

NORTHWESTERN ONTARIO CHAPTER

AMERICAN FISHERIES SOCIETY



NEWSLETTER

Vol. 9 No.2 December, 1989

The newsletter of the Northwestern Ontario Chapter of the American Fisheries Society is printed two times annually and sent to its members free of charge. Membership in the chapter may be obtained by submitting \$10.00 (5.00 for parent society members) to the secretary treasurer or membership representative. Members are urged to join the parent society.

NEWSLETTER

Northwestern Ontario Chapter
of the
American Fisheries Society

Vol.9 No. 2 Dec, 1989

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President.....Alan Dextrase
President Elect.....Bev Ritchie
Past President.....Tom Mosindy
Secretary-Treasurer.....Gord Johnson
Membership Rep.....Sandy McIver
Newsletter Editor.....Mike Fruetel

President's Report

Well, we're well into winter and this is only our second newsletter of the year. I'm afraid I'll have to take the fall for this one. I originally intended to get the newsletter out in early fall, but one thing led to another and now...well it's December. Our Newsletter Editor, Kevin Trimble left for work in Southern Ontario last winter after his premiere issue. Mike Fruetel has volunteered to help out until a new editor is instated at the next business meeting.

The business meeting and annual (?) conference will take place on March 14, 15 in Fort Frances-International Falls. It should be an exciting 2 days and I am sure all members will share my enthusiasm to discuss news and views with members of the Minnesota Chapter. I urge all chapter member's to attend and show the "northwestern Ontario spirit". Details of the meeting are shown on the following pages.

In April concern was expressed by chapter members regarding a proposed pulp mill on the Kaministiquia River in Thunder Bay. The proposed site was upstream from an area which supports a sport fishery for walleye, northern pike, and smallmouth bass as well as two locally rare fishes (black crappie, lake sturgeon). This area may also prove to be important as spawning habitat for the developing chinook salmon fishery in Thunder Bay. The chapter's executive committee met in April to discuss concerns and decided to write the Ontario Minister of the Environment (The Hon. James Bradley) to express our views on the proposed mill. Our concerns were that the mill was being erected in a sensitive area, that to our knowledge no less sensitive alternatives had been given serious consideration and that although the proposed mill was using state-of-the-art effluent treatment, the impact of its operation on the aquatic environment had not been given full consideration. We asked the Minister to inform us of alternatives which may have been considered and to describe to us his Ministry's approval process so that we could be assured the river and its fisheries would receive full consideration. A reply by the Minister indicated that the company is planning to relocate the mill. The chapter will keep an eye on the development for further concerns. In addition to our chapter's concerns, a large contingent of citizens from Thunder Bay openly opposed the construction of this pulp mill on the Kaministiquia River.

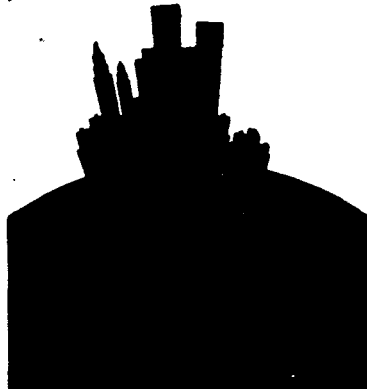
The role of AFS in Canada has grown into an important issue for both Canadian AFS members and the Society as a whole. The Canadian Concerns Committee which was recently formed has been charged with the task of determining how the AFS could become more relevant to existing and potential members in Canada (see attached article from The Mainstream). One issue which deserves consideration from all of the chapter membership is the extension of Dingell-Johnson/Wallop-Breaux type funding into Canada. This system developed in the United States provides funding for

fisheries related work derived from federal taxes on fishing tackle and marine fuels. I've enclosed a couple of articles from The Mainstream which outline the issue. It's food for thought which will be discussed at our meeting in March.

The Southern Ontario Chapter is holding its Annual Meeting in Dorsett on January 11-12, 1990. The theme of their conference is "The role of stocking as a management tool in Ontario". If anyone is interested in attending, they should contact Les Stanfield at OMNR Fisheries Research Branch in Maple.

Once again, I would like to urge all members to attend our joint meeting with the Minnesota Chapter. Also try to encourage non-members to attend and become part of our chapter. Another newsletter will be forthcoming before the meeting to explain all the details. Finally I would like to extend best wishes to all for the holiday season.

Alan Dextrase
Chapter President



Contrary to popular belief,
the Falls is not at the
North Pole.

RESOLUTION OF SUPPORT
FOR
NORTHWESTERN ONTARIO CHAPTER
OF
THE AMERICAN FISHERIES SOCIETY

WHEREAS, The American Fisheries Society is an international professional, nonprofit organization that is dedicated to the wise management and conservation of fisheries resources, and

WHEREAS, the Northwestern Ontario Chapter of The American Fisheries Society was established respectively to further promote the professional management and conservation of the fisheries resources of Northern Ontario in accordance with the respective objectives of the parent society, and

WHEREAS, the Northwestern Ontario Chapter of The American Fisheries Society meets annually to encourage science transfer, and

WHEREAS, the positive professional and social benefits and values of these meetings are recognized and deemed necessary to the further promotion of fisheries management and conservation in Northern Ontario, and

WHEREAS, the Ontario Ministry of Natural Resources and the North Central and Northwest Regions of the Ontario Ministry of Natural Resources desire to encourage membership in the society and attendance of the annual meeting of the Northwestern Ontario Chapter and representation of the Northwestern Ontario Chapter at the annual Divisional and Regional Executive Committee meetings of The American Fisheries Society.

NOW, THEREFORE, BE IT RESOLVED that the Ontario Ministry of Natural Resources and the North Central and Northwest Regions of the Ontario Ministry of Natural Resources do hereby support the Northwestern Ontario Chapter of The American Fisheries Society by:

- 1 - Encouraging their respective professional fisheries personnel to engage themselves as active members of the society;
- 2 - Encouraging their respective personnel to attend meetings and workshops of the Society and providing transportation and travel expenses when feasible;
- 3 - Providing assistance for an annual conference and publication of abstracts from proceedings of annual meetings;

- 4 - Providing an agency liason to meet with the executive boards of the respective chapters for annual planning sessions;
- 5 - Provide opportunities for the Chapter's representation as an active member of local Fisheries Advisory Committees.

Ontario Ministry of Natural Resources
Fisheries Branch

_____ Date _____
George R. Whitney, Director

Ontario Ministry of Natural Resources
North Central Region

_____ Date _____
Mike Millar, Acting Director

Ontario Ministry of Natural Resources
Northwest Region

_____ Date _____
D.R. Johnston, Director

Bev Ritchie

TREASURERS REPORT

The chapter currently has a balance of \$784.60 in the chequing account and \$433.80 in the savings account. There is still a selection of AFS hats and short sleeve shirts available. For more information call Gord Johnson at the Lake Superior Fisheries Unit, (807) 475-1635

Gord Johnson

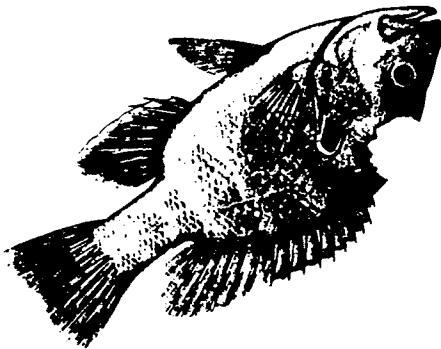
EDITORS NOTES

My first words as newsletter editor will be an apology for the length of time it took to get this newsletter off the ground. Sorry. Being relatively new to this chapter, I really didn't know what to include (or exclude). I hope this will suffice.

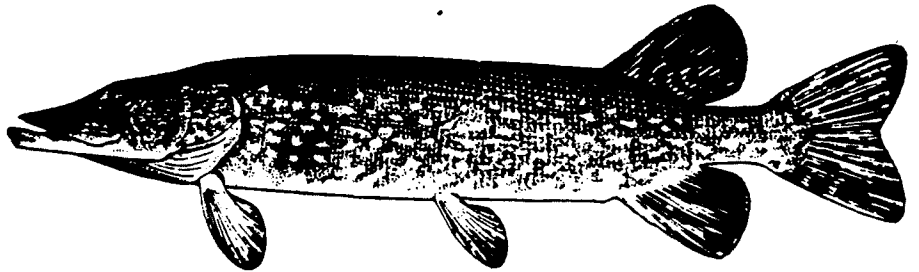
The second issue of Volume 9 has a real mixture of things to fill the blank pages. Terry Marshall of the Productivity Unit in Thunder Bay supplied a draft report of the Canadian Concerns Committee outlining the results of a Canadian Membership Survey. I would like to thank all the District, Regional and University Members who supplied information on short notice. Hopefully, we will be able to give you more time next issue to let the membership know what's happening in your area. I would also like to thank Al Dextrase and Bev Ritchie for providing ideas and Helen Ball for helping me put this together. It doesn't look like issue 3 or 4 will be a reality in 1989 maybe next year. If you have any comments as to what you would like to see in the next newsletter, or you have a better collection of cartoons for filler, let me know.

The 1990 Joint meeting with the Minnesota Chapter will be held in International Falls, Minnesota from July 14 to 15, 1990. There is a registration form at the back of the newsletter to complete and return to Gord Johnson at the Lake Superior Fisheries Unit by early January.

Finally, I would like to thank the folks in Atikokan for their sincere expression of sympathy following the untimely death of special centrarchid named "Pud".



Lepomis cyanellus deceasus



Esox lucius maximouth

CLASSIFIED ADS

Free to a good home, 1 slightly used 89 model Northern Pike, 28 cm fork length, suitable as a house pet or guard dog. Low milage, runs on centrarchid or cyprinid fuel, economical 15-20 mpw (minows/week). Call 475-1659



Your purchase
of fishing equipment
and motor boat fuels supports
Sport Fish Restoration and
boating access facilities

EXPORTING D-J TO CANADA

The Mainstream
Vol. 7, No. 1

As I've worked on *The Mainstream* with the Chapter officers of Mid-Canada, Northwest Ontario, and Southern Ontario I've sensed a subtle but somehow urgent message. "American" Fisheries Society translates into the professional fisheries society for all of North America only to those members residing in the United States. Canadians and Mexicans translate "American" to mean the United States. There really was a major disappointment in Canada over the results of the vote several years ago for our organization to retain it's "exclusive" name.

For the Canadians at least, the urgency seems to be that we better do something pretty quick to show that the Society does extend north of the Great Lakes and the Missouri River reservoirs. The matter is what and how quickly?

The "parent" Society has commenced a Canadian Concerns Committee, and the committee has sent out a survey to determine what we should be doing. That's a start. But I'd like to suggest something that has been so obvious for so long that I can't figure out why we haven't actively pursued it before (unless, of course, we truly are the "U.S." Fisheries Society that the Canadians and Mexicans suspect). That is, the AFS ought to be actively working for the enactment of a D-J program in Canada. (For the time being, I'll let the Western Division folks deal with such grand schemes for Mexico.)

Maybe this is more obvious to me as a staff member of the U.S. Fish & Wildlife Service's Federal Aid Division. But just consider for a minute how much AFS time, money, effort, and space in FISHERIES has been devoted over the last 10+ years to what finally became the Wallop-Breaux Amendments to the Dingell-Johnson Act. It's really neat and satisfying for us State and Federal folks in the U.S. We've increased by over five times the amount of Federal Aid funds available to State agencies for fisheries related work. The State of Michigan, for example, has gone from receipt of \$1 1/4 million in D-J funds annually in FY '85 to nearly \$7 million in FY '89!

But "our" great accomplishment in the "States" has done very little to improve the status of the fishery or plight of the fisheries biologist in Canada. There is no formula for apportioning D-J excise taxes on fishing gear or marine fuels tax revenues to a Province.

I know that our organization's "States" image in Canada makes lobbying for a D-J program to the north a little less than fully effective. I'm not sure the U.S. Congress would be swayed much by pressure coming from an organization based in Ottawa. But I think we could do a lot to help our colleagues in Canada do their own lobbying. Once we get an executive staff in place in Ottawa it will be even better.

I've talked at length with Southern Ontario Chapter President Les Stanfield about exporting the D-J program to Canada, and what the AFS might do to help. Les noted that folks in Canada do best by coalitions, and thereby presenting a united front to the Parliament. He said there is great potential for such a coalition between the Provincial agencies, the professional biologists (via the AFS?), and the Federation of Anglers and Hunters. The Federation has large chapters in each of the Provinces (including 50,000 members in the Ontario Chapter alone!). Does ALAB come to anyone else's mind?

Les believes that through some coordination and technical assistance from the AFS (on how the D-J program actually works), that a strong negotiated agreement could be worked out between all interested parties, including some of the fishing equipment and boat manufacturers. Such a consensus proposal to the Parliament would have high probability of success.

What better role for the AFS to play? Coordinator. Technical assistance. All to provide a better funding base, and better agency control of license revenues, for Provincial fisheries management! I chatted briefly in May with AFS First Vice-President Larry Nielsen about this proposed effort and sensed a sincere enthusiasm on his part. Hopefully the time and mood is right to actually do something for our Canadian colleagues and more of the North American fisheries resource. It might be even be possible for Mid-Canada Chapter members to get authorization to go to chapter meetings with such important business on the agenda.

-MJV-

(NOTE: D-J - the Federal Aid in Sport Fish Restoration Act, enacted in Congress in 1950 [16 U.S.C. 777-777k]. The Wallop-Breaux Amendments, part of the Deficit Reduction Act of 1984 [P.L. 98-369], expanded the D-J program and its funding base commencing in FY '85.)

The Mainstream, Vol. 7, No. 2

SOUTHERN ONTARIO CHAPTER

(From Ken Harris, President-Elect)

NEW FUNDING INITIATIVES FOR CANADIAN FISHERIES MANAGEMENT PROGRAMS

As a follow up to the comments which were made in the last issue of Mainstream regarding the potential for extending the Dingell-Johnson/Wallop-Breaux funding philosophy into Canada, the Southern Ontario Chapter EXCOM is currently soliciting the views of its membership in this issue, with a decision to either proceed with or drop the issue to be made during the next (January 1990) Chapter Annual Meeting. Southern Ontario Chapter President Les Stanfield has also requested that the Northwest Ontario and Mid-Canada Chapters likewise introduce the issue to their respective memberships and decide whether it is worth pursuing at this time. While funding of fisheries programs in Canada is certainly an issue of direct concern to both the AFS and the Canadian Chapters (as representatives of fisheries professionals), the political climate at the moment may be decidedly cool towards any taxation-based funding initiative at the federal level. However, the members will have the final say.

AFS: RELEVANT TO CANADIANS?

(From Don McDonald, Vancouver, B.C. and Terry Marshall, Thunder Bay, Ontario)

The Canadian Concerns Committee was formed to provide information and advise to the AFS Executive Committee on the activities of the American Fisheries Society in Canada. Specifically, the committee was charged with the task of determining how the AFS could become more relevant to existing and potential members of the Society in Canada.

The committee felt that membership concerns could be identified by polling Canadian members of the Society on relevant issues. Therefore, a questionnaire was developed, based on the model used by the Membership Concerns Committee, for use in the present study. The questionnaire was subsequently delivered to every member of the Society in Canada for completion. The preliminary data has now been tabulated and the committee expects to publish the final results of the survey in Fisheries in the not too distant future.

Canadian members of the AFS believe overwhelmingly (99%) that there is a continuing need for a professional fisheries organization in Canada, and that the AFS can respond to this need (91%). However, our members have identified a variety of new activities and services that are required in Canada to ensure that the AFS remains a viable option for Canadian fisheries professionals. In addition, a number of areas where the AFS has been performing inadequately have been identified. The results of the survey will form the basis of recommendations to the Society's ExCom on the program structure and activities in Canada. The committee would like to thank everyone who took the time to fill out the questionnaire.



PRESIDENT'S CORNER

Joe G. Dillard

Welcome to the 119th year of the American Fisheries Society; a year that began in Anchorage, Alaska, and ends next August in Pittsburgh, Pennsylvania; a year of a little over 365 days and many hundreds of miles. Please join me in making it a good one. Opportunities abound. The only limit to the amount of good we can achieve is our degree of willingness to work for the cause.

What shall we make of this the 119th year? Steve Eder, past-president of the Missouri Chapter wrote, "Accomplishments of any one president may be limited, but as each year passes there is a noticeable accumulation of accomplishments."

Steve went on to compare our succession of presidents to the construction of a steep mountain road. The objective of each president is to get to the top of the mountain (i.e., conserve or protect our aquatic resources). All presidents are moving uphill during their tenures, but one will zig to one side or to the other while the next one may zag a different way to overcome the steepness of the grade.

Does the AFS meet your expectations? Many of you made your desires and interests known through the various member surveys done the past few years, and our Long-Range Plan reflects your collective input. Now is the time to carry out the plan. Past-president Bob White started several initiatives to do just that, and I plan to continue those and start some new ones, too. I will share the new plans with you in the next column.

Your help is essential in accomplishing our goals. AFS depends upon volunteer help. Although we have a hard-working paid staff of 20, they could not possibly do everything that needs to be done each year. As Past-president Stan Moberly often said, we operate on a "please-and-thank you" basis. It has served us well,

however, and I hope you will once again serve for the sake of the greater good. I like to think of it as not helping AFS or me, but yourself, the profession, and better yet, the fish. If not you, then who?

A recent newsletter of the Tennessee Home Economics Association summed it up nicely in an article entitled, "How to Kill an Association." Don't participate beyond paying your dues—Let "them" handle things (then complain that members have no voice in management). Decline all offices and committee appointments—you're too busy (then offer lots of advice on how they should do things). If appointed to a committee, don't work—it's a courtesy appointment (then complain because the organization has stagnated). These are only a few of the examples of this unfortunate antithetical approach to "involved" membership in a major organization.

On a more positive note, a 4-H youth specialist in Missouri recently wrote, "our FUTURE depends upon three factors—Yesterday, Today, and Tomorrow. To plan for the future we must consider all three: study Yesterday, plan for Today, and change for Tomorrow."

Our FUTURE depends upon our ability to understand and utilize the SPC theory—Study, Plan, and Change. This process depends upon our ability as an organization to do the following: (1) involve and inform our members, (2) develop and maintain the support of our members, and (3) communicate our program impacts and accomplishments to our members. The SPC theory is as simple as 1, 2, 3. In summary, if we keep doing Today what we did Yesterday, there will be no Tomorrow!

Although few of us remember the early years of AFS, we can definitely become a part of the present and future. May the scope of our accomplishments in this our 119th year equal or exceed the magnitude of the distance between our two meeting sites. With your help it will.

SEASONS GREETINGS



First Call for Papers

Communications: Are We Making Contact?

1990 Annual Meeting of the American Fisheries Society
Pittsburgh Hilton
Pittsburgh, Pennsylvania
26-30 August 1990

The theme of the 1990 annual meeting of the American Fisheries Society is "Communications: Are We Making Contact?" Communication is a central function of our Society and a key component in the professional lives of our members. Yet the quality, if not the quantity, of our communications is frequently criticized. We are called upon to communicate with our peers, clientele, general public, politicians, and other professionals. Our means of communication range from papers in our scientific journals to television video, but are we doing the best we can for the audiences we wish to reach? The 1990 annual meeting will not only be directed toward this self-examination, but as the annual oral communications vehicle of the Society, will also serve as the platform for the highest quality presentations we have ever given. Certainly, this should be our challenge!

The Society will encourage contributed papers, posters, and symposia that are directed to the annual meeting theme. Since the purpose of our annual meeting is to communicate with other attendees, please do not feel constrained by the direct relationship of your possible contributed paper or symposia idea to the theme, but rather feel challenged to make your contribution the best you have ever presented!

Call for Papers

Symposia and Workshops

Proposals for symposia, organized contributed paper sessions, and workshops are encouraged. All proposals must include a statement of purpose, brief description of the session, sponsorship (if any), tentative outline of paper titles, subject area, speakers (if known), relationship to the meeting theme (if direct), and time required. Typically, symposia/workshops will require one half day. Please include names, addresses, and phone numbers of principal organizers. Proposals should be sent to Steve Rideout, Program Chairman, 1200 S. Arlington Ridge Rd. #305, Arlington, VA 22202 and must be received by 8 December 1989.

Contributed Papers/Posters

Submission of papers/posters for presentation must be in the form of abstracts as described in this paragraph and in the format displayed on the following page. Abstracts must clearly state the paper's objectives, principal results, and conclusions in 200 words or less. Abstracts that only describe what will be presented, e.g., "study results will be discussed" will not be considered. Abstracts must include the following: a succinct title; full name, address, and telephone number of each author; and the text of the abstract. The speaker should be noted parenthetically. The following information must also be provided at the bottom of the abstract: type of presentation (paper or poster); whether slides will be shown (only 2 x 2 slides will be allowed); status of the principal author (student or non-student) at the time of abstract submission; and name, address, and phone number of person to receive correspondence if different from information provided for the author(s). Please consider submitting your abstract through the Computer User Section's electronic bulletin board 313/996-1456. For further information contact Anthony Frank 313/994-3331 or Steve Rideout 703/358-1718 (W); 703/271-0547 (H).

The abstract should be sent to Steve Rideout, Program Chairman, 1200 S. Arlington Ridge Rd. #305, Arlington, VA 22202 and must be received by 5 January 1990. Authors wishing confirmation of receipt of their abstracts must provide a stamped, self-addressed envelope. Questions regarding the program or submission of materials should be directed to the program chairman at the above address or by telephone 703/358-1718 (W) or 703/271-0547 (H).

AFS Membership on the Rise

At the halfway point in 1989, AFS had 658 new members compared to 604 in 1988. Taking into account that last year ended with a net gain of 526 members, 1989 should be a very good year for member recruitment.

Congratulations to all of you who signed up a new member or encouraged a delinquent member to submit their renewal. Anyone who is not familiar with the Society's PRO Club (Professionals Recruiting Others) is invited to call Ruth Ploff at AFS headquarters for details (301/897-8616).

Format for Abstracts for 1990 Meeting

Title of Paper to be presented at the 1990 Annual Meeting of the American Fisheries Society.

Stephen G. Rideout, U.S. Fish and Wildlife Service, Department of the Interior, Mail Stop 820, Arlington Square, 18th & C Streets, NW, Washington, DC 20240; 703/358-1718. (Presenter)

Thomas D. Mosher, Kansas Department of Wildlife and Parks, P.O. Box 1525, Emporia, Kansas 66801, 316/342-0658.

The purpose of submitting abstracts is to permit the objective evaluation and selection of papers that will be included in a series of technical sessions to be featured at the 1990 annual meeting of the American Fisheries Society. Papers and posters will be selected by members of the Program Committee. Evaluation is facilitated by authors submitting abstracts organized in a prescribed format and limited to 200 words or less. The abstract should include the objectives, principal results, and conclusions. An informative and well-written abstract is the best measure the Program Committee has to predict the quality of the presentation. Typed abstracts must fit within the template used for this example.

Paper Session

2 x 2 Slides

Non-student

Contact Person: Stephen G. Rideout

10 REASONS WHY YOU SHOULD BE AT THE AFS ANNUAL MEETING

1. **NETWORKING.** Stay in touch with your friends and meet members involved in every aspect of fisheries.
 2. **EDUCATION.** Learn more about fisheries today through our theme "Communications: Are We Making Contact?"
 3. **EXHIBITS.** See the newest products and services from top fisheries suppliers.
 4. **LOCATION.** Pittsburgh offers excellent accommodations, affordable restaurants, and numerous sports, recreation, and cultural activities.
 5. **IDEAS.** Discover how other AFS members are solving the same problems you face.
 6. **ADVANCEMENT.** Job hunting? Visit the career center and search the JOBSource database for valuable job leads.
 7. **INFORMATION.** Attend programs and sessions specifically geared to improving your job performance.
 8. **CONTRIBUTE.** Be a part of AFS's future. Voice your ideas about the direction you want your professional society to take.
 9. **INSIGHTS.** Discover a more effective, more efficient, or possibly cheaper way to do your job.
 10. **ENJOY.** In addition to all this, we can practically guarantee you'll have a great time.
- SEE YOU IN PITTSBURGH
26-30 AUGUST

The complete program and registration information will be published in the May-June issue of Fisheries.

New Titles

The following publications should be ordered directly from the publisher unless noted otherwise.

Applied Nonparametric Statistical Methods. By P. Sprent. Chapman and Hall, New York. 1989. 259 pages. \$32.50 (paper). *Readable textbook on the rationale and application of nonparametrics, with minimal theory. Self-teaching guide to statistical tests for the working class, from paired comparisons to jackknives and bootstraps.*

Aquaculture Management. By J. W. Meade. Van Nostrand Reinhold, New York. 1989. 175 pages. \$49.95. **AVAILABLE FROM AFS AT 5% DISCOUNT.** *"First and only guide to cover all aspects of aquaculture—from production and management to marketing and ethical considerations." Twelve chapters in this brief text address principles of culture, people management, marketing, water quality, fish health, ethics, economics, production limits, and aids to decision-making. Good introduction to the fish culture business.*

Aquatic Biology and Hydroelectric Power Development in New Zealand. Edited by P. R. Henriques. Oxford University Press, New York. 1987. 280 pages. \$65.00. *Knowledge and status of hydropower and its impacts on river biota in New Zealand. Major topics include water resources and their use, legal and planning framework for hydro-development, management of hydropower schemes, and environmental assessments for future development. Contains pertinent chapters on fish passage, hatcheries and stocking, fish and fisheries, and water level and flow manipulations.*

Ecological Engineering: An Introduction to Ecotechnology.

Edited by W. J. Mitsch and S. E. Jorgensen. John Wiley and Sons, New York. 1989. 472 pages. \$54.95. *Basic principles and case studies of ecological manipulations of our environment. Part 1 describes ecological, economic, and agricultural aspects of engineering. Topics of 12 case studies (Part 2) include wetlands, wastewater, salt marshes, estuarine ponds, lake restoration, hazardous chemicals, rock mining, and fish culture in China. Applied ecology for environmental and natural resource managers.*

Estuarine Ecology. By J. W. Day, Jr., C. A. S. Hall, W. M. Kemp, and A. Yanez-Arancibia. John Wiley and Sons, New York. 1989. 558 pages. \$54.95. **AVAILABLE FROM AFS AT 5% DISCOUNT.** *Textbook of estuarine science for collegiates, from physico-chemical aspects to human intervention. Thirteen chapters organized into six sections: introduction and overview, physical overview, estuarine plants and primary production, reduced carbon and its fate in the estuary, estuarine consumers, and humans and estuaries. "Nekton" (Chapter 10) and "Estuarine Fisheries" (Chapter 12) are of particular relevance.*

Fish for Tomorrow. By D. Gilbert. Publications in Fisheries, School of Fisheries WH-10, University of Washington, Seattle 98195. 1988. 162 pages. \$20.00 (paper). *Early history of fisheries management primarily in the western U.S. Ten chapters begin with early treaties and commissions, and progress through those for halibut, sockeye salmon, tuna, and other species. Posthumous publication of author's views of fisheries history.*

Catch-and-Release Fishing: A Decade of Experience. Edited by R. A. Barnhart and T. D. Roelofs. Humboldt State University, Arcata, California. 1989. 299 pages. \$15.00 (paper). *Proceedings of a national sport fishing symposium, convened in 1987 at Humboldt State. Successor to the first symposium held 10 years earlier, 28 presentations explore catch-and-release management throughout North America. Coverage includes trout species, Atlantic salmon, steelhead, walleye, crappies, bluegill, black bass, billfish, and other sport fishes. Rise of this special regulation in fisheries management.*

The Compleat Crab and Lobster Book. By C. R. Reaske. Lyons and Burford Publishers, New York. 1989. 150 pages. \$9.95 (paper). *Sequel to The Compleat Clammer; pot-pourri of natural history, capture methods, and recipes for these crusty critters. Emphasis on the blue crab and American lobster in and out of the boiling pot.*

Co-Operative Management of Local Fisheries: New Directions for Improved Management and Community Development. Edited by E. Pinkerton. University of British Columbia Press, Vancouver. 1989. 299 pages. \$36.95 (Canadian). *Multidisciplinary approach to resolving local fisheries conflicts; processes, institutions, and benefits. Sixteen chapters cover many major conflicts in recent times, to include Columbia, Skeena, and Klamath River salmon, lobsters in Nova Scotia, hard clams in New Jersey, marine mammals in Alaska, Chipewewa fisheries in Wisconsin, and more. Synopsis of negotiated agreements between fisher groups and governmental agencies in the U.S. and Canada.*

Fishes of the Thunder Bay Area of Ontario: A Guide for Identifying and Locating the Local Fish Fauna. By C. Hartviksen and W. Momot. Wildwood Publications, Thunder Bay, Ontario. 1989. 282 pages. Price unknown. *Key to the families and species accounts of fishes in Thunder Bay and northwestern Ontario. Included are line and portrait illustrations, 1-2-page accounts, lake and stream inventory, glossary, and map insert. Handy reference for that section of Canada.*

Fresh-Water Invertebrates of the United States. Protozoa to Mollusca. Third Edition. By R. W. Pennak. John Wiley and Sons, New York. 1989. 628 pages. \$42.50. **AVAILABLE FROM AFS AT 5% DISCOUNT.** *At long last, a revised edition of the authoritative reference on freshwater invertebrates. Insects completely deleted in favor of expanded coverage for other taxa. Essential reference for aquatic biologists, at a reasonable price.*

Sea of Cortez Marine Invertebrates: A Guide for the Pacific Coast, Mexico to Ecuador. By A. Kerstitch. Sea Challengers, Monterey, California. 1989. 112 pages. \$21.50 (paper). *Identification of the invertebrate fauna by phylogeny and color photographs. Species accounts for the eight phyla include scientific and common name, description, size, habitat,*

TISSUE SAMPLES LEAD TO CHARGES OF ILLEGAL CRABBING and the largest poaching settlement ever for Alaska's Division of Fish and Wildlife Protection. When charged with taking red king crab from a closed fishing area in the Bering Sea, the owner and skipper of a commercial fishing boat claimed their catch had come from Adak in the Aleutian Islands—an area open to crabbers. Southern Illinois University Zoologists James E. and Lisa W. Seeb used crab leg samples and other tissues to show that the captured crabs were genetically

different from those living in the Aleutian Islands. Criminal and civil penalties in the case total \$615,000.

"This kind of analysis has been done for about 15 years, but the forensic application is relatively new," James Seeb said. "There have been very few court cases decided by this kind of evidence."

Alaskan investigators provided the Seeb's with tissue samples from 100 Adak area crabs and 100 confiscated crabs. They also sent samples from the only five crabs they could get from the Bering Sea site they suspected had supplied the seized crabs. Working with Robert G. Weck, a researcher at Southern Illinois University's Cooperative Fisheries Research Laboratory, the Seeb's mixed the tissue samples with water, suspended the resulting solution in a starch-like gel and then placed the gel between two electrodes in an electric field. Because enzymes from different populations move within such fields at different rates, a difference in speeds would mean the crabs were genetically different. "Our data clearly show that the seized crabs could not have originated from the Adak area," Seeb said.

Alaska game managers had intended to use the Seeb's research to set crab seasons rather than catch poachers. They wanted to know if the crabs interbreed within an area west from Juneau to the Aleutian Islands and north to Norton Sound in the Bering Sea. If they don't interbreed, managers can establish fishing quotas for local populations rather than for red king crab as a whole. This would protect more accessible and vulnerable populations from overharvesting.

The Seeb's plan to continue their research into the biology and management of red king crabs. "The court set aside nearly half the penalties in this case for the state of Alaska to do research," James Seeb said. "We hope some of this will come to Southern Illinois University to further our studies."

TEACHING PRISON INMATES HOW TO RAISE CATFISH and lettuce in hydroponic/aquaculture tanks is proving to be a successful program at the Massachusetts State Correctional Institution. With continuing Sea Grant support, the project is moving into its second phase which will add 16 tanks to the four that are already assembled. All tanks will be located in the greenhouse already at the prison. Each round, fiberglass tank, measuring 5-by-5 feet, contains 675 gallons of fresh water.

Besides expanding the number of tanks, the second phase will experiment with raising new species including striped bass, channel catfish, and tilapia. In addition to lettuce, inmates will look into growing ornamental plants and herbs and into testing the thermal performance of the tanks, which also function as passive solar collectors providing winter heat to the greenhouse.

All of these factors, as well as commercial feasibility studies, will help determine the project's potential for use in the private sector or as a model for other prisons throughout the nation.

A TRANSGENIC CARP developed at the Alabama Experiment Station at Auburn University has been placed in a containment tank where it can reach sexual maturity. Brood fish of the experimental carp were placed in the research pond in June under guidelines from the National Institutes of Health, which were developed to assure that experimental animals are contained without chance of release. Stocking of young fish produced by these brood fish to evaluate production characteristics will be done later upon appropriate governmental approval.

In this genetic engineering research the growth hormone genes from rainbow trout were isolated and duplicated at Johns Hopkins University and then injected into carp eggs at Auburn University. Once the fish hatched they were maintained in laboratory tanks for study. Tests have confirmed that the rainbow trout genes are present in the fish, along with the carp's growth hormone genes. The objective of the research is to improve the rate and efficiency of fish growth.



~~Refuse hunting with carp.~~
PCB

The $\frac{AF}{SF}$ Diary

A WEEKLY REPORT TO THE EXECUTIVE COMMITTEE
FROM THE OFFICE OF THE DIRECTOR

The Canadian Concerns Committee is querying all Canadian AFS members to determine how AFS might serve them better. Chairman Donald MacDonald plans to develop a computer database from the answers to aid analysis and drafting of the report to Excom. He plans to present it at the Anchorage meeting.

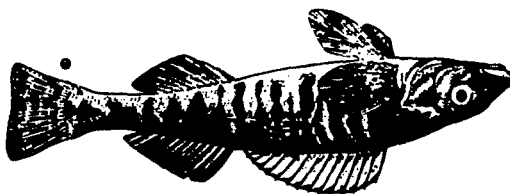
The U.S. Fish and Wildlife Service has evaluated the effect of 109 chemical pesticide compounds on 164 federally listed threatened and endangered species. Aquatic species are included in the biological opinions requested by the Environmental Protection Agency in the agency's September 30, 1988, request for Section 7 (of the Endangered Species Act) consultation. As a result of the request the Service constructed an aquatic species/pesticide risk assessment model that considered species exposure, pesticide toxicity, secondary impacts from pesticides and special concerns. The model was then used to assess effects on target and non-target species to develop alternatives and to prescribe mitigation measures. The format of the 600-700 page report will be: I. Assumptions; II. Affects of pesticides on species; III. Species profiles; IV. Maps or location descriptions (transmitted separately); and V. Chemical data sheets - hazard data. The report should be of great value, not only for T&E species, but also for general evaluation of pesticide effects on aquatic systems. As a result of the study and report EPA will need to significantly change its pesticide labeling program - 23% of the species/pesticide combinations resulted in a jeopardy opinion.

The Aquaculture Information Center at the National Agricultural Library publishes bibliographies on aquaculture-related topics. They are available free of charge and currently include the following:

Aquaculture: Development Plans and Marketing (1970-1986):
QB 87-48
Aquaculture Production Systems: Earthen Ponds (1979-1987):
QB 88-33
Aquaculture Production Systems: Other Than Ponds (1979-1987):
QB 88-34
Aquaculture in Recirculating Systems (1979-1987): QB 87-47
Aquatic Vegetation Control (1979-1986): QB 87-21
Catfish Diseases and Control (1979-1986): QB 87-30
Catfish Farming (1979-1986): QB 87-30
Crawfish Farming (1979-1986): QB 87-53
Freshwater Shrimp and Prawns (1979-1986): QB 87-18
Salmon Culture (1979-1988): QB 89-17
Shellfish Culture (1979-1986): QB 87-46
Shrimp Mariculture (1979-1987): QB 87-47
Tilapia Culture (1979-1988): QB 89-12
Trot Diseases and Control (1979-1986): QB 87-49
Trot Culture (1979-1986): QB 87-19
Water Quality Management in Aquaculture (1979-1987): QB 88-48
Fish Oil: Dietary Benefits of Omega-3 Fatty Acids
Spirulina: Food for the Future (October 1988)

Aquaculture: A Guide to Federal Government Programs, Nov. 1987, 34 pp.
Aquaculture in the Caribbean Basin: A Bibliography (1970-88),
MLA Number 71, Sept. 1988, 71 pp.
Aquaculture Genetics and Breeding: National Research
Priorities, Mar. 1988, v. I, 56 pp.; v. II, 61 pp.
Aquaculture Journals at the National Agricultural Library,
Oct. 1988, 29 pp.
Leadership in Aquaculture Development, Feb. 1987, 7 pp.

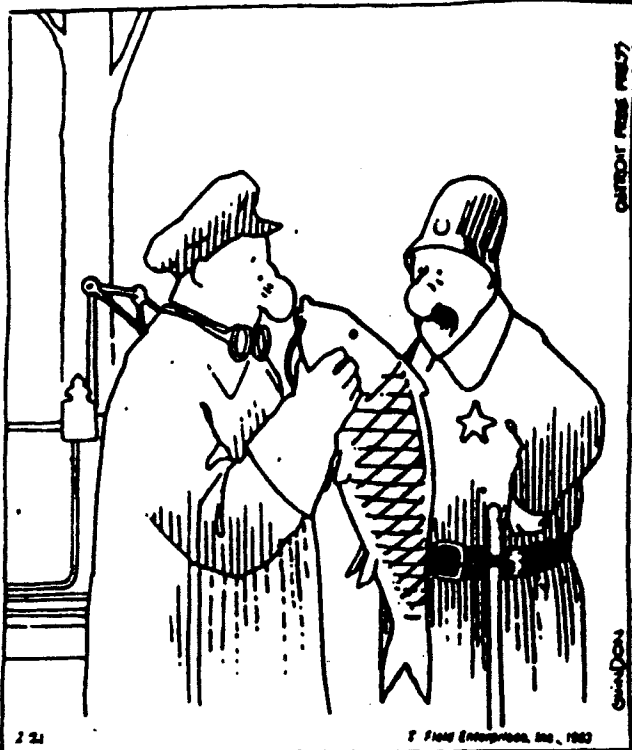
To request a copy of any of the above titles, please send a self-addressed, gummed label, along with the title and number of the bibliography desired to: National Agricultural Library, Aquaculture Information Center, Room 304, ATTN: Bibliog., Beltsville, MD 20705.



Yet another victim of maxemouth

Have you been frustrated at large technical meetings by not being able to get to two presentations scheduled at the same time during concurrent sessions? Many AFS members attending our annual meetings have. Accommodating over 250 technical presentations, special sessions, and symposia requires real ingenuity on the part of our program chairman. It also has meant conducting as many as six concurrent sessions. Past-president Stan Moberly, reacting to videotaping of sessions at Aquaculture '89, wondered why AFS couldn't videotape sessions and make them available at reasonable cost to interested members. As a result of these discussions President Bob White recently indicated that videotaping of select sessions is being considered for the Anchorage meeting.

AFS now has 670 color slides of North American Fishes. Each is available for sale at \$1.50 per slide. To obtain a catalog with ordering information, please send a self-addressed 9 x 12 envelope with \$.65 postage to AFS Fish Photo, 5410 Grosvenor Lane, Suite 110, Bethesda, MD 20814-2199. The slides have been contributed to AFS by both scientists and photographers with the understanding that they will only be used for nonprofit educational purposes. They may not be used in any way for commercial purposes without the consent of the contributor, who retains all commercial and publication rights.



Carp were once used as breathalyzers. The police figured any fool who would put a carp in his mouth and blow into it would have to be drunk.

TO ORDER AN

A
S
F

FISH SLIDE
CATALOG

SEND A SELF-ADDRESSED 9" x 12" ENVELOPE WITH \$.65 POSTAGE TO: AFS, 5410 GROSVENOR LANE, SUITE 110, BETHESDA, MD 20814.



CHAPTER NEWS

Please send any submissions you may have for the next newsletter to: Bev Ritchie, Quetico-Mille Lacs FAU, 435 James St. S., P.O. Box 5000, Thunder Bay, P7C 5G6

The Northwestern Region has produced 5 public service announcements (PSA's) for television as part of a program to educate anglers. The PSA's are 30 seconds long and deal with Lake Trout, Walleye, Northern Pike, Alternate Species and Catch and release. They attempt to convey to anglers a sense of responsibility for fisheries management with a theme of "THE FUTURE OF FISHING IS IN YOUR HANDS". The messages are all exploitation oriented and are timeless, so they should be good for many years of showing. Plans are in the works to produce similar, habitat related messages in the near future.

The videos are available for use through Communications Services Branch in Toronto for the cost of reproduction, which is cheap. Because they are public service announcements, they can be run free of charge on local television stations. The announcements are presently available as Northwestern Ontario and Northern Ontario versions.

For further information contact: Bruce Ranta, Regional Fisheries Biologist, Northwestern Region at (807) 468-3111

Bruce Ranta

IN 1989, IGNACE DISTRICT completed the first year of a long term experimental management program designed to assess the effectiveness of **pulse fishing** as a management technique for small polyphagous lake trout lakes. Such lakes are often made into sanctuaries when they are accessed due to managers fears that they will be fished out. A pulse fishing strategy may allow these lakes to provide high quality angling opportunities on a sustained basis.

Three lakes are involved in the experiment. One lake will be open to angling in 1991. The target level for harvest is 2 kg/ha. The other lakes, which are both sanctuaries, will remain closed and serve as control lakes to monitor natural variation in year class strength and abundance. The first two years of the project are being used to collect pre-assessment information on all three lakes. Monitoring will continue for 8 years after the harvest to determine the impacts of the exploitation and monitor the recovery of the population. We are currently working on combining the Squeers lake project in Thunder Bay District with our program. The Squeers Lake program is examining the impact of annual removal of 2 kg/ha/.

Al Dextrase

SLOT LIMIT WORKSHOP On December 5th, 1989, a number of Ministry of Natural Resources people attended a workshop on slot size regulations for fisheries. The workshop was organized by Kim Armstrong, the Enhanced Fisheries Biologist for the Northern Region. The workshop was organized to bring people up-to-date with current size limits regulations around the province, and discuss various considerations which need to be made when undertaking such projects.

Presentations were made by various people on current slot size experiments, discussing to-date and anticipated results. Discussion topics included: lake suitability, size interval selection, angler attitudes, community structure changes, among others.

A presentation was also made by Rob Korver (Maple) who has been revising and improving a computer model originally developed by Joe Koonce and Mike Jones. The model simulates effects of various management strategies on a walleye population. Rob has done a lot of work to make the model user-friendly and provide documentation. However, he will try and perform sensitivity analysis of the model before he "lets it loose" on people.

Kim Armstrong will be summarizing the salient points of the workshop, anybody who is interested should contact him at the Cochrane Regional Office.

Nick Baccante

Under Ontario's Class Environmental Assessment for Timber Management, currently in progress, the Ontario Ministry of Natural Resources has committed to providing detailed information about the environmental effects of timber management on Ontario's crown lands, and about the effectiveness of existing guidelines in minimizing undesirable environmental effects of timber management. A key step in this endeavour has been the creation of the **AQUATIC EFFECTS RESEARCH UNIT**, based in Thunder Bay. Similar units are being established in Thunder Bay to examine timber management effects to tourism and wildlife.

The Aquatic Effects Research Unit will consist of a co-ordinator and three fisheries scientists, plus support staff. Staff recruitment is underway, and will be complete by 1991.

At selected watersheds and survey stations located across northern Ontario, experimental and comparative research will address the questions:

- 1) What is the minimum reserve or "buffer strip" width that can be used to provide adequate protection of fish habitat on lakes and streams, in the various geographic regions of northern Ontario?;
- 2) What is the most environmentally and economically effective set of road and stream-crossing construction guidelines for forestry operations, and under what conditions should these be applied?;
- 3) How are effects of forest management practice linked to aquatic systems; how are these effects modulated and buffered by landscape features such as wetlands?; and
- 4) How do scale and pattern of timber harvest alter land-water linkages in boreal landscapes?

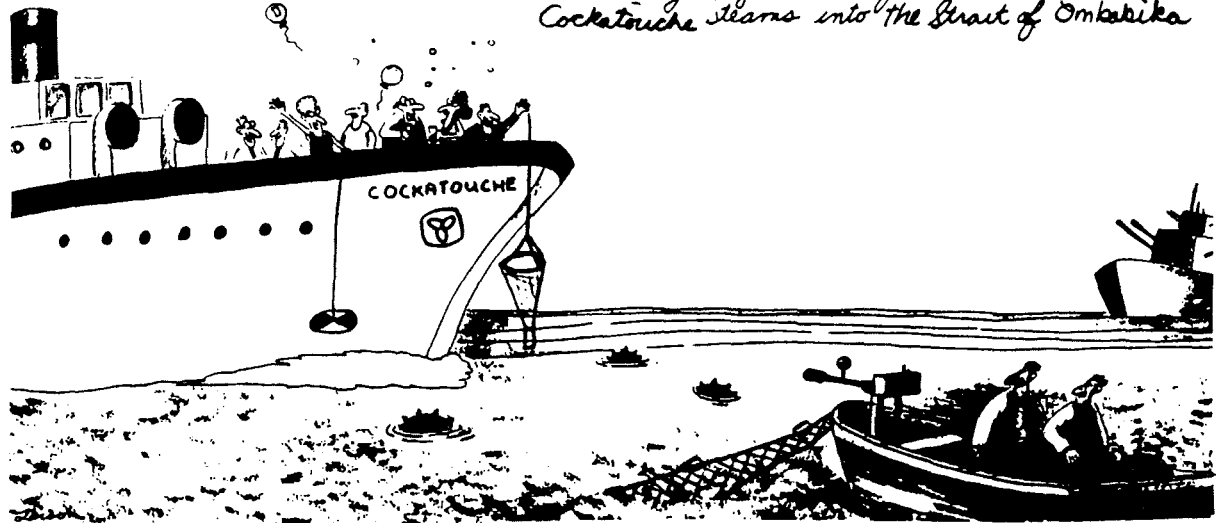
The project will require about ten years to complete, and should serve as an effective nucleus for related research activities in the region. For more information, please contact:

Robert Steedman, Research Co-ordinator, Aquatic Effects Research Unit, (807) 475-1635

Rob Steedman

LAKE NIPIGON - WATER QUALITY SAMPLING. Scientists from the Freshwater Institute (DFO) in cooperation with the Lake Nipigon Fisheries Assessment Unit (MNR) are studying water quality, nutrient, oxygen, phytoplankton and zooplankton production in Lake Nipigon. LNFAU staff collected samples at a deep water station at regular intervals during the open water season. DFO scientists and LNFAU technicians conducted an intensive, lake-wide sampling cruise during mid summer.

Through a gross navigational error, the Cockatouche steams into the Strait of Ombakika



The information from this study will be compared with data from DFO's experimental lakes in the Kenora, Red Lake Area. Results of this study will provide a base of information which will assist scientists in the design of sampling programs to describe environmental impact in lakes.

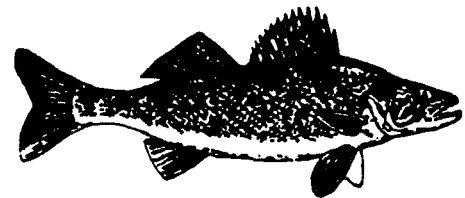
Rick Salmon

THE WALLEYE-SAUGER BIBLIOGRAPHY, a joint effort between the Ontario Ministry of Natural Resources and the Minnesota Department of Natural Resources, was published in July 1988. The bibliography updates the work by Addison and Ryder (1970) and will be used to facilitate the revision of the synopsis of biological data on the walleye (Colby *et al.* 1979). The annotated bibliography contains approximately 3500 references pertaining to walleye and sauger. Keywords are listed after each reference and cross-referenced in a keyword index. Copies of the bibliography are available for **FREE** from the **Walleye Research Unit**, Thunder Bay:

Phone number (807) 475-1636

Walleye - Sauger

Bibliography



Helen Ball

THUNDER BAY DISTRICT is proposing to stock a Ganoraska River strain of brown trout in the Arrow River. The project will improve the existing cold water fishery and provide unique angling opportunities. Some of the options being explored include the use of barbless hooks, single treble hook lures, no organic bait as well as regulations regarding fly fishing and catch and release. A preliminary assessment of the streams suitability for brown trout was carried out by the Thunder Bay Fly Fishing Club in the late summer of 1988. The survey included substrate analysis, stream morphometry and flow and a faunal survey for use with a Habitat Suitability Index. Approximately 10,000 brown trout fry from the Codrington hatchery will be released in the spring of 1990.

Thunder Bay District Invites your comments and suggestions on the project.
Please Contact: Rick LeBlanc (807) 475-1521.

Rick Leblanc

AFS ANNUAL MEETING The 1989 annual Parent Society meeting took place in Anchorage, Alaska from September 4-8. The program theme was "Fisheries Management Controversies: Biology, Economics and Politics". Over 600 papers were presented in 33 symposia and 18 contributed paper sessions. There was also an impressive number of posters displayed. This multitude of information seemed overwhelming at times with up to 10 sessions running concurrently. Close to 1200 people from every state and province attended the meeting. In addition to the busy conference schedule, there was a rigorous social agenda which included a salmon bake and tours of the Anchorage area.

The 1989 Annual Business Meeting was held on September 6. Six resolutions were approved. These were:

- Opposition to the proposed Great Lakes inland waterway linking the Ohio River and Lake Erie.
- Support for increased funding to the Great Lake Fishery Commission for sea lamprey management, monitoring and research.
- Restricting ballast water discharge from ocean-going vessels in the Great Lakes.
- Seeking international agreement to reduce drift gillnet by-catches and to increase funding for high seas fisheries patrols for enforcement purposes.
- Encouraging the mitigation of acid mine drainage.
- Expressing gratitude to the hosts and sponsors of the annual meeting.

Other highlights of the annual meeting included the installation of Joe Dillard as president of the Society and Carlos Fetterolf as second vice-president. The 1990 Annual Parent Society Meeting will take place in Pittsburgh from August 27-31. The theme for the meeting is "Communication: Are We Making Contact?". The first call for papers has been given in the September October issue of "Fisheries" (Vol. 15, No. 5).

Al Dextrase



For those of you on tight budgets, we have discovered a new source of aging tissue available at your local grocer. They are called Fins Rayes (sorry, fork length not included). These little goodies come in packs of 24 and are chocolate coated.

Fins Rayés

SIOUX LOOKOUT ADVISORY COMMITTEES - In keeping with the Deputy Minister's Vision of more public participation in resource management, the Sioux Lookout District has formed two Public Advisory Committees and will be forming a third in the near future.

The Minnitaki Committee has been formed to address the overharvest of sportfish recently identified in four lakes adjacent to the town of Sioux Lookout. The Lac Seul Committee is to ensure that the intent of the Lac Seul Management Plan is being met and assist the M.N.R. in any conflict resolutions. Both committees have members from tourism, local sportsman's clubs and municipality representation.

In addition, the Lake St. Joseph Advisory Committee will be formed soon to aid in addressing fisheries management concerns for the lake and any lake related issues that may occur.

Any questions regarding these committees can be addressed to David Reid, Sioux Lookout District Fisheries Biologist, (807) 737-1140.

David Reid

SQUEERS LAKE EXPERIMENTAL MANAGEMENT PROGRAM - When the new year arrives Quetico-Mille Lacs Fisheries Assessment Unit will begin gearing up for year six of its experimental fishery on Squeers Lake. Once again anglers will be asked to apply for the privilege of angling this sanctuary lake, by special permit, for one day between Saturday march 17 and Sunday March 25, 1990. The harvest level target will be the same as last year - 2.2 kg/ha. This will be maintained for approximately one complete generation or seven years. The assessment unit will be monitoring the population, exploitation rates, changes in the age at maturity, recruitment, mortality and other signs of stress to determine if this level of harvest can be maintained over time.

In order to obtain a population estimate, and observe exploitation, in the winter fishery, an elaborate tagging program is undertaken each fall when the adult trout are concentrated on the shallow spawning shoals. The target is to capture 10% of the adult population. The assessment crew surrounds the shoals with small mesh monofilament gillnets and herds the fish into the twine. The fish are immediately transferred to a 4 foot holding net to recover. A few at a time are placed in a tub of water, anaesthetized with Tricane Methanesulfonate (MS 222), sampled (length, sex, previous marks), tagged, clipped and released at the lakes edge for recovery. An alternative method of capture which can be very effective prior to spawning is angling. With the two methods, the fall 1989 crew managed to capture and mark slightly over the 1500 target in ten days between late September and early October. Sampling mortality rates are checked periodically by placing sampled lake trout in a holding trap for 24 hours. Results indicate virtually no fish die except injured and deeply hooked individuals.

This experimental management program may have a valuable application in lake trout management of the future. Lakes that can maintain a higher yield could have a more liberated season, taking the pressure off lakes that can only sustain a low harvest level.

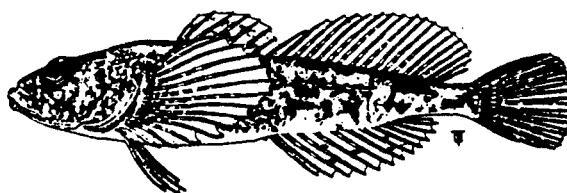
For more information, contact Jon George at QMLFAU, (807) 475-1659

Jon George

SCIENCE TRANSFER



Three of the Walleye Research Unit's papers published in the North American Journal of Fisheries Management and the Canadian Journal of Fisheries and Aquatic Sciences were popularized in the April 1989 and January 1990 issue of the In-Fisherman. Popularizing technical material by sportswriters in a format to be of interest to laymen, in an international magazine seems like an excellent way of getting science transferred to fishermen and the public in general.



IN TRANSIT

Arrivals



Departures

Dave Payne, formerly the District Biologist in Cochrane is now the Lake Superior Coordinator, Thunder Bay.

Bev Ritchie, Nipigon Fisheries Assessment Unit Biologist has a new position as the Quetico- Mille Lacs Fisheries Assessment Unit Biologist.

Rob Steedman, formerly a Water Resource Scientist with the Ministry of the Environment is now the Coordinator of the Aquatic Effects Research Group.

Jill Entwistle, fisheries biologist with North Central Region is moving to a Regional Planning position in Thunder Bay . Good Luck Jill!

Phil Ryan, formerly the Quetico-Mille Lacs Fisheries Assessment Unit Biologist has a new position as the Lake Erie Fisheries Assessment Unit Biologist. It will be a great loss to our Northwestern Ontario Chapter, we will miss his dedication and enthusiasm.

The AFS Canadian Membership Survey - Preliminary Results.

Canadian AFS members believe overwhelmingly (99%) that there is a continuing role for a professional fisheries organization in Canada, and 91% of these feel that the AFS can respond to this need. The question then becomes, what can the AFS do to improve its image in Canada, so as to maintain or increase its membership? This report identifies areas in which Canadian members feel the AFS is performing inadequately, and identifies activities and services on which more emphasis should be placed in Canada.

Next to the Parent Society itself, members have identified Chapters as the organizational entity of most importance to them (Figure 1). Unfortunately, these represent an inaccessible unit to a large percentage of our members, as there are only two functional all-Canadian Chapters, and both are based in Ontario. Over 50% of members believe Divisions, as presently structured, are not important or only slightly important to them.

With the exception of editors and publications staff, AFS personnel are not perceived as being very effective in serving the needs of Canadian members (Figure 2). The US-based Executive Director and Central Office staff were deemed much less effective by Canadians, as a unit, than was found in a survey of all AFS members (see Moffitt 1988, *Fisheries* 13(2): 24-30). Even though a disproportionate number of Canadians have held the chair of President in recent years, members also feel elected officers are ineffective in serving their particular needs.

The AFS appears to be fairly successful in expressing its mission to its Canadian membership (Figure 3). Federal and provincial agencies and universities in Canada are thought to be somewhat informed of the AFS mission, while members perceive that other groups, particularly industry and the general public, are not. Members also feel that the specific goals and objectives of the AFS

have been largely unfulfilled in Canada (Figure 4). An exception is the objective relating to the collation and dissemination of information about fisheries science and practices, which has been judged to be adequately carried out.

Suggestions can be made as to what areas the AFS should increase its level of activity in Canada (Figure 5). These include conservation education, public relations, resource management, research, professionalism, and lobbying. The majority of members feel the AFS should maintain the same emphasis with regard to professional publications, employment opportunities, affirmative action/equal opportunity, academic standards, and litigation. In no area should the emphasis be decreased.

With respect to new activities and services in Canada, that of more participation and commentary on environmental policy was selected to be of highest priority, followed by more public education (Figure 6). Increased publications and a job information service are considered of lower priority. Over the next five year period, the majority of members feel the AFS should place most emphasis on fulfilling its objective of promoting the conservation, development, and wise use of fisheries resources in Canada (Figure 7).

A high proportion of Canadian members (71%) feel that the AFS should change its name to more accurately reflect its goals. The name "North American Fisheries Society" was selected by 74%, the name "Fisheries Society" was selected by 11%, an alternate name was suggested by 5%, and 10% had no opinion.

Of great concern to members is the perceived lack of influence of AFS policy resolutions on government resource managers and public decision makers in Canada. A full 86% feel this influence is minimal or nonexistent (Figure 8). Members offered numerous

comments and criticisms which may answer this concern, and others. Recurring remarks include:

- 1) It is imperative that the AFS raise its profile in Canada, as it is relatively unknown to many government agencies and to the public in general. A name change and public relations campaign may assist in this regard.
- 2) A Canadian sub-office is acutely required, with an associate Executive Director, dedicated to answering the unique needs of Canadian members.
- 3) It is felt by many that a Canadian division of the AFS, or an affiliate agency, should be created, with annual meetings held in different Canadian locations. This would encourage the involvement of members who due to great geographic distance and institutional constraint are otherwise unable to attend AFS meetings. Such an increase in interest may promote the formation of more Canadian chapters, and ultimately attract additional members.

IMPORTANCE OF AFS ORGANIZATIONAL ENTITIES TO CANADIAN MEMBERS

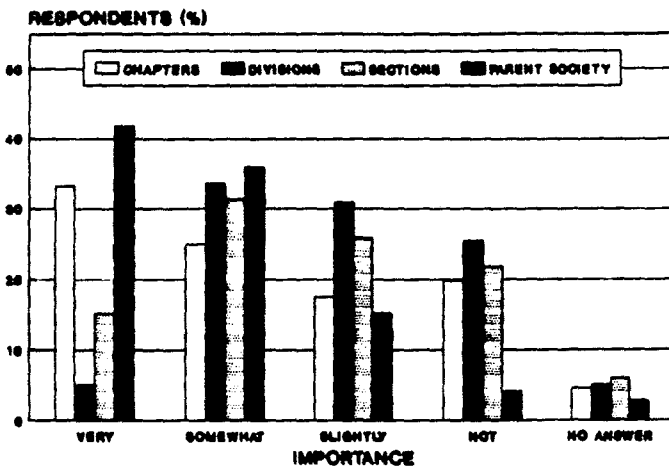


Figure 1

EFFECTIVENESS OF AFS PERSONNEL IN SERVING THE NEEDS OF CANADIAN MEMBERS

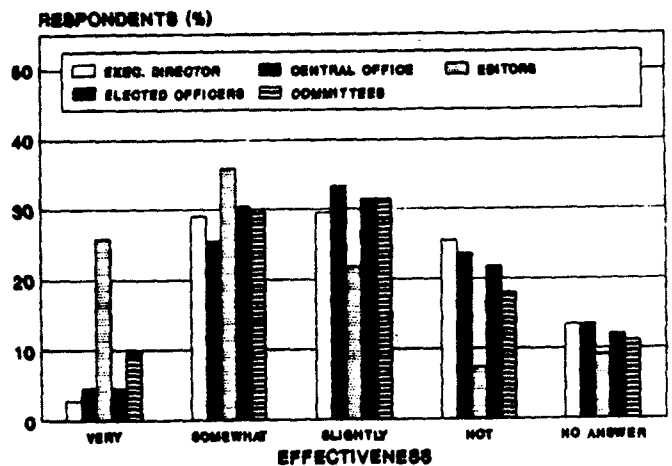
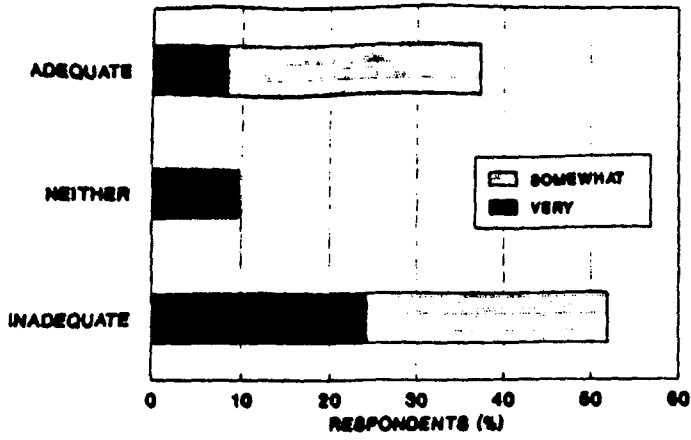
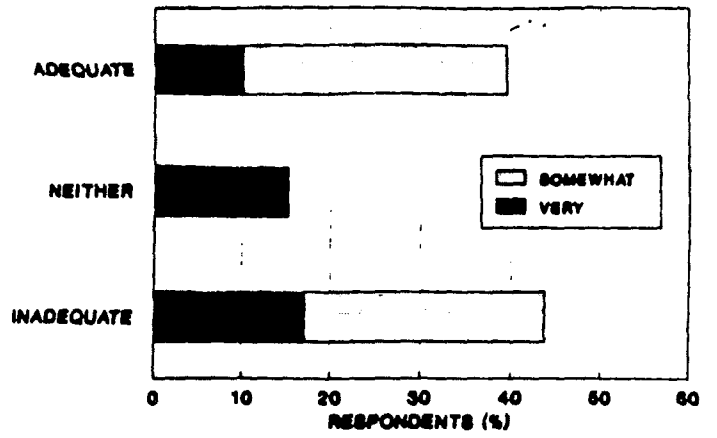


Figure 2

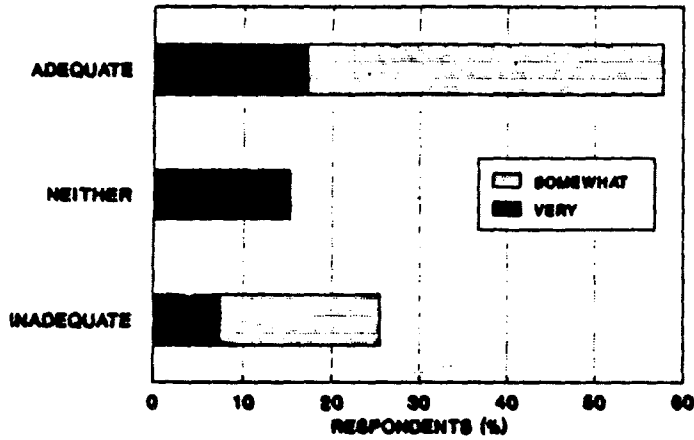
AFS PROMOTION OF CONSERVATION, DEVELOPMENT, AND WISE USE OF FISHERIES RESOURCES (IN CANADA)



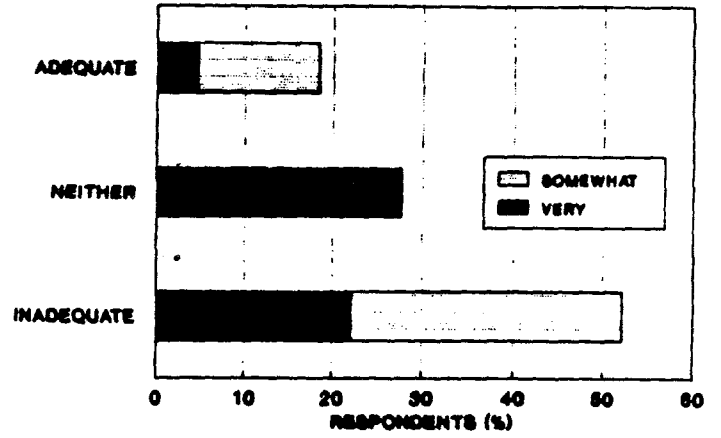
AFS PROMOTION OF DEVELOPMENT AND ADVANCEMENT OF FISHERIES SCIENCE AND PRACTICE (IN CANADA)



AFS INVOLVEMENT IN COLLATION AND DISSEMINATION OF INFORMATION ABOUT FISHERIES SCIENCE (IN CANADA)



AFS PROMOTION OF TEACHING OF FISHERIES SCIENCE AT CANADIAN COLLEGES AND UNIVERSITIES



AFS PROMOTION OF PROFESSIONAL DEVELOPMENT OF FISHERIES WORKERS (IN CANADA)

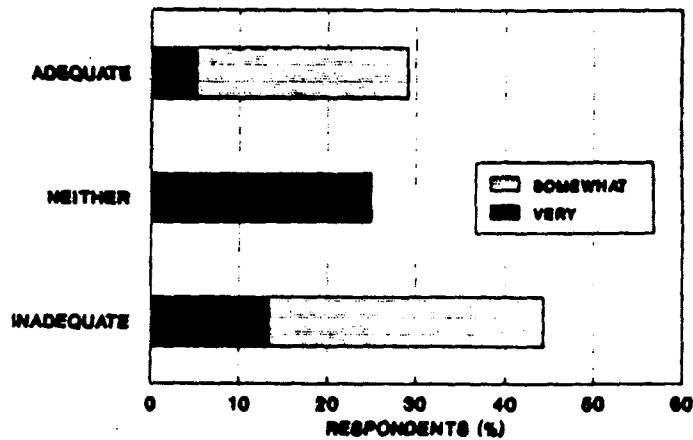


Figure 4

THE ADEQUACY OF AFS IN EXPRESSING ITS MISSION TO VARIOUS CANADIAN GROUPS

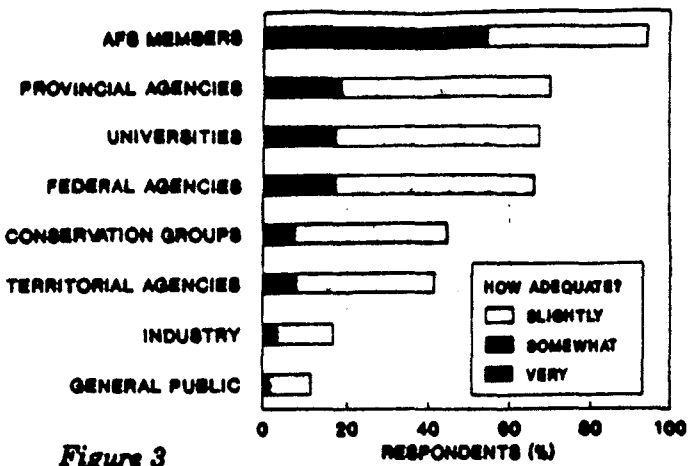


Figure 3

ACTIVITIES WHERE AFS INVOLVEMENT IS REQUIRED IN CANADA

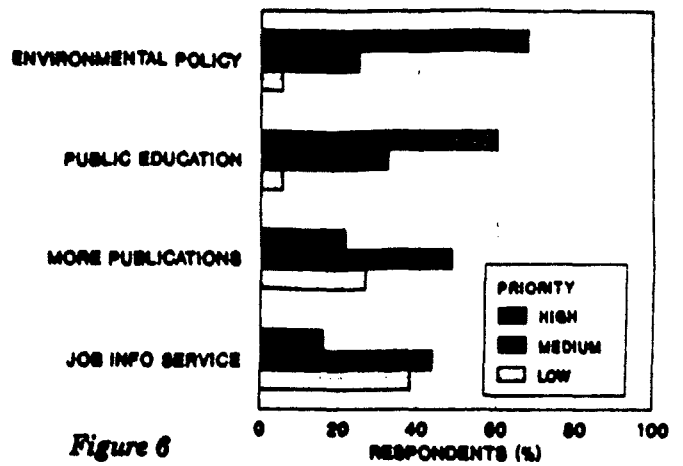


Figure 6

EMPHASIS REQUIRED ON AFS ACTIVITIES IN CANADA

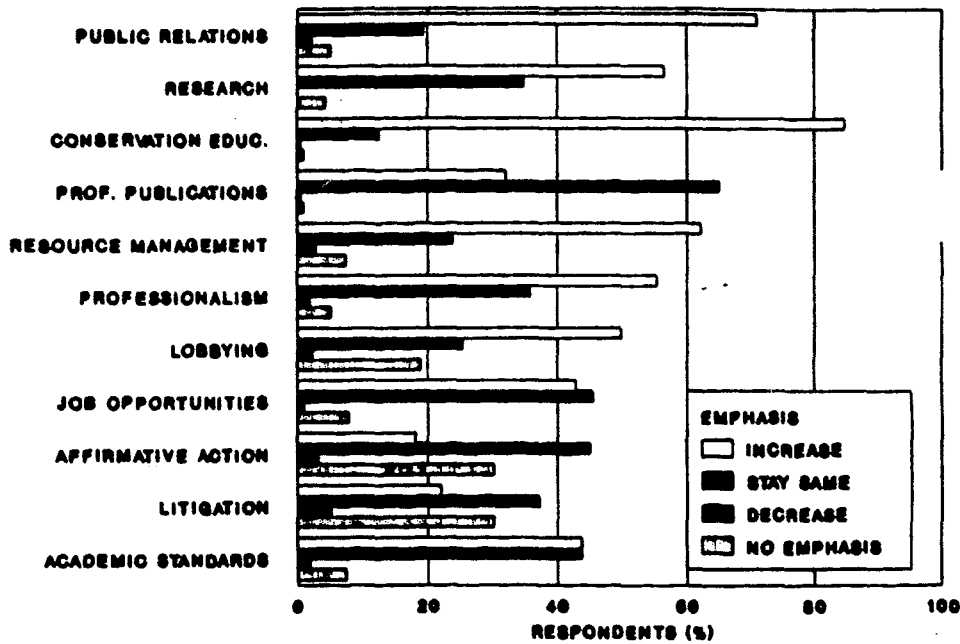


Figure 5

AREAS IN WHICH AFS SHOULD PLACE MOST EMPHASIS IN CANADA OVER NEXT FIVE YEARS

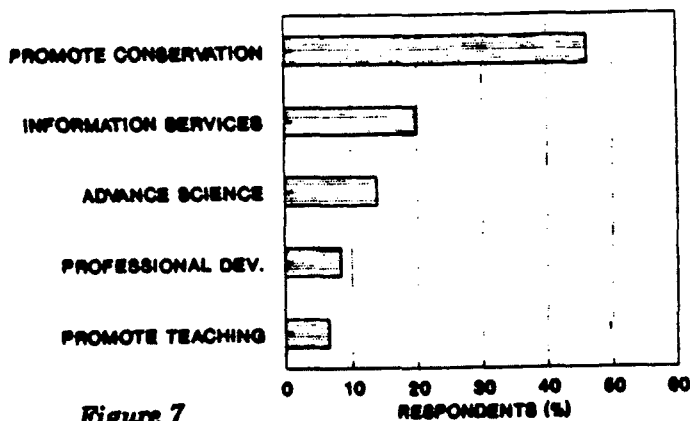


Figure 7

INFLUENCE OF AFS POLICY RESOLUTION ON GOVERNMENT RESOURCE MANAGERS AND PUBLIC DECISION MAKERS IN CANADA

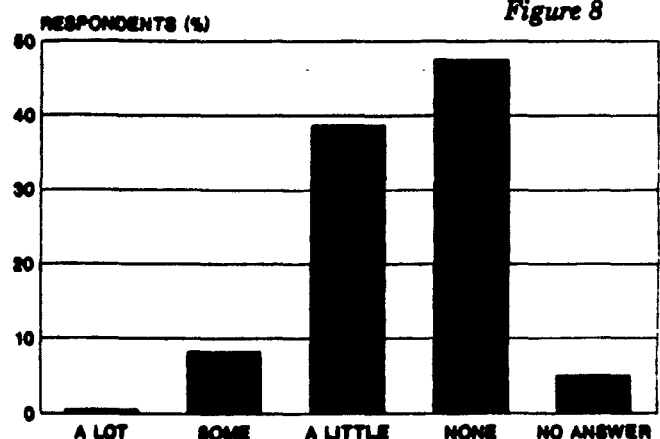


Figure 8

March 1990



**CALL FOR PAPERS / POSTERS
&
PRE-REGISTRATION
FOR THE
AMERICAN FISHERIES SOCIETY
NORTHWESTERN ONTARIO - MINNESOTA CHAPTERS
JOINT CONFERENCE / ANNUAL MEETINGS
MARCH 14 & 15, 1990
INTERNATIONAL FALLS / FORT FRANCIS**

The Annual Meeting of the Northwestern Ontario Chapter of the American Fisheries Society will be held jointly with the Minnesota Chapter .

In addition to the three special sessions listed below, there will also be three sessions with Contributed Papers plus a Poster Session. The Contributed Papers Sessions will examine:

1. **WALLEYE FISHERIES - COST EFFECTIVE MANAGEMENT AND STOCK ASSESSMENT**
2. **EXPERIMENTAL MANAGEMENT APPROACHES FOR FISHERIES IN MINNESOTA AND ONTARIO**
3. **GENERAL SUBJECTS (ANY FISHERIES, AQUATIC TOXICOLOGY, OR LIMNOLOGY SUBJECT)**

You are invited to prepare contributions in these subject areas. Anyone who would like to present a paper at the meeting should notify by January 15, 1990, the Program Chair,

Bev Ritchie, OMNR, Quetico-Mille Lacs FAU, Box 5000,
435 James St. S., Thunder Bay Ontario, P7C 5G6

A concise abstract and author information will be required later. Papers must be kept to fifteen minutes in length. Please note on your notice of intent if you would be willing to prepare a poster for the Poster Session in the event your paper is not selected for a formal presentation. There is a "Best Paper" and "Best Poster" based on peer evaluation of all papers presented .

SPECIAL NOTE TO INSTRUCTORS / PROFESSORS : We encourage papers by undergraduate students at the Minnesota Chapter Meeting. If any of your students have something to present, please let them know of this opportunity.

Tentative Program

Special Session 1: FISHERIES RESOURCES AND PUBLIC POLICY ISSUES

Dr. E. Mahoney, Michigan State University. Resource Marketing for Sportfish vs Commercial Fish with Reference to Underutilized Species.

Nilam Bedi, OMNR - Ontario Perspective

Mr. John Velin, Commissioner, Legislative Commission on Minnesota Future Resources.

Special Session 2: COST-EFFECTIVE SPORT FISHERY ASSESSMENT TECHNIQUES

Les Stramko, OMNR, Lake Erie FAU - Lake Erie Angler Diary Program, Comparison with Other Stock Assessment Methods.

Bruce Thacker, OMNR, Lake Superior Fisheries Unit - North Shore Angler Diary Program.

W. Lysack, Manitoba DNR - To be Announced

Special Session 3: BORDER WATER ISSUES

CONFERENCE LOCATION: HOLIDAY INN, INTERNATIONAL FALLS

NORTHWESTERN ONTARIO MEMBERS AND CANADAIN RESIDENTS ACCOMODATION:

**FORT FRANCIS ONTARIO
MARCH 13 & 14, CHECKOUT 15TH**

If you plan to attend the Conference / Annual Meeting, please complete the form below and return with registration deposit to:

Gord Johnson, Secratery Treasurer, NW Ontario Chapter AFS, Lake Superior Fisheries Unit,
Box 5000, 435 James St. S., Thunder Bay, Ontario, P7C 5G8

Please Return Registration Forms by January 31, 1990.

March 1990



**REGISTRATION: NORTHWESTERN ONTARIO - MINNESOTA AFS CHAPTERS
 JOINT CONFERENCE
 MARCH 14 & 15, 1990**

NAME: _____ **TELEPHONE:** _____

MAILING ADDRESS: _____

 _____ **POSTAL CODE:** _____

I plan to attend the conferece and have enclosed a deposit of \$50.00 Yes ___ No ___

(Banquet and Conference costs are expected to total about \$40.00 U.S.)

ACCOMMODATION: \$28.00 per night per person (double occupancy).

Please check nights when accomodation is required

Smoker ___ Nonsmoker ___

MARCH 13 _____

MARCH 14 _____

MARCH 15 _____

TOTAL: _____

I require transportation to and from the Conference Centre at Holiday Inn, International Falls (Fort Francis Accomodation)

YES ___ NO ___

Please Return To Gord Johnson, Lake Superior Fisheries Unit by January 31, 1990.



MEMBERSHIP INFORMATION



The Northwestern Ontario Chapter of the A.F.S. has been active for over nine years promoting the transfer of fisheries science among fisheries workers throughout Northwestern Ontario. The chapter publishes two Newsletters annually and hosts an annual business meeting and conference.

Inquiries about the chapter and its activities should be directed to **ALAN DEXTRASE**, President, c/o Ontario Ministry of Natural Resources, P.O. Box 448, Ignace, Ont., P0T 1T0. (tel. 807-934-2233)

Mail the following application form with dues to :

Gord Johnson
Secretary Treasurer
American Fisheries Society
Northwestern Ontario Chapter
c/o Ontario Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ont.
P7C 5G6

Membership Dues : \$10.00 annually (\$5.00 to parent society members)

MEMBERSHIP APPLICATION FORM

NAME _____

ADDRESS _____

CITY/TOWN _____

POSTAL CODE _____

TELEPHONE NUMBER _____

AFFILIATION _____

POSITION _____

DUES ENCLOSED _____