

8TH ANNUAL MEETING ISSUE

The Florida chapter will hold its annual meeting on 2-4 February 1988 at our old stomping ground, the Withlacoochee Forestry Training Center in Brooksville. Please plan to attend -- we plan a busy, rewarding meeting of symposia, technical papers, socials, and volleyball, all in a relaxing forest setting. And the cost for lodging and meals remains at nearly the same level as in past years. So please join your fellow biologists at the meeting.

The main topic of the 1988 meeting will center around the new SWIM Bill legislation. This is an extremely pertinent and timely topic for fisheries professionals in Florida because the new SWIM programs will influence many major freshwater and marine resources in our state. The legislation will also affect Chapter members from a professional standpoint, and future issues related to the SWIM Bill will occur with which the Florida Chapter may want to become involved. In the symposium entitled "**SINK OR SWIM**", topics will include an overview of the SWIM legislation, resource priorities, the involvement of fishery biologists, employment opportunities, agency responsibilities, and what this Chapter can do to support future legislation.

Advances in Aquaculture - This session will highlight the tremendous number of recent advances in both freshwater and marine aquaculture programs in Florida. Topics will include new aquaculture legislation, research priorities and direction, new aquaculture programs, the industry's potential growth in Florida, agency responsibilities, new facilities, and career opportunities.

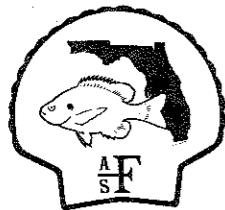
The **technical paper session** will include a wide variety of topics on proposed, ongoing, and recently completed fishery projects. Papers will be judged and awards presented. The tentative program, with speakers scheduled for the symposia, can be found on a pull-out sheet inside this newsletter.

We plan a raffle that will rival last year's. Proceeds will help to finance the second printing of our book, so please bring lots of raffle money! Early prizes include: 3 days and 2 nights at both the Clarendon Plaza (Daytona Beach) and the Howard Johnsons (Titusville), \$50 gift certificate at Meador's Marine, wildlife prints, a guided fishing trip, and AFS miscellaneous items. Much more to come!

Meals and dormitory-style lodging will be offered at the meeting location within the Withlacoochee Forest. Total meal and lodging package costs \$45. Partial packages are available. Please see the Registration Form inside.

QUESTIONS ABOUT THIS YEAR'S MEETING CAN BE DIRECTED TO: WES PORAK (904-357-6631).

William Loftus
FAFS Newsletter Editor
South Florida Research Center
Everglades National Park
P. O. Box 279
Homestead, FL 33030



President's Message

Congratulations to our Chapter for selling all 750 copies of our Chapter's publication, **FLORIDA AQUATIC HABITAT AND FISHERY RESOURCES**. Marty Hale and Wes Porak should be especially thanked since they were responsible for mailing or delivering almost every copy. However, demand for the book continues; already we have received several orders we cannot fill because books are no longer available. At our last Executive meeting, we voted to print another 750 copies. We currently are soliciting sponsors to help cover expenses and plan the second printing for February.

We will be discussing several issues during the business meeting part of the upcoming Annual Meeting on February 3. Please think about items you would like to bring up and be ready to discuss some controversial issues, such as whether our Chapter should be politically active and what we should do with the possibly large profits from upcoming book sales. Looking forward to seeing you there!

On a personal note, I applied for, and was granted, a one-year leave of absence (without pay!) from my job at the DNR Marine Research Lab. Beginning January 1, I became an official student attending graduate school at U.S.F. in Tampa. My aim is for a Ph.D. in botany, with major emphasis in coastal ecology. I hope to complete most of the classwork during the first year, but don't expect to be finished for four to five years (Yes, I know this is crazy!).

Barbara Hoffman

Secretary/Treasurer's Report

The chapter currently has a treasury balance of \$3,125.48, primarily from book sales, meeting registrations, and memberships.

Our last book was sent in December (to Australia), and we are now generating a backlog of orders. The second printing of the chapter book will cost \$5,500 for 750 copies, \$825 for mailing, and \$500 for advertising - a grand total of \$6,825. We will have to cover the original expenses but will probably realize a long-term profit from the sales. During an executive committee conference all in December, we elected to solicit financial sponsorships, rather than attempting to fund the entire operation by ourselves. We felt that since the chapter has been in the financial danger zone for over two years, it would be of benefit to allow the chapter to build a financial base which would allow us to undertake new projects (e.g., symposia, workshops, educational endeavors).

Ken Haddad

EMPLOYMENT OPPORTUNITIES

A.F.S. JOBSource has a new and preferred phone number (1-800-727-JOBS) though the service can still be reached at 1-800-327-4728. Call the number and ask for job information. You'll be sent a packet immediately which explains the system and contains a form for mailing back to JOBSource.

We're looking for experts in matters of lake restoration and/or non-point source runoff. Contact Allan Hirsch, Dynamic Corporation, 11140 Rockville Pike, Rockville, MD 20852 or call (301) 468-2500.

Fisheries career opportunities in Kansas are outlined in a new publication by the Kansas Department of Wildlife and Parks. For a copy write the Fisheries Division, RR #2, Box 54A, Pratt, Kansas 67124.

The federal Office of Personnel Management now has a single nationwide register for professional biologists (general, fishery, wildlife) at the GS-5 and 7 entry levels, administered in Macon, GA. The B.S. degree is usually qualification for the GS-5 level; a year of advanced education, professional experience, or superior scholastic achievement will qualify for the GS-7 level. The register will remain open until 31 December 1988. Application forms (SF-171) may be obtained from any OPM office and many other federal offices, and should be sent to OPM, P.O. Box 9025, Macon, GA 31927-4599. There is no standing register for biologist positions at higher levels or for Biological Technicians; see your local OPM office.

UPCOMING MEETINGS

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|----------------------|--|
| 1-3 March 1988 | MYSID - Fisheries Symposium , Ft. Collins, Colorado. Contact: Tom Nesler, Colorado Division of Wildlife, 317 W. Prospect St., Ft. Collins, CO 80526. |
| 13-16 April 1988 | The 49th Annual Meeting - Association of Southeastern Biologists , Biloxi, Mississippi. Contact: Dr. Steven Ross, Department of Biology, Box 5018, University of Southern Mississippi, Hattiesburg, MS 39401. |
| 27-30 June 1988 | International Symposium on Fish Marking and Tagging Techniques , University of Washington, Seattle. Contact: Dr. Nick Parker, U.S. Fish and Wildlife Service, Route 3, Box 86, Marion, AL 36756. |
| 1-5 August 1988 | International Billfish Symposium , Kailua-Kona, Hawaii. Contact: Ken Hinman, National Coalition for Marine Conservation, P.O. Box 23298, Savannah, GA 31403. |
| 12-15 September 1988 | Annual Meeting of the American Fisheries Society and International Association of Fish and Wildlife Agencies , Toronto, Canada. |
| 3-5 October 1988 | Symposium on The Early Life History of Fish , Bergen, Norway. Contact: Dr. Tapan Banerjee, Department of Commerce, International Trade Administration, Washington, D.C. 20230. |

FLORIDA LAB SERIES #2

Florida Game and Fresh Water Fish Commission
Fishery Research Laboratory
P.O. Box 1903
Eustis, Florida

The Fishery Research Laboratory at Eustis is the largest fishery research facility of the Florida Game and Fresh Water Fish Commission. Research has been conducted at the lab since 1967. The staff will increase to 27 by January 1988 to carry out eight research and management projects operating from the Eustis facility:

Oklawaha Fishery Investigations Project. Research has been conducted on sport fish and fisheries habitat of the Oklawaha Chain-of-Lakes for 20 years. Current studies focus on the responses of fish populations to Lake Griffin drawdown and aquatic vegetation and expansion and management in Lakes Griffin and Yale.

Largemouth Bass Project. Twenty years of research have focused on largemouth bass early life history, behavior and movements, population dynamics, and management by regulation. New research efforts will concentrate on bass-hydrilla relationships and a statewide trophy bass assessment.

Chemistry Laboratory. Provides field and laboratory support to fisheries projects statewide. A number of inorganic and physical tests are conducted on water, soil, and fish tissue samples to fully investigate the freshwater ecosystem.

Grass Carp Project. Efficacy of the diploid and hybrid grass carp for controlling excessive aquatic plant growth has been evaluated. This project was involved in early work to create triploid grass carp and to develop rapid identification of ploidy using a coulter counter. Personnel presently evaluate sampling gear, movements in large open systems (telemetry), and efficacy of the triploid grass carp for aquatic plant management.

Commercial Fisheries Project. Evaluates various commercial gear types and has monitored fish stocks in the St. Johns River since 1980. Reports from wholesale commercial dealers are compiled annually to determine the economic importance of the St. Johns River commercial fishery. Currently plans are to evaluate the blue tilapia fishery of central Florida and to determine potential commercial harvest of under-utilized species in various state waters.

Aquatic Plant Project. Reviews and provides comments relating to fish and wildlife resources on requests for aquatic plant management permits from DNR. Evaluates permit requests for triploid grass carp and makes recommendations. Provides technical assistance to other divisions, government agencies, and the public on aquatic plant management.

Statistics Project. This newly expanded project will assist other research and management projects in study design, data analysis, and construction of statewide data bases. Work deals mainly with using micro-computers and training personnel to use different software packages. Accomplishments include an upgrade of otolith analysis programs and initiation of a statewide water-quality database.

Genetics Project. This new project will investigate the genetic composition of native sport fishes and assess the appropriateness of existing hatchery broodstocks for culture programs. The project is currently using starch-gel protein electrophoresis to survey striped bass (Gulf Coast and Atlantic Stocks), riverine populations of largemouth bass, and trophy largemouth bass on a statewide basis.

Compiled and submitted by: Wes Porak

TENTATIVE AGENDA

FLORIDA CHAPTER OF THE AMERICAN FISHERIES SOCIETY
8TH ANNUAL MEETING

WITHLACOOCHEE FORESTRY TRAINING CENTER, BROOKSVILLE

FEBRUARY 2-4, 1988

February 2 (Tuesday)

3:00-5:00 pm Registration and Check-in

5:30 pm **Dinner**

7:00-7:30 pm Committee Meetings

7:00-10:00 pm Social

February 3 (Wednesday)

7:00-8:00 am **Breakfast**

8:00-8:30 am Registration

SYMPOSIUM - "SINK OR SWIM"

8:30 am Opening remarks

8:45 am Introduction, overview, and future of the SWIM BILL

9:15 am Ms. Roxanne Dow, Chief of Surface Water Management
Department of Environmental Regulation

9:35 am Mr. Mike Perry, SWIM Program Director
Southwest Florida Water Management District

10:05 am **Break**

10:25 am Mr. Bruce Parker, Deputy Executive Director
St. Johns River Water Management District

10:55 am Dr. Pat Bidol, Executive Program Director
South Florida Water Management District

11:25 am Questions for speakers (Fisheries exhibits and displays)

12:00 noon **Lunch**

3 (Symposium Continued on Reverse)

1:30 pm Mr. Jack Woodward, Assistant Director of Resource Management
Department of Natural Resources

1:50 pm Mr. Bob Wattendorf, Assistant Director of Fisheries
Florida Game and Fresh Water Fish Commission

2:10 pm Panel Discussion - Questions and Answers

2:45 pm **Break**

3:00 pm Business meeting: minutes of last year's meeting, annual report of
chapter activities, treasurer's report, membership report, discussion of
the chapter's book: "Florida Aquatic Habitat and Fishery Resources",
discussion of the chapter's slide show, future educational workshops,
chapter committees, chapter officers - election, other business, and
education fund-raising raffle.

5:30 pm **Dinner**

7:00-10:00 pm Social

February 4 (Thursday)

Session - "**ADVANCES IN AQUACULTURE**"

8:15 am "Opening remarks, overview, and direction"
Dr. Hank Stoddard, Florida Aquaculture Association

8:25 am "Lead Agency Role in Aquaculture"
Mr. Michael Ednoff, Department of Agriculture and Consumer Services

8:45 am "IFAS - Aquaculture Research and Demonstration"
Dr. Jerry Shireman, Department of Fisheries and Aquaculture, UF

9:05 am "Freshwater Aquaculture Programs"
Mr. Rick Stout, Game and Fresh Water Fish Commission

9:25 am "Marine Aquaculture Programs"
Mr. Danny Roberts, Department of Natural Resources

9:45 am Questions and Answers

10:15 am **Break**

10:30 am TECHNICAL PAPER SESSION

12:00 noon **Lunch**

1:30 pm TECHNICAL PAPER SESSION (Continued)

2:45 pm Awards for best paper presentations

3:00 pm Meeting adjourned

Recent Literature on Florida Fishes

Branstetter, S. and R. Stiles. 1987. Age and growth of the bull shark, *Carcharhinus leucas*, from the northern Gulf of Mexico. *Environ. Biol. Fishes* 20:169-181.

Colle, D. E., J. V. Shireman, W. T. Holler, J. C. Joyce, and D. E. Canfield, Jr. 1987. Influence of hydrilla on harvestable sport-fish populations, angler use, and angler expenditures at Orange Lake, Florida. *No. Am. J. Fish. Mgmt.* 7:410-417.

Greeley, M. S., Jr., D. R. Calder, and R. A. Wallace. 1987. Oocyte growth and development in the striped mullet, *Mugil cephalus*, during seasonal ovarian recrudescence: relationship to fecundity and size at maturity. *Fishery Bulletin* 85:187-200.

Loftus, W. F. 1987. Possible establishment of the Mayan cichlid, *Cichlasoma urophthalmus* (Günther) (Pisces: Cichlidae), in Everglades National Park, Florida. *Florida Scientist* 50:1-6.

Loftus, W. F. and J. A. Kushlan. 1987. Freshwater fishes of southern Florida. *Bull. Florida State Mus., Biol. Sci.* 31:147-344.

Nordlie, F. G. 1987. Salinity tolerance and osmotic regulation in the diamond killifish, *Adonia xenica*. *Environ. Biol. Fishes* 20:229-232.

Peters, K. M. and R. H. McMichael, Jr. 1987. Early life history of the red drum, *Sciaenops ocellatus* (Pisces: Sciaenidae), in Tampa Bay, Florida. *Estuaries* 10:92-107.

Peters, D. J. and W. G. Nelson. 1987. The seasonality and spatial patterns of juvenile surf zone fishes of the Florida east coast. *Florida Scientist* 50:85-99.

Ramsey, P. R. and J. M. Wakeman. 1987. Population structure of *Sciaenops ocellatus* and *Cynoscion nebulosus* (Pisces: Sciaenidae): biochemical variation, genetic subdivision and dispersal. *Copeia* 1987:682-695.

Schramm, H. L., Jr., P. J. Haydt, and K. M. Portier. 1987. Evaluation of prerelease, postrelease, and total mortality of largemouth bass caught during tournaments in two Florida lakes. *No. Am. J. Fish. Mgmt.* 7:394-402.

Tolley, S. G. 1987. Association of young *Chloroscombrus chrysurus* (Pisces: Carangidae) with the jellyfish, *Aurelia aurita*. *Copeia* 1987:216-219.

Tolley, S. G. and E. B. Peebles. 1987. Occurrence of *Gunterichthys longipenis* (Osteichthyes: Bythitidae) in a southwest Florida estuary. *Northeast Gulf Science* 9:43-45.

Tucker, J. W. and B. E. Faulkner. 1987. Voluntary spawning patterns of captive spotted seatrout. *Northeast Gulf Science* 9:59-63.

Wicker, A. M. and W. E. Johnson. 1987. Relationships among fat content, condition factor, and first-year survival of Florida largemouth bass. *Trans. Am. Fish. Soc.* 116:264-271.

Zale, A. V. 1987. Growth, survival, and foraging abilities of early life history stages of blue tilapia, *Oreochromis aureus*, and largemouth bass, *Micropterus salmoides*. *Environ. Biol. Fishes* 20:113-128.

PUBLICATIONS

Marking and Tagging of Aquatic Animals: An Indexed Bibliography, by Lee Emery and Richard Wydoski. Published as Resource Publication No. 165 by the U.S. Fish and Wildlife Service in 1987, this helpful reference contains 1,436 citations of published articles dealing with marking and tagging of fish and other aquatic animals.

Copies may be obtained from the Publications Unit, U.S. Fish and Wildlife Service, Matomic Building, Room 148, Washington, D.C. 20240, or may be purchased from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161.

Common strategies of anadromous and catadromous fishes, by M. J. Dadswell, R. J. Klauda, C. M. Moffitt, and R. L. Saunders, Editors. 1987. American Fisheries Society Symposium 1 (\$45 - AFS Members: \$40).

Organization, Authority and Programs of State Fish and Wildlife Agencies, by Wildlife Management Institute, is a comprehensive analytical description and review of major features of each of the 50 state fish and wildlife agencies. Compiled with the cooperation of those agencies, the information represents the only detailed reference of its kind available on those programs. This publication is available for \$40 per copy, postpaid, from: Wildlife Management Institute, 1101 Fourteenth Street, N.W., Suite 725, Washington, D.C. 20005.

Striped Bass Fishery Management Plan contains current state and federal stockings, scientific activities, management systems and jurisdictions for the Gulf of Mexico Region. Available from Gulf States Marine Fisheries Commission, P.O. Box 726, Ocean Springs, MS 39564.

How to Identify and Control Water Weeds and Algae by Applied Biochemists, Inc. -- the 1987 revised edition. To order, send \$6.95 to Applied Biochemists, Inc., 5300 W. County Line Rd., Mequon, WI 53092 to call 1-800-558-5106 (toll free) to place your order. Quantity discounts available.

Population Genetics and Fishery Management by Nils Ryman and Fred Utter, Editors. Contains contributions exploring application of population genetics in fisheries management. The book can be obtained at \$35 (cloth), or \$17.50 (paperback), per copy, from the Publicity Department, University of Washington Press, P.O. Box 50096, Seattle, WA 98195-5096, (206) 543-4050 or from Washington Sea Grant Communications, University of Washington, 3716 Brooklyn Avenue, N.E., Seattle, WA 98195, (206) 543-6600.

Genetic Guidelines for Fisheries Management, by Anne R. Kapuscinski and Larry D. Jacobson, explains the issues and techniques important to conserving genetic variety in fisheries. The topics addressed include the importance of managing genetic resources, biological principles of fish genetics, genetic tools and their application to fish populations, and genetic issues in fisheries management.

This 66 page manual is written as a guide for fishery professionals. The cost is \$5 (includes postage) or \$4.50 for order of ten or more. To order contact: Minnesota Sea Grant, 208 Washburn Hall, University of Minnesota, Duluth, MN 55812, (218) 726-8106. Sea Grant programs may order one free copy; order through your communications office.

This form and \$10 will reserve a space for you. Please check the appropriate lines on this form that correspond to the meals and lodging that you would like to reserve.

NAME: _____

Address: _____

Phone: _____

Affiliation: _____

Registration: (\$35) _____

Total lodging package: (6 meals and lodging) (\$45) _____

Partial package: Tuesday (dinner and room) (\$16) _____

Wednesday (3 meals and room) (\$23) _____

(lunch) (\$3) _____

(fish fry) (\$5) _____

Thursday (breakfast and lunch) (\$6) _____

(lunch) (\$3) _____

Reservation fee: (\$10) _____

(will be applied to registration)

TOTAL ENCLOSED: _____

Please make checks payable to: Florida Chapter, AFS

Return to: Ken Haddad (Sec/Treas), DNR
100 8th Avenue, SE
St. Petersburg, FL 33701

Please consider me for the following committee:

_____ Book Committee _____ Nominating Committee

_____ Best Paper Award Committee _____ Newsletter Committee

_____ Membership Booklet Committee

NAME: _____

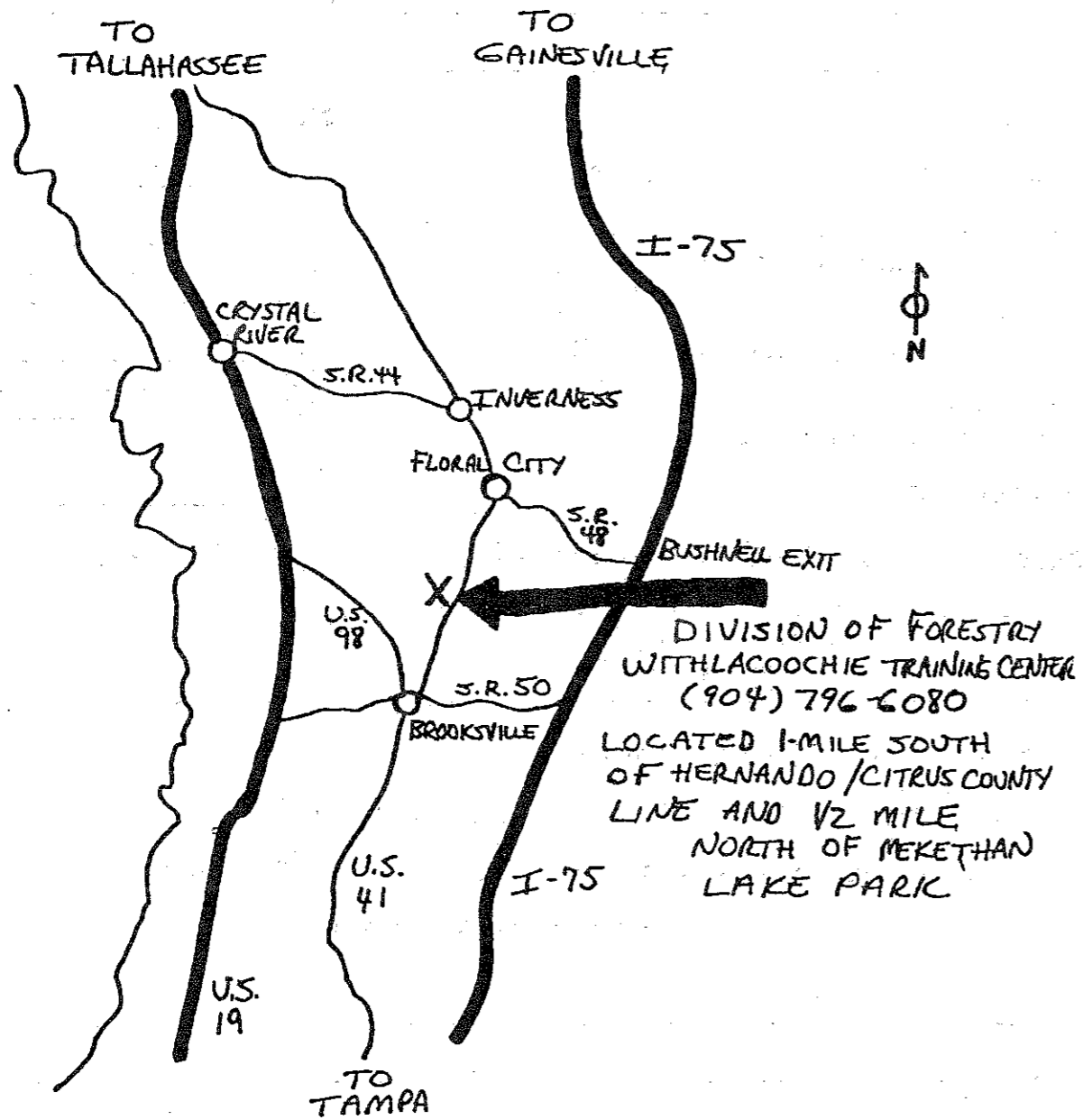
Address: _____

Phone: _____ SunCom _____

Return to: Barbara Hoffman, President
Florida Chapter, AFS
c/o DNR Bureau of Marine Research
St. Petersburg, FL 33701-5095

EXCERPTS FROM THE AFS DIARY

Directions to the 8th Annual Meeting



Newly Revised Professional Certification Brochures and Application Forms have been received at the national AFS office and are available upon request. They will be mailed along with a copy of the North American Fisheries Policy and the AFS Code of Practices. In the future, all applications must be on these new forms. It will greatly speed the response and save the Society resources and energy if, with your request, you will enclose a self addressed #10 envelope with 39 cents in postage to American Fisheries Society, 5410 Grosvenor Lane, Bethesda, MD 20814-2199.

A directory of fish geneticists is being produced by the Fish Genetics Section. For information, write Section Secretary Julie Claussen, Aquatic Biology Section, IL Natural History Survey, 607 E. Peabody Drive, Champaign, IL 61820, (217) 333-6897.

The report of the Continuing Education Committee was unanimously adopted with direction that AFS enter an agreement with the American College Testing National Registry. The Executive Committee also directed that Continuing Education become a Standing Committee of the Society.

The new AFS second vice president is Dr. Larry Nielsen who assumed his post at the Wednesday, September 16, AFS annual business meeting in Winston-Salem. If all proceeds on schedule, Larry will then advance "through the officer chairs" to become president in 1990-91. Dr. Robert White will be AFS president in 1988-89 and Joe Dillard in 1989-90. Stan Moberly was installed as president for the 1987-88 year during the annual business meeting.

Initiation of a "North American Journal of Fish Health" was sanctioned and supported with the understanding that a formal proposal will be developed for presentation to the Executive Committee before final action is taken. An editor has been selected. The Fish Health Section will work closely with the managing editor in producing this new peer-reviewed journal.

Wanted - Chairman of AFS Raffle Committee. So far President Stan Moberly hasn't had much luck in finding a member to head up our annual meeting raffle. It isn't an easy job, but has its rewards and is very important to the Society. Next year, the raffle will be held at the annual meeting in Toronto. If you are interested, call President Stan Moberly at (907) 789-0024, or contact the central office, 5410 Grosvenor Lane, Bethesda, MD 20814, phone (301) 897-8616.

An Alabama state lake tour will be hosted by the AL Game and Fish Division on June 14-16, 1988. For information contact Stan Cook, 64 North Union Street, Montgomery, AL 36130, (205) 261-3471.

An AFS lapel pin for all employees was District of Columbia Fish Chief Jack Buckley's answer to office holiday gifts. The handsome pins are available from the central office at \$4 each.