**Address** \_\_\_\_\_

**Telephone Number** \_\_\_\_\_

**Email Address** \_\_\_\_\_

**Employer** \_\_\_\_\_

**Job Title** \_\_\_\_\_

Annual Dues:           \$5 included

I pay through the parent society

Mail to:

SCAFS  
c/o Jason Moak  
Kleinschmidt Associates  
101 Trade Zone Drive 21-A  
West Columbia, SC 29170



PRESENTED TO  
**Steve Lynch**  
FOR THE 2008 PRESENTATION  
"Successful attack of bacterial enteritis  
and associated food poisoning by  
streptococcus group viridans"  
TO  
SEAFS AND SCORP  
PRESENTED BY  
SCORP CAMPUS STAFF OF THE  
UNIVERSITY OF CALIFORNIA

Leo Rose  
SCORP

