

NEWSLETTER

NORTHWESTERN ONTARIO CHAPTER
of the
American Fisheries Society



Vol. 5 No. 1



American Fisheries Society
Northwestern Ontario Chapter

President	Neville Ward, P.O. Box 5003, Red Lake, Ont.
President-Elect	Rick Borecky, Box 970, M.N.R., Nipigon,
Past-President	Dominic Baccante, Box 5000, M.N.R., T. Bay.
Secretary-Treasurer ..	Brian Krishka, Box 2089, M.N.R. T. Bay.
Volume 5(1)	December 1984

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PRESIDENT'S REPORT

This is the first newsletter for the 1984/85 season and my first attempt at a President's report. This follows our Chapter's annual conference, which judging from the feedback, was one of our most successful. It was one of the best fisheries conferences that I've attended. This is due to the excellent participation of all involved, especially the steering committee which began to plan the conference a year in advance. Thus, thanks go to Nick Baccante, Tom Adamchick, Walter Momot, Scott Watson and Doug Dodge.

Nick is busily putting the proceedings together (speakers were to have their papers to him by October 15th) and I'm putting together a summary for possible publication in Fisheries and the NOTO Trade Journal. In fact, Roger Liddle mentioned the conference in the last issue of the Tourist Outfitter (see his comments elsewhere in this issue). Art Holder, also sent a note to Pete Colby which stated, "By all accounts the meeting was an unqualified success in science transfer. Your staff and others are to be congratulated."

The conference had a substantial cash flow which Brian Krishka efficiently managed. Basically, the conference expenses were:

Meals and Accommodations	\$11,740.75
(55 full, 9 part-time participants)	
Typing/Photocopies	240.44
Group Photos	149.80
Social Bar & Permit	<u>174.71</u>
	\$12,305.70

This was offset by income as follows:

Conference Dues	\$10,873.00
Social Bar	<u>251.10</u>
	\$11,124.10

.....2

PRESIDENT'S REPORT - Continued

Hat sales, chapter dues and a deposit MNR had with Quetico Centre for the 1984 lake survey course which was cancelled, brought the chapter out of the red.

For the next year, I would like to see a more informative newsletter published and to maintain the quality of conferences we have sponsored. I believe the chapter's main role is to foster professionalism in fisheries managers by transferring "science" through conferences, newsletters, etc. and by encouraging certification and communication with other chapters. In fact, the North Central Division President-Elect, Tim Modde, has been invited to our conference next fall.

Our chapter is one of the fastest growing in the AFS and I would encourage members to join the parent society. I am on the membership committee for the NC Division, and thus have applications for joining. Give me a call at (807) 727-2253 or write to: P.O. Box 5003, Red Lake, Ontario POV 2M0.



*I STILL THINK HE EXAGGERATES THE SIZE
OF THE BLUEGILL IN THIS LAKE...*

3

NORTHWESTERN ONTARIO CHAPTER AFS
Annual Business Meeting
September 18, 1984

Chapter President Nick Baccante chaired the Annual Business Meeting. A quorum was present therefore the meeting proceeded as usual.

Secretary-Treasurer Brian Krishka read the minutes of the previous business meeting. Terry Marshall motioned to accept the minutes (seconded by Chris Brousseau).

Brian Krishka read the Treasurer's report which listed the total chapter assets as of September 18, 1984 of \$1,063.96. Rick Borecky motioned to accept the financial statement (seconded by Mark Sobchuk).

NEW BUSINESS

Nick Baccante brought the chapter up to date on the recent Parent Society name change resolution that was voted down by a 2 to 1 margin. The individuals that voted for a change were split evenly between the Fisheries Society and the North American Fisheries Society.

Nick Baccante informed the chapter that the weekly AFS diary would be available to individual members at a minimal cost.

Nick Baccante proposed the motion that chapter dues be increased to \$10.00 a year for non-parent society members and remain at \$5.00 a year for the parent society members. Terry Marshall motioned to accept the change (seconded by Rick Borecky). The resolution was then unanimously accepted by the chapter members present.

Neville Ward commented on improvements and changes to future newsletters and conferences. Neville felt the newsletter should act more as a medium for scientific transfer of information in the form of technical reports and pertinent scientific articles. Neville also emphasized the importance of parent society membership of all chapter members.

Chris Brousseau commented on the lack of response to the chapter from the Northern Region. He felt a strong newsletter would create more interest and participation from the north.

Nick Baccante requested proposals for future conferences. Areas of interest that were discussed are as follows:

- 1) Lake trout response to exploitation and habitat changes.
- 2) Management of oligotrophic lakes.
- 3) Logging procedures and practices and their effect on aquatic systems.

Nick requested all suggestions should be submitted to Neville Ward for consideration by the conference organization committee.

Elections

The nominees for President-Elect were Rick Borecky, Tom Mosindy and Scott Watson. Rick Borecky was elected President-Elect.

Brian Krishka agreed to continue on as Secretary-Treasurer for the upcoming year.

Tom Mosindy was appointed as Newsletter Editor and the following people were regional Newsletter representatives.

Ken Cullis - North Central Region MNR
 Dave Payne - Northern Region MNR
 Marcel Pellegrini - Northeastern Region MNR
 Mark Sobchuk - Northwestern Region MNR
 Jill Entwhistle - Lakehead Conservation Authority
 Jake Vanderwal - MOE
 Walter Momot - Lakehead University

Neville Ward was voted in as President by acclamation.

Chris Brousseau motioned to adjourn the meeting and Dave Payne seconded the motion.

Membership stood at 110 Sept. 18th with 20 new members and 10 lost.

Fish Oil Helps the Heart

A RECENT article in the *Chicago Tribune* indicates that new evidence has surfaced showing that fish oil can greatly reduce the level of cholesterol in the blood and help prevent formation of blood clots.

Dr. William E. Connor, head of the University of Oregon's clinical nutrition and atherosclerosis laboratory, conducted the research which indicated that fish oil isn't just a good replacement for high-cholesterol foods but actually lowers cholesterol levels.

After 10 days on salmon diets, normal subjects in Connor's experiments experienced an 11% decrease in cholesterol and a 33% drop in tryglicerides, another form of fat found in the blood.

Fish has long been recommended for reducing blood cholesterol levels; and, Connors said, there is new hope for preventing the development of coronary heart disease with rather simple dietary modifications, and of possibly reversing it once it has arisen with new drug treatments.

—Captain's Log.

THE LAST TWO surviving specimens of Michigan grayling were reportedly caught and killed in 1930 by fly-fishermen.

IN ORDER to remove the fishy odor from your hands, wash them with soap and water, rinse, and then wash them again with full-strength white vinegar. Wait a few minutes, and then repeat the process. After a final rinse in clear water, the odor should be gone.
 —International Oceanographic Foundation.

1983-84 Financial Statement

Balance on hand Sept. 1, 1983 \$ 757.28

Assets

Chapter dues	\$ 435.00	
1983 Conference	5,517.27	
Sales (hats, crests, shirts)	454.89	
Interest	<u>34.74</u>	
	\$6,441.90	<u>6,441.90</u>
		\$7,199.18

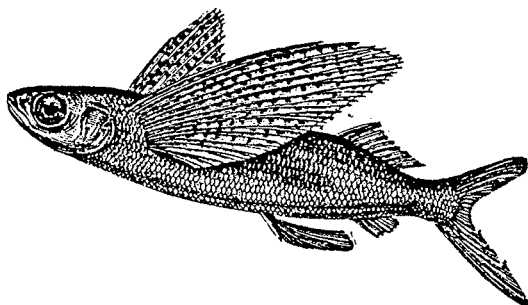
Liabilities

1983 Conference expenses	\$4,894.65	
1984 Conference deposit	990.00	
Past-president certificate	28.81	
Hats, shirts	796.10	
Office supplies	109.91	
Other (printing, permits)	<u>19.75</u>	
	\$6,839.22	<u>\$6,839.22</u>

Balance on hand Sept. 17, 1984 359.96

40 hats @ \$6 ea	240.00
24 crests @ \$2 ea	48.00
26 shirts @ \$16 ea	<u>416.00</u>

Total Assets \$1,063.96



1984 NW Ontario Chapter Conference Resolutions

(A) The membership voted 18 to 5 in favour of the following resolution put forward by Chris Brousseau and seconded by Nick Baccante:

"That the NWO Chapter of the AFS prepare an information package describing the state of the art of walleye stocking, including guidelines and recommendations where walleye stocking is a biologically based management alternative."

Chris recommended that the chapter president, Neville Ward, chair a sub-committee composed of at least one MNR "hatchery person" and one NOTO member to prepare a 3-4 page information package which should be published and distributed throughout the province (probably as a chapter publication).

Scott Watson has agreed to be the "hatchery person" but NOTO has not yet been approached to recommend a member. The chairperson prefers to wait until the conference proceedings are out to distill the facts presented in that document. Scott Watson also indicated that the CFIP guidelines for walleye stocking, produced by MNR's Fisheries Branch, would be a useful reference source as well.

(B) The membership voted 15 to 2 with 6 abstentions in favour of the following resolution put forward by Phil Ryan and seconded by Terry Marshall:

"That the NWO Chapter of the AFS establish an issues and priorities group to determine what, when, and how particular interests/issues are to be addressed by the chapter."

TOWARDS IDENTIFICATION OF ISSUES AND PRIORITIES

At the last meeting, I moved a resolution concerning the establishment of an issues and priorities group. There was very little time available and the resolution passed with a minimum of discussion. There were three items that led me to this action.

The temporal juxtaposition of my resolution and the 1984 MCW was not coincidence. In 1984 we tried something new, departing from our previous introspection. I have to call our 1984 meeting an unqualified success. We established a dialogue with an interested user group, provided and received information and at least verbally stated a position on some specific walleye management techniques. Should we move further in this direction? I had a long chat with Walter Momot one night and learned of his experiences in an AFS chapter in Ohio. In brief, his chapter performed an important function in attempting to conserve the very limited aquatic resources within their jurisdiction. They often worked in association with an umbrella group as they educated the public and politicians concerning environmental impacts. The chapter has involved itself in such activities in the past, (i.e. the Neebing-McIntyre diversion in the Thunder Bay area and the effect of forest harvest activities on aquatic habitat). What other issues are out there that we should be concerned with? How should we react to them?

The third item that led me to move my resolution, was the amount of debate (=interest?) concerning the topic for the 1985 MCW. I think that we started out with a topic - "lake-trout" - and broadened it to "oligotrophic lakes". This is a very broad topic ($0.1 < MEI < 6.6$). If we have particular interests in this area, they were not well identified in this discussion.

Our MCW's may be developing a pattern. In 1981 we had a general contributed papers session. The 1982-84 MCW's were proposed by groups who proffered a topic that they were prepared to deliver, and it was accepted by the general membership. This year we don't have an individual (such as Murray Lancaster), or group (1984, 1983) who have a specific axe to grind. We are leaning towards a contributed papers session. This is not bad in itself. There are many areas of interest that are not important enough in themselves to warrant setting a conference theme. Perhaps it is appropriate that every 4 - 5 years, we have a general MCW.

The bottom line is that we have only one kick at the cat annually. MCW's require a lot of work from our executive and they require help from the membership in the development of the current theme. Let's make sure that we spend our efforts wisely by preparing an inventory of our interests, prioritizing them and doing some long term planning of when and how particular interests/issues are to be addressed.

Trial Balloons

I'd like to float a few of my interests past you.

Reservoirs

Lake of the Woods, Lac Seul, the rest of the English - Wabigoon system, Lac Shebandowan and Des Milles Lacs, Eagle Lake, Lake Nipigon, Lake St. Joseph...

- What is planned in NW Ontario or ongoing (Marmion Lake) in the way of diversions and reservoirs? Will small hydro-electric projects catch on? Southern Ontario is years ahead of us in water use. What can we learn from their experiences?

- Can reservoirs have "chronic effects"? (Consider the reduction in quality of South Indian Lake Whitefish.)

(We can learn a lot from the South Indian Lake experience.)

- Should NWOAFS have an official position?

Implications of Water Colour

- Many of the water courses in this part of Ontario have high colour levels due to humic materials - a distinctive feature.

- Organics serve to complex toxic species of aluminium which have been implicated in the mortality of fish and other biota during the process of cultural acidification.

- Colour, with its effect on transparency and in situ light levels may shape the nature of the primary producers in food webs (i.e. phytoplankton:macrophytes; how much? fish species composition etc.). I'd like to know more.

Strategies for Harvest Regulations in Open Access Fisheries

- Are there options to the control of seasons and limits?

Effects of Regional Aforestation

- We tend to think of single lakes and their catchments (if we think past the water:land interface).

- I define regional aforestation as some level of forest removal at a scale between a catchment area and a tertiary level watershed, probably part of an FMA.

- What is the effect of changing from conifers to deciduous species?

- We must anticipate that at this scale, nutrient loading is affected in terms of timing and magnitude, particularly that due to spring pollen.
- We must anticipate that the nature, if not amount, of allochthonous material entering lakes should increase.
- To pursue this, deciduous leaves are a better forage for crayfish than conifer needles, which are not really used directly.
- Should we expect an increase in the productivity of littoral benthos?
- What are the implications for fish? (I am sure that Walter Momot can speak to this.)

Effects of Regional Herbicide Spraying

- At our meeting, Walter noted that some of the agents in herbicides are growth stimulants for plants at sub-lethal concentrations.
- Spraying is performed in reforestation projects to suppress growth of broadleaf plants (including trees).
- This reverses the posited change described in the previous item.

Atikokan Generating Station

Should NWOAFS have a position regarding this environmental impact?

- Should this be a class position regarding other sources of acids and metals (eg. Red Lake area mines) in our jurisdiction?

Lake Trout

- Neville Ward tried to get support for a lake trout habitat resolution at the North Central Division level. Should we pick up this torch again and carry it further in developing a more broadly based resolution regarding the fragility of this resource.

I had a longer list but cut it short. Some of these items may be dismissed as "academic" or assigned low priority. I would like to see these and other items, consciously dismissed or prioritized. Perhaps they should be debated within our Thunder Bay area group of the chapter.

I have mentioned the term "position" or position paper frequently. Neville's resolution concerning lake trout was a position that he sought support for. The information paper concerning stocking and slot size management (check focus) can be construed as a position favouring this strategy, unless it contains an opinion stating the contrary.

I propose the following course of action:

- (1) Members submit articles directly to the newsletter, outlining areas of interest and recommending the type and level of treatment that they feel is required.
- (2) Members submit comments to the newsletter as items (#1) are printed.
- (3) The full list is updated, presentations (2-5 minutes) are made at the 1985 MCW. The items are debated and prioritized, and levels of treatment are determined, scheduled and assigned.

I look forward to this dialogue and thank those members who supported this resolution.

P. Ryan

November 19, 1984.

ACCOLADES AND BRICKBATS

Now that the dust has settled following our fourth annual conference, it may be interesting to note that the success of this event has already garnered some response in the outside world. It is reassuring to know that our chapter does not operate in a vacuum.

For your information, we are including the following correspondence:

- an excerpt from the "Executive Director's Desk" by Roger Liddle in the October 1984 issue of the Tourist Outfitter

"President Darrell, Fisheries Committee Chairman Rod Munford, and I spent three days in mid September at the American Fisheries Society Convention held at Quetico Centre, Atikokan. I must say we were all impressed at the very positive attitude and response to the tourism concerns vis a vis the walleye fisheries management. The members of this society are for the most part fisheries biologists that are employed by the Ontario Ministry of Natural Resources, along with other interested and involved parties. Some of the more interesting topics of discussion revolved around various management techniques tried in surrounding jurisdictions. A Wisconsin representative showed that through studies in his state the slot size harvest program brought significant positive results in some lakes, but in other lakes the results were negative. Ontario is currently using a slot size harvest program on lakes along the Detour Lake Road, Cochrane area. A Manitoba spokesman discussed the aspects of trophy fishing with maximum size harvest limits as requested by many of the lodge operators in northern Manitoba. In Manitoba's case, it appears both the tourist industry and clientele want and readily accept lower harvests in order to maintain a healthy trophy fishing experience. Interesting to note that this same harvest method is recommended in NOTO's report on Tourism North of the 50th, prepared for the Royal Commission on the Northern Environment a few years ago."

- a letter from an interested party which resulted in the following chain reaction:

2/Oct./84

Ste. 5, 226 Scott St.
Fort Frances, Ontario
P7A 1G7

Dear Cliff:

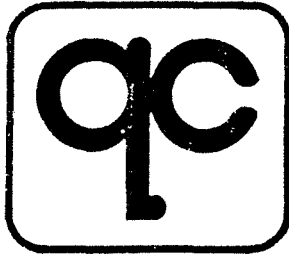
I read the article about the meeting of the American Fisheries Society, which ran in the Fort Frances Times (and the Current), and it appeared to me that one large section of the population, interested in both fisheries and tourism was eliminated from the guest list (Pg. 4 of Current).

Anglers have a large impact on fishing and while you might argue that NOTO could be seen as representing their interests, most tourist operators, either by accident or design, cater to non-residents and therefore would have difficulty presenting the view of the resident (Canadian) angler.

Anglers, at the same time, are interested in the tourist industry and the impact it has on fishing in Canadian lakes by Canadians. I am not implying a negative interest, by the above, for most anglers can see the economic advantage to a good tourist industry but I do propose that the interest of the most people might have been better served had a representative from the Ontario Federation of Anglers and Hunters been in attendance.

Regards.

G. A. McTaggart



Quetico Centre is a residential continuing education centre engaged in shaping the future by helping people anticipate, manage and cope constructively with change.

November 6, 1984

Mr. G.A. McTaggart
Suite 5
226 Scott Street
FORT FRANCES, Ontario
P7A 1G7

Dear Gord

Nice to know that you continue to keep a sharp eye on all the things we do here at Quetico. Where would we be without people like you who will speak up about what they believe.

The American Fisheries Society sponsored the conference here in late September. They did all the organizing and planning and used our facility. We provided the facility.

They were very pleased with the outcomes of the meeting. The opportunity for tourism industry people to talk over mutual concerns with fish managers was welcomed by everyone. Most people did seem to leave with a broadened perspective on the whole situation.

There was one limitation on what was otherwise a successful program. The representatives who were invited from the Ontario Federation of Anglers and Hunters did not attend.

I am sure the organizers agree with you that resident sport fishermen should have been represented at the program. Possibly you should write to them to encourage them to become more active participants in the problem solving and planning aspects of fish management.

Thanks again for your watchful eye.

Best wishes

Yours very truly

Cliff McIntosh
President

cmm/lb

American Fisheries Society

ORGANIZED 1870 | INCORPORATED 1910

BOX 454, RED LAKE, ONTARIO P0V 2M0

November 27, 1984

Mr. G. A. McTaggart
Suite 5
226 Scott Street
Fort Frances, Ontario
P7A 1G7

Dear Mr. McTaggart,

Cliff McIntosh forwarded your letter to the Northwestern Ontario Chapter of the American Fisheries Society regarding your concern with the absence of anglers at our annual conference. Contrary to what Cliff had indicated, no resident sport fishermen were invited to attend the conference. The conference focused on "Walleye and Tourism - Future Management Strategies". The tourist operators, including some the N.O.T.O. Executive, were invited to the conference as speakers to present the tourism industry viewpoint in managing walleye stocks.

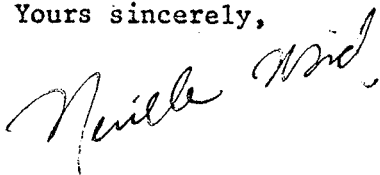
Since this was the first time that I, as program chairman, and the chapter executive had organized a conference involving managers and a user group, the conference would need to be evaluated in how well fisheries science was transferred amongst managers and users. I believe we succeeded, assisted no doubt by the atmosphere at Quetico. The chapter will undoubtedly have other conferences with other users, such as commercial fishermen, natives, resident anglers and perhaps politicians, all of whom have a different perspective on how fisheries should be allocated and managed.

The reason this year's conference focused on tourism was that tourist operators in NW Ontario are actively involved in walleye management, through their organizations such as NOTO (which is a member of the NWO Chapter) and individual tourist operators acting as sponsors for Community Fisheries Involvement Programs (CFIP) and Fisheries Special Employment Programs (FSEP). I know of only one game and fish club (Dryden) that has taken advantage of these programs to improve fisheries habitat or collect fisheries data. I would encourage game and fish clubs to get involved in these projects by contacting the local district office of the Ministry of Natural Resources.

In addition, the Ministry of Natural Resources is setting up a series of fisheries seminars with the Ontario Federation of Anglers and Hunters across the province. Ours is slated for Thunder Bay in April 1985. You can contact Jim Atkinson, Regional Fisheries Biologist at 475-1231 for further information.

I trust this clarifies why this year's conference dealt only with tourist operator involvement in managing walleye populations.

Yours sincerely,



Neville Ward
President

- 12th ANNUAL WORKSHOP
- November 5 - 8, 1985
- THUNDER BAY, Ontario

*** REMINDER ***

CALL FOR PAPERS AND WORKSHOP DISCUSSION TOPICS

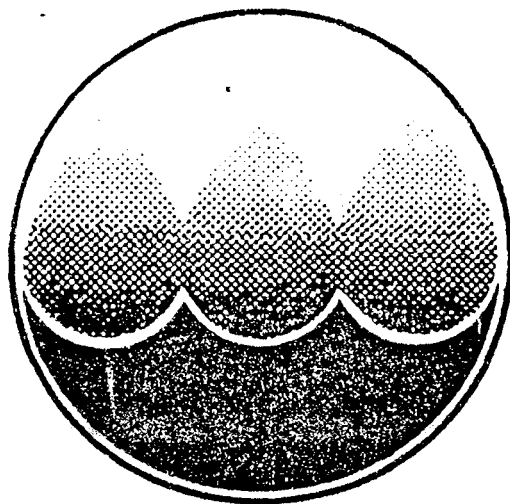
You are invited to participate in this Workshop to be held in Thunder Bay in conjunction with the Water Quality Laboratory in Duluth. A field trip to the Duluth Laboratory has been arranged for November 5. A special registration sheet for this will be available in the first mailing.

The deadline for abstracts of contributions to the 12th Workshop is June 30th on the forms available in the first mailing.

If you require any additional information, please feel free to contact the following.

J. Howard McCormick,
Environmental Protection Agency
Duluth, MN 55804
(218) 727-6692

George Ozburn,
Alasdair Smith,
Lakehead University,
Thunder Bay, Ontario. P7B 5E1
(807) 345-2121



AQUATIC
TOXICITY
WORKSHOP

PARENT SOCIETY NEWSNotes from the AFS Diary:

(A weekly report to the AFS Executive Committee (EXCOM), including Chapter Presidents, from the office of the Director, Carl Sullivan).

10 August 1984

- we're still the
American Fisheries
Society.

THE AFS NAME CHANGE INITIATIVE failed by a decisive margin of two to one. Thirty percent of eligible voters participated. While the no-change proponents handily won out, those who favoured a change were split almost evenly between North American Fisheries Society and The Fisheries Society.

Leading World Importers
FIVE COUNTRIES—Japan, the United States, France, the United Kingdom, and Germany (FRG)—accounted for nearly 60% of the \$15.3 billion worth of fishery products imported worldwide during 1980. Japan was the most significant importer, and purchased over \$3.2 billion, worth of fishery products.

—*American Fisheries Society.*

STAN MOBERLY HAS BEEN ELECTED new AFS Second Vice President in a spirited race with Dr. Terry Haines. Moberly from Juneau, Alaska and Haines from Orono, Maine had both served as presidents of their Divisions and both have filled countless other important volunteer AFS committee assignments. Coincidentally, they are both past winners of the AFS Distinguished Service Award. Moberly will be installed as Second Vice President at the August 14 annual business meeting.

Notes from the AFS Diary (cont):

7 September 1984

- M.N.R. has a policy paper out on its role with fishing derbies.

THE IMPACT OF FISHING CONTESTS on fisheries resources is being studied by the AFS Fisheries Management Section. One of the "tools" being used is a concise one page questionnaire which has been mailed to the directors of the 50 state conservation agencies. Anyone with information relevant to the subject should write to Lee C. Redmond, President, Fisheries Management Section, P.O. Box 180, Jefferson City, MO 65102.

- very similar to the session on walleye stocking at this year's NW Ontario Chapter's Annual Conference. Should be a popular and worthwhile session to attend.

PREPARATIONS FOR THE ROLE OF FISH CULTURE IN THE FISHERY MANAGEMENT SYMPOSIUM seem remarkably advanced and well organized. The symposium will be held at the Lodge of the Four Seasons, Lake Ozark, Missouri, March 31 - April 3, 1985. The Program Committee reports 106 contributing papers, some 20 of which could end up as poster presentations. Steering Committee Chairman is Del Graff and members are Dave McDaniel, Ed Miller, Scott Campbell, Shyrl Hood, Ray Hubley, Lee Redmond, David Whitehurst, Chuck Hicks, Joe Dillard and Harry Westers. Send your constructive suggestions and questions to any of the above. NOTE: The AFS Executive Committee will hold its semiannual meeting at the same location on March 29 and 30.

Notes from the AFS Diary (cont):

- the STOCS symposium (1982) pointed out the importance of genetics in fisheries management.

INTEREST IN ORGANIZING AN AFS FISH GENETICS SECTION has been displayed by Dr. William K. Hershberger of the University of Washington School of Fisheries. He has requested and has been sent sample bylaws, a sample petition and appropriate language from the AFS Bylaws which pertain to the formation of new sections. If you are interested, write Dr. Hershberger at the School of Fisheries, WH-10, University of Washington, Seattle, Washington 99195 or call (206) 543-4267.

12 October 1984

- another good reason to join the parent society. Contact Neville Ward at (807) 727-2253 for an application form.

PLANS FOR A PROFESSIONAL AQUATIC SCIENTIST EMPLOYMENT REGISTRY are being developed and will be submitted to the EXCOM for approval in the near future. The program, to be called PASER, will be an exclusive employment assistance program available only to AFS members in good standing. We hope the cost of the program can be covered by employers, so that it can be offered as a free service to AFS members. Additional details will be provided in the near future.

Two-Tiered Certification

The AFS Executive Committee adopted a new tiered certification program for fisheries scientists to become effective on January 1, 1985. Applications received in the AFS Office prior to that date will be processed under the old guidelines.

The new program will consist of two tiers as follows:

- I. **ASSOCIATE FISHERIES SCIENTIST** - Applicants must meet the academic requirements prescribed in the Certification Application (see Minimum Course Standard on page headed **GUIDELINES FOR PROFESSIONAL CERTIFICATION**).
- II. **CERTIFIED FISHERIES SCIENTIST** - In addition to the academic requirements, the minimum degree and experience requirements will be as follows:
 1. A Bachelor of Science or a Bachelor of Arts Degree plus five years of full-time qualifying experience (as described in the Certification Application on page headed **GUIDELINES FOR PROFESSIONAL CERTIFICATION**).
 - OR -
 2. A Master of Science or Master of Arts Degree plus four years of full-time qualifying experience.
 - OR -
 3. A Doctor of Philosophy Degree plus two years of full-time qualifying experience.

The Associate Fisheries Scientist level can be maintained for a maximum of ten years, at which time applicants must meet requirements for Certified Fisheries Scientist (Tier II) in order to retain any AFS certification.

The NW Ontario Chapter should assist in the certification of its members. Neville Ward has discussed this with Janice Hughes (past president of the AFS), including some sort of certification for fisheries technicians who also have a professional responsibility to manage fisheries.

The AFS Environmental Concerns Committee

The following letter (dated Nov. 6, 1984) was sent to all chapter presidents from Lynn Starnes and Gordon Haugen, Co-chairmen of the Environmental Concerns Committee:

"The American Fisheries Society, Environmental Concerns Committee traditionally canvasses all subunits of the Society for nominations of issues of Society and membership concern. The Environmental Concerns Committee not only solicits but encourages nomination of issues for which the Society should develop position statements. It is hoped that person(s) nominating issues will be willing to assist in the development of the position statement. If this presents a problem, the ECC will assist in finding a core group to develop that statement. Persons with issues which they would like to see the Society/ECC address should contact Ms. Lynn B. Starnes.

Society positions have been developed on the following issues:

- Human Population Growth and Technology-Fisheries 4(2)
- Nonpoint Source Pollution-Fisheries 4(2)
- Sediment-Fisheries 4(2)
- Cumulative Effects of Small Modifications to Habitat-Fisheries 4(2)
- Toxic Substances-Fisheries 4(4)
- Acid Precipitation-Fisheries 5(6)
- Coping with Point Source Discharges-Fisheries 5(6)
- Effects of River and Stream Flow Alteration on Fishery Resources-Fisheries 7(2)
- Effects of Surface Mining on Aquatic Resources in North America-Fisheries 8(6)
- Construction and Operation of Oil and Gas Pipelines -Fisheries 9(3)
- Beverage Container Legislation-Fisheries 9(3)
- Protection of Threatened and Endangered Aquatic Species -Fisheries

We received several excellent suggestions from last year's survey. The ECC recognizes that there are environmental issues which remain unaddressed by position statements. However, the Committee also believes that the members must decide those issues to be addressed by the Society.

Feel free to contact me with any questions or suggestions that your subunit may have on these AFS position statements. Please forward all nominations of environmental issues for position statements directly to me."

NWO Chapter members that wish to submit environmental issues to this committee can do so by sending them to Neville Ward, P.O. Box 454, Red Lake, Ontario P0V 2M0. However, Phil Ryan's conference resolution (which is expanded on in this issue) is also asking members to identify issues or topics that the chapter should address in future conferences.

We can do both. I have already used the AFS Position Statement on "Construction and Operation of Oil and Gas Pipelines" to outline fisheries concerns to North/Central Gas regarding their pipeline extension to Red Lake. Perhaps there are other issues, such as the Garrison Diversion or the U.S. daytripper (pork and beaners) exploitation stress on Ontario fisheries that should be sent to the parent society.

Neville Ward

The group photos have arrived for the Walleye and Tourism Conference held in conjunction with our Annual Business Meeting at Quetico Centre. The following members have requested prints at \$4.28 each:

R. Biette	I. Mettam
K. Cederwall	P. Richard
G. Coveyduck	J. Roos
L. Godwin	B. Sandilands
E. Iwachewski	H. Schraeder
A. Laine	S. Watson
V. Macins	

Please claim your photos as soon as possible by sending payment to:

Brian Krishka
 Ministry of Natural Resources
 Box 2089
 Thunder Bay, Ontario
 P7B 5E7

I would also like to welcome Lillian Anderson, Dana Kinsman, Iain Mettam and James Rusak as the newest members to our Chapter. They are all working for the M.N.R. in Kenora.

AFS SYMPOSIA/WORKSHOP REGISTER1985

Jan. 15-18

Northeast Pacific Pink and Chum Salmon Workshop
 Sponsor:
 Location: The Harrison Hotel, Harrison Hot Springs, British Columbia.
 Contact: B. G. Shepherd, Fisheries and Oceans
 1090 West Pender Street, Vancouver, B.C. V6E 2P1

March 31 -
 April 3

Symposium on the Role of Fish Culture in Fisheries Management.
 Sponsor: Fish Culture Section, AFS, Fisheries Management Section, AFS
 Location: Lodge of the Four Seasons, Lake Ozark, Missouri.
 Contact: Delano Graff, 450 Robinson Lake, Bellefonte, Pennsylvania, 16823.

April 30 -
 May 3

Small Hydropower and Fisheries
 Sponsor: Bio-Engineering Section, AFS; Western Division, AFS
 Location: Ramada Renaissance Hotel, Denver, Colorado.
 Contact: Forrest Olson, CH2M Hill, 1500 - 114th Avenue, S.E., Bellevue, Washington 98004

June 9 - 11

International Symposium on Age and Growth of Fish
 Sponsor:
 Location: Hotel Fort Des Moines, Des Moines, Iowa
 Contact: Robert C. Summerfelt, Dept of Animal Ecology, Iowa State University, Ames, Iowa 50011

June 23 - 28

Second International Symposium on Genetics in Aquaculture.
 Sponsor:
 Location: University of California, Davis, CA.
 Contact: Graham A. E. Gall, Dept of Animal Science, University of California, Davis, CA 95616

July 30 -
 Aug. 2

Fourth Symposium on Coastal and Ocean Management
 Sponsor:
 Location: Baltimore Hilton, Baltimore, Maryland.
 Contact: Orville T. Magoon, P.O. Box 26062, San Francisco, California 94126.

Aug. 4 - 9

Third International Symposium on Regulated Streams
 Sponsor:
 Location:
 Contact:

Sept. 2 - 5

International Symposium on the Aquaculture of Carp and Related Species
 Sponsor:
 Location: France
 Contact: J. Marcel, Department of Hydrobiology, I.N.R.A., 78350 Jouy En Josas, France.

AFS SYMPOSIA/WORKSHOP REGISTER1985(cont)

- Sept. 8 Theory and Application of Fishery Assessment Models
Sponsor: Marine Fisheries Section, AFS
Location: Sun Valley, Idaho-- 1985 AFS ANNUAL MEETING
Contact: Vidar Wespestad, Northwest and Alaska Fisheries Center, 7600 Sandpoint Way N.E., Rim Cl5700, Seattle, Washington.
- Sept. 15 - 20 International Symposium on Acidic Precipitation (Muskoka Conference '85)
Sponsor:
Location: Lake Rosseau, Muskoka, Ontario
Contact: J. Walter Giles, 112 St. Clair Ave., West, Suite 203, Toronto, Ontario M4V 2Y3

1986

- March 9 - 13 Common Strategies of Anadromous and Catadromus Fishes
Sponsor: Northeastern Division, AFS
Location: Park Plaza Hotel, Boston, MA.
Contact: Mike Dadswell, Fisheries and Oceans, Biological Station, St. Andrews, N.B. EOG 2X0

PARASITES IN MARLIN AND TUNA

DR. TOM DEARDORFF (from the Department of Tropical Medicine, Leahi Hospital) was at the 1981 Hawaiian International Billfish Tournament as part of an ongoing study of the parasites found in tuna and marlin. Again no adult or larval parasitic worms were found in the muscle (the eatable portion of the fish), although Dr. Deardorff reports finding a previously undiscovered species of nematode (parasitic round-worm) in the stomachs of short-bill spearfish, *ahi* (yellowfin tuna), and *mahimahi* (dolphin fish).

In addition, Dr. Deardorff found several blue marlin stomachs with ulcers. In every fish, every ulcer contained an adult parasitic worm.

Whether the worm caused the ulcer, or came to occupy ulcers that were caused by mechanical damage to the marlin's stomach, still remains a mystery.

It appears that these worms do not pose any health hazards to humans or any significant problems to the marlin. However, Dr. Deardorff reports that marlin caught in the Gulf of Mexico often have stomachs so full of worms that the worms migrate, in large numbers, out of the mouth of a marlin after it is boated. Although the worms are not a health hazard even in these large numbers, many anglers consider fish carrying large number of worms unfit to eat. Furthermore, charter boat captains in the Gulf feel their business is hurt by this situation.—*Pacific Gamefish Research News*.

CHAPTER NEWSLAKEHEAD UNIVERSITY1. New Personnel

Dr. Helve Hobe is the new fish physiologist at Lakehead University. She received her Ph.D. from the University of Calgary. Her Ph.D. was on the effects of pH on the physiology of white suckers. We welcome Dr. Hobe and look forward to her future research contributions in this area and the strengthening of the aquatic biology curriculum at Lakehead University.

Dr. Momot has three new graduate students. Miss Helen Ball is a new graduate student studying Lake Trout in Squeers Lake supported by the Quetico Mille Lacs Assessment Unit and in part, NSERC funds from the University. Mr. Arnold Laine is also a new graduate student studying northern pike biology in Squeers Lake and its interaction with Lake Trout. Mr. Kevin Trimble is supported in part by the Canadian National Sportsmen's Research Fund and studying the biology of the forage fish base at Henderson Lake.

2. Completion of Projects

Miss Bev Ritchie is completing her M.Sc. (Dec. 1984) on the comparative ecology of the yellow perch in Savanne and Henderson Lakes. She has been supported by an Ontario M.N.R. Lottery Fund Grant and Walleye Research Unit. Mr. Dave Reid is completing his M.Sc. on the effects of exploitation on walleye in Henderson Lake. His project is supported by the Canadian National Sportsmen's Fund.

We hope to continue our research on the long term effects of exploitation of walleye in Henderson Lake in cooperation with the Walleye Research Unit and look forward to our cooperative research venture on Squeers Lake with the Quetico-Mille Lacs Assessment Unit. We are also continuing our research on the long term effects of harvest on crayfish supported by NSERC.

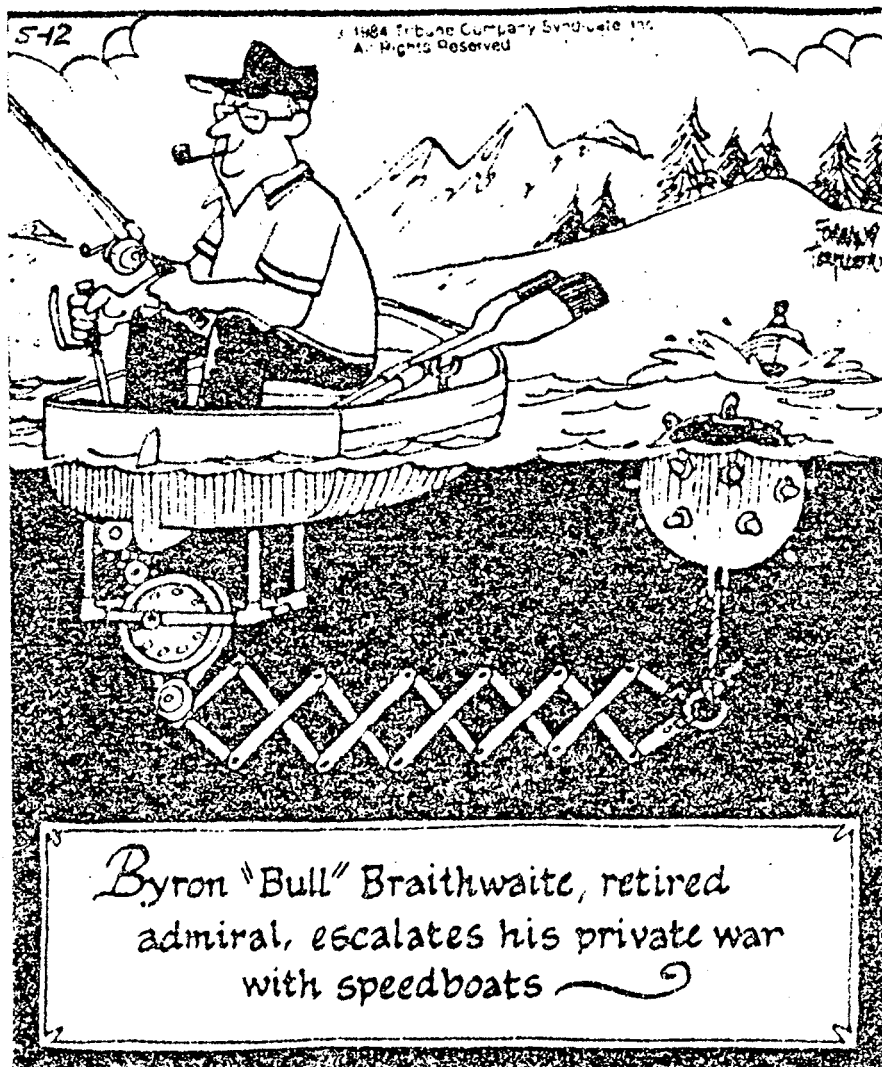
Mr. Murray Lankester has been supervising the following students. Mr. Kim Armstrong will soon finish and defend his thesis work on the biology of Proteocephalus ambloplitis in walleye on Lake of the Woods. Mr. Alan Dextrase is completing final experiments and beginning to write up his studies of Cystidicola sp. in lake whitefish.

Dr. George Ozburn. Dr. Ozburn and his associates are currently embarking on Part II of a study of multiple toxicity of chlorinated compounds. The compounds involved in this part are chlorinated ethylenes and chlorinated ethanes. Again, as in Part I, both flag fish and trout are to be used. Initial exposures to these chemicals will commence towards the end of November.

Papers Published 1983 - 84

- Jones, P. D. and W. T. Momot. 1983. The bioenergetics of Orconectes virilis in two Michigan pot hole lakes. In Goldman, C. R. Ed., Freshwater Crayfish V.:192-209. University of California, Davis. Avi Publishing Co., Wesport, Conn. U.S.A.
- Momot, W. T. and R. Romaine. 1983. Use of a seine to detect stunted crayfish populations: a preliminary report. Proceedings of the World Mariculture Society. Vol. 13:384-390.
- Lindeman, D. and W. T. Momot. 1983. Production ecology of Hyalalela azteca in a northern Ontario lake. Can. J. Zoology 61(9):2051-2059.
- Momot, W. T. 1984. Crayfish production: a reflection of community energetics. Journal of Crustacean Biology 4(1):35-54.
- Ozburn, G., A. Smith, D. Orr, C. Mallard, A. Bharath. 1983. Aquatic toxicity of multiple organic compounds. Proc. Tech. Trans. Conf. #4, Toronto: pp452-496.

The Sporting Life



Byron "Bull" Braithwaite, retired
admiral, escalates his private war
with speedboats ~

Northern Region OMNRLake Trout Tracked by Sonic Transmitters

Larder Lake is a 3706 ha. cold water lake located in the eastern portion of Kirkland Lake District near the Quebec border. Over-exploitation, nutrient enrichment and siltation of spawning habitat have contributed to a decline in the lake trout population in recent years. Prior to 1984, Fish and Wildlife staff have been unable to document the location of substantial numbers of spawning fish which precludes most rehabilitation efforts (ie. cleaning of spawning shoals, stocking of yearlings and/or eyed eggs). This fall, with the assistance of Volunteers from the Kirkland Lake Game and Fish Protective Association and local sportsmen, sonic transmitters were attached to four lake trout. Movement patterns of these fish were then monitored over a period of three weeks in an effort to locate spawning shoals and document their use and relative importance to lake trout.

Preliminary results appear inconclusive as one transmitter malfunctioned and the other three fish initially stayed in the area tagged and then moved into deeper water, indicating a cessation of spawning activity. It is hoped that next year tagging can be accomplished earlier and the fish monitored throughout the spawning period.

Bob Walroth, Kirkland Lake District

NORTHWESTERN REGION O.M.N.R.

The Lake of the Woods F.A.U. was involved in a number of programs during the 1984 field season including a lake-wide creel survey and regular fisheries monitoring activities on Shoal Lake and the North/Central sectors of Lake of the Woods.

In cooperation with several commercial fishermen, we evaluated the use of smaller mesh gill nets to selectively harvest sauger in the southern portion of the lake. Although this species constitutes a large portion of the fish biomass, it cannot be caught effectively in larger commercial gear (4¼" mesh), owing to its small average size. We also focused some of our attention on the status of lake trout populations in Clearwater Bay, west of Kenora. We identified several spawning shoals for future improvement and tagged a large sample of mature fish. In conjunction with M.O.E., we also measured water quality parameters which might limit summer lake trout habitat in this area.

In October we were presented with a bowfin (Amia calva) which was caught by C. Boucha, a local commercial fisherman, on his fishing lot just north of the Aulneau Peninsula. This is the first reported incidence of this species in Lake of the Woods and from the Winnipeg-Nelson River drainage. The fish which weighed 1.2 kg was likely transported to the lake as a small fish in a minnow bucket and inadvertently released.



The Northwestern Ontario Chapter of the A.F.S. has been active for over five years promoting the transfer of fisheries science among fisheries workers throughout North-western Ontario. It is the first entirely Canadian chapter of this international organization whose main objective is the promotion of scientific research and enlightened management of aquatic resources.

The Chapter publishes three Newsletters annually. It also hosts several lectures on various fisheries related topics and conducts an annual business meeting and conference.

Inquiries about the chapter and its activities should be directed to Neville Ward, President, c/o Ontario Ministry of Natural Resources, P.O. Box 5003, Red Lake, Ontario. POV 2M0 or telephone (807) 727-2253.

MEMBERSHIP IN THE NORTHWESTERN ONTARIO CHAPTER OF THE AMERICAN FISHERIES SOCIETY IS AVAILABLE FOR AN ANNUAL FEE OF \$5.00.

ALL PROSPECTIVE-MEMBERS SHOULD COMPLETE THE FOLLOWING AND MAIL IT ALONG WITH THEIR DUES TO:

Brian Krishka
 Secretary-Treasurer
 Northwestern Ontario Chapter
 c/o Ontario Ministry of Natural Resources
 P.O. Box 2089
 Thunder Bay, Ontario P7B 5E7

APPLICATION FOR MEMBERSHIP IN THE NWO CHAPTER A.F.S.	
Name:
Address
City/Town
Postal Code
Affiliation:
Position:

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The editor wishes to thank the following people who contributed materials to this issue or assisted in its typing and distribution:

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