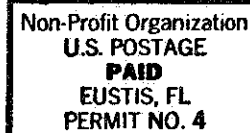
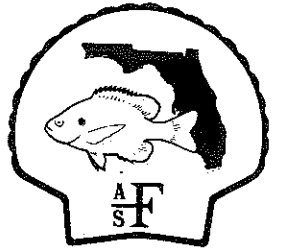


Charles E. Cichra
FAFS Newsletter Editor
University of Florida
Department of Fisheries & Aquaculture
7922 NW 71st Street
Gainesville, Florida 32606



the shell-cracker

FLORIDA CHAPTER OF THE AMERICAN FISHERIES SOCIETY



AUGUST 1991

VOLUME 11 (2)

PRESIDENT'S MESSAGE:

YESTERDAY: The Florida AFS Chapter was born in 1980. According to the first Chapter Newsletter, "The goals of the Chapter were addressed at some length (at the first business meeting) with no finite decisions being reached, except that the cross-blending of marine and fresh water disciplines and of all agencies, institutions, and organizations be maintained as a Chapter trademark".

TODAY: The Chapter's goals and purposes as stated in our 1991 Procedural Manual are to: 1) Advance the status and performance of the fisheries profession within the State of Florida by holding meetings and publishing works, and through active, positive relations with journalists, government officials, special interest groups, other professional organizations, and the general public, 2) Facilitate communications among members and other professionals (by newsletter and other means) regarding fisheries science issues and the conduct of the fisheries profession within the State of Florida, 3) Promote proper use of aquatic resources by initiating and participating in special projects that increase public awareness, expand participation, improve habitat, protect fragile resources, and promote wise management of all fisheries resources in Florida, 4) Serve as technical and professional advisors to government agencies within the State of Florida, 5) Present the views of Chapter members (e.g., gained through surveys or resolutions) to the Southern Division membership, the AFS parent society membership, the general public and government agencies within the State of Florida, and 6) Aid in implementation of AFS parent society procedures and attainment of their goals. Obviously, our Chapter's goals have been expanded considerably over the years since 1980.

TOMORROW: ??? The question marks in the Chapter's future are for the long-term only since the momentum reflected in the evolution of our goals will propel us past the immediate future, even if we do nothing more. Being President of an organization at this stage in its development is a WIN-WIN situation; i.e., not even I can really mess this one up! The success of our first decade is history, but how our second decade is judged by future

members, or more importantly, as evidenced by the status of Florida's fisheries resources in the year 2000 (only 8 1/2 years away), is something each member should be concerned with.

I believe the Chapter is at a critical turning point; one that most if not all very successful volunteer organizations experience. From this point, we could fade from the scene by resting on past successes until they have little or no present tense value (e.g., 'the book') OR we can proceed to accomplish even more meaningful achievements focused on our clearly defined goals. It is the natural resource scientist's nearly dogmatic commitment to protecting, enhancing and wisely utilizing Florida's fisheries resources that brings us together, and it is this same commitment that demands we stay the course; the consequences of doing otherwise are obvious and unacceptable.

Now that we know we have no recourse but to push ahead, how will we be able to accomplish this formidable task? Simple! And what's more, you will find the answer and much more in this and every issue of YOUR Newsletter. Sure signs that we are being successful will be jumping off of every page of 'the Shellcracker'. These signs will include: 1) not only reading what others have to say, but also letting others read what YOU have to say -- i.e., become a newsletter contributor; 2) pages filled with a wide range of opinions covering a wide range of topics that represent the wide range of interests of our membership; 3) summaries of and proposals for new and creative fisheries management strategies; 4) exposure of professionally and politically safe, but possibly ineffective fisheries programs; 5) learning to disagree agreeably with those who share our ultimate objective, but who have chosen a somewhat different path to follow for achieving it; and 6) being able to look back and say "I, _____ (your name goes here), made a positive contribution to the success of the Florida AFS Chapter in 1991, 1992, etc." If you don't find these signs in upcoming issues of YOUR Newsletter, it's time we all start working harder to make them happen ... remember the unacceptable consequences if we don't.

-- Paul L. Shafland

1992 FLORIDA CHAPTER ANNUAL MEETING:

The 1992 annual meeting of the Florida Chapter AFS will be held at the Withlacoochee State Forest, north of Brooksville, Florida. The theme of the 1992 meeting will be "The Future of Florida's Game Fish". Tentative dates for the meeting are 10-12 March 1992, with alternative dates the following week. Ron Taylor, Florida Marine Research Institute, (813)896-8626/SUNCOM 523-1011, is organizing the meeting. A call for presentations will be included in the next Shellcracker.

UPCOMING MEETINGS:

Florida Aquatic Plant Management Society - You still have the opportunity to present a paper at the 15th Annual FAPMS Meeting scheduled for 15-17 October 1991, Daytona Beach, Florida. All aspects of aquatic plant biology and management will be welcomed. If you are interested in presenting a paper contact Mike Hulon, FAPMS Program Chairman, 390 West Carroll Street, Kissimmee, FL 34741, Phone (407) 846-5220. For registration information contact Victor Ramey, FAPMS Treasurer, Rte. 1 Box 217-A, Micanopy, FL 32667, Phone (904) 392-1799.

Southeastern Aquaculture Conference and Trade Show - Sponsored by the Florida Aquaculture Association, this meeting will be held 22-24 October 1991 in Miami Beach, Florida in conjunction with the Sea Fare Americas International Seafood Exposition and the South Florida Food Expo and Culinary Salon. Contact Mike Ednoff, Florida Department of Agriculture and Consumer Services, 425 Mayo Bldg., Tallahassee, Florida 32399-0800. Phone: (904) 488-4033.

International Conference on Ground-Water Ecology - Sponsored by the U.S. Environmental Protection Agency in conjunction with the American Water Resources Association and the Ecological Society of America, this meeting will be held 27-29 April 1992 in Tampa, Florida. Contact John Simons, U.S. EPA, Groundwater Protection Division, Mail Code WH550G, 401 M Street, SW, Washington, D.C. 20460. Phone: (202) 382-7091.

NEWSLETTER PUBLICATION DEADLINE:

It has taken me (Chuck Cichra) less time to get out this issue of the Shellcracker than the last issue, but still more time than I had hoped. I would like to mail the next issue during late November/early December. If you have something that you would like included in the next issue, please get your information to me no later than 20 November 1991.

Send your information to me at:

Chuck Cichra
FAFS Newsletter Editor
University of Florida
Department of Fisheries & Aquaculture
7922 NW 71st Street
Gainesville, Florida 32606

Phone: (904) 392-9716, SUNCOM 622-9617
FAX: (904) 392-3462, SUNCOM 622-3462

EDITOR'S (?) GOOFUP:

Dylan (not Dilan) Jones is the Chairman of our Chapter's Urban Fisheries Technical Committee. Sorry for the misspelling!

NEW PUBLICATIONS:

Proceedings of the Florida Acidic Deposition Conference - are now available. Papers in the proceedings cover a variety of topics that include atmospheric emissions and deposition, and effects on water chemistry, fresh water fisheries and forestry. Copies can be obtained by contacting Curtis Watkins at (904) 488-0782 (SUNCOM 278-0782).

Fishing and Our Environment - Fun and Facts - This new 30-page publication addresses the needs of our nation's youth regarding fishing and environmental awareness. It contains numerous puzzles and activities for the young angler, each having an environmental message. Send \$1.00 to Angler's for Clean Water, Inc., P.O. Box 17900, Montgomery, AL 36141-0900.

F.I.S.H. Habitat Education Posters and Brochures - Fishermen Involved in Saving Habitat (F.I.S.H.) has initiated a fish habitat education program. The program is explained by a brochure and is accompanied by an attractive full color "Save Our Schools" (of fish!) poster. Both AFS and the Pacific States Marine Fisheries Commission have supported the program by providing staff and start-up money. Commercial fishing interests represented by National Fishermen Publications have also been a great help in obtaining funding. For posters and brochures contact Fran Recht, P.O. Box 221, Depoe Bay, OR 97341, Phone (503) 765-2229.

Coasts in Crisis - Free publication of the U.S. Geological Survey examining the deterioration of ocean and Great Lakes shorelines and wetlands. Contact the Books & Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, CO 80225. Request Circular 1075. (32 pages)

Mercury Technical Committee Interim Report - Submitted to the Florida Governor's Mercury in Fish and Wildlife Task Force and the Florida Department of Environmental Regulation. Copies are available on request from Victor W. Lambou, Director, Environmental Monitoring and Wet Environments Research Program, Florida State University, Tallahassee, FL 32306-4016, Phone (904) 644-5524.

Marine Education: A Bibliography of Educational Materials Available from the Nation's Sea Grant College Programs - First published as a result of a cooperative effort of the nation's Sea Grant programs and the Living Seas pavilion at Epcot Center. This latest update contains a compilation of the textbooks, curricula materials, and other marine education resource materials developed by individual Sea Grant programs nationwide. 43 pages. \$2.00 each or \$1.50 each for bulk shipments of 50 or more. Checks should be made payable to the "University of Florida" and sent to Florida Sea Grant College, University of Florida, Building 803, Gainesville, FL 32611-0341. Florida residents must add 12 cents sales tax.

1995 ANNUAL AFS MEETING IN FLORIDA?

After many presentations, discussions, debates, and on-site tours (by three of the committee's members to the remaining three potential meeting sites), the 1995 Annual AFS Meeting Host Committee, chaired by Wes Porak (Eustis GFC Laboratory), selected Tampa to be the site submitted to the National AFS Time and Place Committee. A formal bid by the Chapter was prepared and submitted in August. Susan MacLean (Tampa/Hillsborough Convention and Visitors Association, Inc.), Elli Gilberg (Florida Marine Research Institute), and Wes Porak prepared the final proposal. A decision as to which site will be selected for the 1995 meeting will be made during or shortly after this year's Annual AFS Meeting in San Antonio, Texas, 7-12 September, 1991. If selected, the work has only just begun!!!

KID'S FISHING CLINIC AND TOURNAMENT:

A "Kid's Fishing Clinic and Tournament" was held April 13th at a statewide YMCA campout near Umatilla, Florida. The 30-minute fishing classes ran throughout the day which included such topics as fishing tackle and techniques, species identification, conservation, ethics, knot tying and casting. The classes were exceptional and we received a lot of positive feedback! Fishing clinic packets were given to the 230 children that attended the clinic and to another 150 to 200 that came by for free handouts. Twenty-three percent of the children had never fished before and many others said that they had only fished once before.

Six one-hour fishing tournaments allowed 40-50 children to fish each hour for a total of 269 children. Most were between 5 to 9 years of age. Despite stocking catfish and bream, installing fish attractors and an enclosure, fishing success was less than desirable. However, every child walked away with a prize and a smile! We had over 20 sponsors that donated rods and reels, fishing line, mini tackle boxes, lures, caps, t-shirts and books on fishing.

Eleven Florida Game and Fresh Water Fish Commission (GFC) biologists, along with volunteers from Sea World and the University of Florida, helped run the event. Wes Porak, GFC biologist in Eustis, did a superb job of organizing and coordinating the event.

FISHHAB '90: Fisheries Habitat Utilization: Marshes

Grant Gilmore helped organize and co-chair this special symposium at the Southern Division AFS Meeting last October in Richmond, Virginia. Thirty-two scientists, with expertise in fish marsh utilization from Cape Cod to Texas, gave excellent presentations on a variety of studies in estuarine and salt marsh fish ecology. The range of zoogeographic settings covered allowed considerable

new perspective on the structure and function of these fish communities. Gilmore and three other Florida Chapter members (Carole McIvor, Robert McMichael and Kevin Peters) presented papers. Copies of the session abstracts can be obtained from R. Grant Gilmore, Division of Coastal, Environmental and Aquacultural Sciences, Harbor Branch Oceanographic Institution, 5600 Old Dixie Highway, Fort Pierce, FL 34946.

MEMBER NEWS:

Past Chapter President **Vince Williams** has accepted a position with a private environmental firm in Georgia. Vince will be leaving the Florida Game and Fresh Water Fish Commission at the end of July after 20 years of distinguished service. Vince's activism in the area of lake restoration and his efforts to reduce sources of pollution going into Florida's aquatic ecosystems brought him well-earned respect and recognition, not the least of which was his being named the Florida Wildlife Federation's 1980 Wildlife Conservationist of the Year ... **Frank Morello**, GFC Everglades Region fishery biologist since 1972, was recently elected to his fourth term as treasurer of the FLORIDA OUTDOOR WRITER'S ASSOCIATION. On his own time, Frank has written several popular fishing and hunting articles that have appeared in Florida Wildlife magazine and elsewhere ... Competing against the best outdoor writers in the state, **Phil Chapman**, GFC fisheries biologist in Lakeland, received the 1991 FLORIDA SPORTSMAN CONSERVATION First Place Award for his educational bulletin titled 'Recycle your bass: a guide to handling and releasing your catch'. Phil received this prestigious award at the annual meeting of the FLORIDA OUTDOOR WRITER'S ASSOCIATION in Tallahassee.

The Florida Game and Fresh Water Fish Commission's Lake Restoration Section and Chemistry Laboratory staff were winners of 1990 Davis Productivity Awards. The Commission's Lake Restoration Section in Kissimmee won \$600 for first place in the 'Notable Category' as the top work unit. Fisheries biologist **Ed Moyer** and staff were recognized for a lake drawdown restoration project on East Lake Tohopekaliga in Osceola County. The restoration project not only improved the lake's aquatic habitat along eight miles of the lake's 14-mile shoreline, but also its recreational use and economic benefits by an estimated \$6 million ... **Homer Royals**, **Ted Lange** and **Harold Carpenter** of the Commission's Chemistry Laboratory in Eustis won \$300 for third place in the 'Notable Category' under Individual Awards. The three fisheries biologists were recognized for developing methods for mercury analysis. They tested 666 fish and 132 wildlife tissue samples in addition to their regular duties. This represented a 25% increase in productivity worth \$54,820. Their innovation was prompted by findings of mercury contamination in largemouth bass and panthers in the Everglades (SFI Bulletin No. 421, January/February 1991).

COMMITTEE REPORTS:

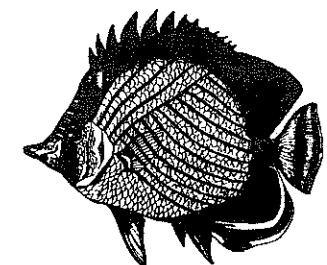
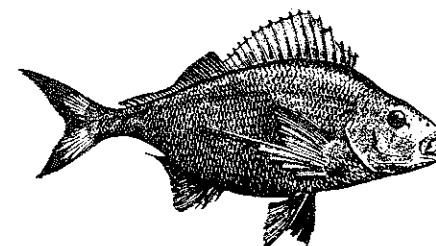
Raffle: Brent Winner (Florida Marine Research Institute, 100 Eight Avenue, S.E., St. Petersburg, FL 33701 Phone (813) 896-8624, SUNCOM 523-1011)

Several Months have passed since our annual meeting in Brooksville, and Chapter members are still raving about this year's raffle. In fact, our president, Paul Shafland, has already pledged \$20 worth of tickets for next year's raffle, sight un-seen. Thanks to the generosity of many contributors, the raffle committee doubled the amount of funds raised last year.

Ron Taylor, 1990/91 raffle chairman, spearheaded the effort with a gung-ho support group behind him. The total cash value of all donated prizes was up into the thousands of dollars. A few lucky Chapter members won prizes such as a 3-day fishing trip to the Tortugas (courtesy of the Winner Party Boat Fleet, Marathon, FL), a full days sail aboard a 52' luxury sailing yacht for 9 people (courtesy of Soliton Charters, Miami Beach, FL), or a offshore scuba trip for two (courtesy of Scuba Services, St. Pete, FL). Other members took home a beautiful piece of "wildlife" art donated by such Florida talents as Ernest Simmons, Russ Sirmons, and Diane Peebles. Businesses such as 12 Fathom Jigs, Cottee Jigs, Love's Lures and the Sport's Authority provided many members with a wide assortment of fresh- and salt-water fishing tackle, including several rod and reel combinations and the famous "worms" which nearly everyone in attendance won. It was definitely a raffle to be remembered and I hope all of you enjoyed it as much as the committee did.

Plans for the upcoming year's raffle have already begun. Letters of thanks have been sent to last year's contributors and other contacts made, setting the stage for another successful raffle in 1992. Chapter members Marty Hale, Dennis Renfro, and Doug Haymans have already pledged their assistance on this year's committee. I would like to encourage volunteers from all parts of the state to insure a well balanced effort by the membership. It is important for us to establish these types of contacts, statewide, to let contributors know what we are doing as a Chapter, and how they can help us achieve our goals.

Please contact me if you are interested in helping on the committee or have any suggestions which might help make this coming year's raffle a big success.



FLORIDA SEA GRANT RESEARCH PROJECTS

April 1, 1991 - March 31, 1993

1. Economic Analysis of Hard Clam Aquaculture Systems Under Price and Yield Risk
2. Coping Strategies of Fishing Families in Response to Perceived Impacts of Changes in Marine Regulations
3. Evaluation of Lactic Acid Treatment, Cryogenic Freezing and Depuration of Salmonella in Oysters of the Suwannee Region
4. The Gulf Stream Front, Its Role in Larval Fish Survival and Recruitment in Florida
5. Limits to Recruitment of Spiny Lobster in Florida: Assessment of Artificial Enhancement Techniques
6. Dynamic Fishery Stock Recupration under Variable Annual Quota Allocations: The Florida Mackereles
7. Temporal Aspects of Recruitment and Spawning of the Gag Grouper in the Gulf of Mexico
8. Development of a Heritable Genetic "Tag" for Estimating Survivorship of Released Hatchery Fishes over Several Generations
9. Nutrient Cycles and Optimum Productivity of Shallow-Water Artificial Reefs
10. Development of Technology for the Nursery and Field Cultivation of the Angel Wing Clam, *Cyrtopleura costata*
11. Regulation of Yolk Production in Marine Shrimp, *Penaeus vannamei*
12. Enzyme Activities as Biochemical Indices of Condition in Larval and Juvenile Red Drum
13. Field Experiment Evaluation of the Effects of Beach Restoration on Stony Corals of Southeast Florida
14. Coastal Turbidity Associated with Natural and Man-Induced Phenomena
15. Field Evaluation and Continued Development of Equilibrium Beach Profile Concepts
16. A Unified Model for Cross-Shore and Longshore Sand Transport
17. Boat Traffic Monitoring Geographic Information System (GIS) for Planning Estuarine Waterways: Florida Case Study
18. Present and Projected Demand and Supply of Florida's Saltwater Boat Ramps
19. Regulation of Estuarine Phytoplankton Dynamics: The Interaction of Reduced Salinity, Enhanced N:P Ratios and Pulsed Nutrient Inputs
20. Quantifying Sediment Resuspension Flux of Nutrients and Contaminants in Estuaries Due to Episodic Events
21. Effects of Environmental Stresses on Productivity and Survival of Florida Seagrasses
22. Effects of Epiphyte Load and Light Limitation on Florida Seagrasses

Florida Sea Grant College
Building 803, Univ. of Florida
Gainesville, FL 32611

NEW FLORIDA SEA GRANT PUBLICATIONS

Investing in Commercial Hard Clam Culture: A Comprehensive Guide to the South Atlantic States (SGR-104)

Charles Adams, James C. Cato, Jim Easley, Jr., Skip Kemp, William Mahan, John J. Manzi, Mike Oesterling, Robert Pomeroy, Eric Thunberg, David Vaughan and Randal Walker, authors.

Produced through funding provided by the National Coastal Resources and Research Development Institute, this report is written by a team of economists and biologists from Virginia, North Carolina, South Carolina, Georgia, and Florida. This publication serves as a guide for persons interested in making realistic economic decisions about investing in a hard clam culture system. In addition to summarizing the biology of hard clam culture, it emphasizes economic analysis and investment guidelines. 127 pages. Free.

How to Hold a Fishing Tournament for Kids (SGEB-16)

Don Sweat, author.

This handbook and the recommendations that are included are based upon recent annual kids' fishing tournaments held in St. Petersburg, Florida. It includes information on all aspects of tournament planning including establishing a tournament committee, selecting a tournament location, budgeting, advertising and publicity, safety, judging and more.

10 pages. \$2.00.

In addition

Due to the overwhelming demand for: An Introduction to Planting and Maintaining Selected Common Coastal Plants in Florida (SGR-97), edited by Michael Barnett and David

Crewz, this publication has been reprinted and is ready for distribution. It serves as a guide to identifying, obtaining, planting, and maintaining the

plants most frequently found along Florida's coasts. Helpful facts on when and where to plant each species, as well as information on selecting the correct species to meet specific needs are included. Includes 40 color photos. 108 pages. \$10.00.



NOTE: Florida residents please include 6 % sales tax.

Searching for Success, a campaign by RENEW AMERICA to identify, reward and promote successful environmental programs gave national recognition to the Florida Game and Fresh Water Fish Commission's peacock bass program being conducted at the Non-Native Fish Research Laboratory in Boca Raton. RENEW AMERICA is a Washington D.C. based consortium of 28 major environmental organizations. Tina Hobson, Awards Program Chair, wrote: "It is our pleasure to inform you that the environmental program entitled 'Creation of a Peacock Bass Fishery in Urban Canals' has successfully undergone a rigorous verification process and will be listed in the 1991 Environmental Success Index (ESI). The Index is a unique clearinghouse of information that will be made available to policy makers, citizens' groups, private and public organizations, the media and individuals interested in finding solutions to environmental problems. Being part of the ESI means that your program will be promoted as a model for others." Congratulations go to **Paul Shafland, Murray Stanford and the others** who helped make this program a success.

NEW FISHERIES LAW SECTION:

The new Fisheries Law Section of the American Fisheries Society has been formed and shall hold its first official meeting Wednesday, 11 September 1991 at 8:30 AM in San Antonio, Texas at the Annual AFS Meeting. The Section is currently seeking to increase public and professional awareness of the purposes of the Fisheries Law Section and to expand its membership.

Development of the Section has been due in large part to critical legal issues impacting fisheries, (such as the use of drift nets, TEDs, protection of resources, etc.), are surfacing and must be addressed in a competent forum that has both the awareness and expertise to rationally deal with the competing interests.

The Fisheries Law Section is open to all AFS members in good standing. Its purposes are:

1. To educate members of the Section and fisheries professionals on matters of law, policy, and regulation involving fisheries,
2. To provide legislative analysis of bills that may have an impact on fisheries,
3. To act as a resource to AFS in the development and analysis of legal positions that are in consonance with the aims and goals of the Society.
4. To organize and conduct programs such as workshops, symposia, etc., dealing with issues in fisheries law.

Section dues are \$5.00 per annum. Individuals interested in this new section should contact AFS at (301) 897-8616.

EDUCATIONAL VIDEOTAPE PROGRAMS

AQUATIC PLANT MANAGEMENT SERIES

AVAILABLE FROM
IFAS PUBLICATIONS
IFAS BUILDING 664
GAINESVILLE, FL 32611-0001
(904) 392-1764

All programs cost \$10.00 each, plus .60 tax for Florida residents.
Payable to "University of Florida".
They are available on VHS, S-VHS and PAL video formats.
Please specify video format and IFAS Catalog Number.

FLORIDA'S AQUATIC PLANT STORY (IFAS Catalog No. VT-315)

Produced for general public audiences, this program describes the benefits of native aquatic plants, recounts problems caused by some exotic "aquatic weeds", and introduces the major methods of aquatic plant management. The program is 24 minutes long.

Recommended for: general public, students of all ages, aquatics managers and field personnel.

ISTOKPOGA - Lake of Legends (IFAS Catalog No. VT-285)

This program tells the story of one of Florida's largest lakes, and the hydrilla infestation that made its waters all but unusable. It recounts the citizen activism and agency cooperation that resulted in the largest aquatic herbicide application in Florida history, and describes the results of that treatment. The program is 39 minutes long.

Recommended for: general public, secondary and college students, aquatics managers and field personnel.

HOW TO DETERMINE AREAS

AND AMOUNT OF AQUATIC HERBICIDE TO USE (IFAS Catalog No. VT-310)

This program is an introduction to and a review of some of the mathematics essential to the proper use and application of aquatic herbicides. This program features Dr. Kenneth Langeland, IFAS Extension Specialist for Aquatic Plants. The program is 34 minutes long.

Recommended for: aquatics managers and field personnel.

CALIBRATION - A Field Approach (IFAS Catalog No. VT-284)

Featuring Dr. William Haller, this program presents a practical approach which "takes the mystery" out of calibrating handguns, booms and granular spreaders. This program is 35 minutes long.

Recommended for: aquatics managers and field personnel.

AQUATIC PLANT IDENTIFICATION

I. FLOATING AND FLOATING-LEAVED PLANTS (IFAS Catalog No. VT-360)

This aquatic plant identification videotape features 14 of the most common floating and floating leaved plants in Florida. Using everyday language, it is the first of four programs which will enable non-botanists to identify the 100 most common aquatic plants in Florida. This program is 26 minutes long.

Recommended for: secondary and college students, general public, aquatics managers and field personnel.

Additional programs are in production, including:

- Three more programs for aquatic plant identification: emersed; submersed; and grasses, sedges and rushes.
- Overview of Florida limnology
- Toxicity and Registration of Aquatic Herbicides
- And others.

These programs are produced by the IFAS Center for Aquatic Plants.
They are funded by a grant through the Florida Department of Natural Resources,
Bureau of Aquatic Plant Management, from the Aquatic Plant Trust Fund.

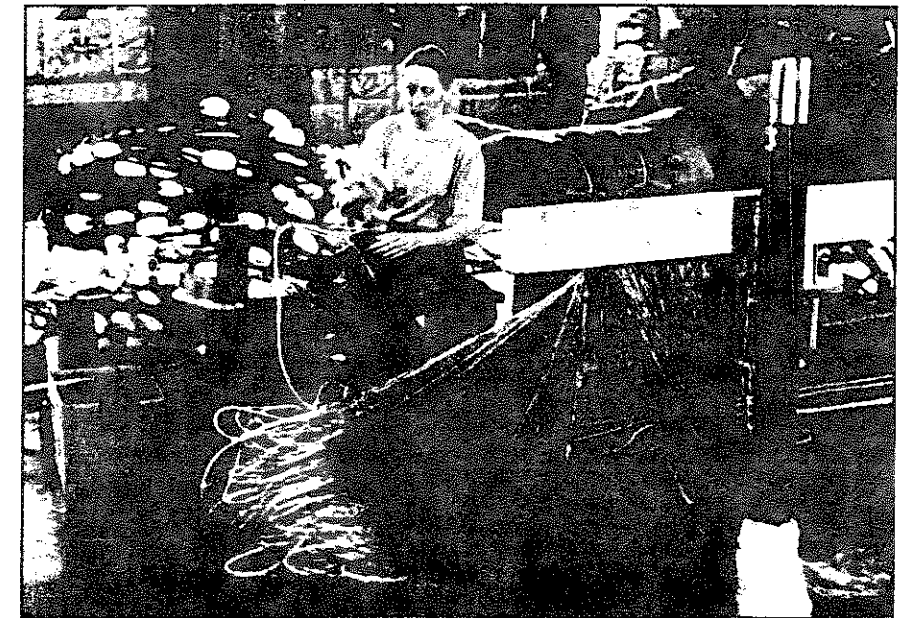
approved for funding. In addition, funding for the federal portion of Sea Grant's Extension Program, administration, and communications was established for the next two years.

Diversity Emphasized

Although most people seem to think Florida Sea Grant research is primarily devoted to marine biology, in reality Sea Grant researchers investigate a wide range of subject areas. For instance, upcoming projects will require the expertise of specialists in such disciplines as economics, sociology, engineering, and recreation.

Of course, studies using the biological sciences will continue to be well-represented. Three projects will be devoted to aquaculture and several projects will address fishery recruitment, including work on spiny lobster and gag grouper. One of the most exciting projects to be conducted during the next two years will be devoted to the development of a genetic "tag" that can be used to trace the survival of several generations of fish descended from fish released into the wild from hatcheries.

The protection of Florida's extensive seacoast will also remain a priority in Sea Grant's latest research efforts. New modeling of sand movement should increase our knowledge of how to restore and protect beaches while a study of the effects of beach restoration



How fishing families respond to changes in marine regulations will be the focus of a new Sea Grant research project. Photo by Jim Cato

on stony corals will help insure that efforts to save beaches do not damage marine life.

"Meeting the recreational needs of Florida's growing population will also be a priority in our studies," Cato said. "For instance,

we'll be taking an indepth look at whether the current number of saltwater boat ramps are sufficient to meet boater access needs in coastal areas. We'll also be evaluating a new system for monitoring boat traffic that we

The protection of Florida's extensive seacoast will also remain a priority in Sea Grant's latest research efforts.

hope will give planners important new data for use in maintaining and developing the state's waterways."

Ten Research Facilities Represented

The Sea Grant research identified for completion during the next two years draws heavily upon the talents and resources of researchers from throughout the State University System, Florida's private research community, and from one Virginia university. Together, these researchers represent a collection of some of America's most talented scientists—scientists who will be devoting a major part of their time over the next two years to help insure that Florida's coastal resources are managed wisely. Their affiliations include: University of Florida, University of Miami, Florida State University, University of South Florida, Florida International University, Florida Institute of Technology, NOVA University, Harbor Branch Oceanographic Institution, and Old Dominion University (Virginia). ■

Research Efforts Focused for Next Two Years

SEA GRANT'S 1991-1993 RESEARCH PLANS UNVEILED

by Jay Humphreys

Note: This is the first of a two-part series highlighting Florida Sea Grant's objectives for the next two years. Our next issue will take a look at activities planned for completion by the Florida Sea Grant Extension Program.

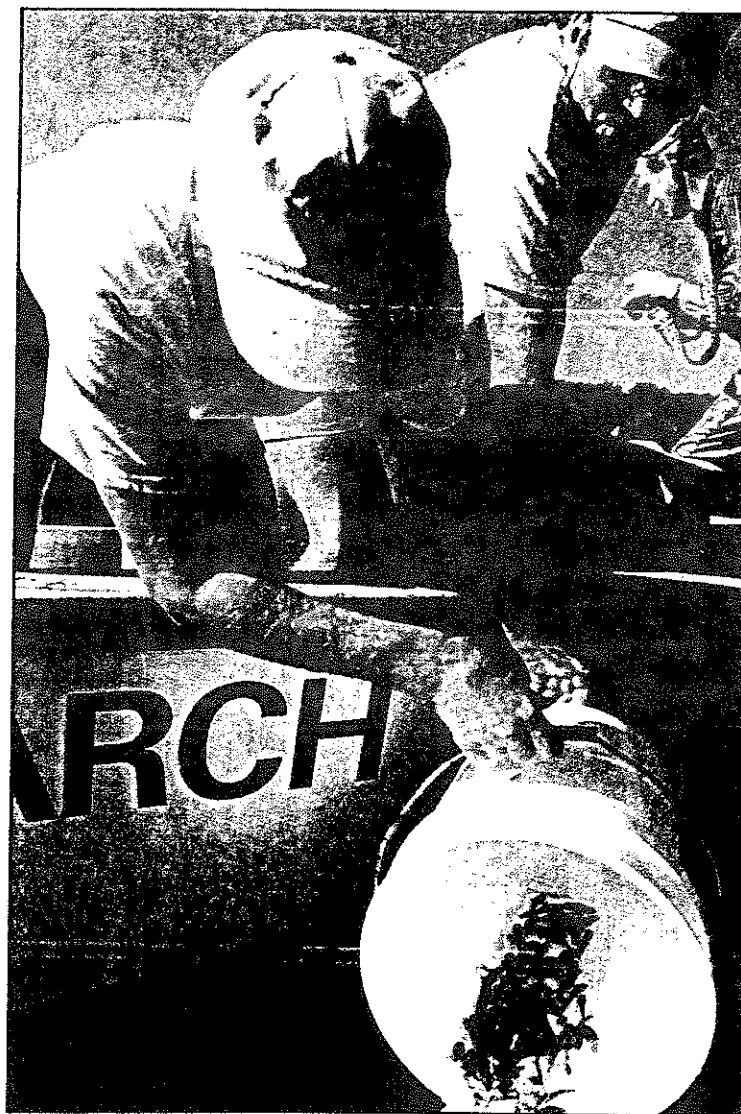
On April 1, Florida Sea Grant will begin its latest two-year research effort. With an annual funding level of \$2.4 million, including federal and non-federal matching funds, Sea Grant will concentrate on the completion of research, education, extension, and communications projects designed to enhance Floridians' conservation and use of the state's coastal resources.

"We're particularly pleased with the diversity of the projects that have been approved for funding," said Dr. Jim Cato, director of the Florida Sea Grant College Program. "These projects address some of the most important issues facing the citizens of Florida and, when completed, should play a major role in insuring that our coastal resources are used wisely."

Cato explained that the latest Sea Grant research effort resulted from an indepth review and evaluation of potential projects. The selection process began last spring when researchers from throughout the state proposed 116 different projects in response to a set of priorities developed from faculty, agency, and citizen suggestions. These initial proposals were re-

viewed on the basis of how well they met current needs and the potential for applying their results. This review narrowed the field of proposed projects to 41. The details of each of these projects were then presented by the proposed researchers and a scientific evaluation of each project was com-

pleted. As a result, 26 proposals were selected for final presentation to a team of reviewers composed of National Sea Grant Office personnel, experts from other state Sea Grant programs, and experienced educators from around the country. Based on the team's recommendations, 22 projects were



Tracing several generations of hatchery-raised fish, such as these redfish, could become a reality as a result of a new Sea Grant research project.
Photo Courtesy Department of Natural Resources

(Article excerpted from the Winter 1991 issue of *Fathom*, Florida Sea Grant)

AQUATIC PUBLICATIONS

Butts, D., J. Hinton, C. Watson, K. Langeland, D. Hall, and M. Kane. *Aquascaping: Planting and Maintenance. Circular 912.* Free

Dressler, R.L., D.W. Hall, K.D. Perkins and N.H. Williams. *Identification Manual for Wetland Plant Species of Florida.* *\$18.00 each

Langeland, K.A. (ed.) *Aquatic Pest Control Applicator Training Manual.* *\$ 7.00 each

Langeland, K.A. (ed.) *Exotic Woody Plant Control. Circular 868.* Free

Langeland, K.A. (ed.) *Hydrilla (Hydrilla verticillata (L.F.) Royle) A Continuing Problem in Florida Waters. Circular 884.* Free

Sutton, D.L. and V.V. Vandiver *Grass Carp: A Fish for Biological Management of Hydrilla and Other Aquatic Weeds in Florida.* Free

Tarver, D.P., J.A. Rodgers, M.J. Mahler and R.L. Lazor. *Aquatic and Wetland Plants of Florida.* *\$11.00 each

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in
Determining the Landward Extent of Waters of the State

by

Robert L. Dressler, David W. Hall,
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ATTENTION BIOLOGISTS...

Conservation of native species and communities requires understanding of both the system and biological responses to various land management approaches. The Nature Conservancy (TNC) is interested in increasing research efforts that will enable us to develop sound ecological management programs. We would like to identify researchers working in conservation biology and to encourage graduate students and faculty to explore topics that will accomplish conservation goals.

If you are already conducting research on rare species or communities or are interested in establishing such a research program, please contact Doria Gordon, TNC's Florida State Ecologist, % The Florida Museum of Natural History, University of Florida, Gainesville, Florida 32611, (904) 392-5949.

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8. Dry Prairie
9. Flatwoods
10. Sandhill
11. Scrub (*Ancient and Pioneer*)
12. Pine Rockland
13. Rockland Hammock
14. Royal Palm Hammock

North American Lake Management Society 11th International Symposium
"Lake, Reservoir, and Watershed Management in a Changing Environment"
November 11-16, 1991 - Denver, Colorado - Sheraton Denver Tech Center

TUESDAY, NOVEMBER 12

- USCOLD/NALMS Mini-seminar on Environmental Considerations in Reservoir Construction and Management, 8 a.m. - 4:30 p.m.
- Tailwater Ecology Workshop, 8 a.m. - 4:30 p.m.
- Reception, Exhibit Hall, 5 p.m. - 7 p.m.

WEDNESDAY, NOVEMBER 13

- Plenary Session, Speakers include:
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Dr. Peter J. Dillon, Ontario Ministry of the Environment,
Dorset Research Centre, Dorset, Ontario, Canada
- Concurrent Platform, Poster, and Video Sessions
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THURSDAY, NOVEMBER 14

- SCS Wetlands Restoration Sessions
- Concurrent Platform, Poster, and Video Sessions
- NALMS Banquet

Speaker: John Fielder, Nature Photographer, Westcliffe
Publications, Englewood, Colorado

FRIDAY, NOVEMBER 15

- Concurrent Platform, Poster, and Video Sessions
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SATURDAY, NOVEMBER 16

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The conference's official airline is United Airlines, offering 5% off any United/United Express fare or 40% off unrestricted coach fares. Reservations must be made by booking through the United Meeting Desk (call 1-800-521-4041); the conference ID # is 511NC.

For further information, contact Jim. LaBounty, Bureau of Reclamation, D-3742, P.O. Box 25007, Denver, CO 80225, 303-236-6002; or Bob Schroeder, Denver Water Department, 1600 West 12th Avenue, Denver, CO 80254, 303-628-6382

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LAKEWATCH: Sandy Fisher (University of Florida, Department of Fisheries & Aquaculture, 7922 NW 71st St, Gainesville, FL 32606, Phone (904) 392-9613, SUNCOM 622-9613)

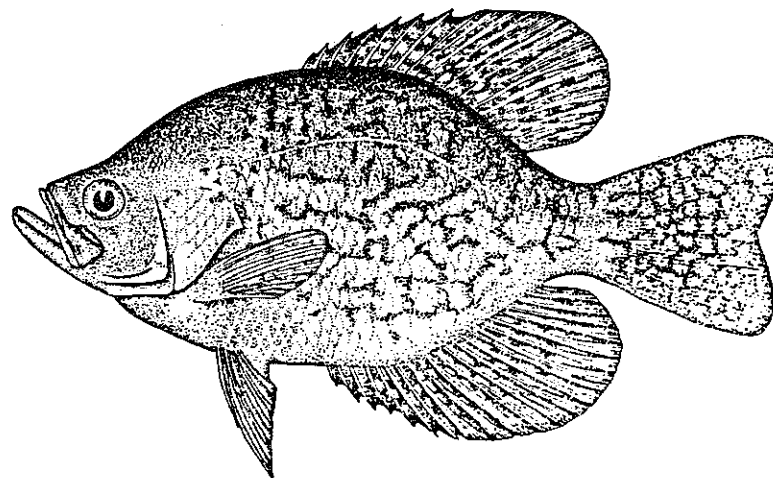
Turtle and Clam Alert - Several lakes in Florida are experiencing die-offs of turtles and Corbicula. For example, Long Pond in Putnam County had 94 cooters, seven softshells and one mud turtle die, apparently at about the same time. Lake Chipco in Putnam County experienced the die-off of 23 cooters, one softshell and one turtle of unidentified species. Six of these turtles had severely deformed shells. Opal Lake in Putnam County reported the death of 15 cooters, one mud turtle and one Florida redbelly. Lake Ashby in Volusia County had about a dozen large cooters die. Rose Lake in Orange County, Daugherty in Volusia, Rosa in Putnam, and Floyd in Pasco County have reported smaller (fewer than ten dead turtles) die-offs.

In response to these reports by Florida LAKEWATCHers, Ken Dodd of the U.S. Fish and Wildlife Service (904/372-2571) is conducting an investigation of the dead turtles. If you observe a die-off, please contact him.

Similarly, die-offs of the Asiatic clam, Corbicula, have been reported. Corbicula are beige clams about the size of a quarter. They can be identified by the concentric circles on their shells. Populations can reach as high as 8,000 animals per cubic yard of lake bottom. Corbicula filter about 1/2 quart of water per clam per hour. When they die, their sharp-edged shells open, becoming a potential hazard to swimmers.

Robert Brock at the University of Florida's Environmental Engineering Department (904/392-0838) is interested in gathering information on this exotic clam.

(The above article was excerpted from the Florida LAKEWATCH newsletter, Volume 1, July 1991)



ANNOUNCEMENT AND CALL FOR PAPERS
FOR THE
SOUTHEAST REGIONAL
LAKE MANAGEMENT CONFERENCE

March 19 - 21, 1992

Kennesaw State College

Marietta, Georgia

The North American Lake Management Society is announcing a Call for Papers or Posters to be presented at the upcoming Southeast Regional Lake Management Conference to be held March 19 - 21, 1992 at Kennesaw State College in Marietta, Georgia. The topics of papers and posters should focus on: Lake Management and Restoration (e.g., Diagnostic-Feasibility Studies, Restoration Techniques, Modeling, Water Quality Surveys, etc.); Watershed Management (e.g., Whole Watershed Assessments/Management); Point Source Discharge Assessments; Stormwater and Nonpoint Source Pollution Assessments and Abatement; Citizen Volunteer Programs; Community Lake Protection Activities; or Federal, State, County and/or Municipal Lake Management/Restoration Programs. Abstracts should consist of a title, authors names and addresses and should be limited to 600 words. The deadline for submitting abstracts for papers or posters is October 15, 1991. Poster stands are required. A conference proceedings will be published. Please contact Dr. Joe Dimberger 404/423-6546 or Dr. Ralph Rascati 404/423-6178 at Kennesaw State College, Marietta, GA 30061, if you are interested in providing a paper or poster on these or additional topics. Please contact the NALMS office at 904/462-2554 for additional information on the conference.

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Title of Paper or Poster (Optional): _____

☐ I would like additional information on the conference as it becomes available, but will not be submitting a paper or poster.

SOUTHEAST REGIONAL LAKE MANAGEMENT CONFERENCE

March 19 - 21, 1992, Marietta, Georgia 30061

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