



NEWSLETTER

Fisheries Management Section American Fisheries Society

Don Duff, President

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July, 1988

President's Corner

The Section participated in the annual spring mid-term AFS EXCOM meeting March 10-13, 1988 in Seattle, Washington. It was certainly one of the better EXCOM meetings the Society has convened. This meeting brings together the Society's leadership for program planning and decisionmaking; President Stan Moberly has certainly done an excellent job in designing the concept and strategy of these meetings to be the premier leadership event of the year for AFS. Many Chapter Presidents or their representatives were present for the first time, many being Section members.

Because the Society is so dynamic and expanding its role in all avenues of the fisheries profession there is a place for the members to become involved. Your voice will be heard and your concern or suggestion acted upon by the body for the betterment of the fisheries resources, be it local, regional, national or world-wide. So, I urge any Section member who wishes to become involved to begin to volunteer for a Section committee or group. In this way you can put your expertise to work for the resource as well as the Society.

A significant step in the right direction for AFS planning was the development of an AFS Long Range Action Plan to govern AFS fisheries activities in the future. The Section will play a key role in the implementation of this

plan. Major areas of the Plan in which the Section will be able to assist AFS are in the areas of 1). public awareness/education; 2). professional influence in the state/province policy and legislative decision-making arena; 3). guidance in the valuation of fisheries resources; 4). identification of fisheries academic standards for educational programs; and 5). to develop a recognition program to "spotlight" fisheries management and science accomplishments. The Section will begin to implement this Plan following its approval at the 1988 Toronto annual meeting. I urge any interested member to contact any Section officer to become involved in this implementation. We need all members' involvement at all Society levels to further these AFS goals. If you're interested in reading this plan, you may obtain a copy by contacting any member of the Section EXCOM or specifically the Secretary-Treasurer, Don Bonneau.

The Section has been cooperating with the Computer User Section (CUS) and the Western Division AFS in getting on-line an electronic bulletin board for member interaction. Steve Austin is the Section liaison to the CUS and can assist members in the use of this service. Instruction for use of the service will be forthcoming. We hope you will take advantage of this service for both Section business as well as scientific technology transfer of fisheries information.

The Section membership approved an awards program at the 1987 annual meeting. Awards Committee chair Lou Carufel (Alaska) and his committee have reviewed the program and we hope to have EXCOM approval soon. This will provide a mechanism for the Section to recognize deserving members/agencies, etc. within the fisheries management field. We urge your support in this effort in the future.

Those members who have already expressed an interest in becoming involved in some aspect of Section operation are being contacted slowly. But we plan to involve you and any other interested member in the future. President-Elect Jim Addis will be needing assistance in many new initiatives within the Section in the next two years. This issue of the newsletter is also the election issue; please vote for the candidate of your choice. The nominees have all expressed a desire to serve the Section and AFS, so give them your voice of confidence by casting your vote. It is a very painless process for you to cast a vote, but YOUR vote is important in directing the efforts and direction of the Section the next 2-4 years.

The annual AFS meeting is coming up in September in Toronto and I would urge all Section members to attend if at all possible. You will find it both stimulating and rewarding in sharing of professional friendships and the technical fisheries interchange. So, have a good and enjoyable summer (and good Fishin') and we'll see you in Toronto!

Don Duff

Section Business

New Opportunity in the South

Later in this newsletter you will find Tim Cross's last contribution as Southern Regional Editor. Since 1985, Tim has done an excellent job in combining ongoing activities in the southern U.S. to bring you news of

what's happening. Tim accepted a position in Minnesota and moved north (new address: Minnesota Department of Natural Resources; P.O. Box 296; Hutchinson MN 55350; 612/587-2712), so there is a real opportunity for someone to fill Tim's shoes, as well as provide a real service to fellow fishery management professionals in the southern U.S. If anyone is interested in serving as Southern Regional Editor, I urge you to contact the Newsletter Editor.

This is the second time that a regional editor had to resign his post because he moved north. Is the lure of northern walleye that strong?

PRO Club

A new membership enhancement promotion was recently announced by the parent society. The PRO Club (Professionals Recruiting Others) works as follows: once you have recruited a new individual, associate or library member for AFS, you are a member of the current year's PRO Club. When you recruit 10 members, you become a life member of the PRO Club and will receive a gold AFS PRO Club pin. There are advantages. In September, 1988, a drawing for a fishing trip to Alaska will be held at the annual meeting, and you could win that trip. For each new member you recruit, your name will be entered in the drawing; for each library member you recruit, your name will be entered five times into the drawing; for every \$100 affiliate you recruit, you will be entered twice; and for every \$1,000 affiliate, Official or Associate member you recruit, you're entered 10 times. Even if you don't win, all PRO Club members and their recruits will be invited to attend a hosted reception in Toronto. Every member was sent the PRO Club packet; contact the parent society for more.

Studies have shown that the best way for an organization to grow is for its current members to tell potential members about the benefits of

participation. But AFS's role in improving our profession and the fisheries resource is weakened when only half of the professionals belong to the only professional society set up for these purposes. By helping recruit new members, you will be helping your professional society become stronger; and you become eligible for a great prize. Be a PRO!

JOBSource

The latest AFS benefit has been in place for quite a few months--JOBSource. As you all know, this is a computerized job listing service. The key to this program is use. The more it is used, the better it will work. To date, feedback has been positive, and several members have upgraded their employment or have found entry-level positions.

You can help by urging your agency or employer to list all their fish and wildlife jobs with JOBSource (there's no cost, at least for the present) and using or urging colleagues to use the service (use the toll-free number 1-800-727-JOBS). Even if you are satisfied with your present position, you can at least spread the word to employers and potential employees. Help keep JOBSource useful with your support!

FMS Midterm Report

Due to space limitations, I was not able to run Don Duff's midterm report in the last newsletter. With apologies to everyone, I print it in its entirety:

The Section continues its coordination of national symposia and workshops. Cosponsorships planned in 1988 are for the International Fish Marking Symposium in June in Seattle, the 6th National Trout Stream Improvement Workshop in August in Minnesota, and the Mysid/Fisheries Symposium at the Toronto meeting. The Section is also assisting the AFS and the Fisheries Administrators Section in planning for a national creel census symposium in 1989. It is also preparing a list of

possible topics for future AFS symposia.

The Section has supplied the International Fisheries Section with a list of possible liaison members for their world coordination of AFS activities. We are coordinating with the Inland Fisheries Committee of the International Association of Fish and Wildlife Agencies and the AFS in the review of the National Recreational Fisheries Policy. The Section is also cooperating with the Sport Fishing Institute in planning for a national aquatic education symposium in the future. President-Elect Jim Addis is heading up this effort.

The Fisheries Management Text Committee continues its progress on the text, North American Fisheries Management. The committee has received detailed outlines from all authors. The outlines have been sent to peer reviewers. The first draft of chapters is expected by the end of February 1988, with a complete manuscript for Bob Kendall's review by early summer.

The Competitive Fishing Committee continues its work on a competitive fishing bibliography and hopes to have it complete by June 1. The committee reviewed and provided editorial comment to a pamphlet printed by Texas Tech University on "Live Release of Bass: Guidelines for Anglers and Tournament Organizers". The pamphlet was written by members Hal Schramm and Roy Heidinger with funding from the Bass Research Foundation. The committee has endorsed the contents of the pamphlet in lieu of writing a similar pamphlet for the Section. The pamphlet will soon be available for \$1.00.

The Nominating Committee is hard at work coming up with a slate of candidates for the 1988 Section elections. President-elect Jim Addis will be installed along with the newly elected candidates at the AFS annual meeting in Toronto. The Awards Committee has come up with a draft of an awards program for the Section to

recognize members, agencies and groups for fisheries management and research efforts. The Section President has also been involved in international contacts with England, Scotland and Ireland in attempts to further AFS involvement and participation with fisheries scientists from these countries.

The Section along with the Computer User Section (CUS) and the Western Division is pursuing the setup of an electronic bulletin board for these units' use as well as other AFS unit use. Doug Austin, Section liaison to the CUS, is coordinating this operating procedure for the members' use of this bulletin board.

The Section is cooperating with the North American Lake Management Society (NALMS) in a revision of their publication on Lake and Reservoir Management, as well as becoming involved with the NALMS in regional/national workshops in lake/reservoir management in 1988. President-Elect Jim Addis is coordinating this effort with member expertise from the lake states area.

The Section is looking forward to the Toronto meeting and a large participation of Canadian FMS members in the Technical sessions and displays. Planning is in the mill for the 7th Trout Stream Habitat Improvement Workshop possibly to be held in Canada in the province of New Brunswick.

The annual Section business meeting will be held in Toronto on September 13, 1988 from 4:00 p.m. to 5:30 p.m.

News From The Regions

Canada

Nick Baccante

Ontario Ministry of Natural Resources

Walleye Research Unit

P.O. Box 5000

Thunder Bay, Ontario P7C 5G6

807/475-1636

Canada's Freshwater Fisheries

Dr. Peter Pearse is a resource

economist at the University of British Columbia. He has spent the past couple of years studying Canada's freshwater fisheries for the Canadian Wildlife Federation. Dr. Pearse has done a very good job of documenting the problems facing Canada's fisheries. He also provides some good suggestions to solve these problems.

He cites angler attitude towards fishing as a source of the problem. Anglers are usually very quick to emphasize environmental pollution and degradation as a cause for loss of fishing quality. Conversely, not many anglers like to talk about the negative aspects of fishing on fish stocks. This, he feels, is a result of a prevailing "pioneer mentality" in Canada, which is conducive to viewing our resources as being "limitless". Dr. Pearse underscores the importance of fishing by its economic impact. Direct spending on angling is over 4 billion dollars per year. Indirect benefits, through jobs and services, is much greater.

Dr. Pearse reminds us that Canada's size and geography poses some unique problems. Most of the population in Canada lives in concentrated pockets in southern parts of the country. The land and water here are relatively more productive than in the north. Yet, a lot of the fishing takes place in the north, where fish grow slowly, and there is very little surplus to be harvested.

He blames government agencies for creating too many artificial "good fishing" opportunities through expensive stocking programs. Although there are a few situations where stocking programs are beneficial, such as in densely-populated areas, generally, stocking is an expensive and inefficient solution. Stocking diverts people's attention from the realization that fish stocks are depleting.

Dr. Pearse also points out that, according to anglers, good fishing is only a small part of the angling

experience. What's really important to most anglers is the quality of the environment in which fishing takes place. Anglers value seclusion and clean water most of all. The opportunity to catch large fish is equally or more important than to catch and keep them.

He suggests that in Canada we should adopt what is termed "demand management". In other words, don't put emphasis on managing the supply (producing fish), rather, influence the people who ask for (demand) angling. He uses the British system of production angling as a role model for us to modify and adopt. In Britain, the owners of rivers and streams manage the fisheries and control access to it. The angler who wants to fish, pays for it.

In Canada, there is a salmon river on the Atlantic coast which is being managed along the lines of the British system. The upper part of the river was owned by a private fishing club. Indians were netting salmon at the mouth of the river. Inevitably, the fish stocks were collapsing, and user-groups were in continuous conflicts. Eventually, the provincial government set up a local corporation to manage the river. Management plans were drawn up, and emphasis was put on sport fishing. Netting was reduced and fish that were worth about \$2 per kilogram in the gillnets were now worth about \$80 per kilogram in the sports fishery. Indians turned from gillnetting to guiding on the river and employment in fishing clubs. There are about 15 river "guardians" on patrol, and it has become one of the best-producing, best-protected fisheries in Canada.

Dr. Pearse wants to promote management of the fisheries by organized groups at a localized scale. In other words, he doesn't promote centralization of fisheries management, especially in a large country like Canada. Finally, he emphasizes a need for diversification of fishing opportunities. As well, maintain a high quality environment in which to fish.

FREE!

Now that I have got your attention, you may be interested to know that I have quite a few copies of "Walleye and Tourism: Future Management Strategies" to give away. These are proceedings of a workshop organized by the Northwestern Ontario Chapter of the AFS, back in 1985. We were selling copies at the outrageously low price of \$ 5.00, to raise money for the Chapter. Since I still have quite a few left, I will provide copies to anybody who is interested.

The conference topics included: Habitat Protection and Rehabilitation, Traditional and Experimental Approaches to Harvest Regulations, Walleye Culture and Stocking, and a Summary Section which involved group discussion. If you would like a copy of the proceedings write to: Dominic Baccante, Ontario Ministry of Natural Resources, Walleye Research Unit, P.O. Box 5000 Thunder Bay, Ontario P7C 5G6.

Walleye Modeling Workshop

On March 9 and 10, 1988, a workshop was held in Toronto, Ontario, to model the effects of regulations on walleye populations. Cheryl Lewis, Warmwater Fisheries Biologist with the Ontario Ministry of Natural Resources, organized the workshop. The facilitators were Mike Jones, a Systems Ecologist with Environmental and Social Systems Analysis Ltd. (ESSA) in Toronto, and Joe Koonce, a professor at Case-Western Reserve University, Cleveland, Ohio. Mike and Joe have been working together to develop the model.

The workshop had two primary goals:

- (1) To review the objectives and expected benefits of various harvest regulations (minimum, maximum, and slot-limits).
- (2) To use a simple fish population model to illustrate the effects of a range of harvest control

options.

Recently, there have been a lot of new fisheries initiatives within the experimental management framework of the Ministry of Natural Resources. Many of these initiatives include recommendations for establishing slot-limits for walleye in order to maintain quality fishing with increasing angling pressure. We held the workshop to assist managers and researchers formulate hypotheses on responses of walleye populations to various degrees of fishing pressure and regulations.

Biologists and managers from throughout Ontario, as well as David Berry, a biologist from Forestry, Lands and Wildlife, Edmonton, Alberta, attended. David informed us that people in his department are also working on a walleye population model.

We divided the two-day workshop into sessions. During the first session we discussed the use of fish population models in fisheries management. The questions asked were: What are models? What are models useful for? Why use models for fisheries? What are some of the limitations of models? During this session, Mike and Joe introduced the walleye model. The model is simple, and deals with only one species over a period of 20 years. It calculates changes in age and size compositions, growth, length-weight, reproduction, and mortality. Fishing effort and size limit regulations can be altered.

During the second session we discussed management objectives. We also evaluated slot limits and other regulation-change proposals from various lakes. The group discussed in detail the problems that prompted the proposals, and the desired objectives. Proposals included size limit regulations, creel limits, combined size and creel limits, gear restrictions, elimination of night fishing, sanctuaries, and habitat improvement to increase natural reproduction.

The next day, we spent the first session gaming with the model using different scenarios. In the second session we evaluated the results of the gaming exercise. We also discussed deficiencies of the model, biological and socio-economic information.

From the amount and type of discussions during the two days, it was clearly a successful workshop. We agreed that this type of exercise should be continued, for walleye and other important species. By doing so, fisheries biologists and managers can implement programs with more confidence and control. If anyone has, or will be, involved with modeling of walleye populations, you may want to be in touch with Cheryl Lewis, Warmwater Fisheries Biologist, c/o Glenora Fisheries Station, R.R. #4, Picton, Ontario, KOK 2T0, (613) 476-3255.

South

Tim Cross, Southern Regional Editor
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Creel Information

Some of the most relevant information used to evaluate fisheries management actions is collected from creel surveys. Recently the Southern Division AFS Reservoir Committee has compiled an extensive database of reservoir creel surveys performed since 1970. The types of data in this survey of surveys includes creel objectives, type of lake, specific types of data collected, statistical design, and a listing of additional data collected and concurrent management activities.

One of the primary utilities of this database will be to give fish managers a tool to determine what other agency or contacts have data that might give him insight into his own management problems. Plans are being made to have the database made available soon on the SESAME computer bulletin board (919/737-3990).

Currently the database is in dBase III and Lotus 1-2-3 format. For more information you can contact Scott Van Horn (North Carolina Wildlife Resources Comm., 1517 E. Green Street, Durham, NC 27704, 919/685-4797).

New Fisheries Management Software

A new package of microcomputer software for fisheries managers is near completion at Mississippi State University under the direction of Steve Miranda (MS Cooperative Fish and Wildlife Unit, P.O. Box BX, Mississippi State, MS 39762). The software goes by the name Fishery Resource Analysis System (FRAS) and was designed for fisheries management biologists with the Mississippi Department of Wildlife Conservation, but is general in nature and applicable to a variety of data collection types. The easy to use package contains both data entry and analysis components and is written for IBM-PC/XT type machines.

Oklahoma

The Oklahoma fisheries management staff has been very active with new projects. One program that is keeping them busy is the introduction of saugeye, which was reported earlier in the FMS Newsletter (6:1). This year the stocking program has been expanded to 16 lakes.

The aquatic education program is also at full speed with the recent addition of an aquatic resources program coordinator. As a result, groups are being organized to put on various types of fishing clinics. Clinics to show youngsters and even older aged and handicapped individuals the techniques of fishing. The Oklahoma staff is also intending to make available instructions for bass fishermen to learn walleye fishing techniques.

Finally, the trout program in Oklahoma has expanded from 2 areas to 5 areas with fish stockings at a small lake 90 miles outside of Oklahoma City and 2 reservoir tailwaters. One of the

tailwater areas and the lake area are stocked during the winter months of November through March. These put and take fisheries are taking off. ODWC studies have revealed that roughly 90% of the trout stocked at the lake site were harvested by anglers. At the second tailwater site, trout are able to survive year-round resulting in a put-grow and take fishery. More information on Oklahoma's fisheries management can be obtained from Jan Dean, Assistant Chief of Fisheries, Oklahoma Department of Wildlife Conservation, P.O. Box 54365, Oklahoma City, OK 53152.

Mississippi

In an attempt at solving the problem of stunted crappie in small lake systems a sterile triploid crappie has been developed by the Mississippi Department of Conservation working in cooperation with Craig Busack of the University of Mississippi. The next step with this project is to document the impact of the crappies in field studies. For more information contact Keith Meals of the Mississippi Department of Wildlife Conservation (Box 22, Department of Biology, University, MS 38677, 601/234-1437.

A 13 to 16 inch slot limit on black bass has been implemented on Ross Barnett Reservoir. This regulation is unique in that it extends for only 4 months each year from March through June. Studies have shown that a majority of the fishing effort occurs during this period and it also corresponds with the bass spawning season in Mississippi. It was felt that during the warm months of July and August anglers would be forced to release an inordinate number of overly stressed or dead fish due to the effects of high water temperatures if the regulation were enforced. A savings in time and money from a law enforcement perspective is also realized with this type of part-time regulation. Ron Garavelli (Mississippi Department of Wildlife Conservation, P.O. Box 451, Jackson, MS 39205,

601/961-5342).

Texas

The Texas Agricultural Experiment Station is currently involved in a project to assess growth efficiencies for walleye, striped bass, and hybrid striped bass (original and reciprocal crosses) under the direction of Brian Murphy (Texas A&M University, College Station, TX 77843-2258, 409/845-5777). As part of this project, they will attempt to develop standard weight formulas and to determine the relationship between growth efficiency and relative weight (Wr) by experimental feeding. Standard weight formulas for two other species, freshwater drum and white bass, will be developed concurrent with this effort.

The relative weight (Wr) index provides an invaluable tool for ecological and physiological comparisons between and within populations. One of the project objectives is to provide these formulas to the management community in an effort to enhance management activities. Standard weight development will be based on an extensive summary of length-weight data derived from populations encompassing the species entire geographic range. Contributions of data would be greatly appreciated.

North Carolina

The North Carolina Wildlife Resource Commission fisheries management staff is working hard these days to develop species management plans for trout, largemouth bass, and striped bass according to Fred Harris (Wildlife Resource Commission, Archdale Building, 512 N. Salisbury St., Raleigh, NC 27611, 919/733-3633). Work groups are developing goals and objectives and formulating policies and philosophies on management approaches for each species. The management plan for each species will be based on various criteria of water quality, socio-economic considerations, exploitation rates, etc.

One expected benefit from this approach to fisheries management is more consistency in management decisions and improved public perceptions of fisheries management actions.

Items of Interest

Managing Contaminated Urban Fisheries

The Water Quality Section of the American Fisheries Society is sponsoring a special symposium at the 1988 Midwest Fish and Wildlife Conference to be held December 4-7 in Columbus, Ohio. The title of the symposium is "Management of Contaminated Urban Fisheries". Invited and contributed papers will cover several aspects of this issue, including managing the environment, managing the fish community, managing the fishing public, socio-economic considerations, needs not addressed within the traditional fisheries management framework and the future of urban fisheries. For more information, contact co-chairs Bob DiStefano of the Missouri Department of Conservation (314/449-3761) or Paul Baumann of the U.S. Fish and Wildlife Service (614/469-5701).

GAWS

Recently I was able to get ahold of an old copy of the Western Division AFS's newsletter The Tributary, which had an article that may be of interest to many. The article announced the existence of GAWS (pronounced "Jaws")--the General Aquatic Wildlife System. GAWS is a fish habitat relationship program which contains a series of models which can be used separately or in combination. It provides a user-friendly storage and retrieval system for both fisheries habitat inventory data as well as an efficient analysis process to display resulting data outputs. Some models provide economic analysis for projects, angler days and fish losses. The models in GAWS are specific to resident or anadromous

salmonid species.

Additional information on the GAWS programs can be obtained from any U.S. Forest Service Region 4 Fisheries Biologist, the Regional Fisheries Program Manager, Don Duff (801/625-5662), or Ralene Maw (801/625-5667).

Mysid-Fisheries Symposium

The Mysid-Fisheries symposium will be a one-day special session within the AFS annual meeting. Introductions of the freshwater shrimp Mysis relicta to enhance fish forage and fisheries have been widespread. Accumulated evidence indicates the impacts of mysid introductions are a mixed bag with emerging problems as well as some benefits for fisheries management. The theme of the symposium will emphasize the ecological role of mysids, their impacts on lake ecosystems, and their implications for fishery management. Included in the symposium will be case history experiences, investigations on how mysids and fish interact, how mysid ecology poses special problems to managing fisheries, alternatives open to managers who must deal with lakes with established mysid populations, and life histories of mysids and their role as exotics or natives in their respective ecosystems. For more information, contact Eric Bergersen, Colorado Cooperative Fisheries Research Unit, Colorado State University, Fort Collins, CO 80523, 303/491-6942, or Tom Nesler, Colorado Division of Wildlife, 317 West Prospect, Fort Collins, CO 80526, 303/484-2836.

Upcoming Events

August 1-3, 1988. Sixth Trout Stream Habitat Improvement Workshop. St. Mary's College, Winona, Minnesota. For more information, contact Mark Ebbers, Minnesota DNR, Box 12, 500 Lafayette Road, St. Paul, MN 55155; 612/297-2804.

August 1-5, 1988. International Billfish Symposium. King Kamehameha Hotel, Kailua-Kona, Hawaii. For more information, contact Ken Hinman,

National Coalition for Marine Conservation, P.O. Box 23298, Savannah, GA 31403; 912/234-8062.

August 28-31, 1988. Symposium on Water-Use Data for Water Resources Management. Sheraton El Conquistadore, Tucson, Arizona. For more information, contact Richard A. Herbert, U.S. Geological Survey, WRD, Box 25046, Federal Center, MS 406, Denver, Colorado 80225; 303/236-5928.

September 5-11, 1988. China Fishery 88. Shanghai Exhibition Centre, Shanghai, China. For more information, contact China Fishery 88, SHK International Services Ltd., 22/F, 151 Gloucester Rd., Hong Kong.

September 9-15, 1988. The 118th Annual Meeting of the American Fisheries Society. Royal York Hotel, Toronto, Canada. For more information, contact Carl R. Sullivan, Executive Director, American Fisheries Society, 5410 Grosvenor Lane, Bethesda, MD 20814; 301/897-8616.

September 13-16, 1988. National River Preservation Conference. Harley Hotel, Columbus, Ohio. For more information, contact John S. Kopec, Ohio Department of Natural Resources, Division of Natural Areas and Preserves, 1889 Fountain Square, Columbus, OH 43224.

September 22-24, 1988. Urban Waterfront '88. Omni Shoreham Hotel, 2500 Clavert St., N.W., Washington D.C. 20008. For more information, contact Waterfront Center, 1536 44th Street, N.W., Washington D.D. 20007; 202/337-0356.

September 26-29, 1988. 47th Annual Meeting of the Atlantic States Marine Fisheries Commission. Radisson Flagship Hotel, Atlantic City, New Jersey. For more information, contact Laura Leach, ASMFC, 1400 16th Street, N.W., Suite 310, Washington D.C. 20036; 202/387-5330.

October 3-4, 1988. Northeast Pacific Chinook and Coho Salmon Workshop.

Nendel's Inn, Bellingham, Washington. For more information, contact Bruce Shepherd, Department of Fisheries and Oceans, 555 West Hastings St., Vancouver, BC V6B 5G3, Canada; 604/666-0115.

October 3-4, 1988. Symposium on the Early Life History of Fish. Bergen, Norway. For more information, contact General Secretary, ICES/CIEM, Palaegade 2-4, 1261 Copenhagen K, Denmark.

October 24-28, 1988. Fisheries Bioengineering Symposium. Columbia River Red Lion Inn, Portland, Oregon. For more information, contact David Owsley, U.S. Fish and Wildlife Service, Dworshak National Fish Hatchery, P.O. Box 18, Ahsanhka, ID 83520; 208/476-4591.

November 6-9, 1988. Annual Meeting of the Southern Division of AFS. Hyatt Regency Hotel, Hilton Head, South Carolina. For more information, contact Phil Kirk, South Carolina Wildlife Department, P.O. Box 167, Columbia, SC 29202; 803/734-3935.

November 6-11, 1988. 24th Annual Conference of the American Water Resources Association. Hyatt Regency Hotel, Milwaukee, Wisconsin. For more information, contact N. Earl Spangenberg, College of Natural Resources, University of Wisconsin-Stevens Point, Stevens Point, WI 54481; 715/346-2372.

November 15-18, 1988. 8th Annual International Symposium on Lake and Reservoir Management. Clarion Hotel, St. Louis, Missouri. For more information, contact North American Lake Management Society, P.O. Box 217, Merrifield, VA 21116; 202/833-3382.

November 16-19, 1988. 20th Annual Symposium of the Desert Fishes Council. Furnace Creek, Death Valley National Monument, California. For more information, contact Phil Pister, California Department of Fish and Game, 407 W. Line St., Bishop, CA 93514; 619/872-1171.

December 3-6, 1988. 50th Midwest Fish and Wildlife Conference. University Hilton, Columbus, Ohio. For more information, contact Tony J. Peterle, Ohio State University, Room 104, Botany and Zoology Building, 1735 Neil Avenue, Columbus, Ohio 43210; 614/292-5520.

January 4-5, 1989. Canadian Conference for Fisheries Research. Quebec City Aquarium, Quebec City, Quebec. For more information, contact Louis Fortier, GIROQ, Department of Biology, Laval University, St. Foy, PQ G1K 7P4, Canada.

March 17-22, 1989. 54th North American Wildlife and Natural Resources Conference. The Omni Shoreham Hotel, Washington D.C. For more information, contact L.R. Jahn, Wildlife Management Institute, Suite 725, 1101 Fourteenth St., N.W., Washington, D.C. 20005; 202/371-1808.

April 18-21, 1989. Second Asian Fisheries Forum. Nihon University, Tokyo, Japan. For more information, contact The Secretariat, Second Asian Fisheries Forum, Department of Fisheries, Faculty of Agriculture, The University of Tokyo, Yayoi 1-1-1, Bunkyo-ke, Tokyo 113, Japan.

May 7-10, 1989. 45th Northeast Fish and Wildlife Conference. Nevele Country Club, Ellenville, New York. For more information, contact Gerald A. Barnhart, New York Department of Environmental Conservation, Bureau of Fisheries, 50 Wolf Road, Albany, N.Y. 12233; 518/457-5691.

May 9-12, 1989. National Symposium on Practical Approaches to Riparian Resource Management. Holiday Inn, Billings, Montana. For more information, contact Glenn Phillips, Montana Department of Fish, Wildlife and Parks, Capitol Station, Helena, MT 59620, or call Marilyn Goetzinger at 406/444-2406.

July 11-14, 1989. Coastal Zone 89. Omni Hotel, Charleston, South Carolina.

For more information, contact Delores Clark, NOAA Office of Constituent Affairs, 11400 Rockville Pike, Room 638, Rockville, MD 20852; 301/443-8031.

September 24-30, 1989. International Conference and Workshop on Global Natural Resource Monitoring and Assessments: Preparing for the 21st Century. Isle of San Giorgio Maggiore, Venice, Italy. For more information, contact Mr. H. Gyde Lund, USDA Forest Service, P.O. Box 96090, Washington, D.C. 20090-6090; 202/475-3747.

1988 FMS ELECTION

For President-Elect

Tom Gengerke

Tom Gengerke is a regional fisheries supervisor for the Iowa Department of Natural Resources. He has served in that capacity since 1978. Tom received a B.S. degree in fisheries and wildlife sciences from South Dakota State University, Brookings, South Dakota in 1970 and an M.S. degree in fisheries from South Dakota State University in 1972. Tom worked for the Kansas Forestry, Fish and Game Commission as a reservoir biologist from 1973 - 75. He pursued additional graduate work at Cornell University from 1976 - 1977 and joined the Iowa Conservation Commission (presently Iowa Department of Natural Resources) as a research biologist in charge of Mississippi River investigations in 1978. While working on the Mississippi River, Tom was active in the Upper Mississippi River Conservation Committee (fish and water quality technical committees) and the Great River Environmental Action Team. Tom has served the AFS by holding chapter offices (president and secretary-treasurer in two states), division committee chairmanships (membership), national committees (carp, raffle and membership), and the fish management section (nominating committee). Tom

has also actively supported the AFS by serving on the steering committee for the Mississippi River Symposium, participating in the paddlefish symposium and by reviewing manuscripts for the NAJFM. Tom is a member of the American Institute of Fishery Research Biologists, Iowa Chapter of the AFS, and a Life Member of AFS (member since 1969). He is a Certified Fisheries Scientist.

Frederic M. Serchuk

Frederic M. Serchuk is Chief, New England Offshore Fishery Resources Investigation, Population Dynamics Branch, at the Northeast Fisheries Center, Woods Hole, Massachusetts and also Adjunct Professor of Marine Fisheries, University of Massachusetts, Amherst. He received a B.S. in Fisheries from Cornell University (1968), an M.S. in Marine Science from the University of Massachusetts (1972), and a Ph.D. in Fisheries and Wildlife from Michigan State University (1976).

Fred began his career with the New York State Conservation Department Bureau of Fish and subsequently held research positions with the New York and Massachusetts Cooperative Fishery Units. He is a U.S. Army veteran (1969 - 71) and began his affiliation with the National Marine Fisheries Service in 1976 as a Fishery Research Biologist at the Woods Hole Laboratory. Prior to assuming his current position, Fred served as Chief of the Fishery Analysis Investigation, Chief of the Shellfish Assessment Investigation, and as Senior Assessment Scientist, Resource Assessment Division, Woods Hole. His research has focused on population dynamics and management of marine finfish and shellfish resources. He has been a representative/scientific advisor to various national and international fishery organizations (New England and Mid-Atlantic Fishery Management Councils; International Commission for the Northwest Atlantic Fisheries; Northwest Atlantic Fisheries Organization; International Council for the Exploration of the Sea (ICES) and

currently serves as the USA Scientific Delegate on the ICES Advisory Committee on Fishery Management. Fred has also actively participated with various governmental, academic and industry groups concerned with fisheries management and conservation.

He has been a member of the American Fisheries Society since 1967, a member of the American Institute of Fishery Research Biologists since 1980, and was active in the formation of the AFS Marine Fisheries Section and the AFS Mid-Atlantic Chapter. Fred served as President of the AFS Northeastern Division (1985-86) and currently serves as an Associate Editor of the North American Journal of Fisheries Management. He has chaired and served on various Northeastern Division and AFS Parent Society Committees including: AFS Membership Committee (1980-81, 1982-83, 1984-85); AFS Mail Ballot Committee (Chairman, 1981-82); AFS Awards Committee (Chairman, 1982-83); AFS Publication Overview Committee (1983-85); AFS Resolutions Committee (1984-85); AFS Search Committees for Editors of the Progressive Fish-Culturist (1984) and the North American Journal of Fisheries Management (1986); AFS Executive Committee (1981-82, 1984-86); AFS Professional Certification Board of Appeals (1985-86); AFS Budget Review Committee (1986); Northeastern Division Professional Award of Merit Committee (1986); Northeastern Division Membership Committee (Chairman, 1982-83, 1984-85); and the Northeastern Division Newsletter Committee (Chairman, 1983-84). Fred also served as Associate Editor of the Journal of Shellfish Research (National Shellfisheries Association) during 1981-85.

For Secretary-Treasurer

Donald L. Bonneau

Donald L. Bonneau is the statewide Fisheries Research Supervisor for the Iowa Department of Natural Resources. He has served in that capacity since 1980. Don received a B.S. degree in

zoology from Fort Hays State University, Kansas, in 1968 and an M.S. degree in Fisheries from Kansas State University in 1970. Don joined the Iowa DNR in 1970, and worked as the Southwest District Fisheries Management Supervisor until 1973. In 1973 he was promoted to statewide Fisheries Management Supervisor located at Des Moines. Don has served as secretary-treasurer for the management section over the past nine months, replacing Steve Serns following his death. Don is a member of the Iowa Chapter AFS and has been a member of AFS since 1971.

Jan C. Dean

Jan C. Dean received the B.S. in Wildlife Conservation and Management from Louisiana Tech University, the M.S. in Fisheries Management from Mississippi State University, and the Ph.D. in Fisheries Science from Virginia Tech (VPI) University. Since 1982, Jan has been the Assistant Chief of Fisheries/Management for the Oklahoma Department of Wildlife Conservation. Previous fisheries employment has included Research Associate and Graduate Research Assistant positions at Virginia Tech, a Research Associate/Fisheries Biologist position with the University of Arkansas at Pine Bluff, and a Graduate Research Assistant position at Mississippi State.

Jan is a current member of the American Fisheries Society Fisheries Management and Fisheries Administrators sections. He currently serves on the Fishery Techniques Standardization Committee, the Southern Division Small Impoundments and Warmwater Streams committees and as President-Elect of the Oklahoma Chapter. Past assignments have included the Southern Division Resolutions Committee, the FAS Nominations Committee and Chairman of the Oklahoma Chapter Activities Committee. Jan is a member of Phi Sigma Society and is a Certified Fisheries Scientist.

Jan lists three goals as a fisheries scientist: 1). to help improve and standardize the sampling of fish populations and the interpretation of survey data; 2). to improve interaction and communication among fisheries researchers, managers, administrators, lawmakers, law enforcement personnel and the angling public we serve regarding survey results, regulations, habitat improvement and stocking strategies; 3). to improve the quality of our fisheries personnel through hiring of qualified individuals and by encouraging independent thought, greater self-esteem and pride in our work.

For Northeast Division Representative

Joseph D. Bergin, Jr.

Joe graduated from the University of Massachusetts in 1968 with a B.S. in Wildlife Biology. He has taken graduate and in-service courses.

His fisheries employment began in 1968 as an assistant aquatic biologist for Massachusetts Division of Fisheries and Wildlife at Westboro. Over the years he has focused on salmonid management, ranging from stream survey through habitat manipulation and acid mitigation of lakes to developing a strain of sea run brown trout. He is presently an aquatic biologist.

Joe has been a member of AFS since 1969, giving papers at various professional meetings. He has served on the Riparian Stream Habitat Committee, refereed the Journal of Fisheries Management and helped organize coldwater workshops and Division meetings. He received awards from Trout Unlimited in 1976 and 1979.

Albert Schiavone

Albert Schiavone has been employed by the New York State Department of Environmental Conservation as a fishery biologist since 1970. In his current position as Regional Fisheries Manager

in the Watertown office, he is responsible for fish management activities in a five-county area in the northwestern portion of the state. Al's primary interest has been the dynamic of warmwater fish communities, and he has published papers concerning walleye population dynamics and interactions in the Indian River Lakes system and management of the St. Lawrence River muskellunge population.

A 1970 graduate of the University of Maine at Orono, Al received a M.S. degree in fisheries science in 1983 from the NYS College of Environmental Science and Forestry, where he is currently enrolled in a Ph.D. program. A member of AFS since 1968, Al has been active in the New York Chapter as well as serving on several committees at the national level.

For Southern Division Representative

Larry Cofer

Larry Cofer is currently the Southwest Region Fisheries Biologist with the Oklahoma Department of Wildlife Conservation. He received his B.S. from Oklahoma State University in 1980 and an M.S. from Auburn University in 1982. Larry worked as a fisheries biologist with the Florida Game and Freshwater Fish Commission on the Kissimmee River chain of lakes in central Florida prior to his current position. He has been responsible for angling improvements in a 15-county region in Oklahoma for five years--surveying, making recommendations, improving fish habitat and constructing fishing access facilities.

Larry is a Certified Fisheries Scientist and has been a member of AFS and the Fisheries Management Section since 1982. He has been involved in activities of the Auburn University Chapter and the Florida Chapter, and served as Program Chairman and President of the Oklahoma Chapter of AFS. Larry's goals as a fisheries manager are to protect and enhance aquatic resources, particularly as they

relate to angling, and to increase public awareness of and professionalism in fisheries work.

For Western Division Representative

Karen Pratt

Karen received her Bachelor's degree in Wildlife Management from the University of Montana in 1977. She began with the Montana Department of Fish, Wildlife and Parks in Kalispell following graduation as a field technician on various fisheries research projects on the upper Flathead River drainage which led to her Master's thesis project entitled "Habitat use and species interaction of juvenile cutthroat and bull trout in the upper Flathead River Basin" which she completed from the University of Idaho in 1984. During the completion of her thesis and following graduation, Karen worked for the Idaho Fish and Game in various fisheries positions. In 1985, she moved to Portland where she has been the senior fish and wildlife biologist for Pacific Power and Light until the present time. Karen has been an AFS member since 1977 and is currently a member of the Montana, Idaho and Oregon chapters. Karen was the newsletter editor for the Oregon Chapter in 1987.

Daniel Carty

Dan's professional interest in natural resources began at the University of Maine where, in 1975, he received a B.S. in Wildlife Management. He started his career in fisheries in 1981 as a volunteer with the U.S. Fish and Wildlife Service in Yellowstone National Park. In 1982, he entered graduate school at Montana State University and received an M.S. in Fish and Wildlife Management in 1985. Since then, he has been employed as a fisheries biologist with the U.S. Fish and Wildlife Service in Yellowstone National Park. Dan has been a member of the Montana and National chapters of the American Fisheries Society since 1982. Dan has been active in

organizing the Chapter's summer workshop for the last three years.

For North Central Division Representative

Clifton C. Stone

Clifton C. Stone is a Fisheries Biologist II working for the South Dakota Game, Fish and Parks on Lake Francis Case and Lewis and Clark Lake. Cliff received a B.S. and M.S. degrees in Wildlife and Fisheries Sciences from South Dakota State University in 1979 and 1981, respectively. From 1981 to 1984, Cliff worked as a resource specialist with the South Dakota Department on the Missouri River Reservoirs located at Yankton. Cliff is the vice president of the Dakotas Chapter of AFS and membership chairman. He is also a Certified Fisheries Scientist.

Michael J. Hansen

Michael J. Hansen is the Treaty Fishery Assessment Coordinator for the Wisconsin Department of Natural Resources. Mike received a B.S. degree in Fish and Wildlife Biology from the University of Wisconsin-Stevens Point, in 1979 and an M.S. degree in Fisheries from Cornell University in 1981. From 1981 to 1984, Mike was an associate scientist for Ecological Analyst Inc. in Lincoln, Nebraska working on environmental impact assessments in the Great Plains states. In 1984 Mike joined the Wisconsin DNR as the Great Lakes Sport Fishery Coordinator in Madison and worked at that position until 1987. Mike is a member of the Wisconsin Chapter of the American Fisheries Society.

Ballot Instructions

Please indicate on the enclosed ballot postcard your choices for the offices of President-Elect, Secretary/Treasurer, and the Division Representative for your Division only. U.S. members, affix a 15-cent stamp and drop the card in the mail to Denise

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