

# NEWSLETTER

NORTHWESTERN ONTARIO CHAPTER  
of the  
American Fisheries Society

R. BORECKY OMNR  
Lake Nipigon FAU  
Box 120  
Beardmore, Ont. P0T 1G0

Pre-Conference Update

Management of Oligotrophic Lakes

September 17-20, 1985

Quetico Centre



Vol. 5

No. 3

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

CONTENTS

Volume 5(3)

September 1985

**ANNOUNCEMENTS**

**PAGE**

Pre-conference update .....	01
Feedback: Issues and priorities .....	04

Parent Society News

Notes from the A.F.S. Diary .....	08
A letter from the President-Elect, A.F.S. ....	12

Chapter News

Northern Region Sturgeon Management Workshop .....	17
Kesagami Lake Trophy Fish Proposal .....	18
Fisheries Habitat Improvement in Kenora District .....	19
Fort Frances 1985 Fisheries Program .....	21
Walleye Incubation Facility Established on Rainy Lake .....	23
Lac Seul Fisheries Assessment Project:1985 .....	26
Update from Dryden .....	27
Contributors .....	27

The Newsletter of the Northwestern Ontario Chapter of the American Fisheries Society is printed periodically three times annually and sent to its members free of charge.

Membership in the Chapter may be obtained by remitting \$5.00 to the Secretary-Treasurer. Chapter members are urged to consider joining the parent organization.

-

**Pre-conference update:**

Plans for our 5th Annual Chapter-Workshop-Meeting which is scheduled for September 17-20, 1985 at Quetico Centre have been finalized. Total cost of the conference, including registration, meals and lodging at the centre will be \$230.00 per person or \$70.00 per day, plus the registration fee. Registration is set for 1100 hours CDT (Thunder Bay is one hour ahead) on Tuesday, September 17th. Formal sessions will commence at 1400 hours following lunch.

Quetico Centre is located 180 km west of Thunder Bay and 30 km east of Atikokan on Hwy. 633, approximately 5 km north of the junction with Hwy. 11.

From all indications, this year's conference promises to be a stimulating and rewarding experience for all participants. Chapter members are reminded to have comments or briefs ready for the Issues and Priorities Session which is planned for the annual business meeting.

NW ONTARIO CHAPTER AFS CONFERENCE AGENDA

MANAGEMENT OF OLIGOTROPHIC LAKES

SEPTEMBER 17 - 20, 1985, QUETICO CENTRE

September 17, 1985

1400-1700 hours

Introduction - Chairman Neville Ward

Update on border waters management pilot study, NW Region *NWU Rep*  
~~Peter Waring~~

OFAH's perspective on management of oligotrophic lakes OFAH rep

Coffee

Application of commercial quota's in Nipigon District Ross Chessell

The effects of angling pressure on lake trout in Whitefish Bay, Lake of the Woods Val Macins

September 18, 1985

0900-1200 hours

Lake Superior winter sport fishery for native lake trout, Thunder Bay Ken Cullis

Managing lake trout strains and genetics Scott Watson

Coffee

Rehabilitation of Lake Superior lake trout through stocking Jim Atkinson

Using lake trout as indicators of ecosystem health Dick Ryder

Estimating community structure using lake trout yields Charlie Olver

Lunch *Chris not attending*

1330-1700 hours

Lake trout ageing problems - management implications John Casselman

Eastern Region lake trout management  
approach - status of the resource,  
management directions, harvest

Paul Bewick

Lake trout fisheries in the  
Haliburton area

Dave Loftus

Coffee

Lake trout populations in Squeers Lake

Helen Ball

Management options for small lakes  
in Atikokan

Tom Maher

Application of MMA's on oligotrophic  
waters in NC Region

Doug Howell

September 19, 1985

0900-1200 hours

Application of MMA's on oligotrophic  
waters in NW Region

Neville Ward

Lake trout management strategies  
in Minnesota.

Gary Siesennop

Comparative analysis of fish communities  
in relation to environmental conditions,  
characteristics and stress in NW Ontario.

Phil Ryan

Lunch

1330-1700 hours NW Ontario Chapter Business Meeting

2100-2400 hours Social - Cash Bar (beside the pool)

September 20, 1985

0900-1200 hours Completion of Chapter Business

Closing remarks

4

Feedback: Issues and Priorities

**Sent to:**

Neville Ward  
President  
NW Ontario Chapter AFS

Re: Towards Identification of Issues and Priorities

I would like to offer my thoughts on your recent article in Vol. 5 No. 2 of the Newsletter.

As you know, the Fisheries Policy of the AFS outlines many objectives which may be summarized as follows:

1. to promote scientific management of both sport and commercial fisheries
2. to promote a high quality aquatic environment
3. to promote research and integrated management principles.

As a chapter we have determined to achieve these objectives through the following activities:

1. annual conference and business meeting
2. chapter Newsletter
3. lecture series and social events.

I believe we have been doing a good job and have been providing a worthwhile service to our membership. We attract our share of press in Parent Society correspondence and are considered a strong and active group.

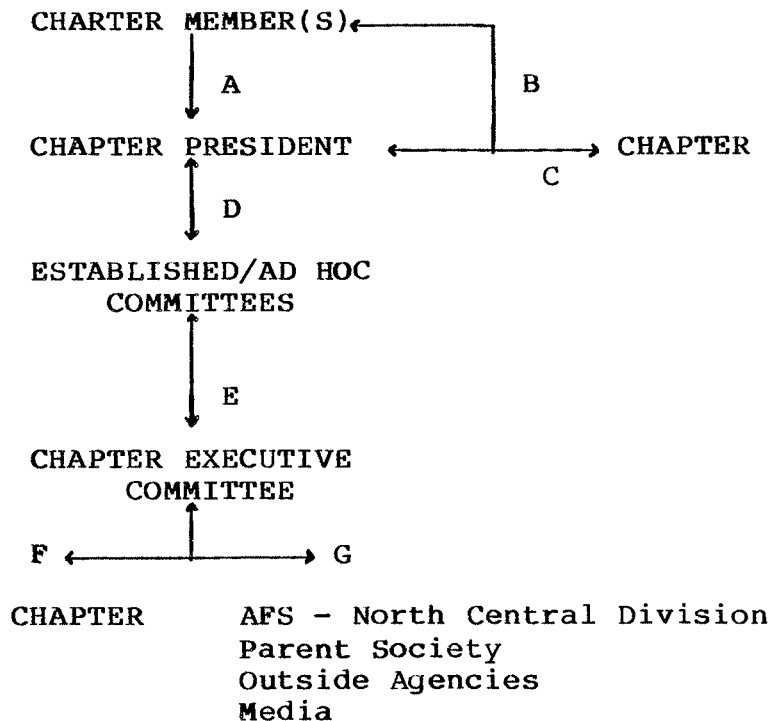
I believe most chapter members are aware of issues that are important in a Northwestern Ontario context (we have designed conferences to deal specifically with some of them). The following is by no means a comprehensive list:

- tourism value of sport fisheries
- detrimental effects of timber harvesting on fisheries resources
- protection of lake trout populations
- the viability of inland lake commercial fisheries
- native fisheries
- fishery values in specific localities or to specific users (outfitters, charter boats)
- the role of plans in fishery resource development.

These issues are quite broad in scope and therein lies, I believe, the rationale behind Phil Ryan's resolution to strike an issues and priorities committee. In short, we require a mechanism which recognizes issues and then develops a position which will represent the interests of the chapter as a whole. Your own efforts in developing the lake trout resolution represent what I see as the precursor of such a mechanism for obtaining chapter support for an individual member's principle concern.

I would like to describe my plan for such a mechanism, called the Issues Response System (IRS). You will see that it relies on initial input by individual chapter members followed by increasing involvement of the chapter as a whole. This system is shown below:

**The Issues Response System**



The Issues Response System:

A: A chapter member or group of members advises the chapter president about a development in a specific issue. Depending on the urgency of the issue, the activation of the system may be through direct contact with the president or via a letter to the editor of the newsletter (the preferred approach as it would alert the membership at large).

The president would use his/her mandate to assess the nature of the issue and assign an appropriate priority. Once assessed the following activities would ensue:

B: The originator(s) would be advised as to the issue's priority.

C: Depending on the time frame involved (urgency), the president would prepare a statement for the next issue of the Newsletter.

D: The president would strike a committee to investigate the chapter's position on the issue forwarded. These committees would be convened on an ad hoc basis and the president would use his/her discretion in formally challenging key chapter members to get together and develop a resolution in the form of a position paper. A call date would be determined recognizing member's commitments to other responsibilities.

E: This committee would respond to the chapter's executive committee. This step of the system represents the rate-determining step. The other not so obvious concern at this level is the high probability of conflict of interest between the key members in the ad hoc committee and information used to prepare or contained in their report.



Finally, the chapter at large would be informed about the resolution and allowed suitable time to repond to the rationale behind it (F). The chapter's position would then be made public (G).

Refinement of the IRS will occur as it evolves through use. Clearly, it requires a great deal of enthusiasm to drive it but I'm confident that chapter members will arise to occasions as they present themselves.

The setting up of the IRS will involve some work. I propose that the chapter directory be reviewed and that members be canvassed to establish their individual interests and availability to serve on ad hoc committees. Such information could be reported in a catalogue and made available to the membership at large. Whenever a chapter member is drawn into problem solving roles, these cases should be addressed in the Newsletter. These case studies would advertise cooperation between chapter members and further unify the membership.

My second recommendation to facilitate the initiation of the IRS is to incorporate a letter to the editor feature in the Newsletter. Not only could issues be addressed formally but this aspect of the Newsletter could lead to general requests for information by individual members.

The bottom line then is to establish an organizational infrastructure with a role for each chapter member. I believe key members of the chapter (these will vary with the development of different issues) should be utilized for the benefit of all chapter members and fisheries management in general.

I would be pleased to discuss this note with you at your convenience and hope that it may be used to bring Phil's ideas to fruition.

Yours sincerely

Hal Schraeder

Parent Society News

Notes from the AFS Diary:

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

**THE NEW YORK AFS CHAPTER HAS PUBLISHED A COMPREHENSIVE MEMBERSHIP DIRECTORY** providing names, addresses, phone numbers, and major fields of interest of 292 members. A check of the membership disclosed just half of the members are also members of the Parent Society. This is not an unusual situation, particularly among our older chapters, and it points to a continuing Society problem. We hope that "opportunity" will be a better description than "problem" and Membership Secretary Lisa Davison is contacting Society leaders to develop strategy for communication with the 145 potential members.

**AFS SECTION MEMBERSHIPS AS OF May 31** were as follows. All should show a small increase in the next few months as final 1985 renewals arrive and as new members are enlisted. For comparison, we are including figures as of 31 December 1984.

	<u>1985</u>	<u>1984</u>
Fish Culture:	905	1,049
Fish Health:	431	464
Fisheries Administrations:	166	165
Fishery Educators:	254	276
Water Quality:	481	576
Early Life History:	339	349
Marine Fisheries:	448	502
Exotic Fish:	180	212
Fisheries Management:	949	1,017
Bio-Engineering:	244	256
Fisheries Economics:	123	169
	<u>4,520</u>	<u>5,035</u>

**THE EXOTIC FISH SECTION** will soon become the **INTRODUCED FISH SECTION** as directed by its members and Executive Committee. It was felt that many of the species of interest to the Section were not exotic and thus **INTRODUCED** is a more apt description.

**BELOW-COST TIMBER SALES** were discussed in June 5 testimony before the House Subcommittee on Forests, Family Farms, and Energy. After consulting with knowledgeable members, I wrote testimony to develop the following four points:

1. Virtually every timber sale and subsequent harvest and road construction has some adverse impacts for fisheries resources.
2. The value of the fisheries resources impacted by timber sales is often very great and can be far greater than the value of the timber.
3. The cost of fishing values lost and opportunities foregone has not been considered in future timber sale cost/benefit analyses done by the FS.
4. In order to achieve a favorable cost/benefit analysis, administrators may be tempted to reduce the environmental constraints or mitigation measures designed to protect fish and fish habitat.

**THE 1985 SPRING MEETING OF THE AFS EXECUTIVE COMMITTEE** was held at Lake Ozark, Missouri on March 30 and 31. The meeting was followed by the April 1-3 "Symposium on the Role of Fish Culture in Fishery Management."

The 2-day meeting ran from 8:00 am to 5:30 pm on Saturday the 30th and from 8:00 am to 4:50 pm adjournment on Sunday the 31st. The following is an appended list of important actions taken by the EXCOM during their two days of deliberations:

1. In response to the widely-felt need for a system of publishing AFS symposia and conference proceedings, instructed the Publications Overview Committee in consultation with the editors, to develop and recommend a policy governing the publication of groups of related papers and explore the need for creating a publication series to accommodate papers from subunit symposia and workshops.
2. Expressed support of the concept of creating an AFS Headquarters/Division/Chapter/Member phone tree for purposes of quick communication and action motivation.
3. Gave AFS endorsement to the autumn 1986 Large River Symposium being planned by Ontario Ministry of Natural Resources biologists, and authorized \$500 in funding support.
4. Gave unanimous "straw vote" endorsement of AFS cooperation with SESAME, which is an aquatic resource data software review program organized and administered by North Carolina State University.
5. Approved the bylaws of the AFS Computer Users Section, noting that the full membership would be asked to give final approval at the Sun Valley Annual Meeting. The new Section will emphasize computer services to all AFS Divisions, Sections, and Chapters. Section membership is open to all AFS members.

6. Directed that the Fish Photo Committee be asked to develop a specific budget for the production and maintenance of a series of taxonomic slides of the Fishes of North America and the cost of making sets of such slides available for sale.
7. Asked the Youth Education Committee to investigate possible AFS and Youth Education Committee support for, and participation in Project Wild, particularly in matters related to fisheries issues.
8. Voted to ammend AFS Bylaws to provide for Chapter sponsors (businesses, organizations, or individuals) who make a monetary contribution in excess of the prevailing rate of annual AFS dues to support Chapter activities. No rights or privileges are to be accorded to individuals or organizations in this category.
9. Voted narrow approval of a proposal to authorize Chapters to create an Associate category for fisheries professionals and others who seek some affiliation with the Chapter without joining AFS. Associates will not have any of the rights and privileges of regular Society members except that they may participate in all Chapter activities and they may serve on, though they may not chair, Chapter committees. Final apporval of the Chapter Associates provision must receive approval of the AFS membership.

10. Directed that President Platts appoint an ad hoc committee to implement the Chapter Associate proposal by presenting the pros and cons of the plan to AFS members prior to a referendum on the issue.
11. Approved a \$1.00 increase in 1986 dues from \$35 to \$36 for regular members and from \$17.50 to \$18.00 for Student and Retired Members.
12. Authorized 1986 increases in the number of pages to be published in AFS journals. They are as follows:
  - Transaction from 800 to 900
  - NAJFM from 400 to 600
  - PFC from 224 to 300
  - FISHERIES from 288 to 360

**A Letter from the President-Elect, AFS:**

July 15, 1985

Mr. Neville Ward  
President  
Northwestern Ontario Chapter  
American Fisheries Society  
Ont. Ministry of Natural Res.  
Red Lake District  
P. O. Box 5003  
Hwy. 105  
Red Lake, Ontario  
POV 2MO

Dear Neville:

In September 1985 I will become President of the American Fisheries society and am anticipating this event with considerable excitement. I believe the gains we can make for the fisheries profession during my term are deeply rooted in the strength of each Chapter, its members, and the Executive Committee. The

importance of this Chapter-Excom link cannot be overemphasized. You have a direct (voting) voice in Society affairs through your Divisional representative, and can also speak on your Chapter's behalf at Executive Committee meetings. In addition, both committee chairpersons and members have considerable input on specific national issues.

In the next 1-2 months I will be appointing AFS committees for 1985/86 and am actively seeking hard-working, dependable individuals who wish to be of service to AFS. This is a golden opportunity for you or members of your chapter to become involved in Society affairs at the national level and to give your chapter an additional voice. There are undoubtedly deserving and enthusiastic individuals in your chapter, including yourself, who would be particularly effective in a special assignment. Please let me know if you or your colleagues desire further involvement. The choice of activities is broad. A brief description of the standing committees appears in the AFS Constitution. A list of sessional and ad hoc committees is attached. (see below ed.)

Please respond no later than 30 August.

I look forward to hearing from you and meeting you in Sun Valley. I also look forward to an exciting, productive involvement with you and your Chapter in the coming year.

With best wishes.

Sincerely

Johanna M. Reinhart  
President-Elect, AFS

**List of AFS Sessional and Ad Hoc Committees:**

**AFS Standing Committees**

**Arrangements**

(open only to those working in the host state or province, usually employed by host agency)

**Board of Professional Certification**

(Membership restricted according to AFS Bylaws)

**Editorial Board(s)**

(Membership restricted, appointed by editors)

**Environmental Concerns**

**Mail Ballot Tally**

**Membership**

**Names of Aquatic Invertebrates**

(Membership restricted, recent addition to list of standing Committees)

**Names of Fishes**

(Membership restricted to those with intimate knowledge of systematics of fishes.)

**Native Peoples' Fisheries**

(Recent addition to list of Standing Committees)

**Nominating**

**Program**

**Resolutions**

**Time and Place**

**Sessional Committees**

**Acid Precipitation**

**Award of Excellence**

**Budget Review**

(Membership restricted)

**Carp**

(Committee members carried over from 1984)

**Commercial Advertisement**

**Endangered Species**

**Equal Opportunities**

**Internationalism**



**Liaison with Scientific Societies**

**Membership Concerns**

**National Fishing Week**

**Poster and Student Paper Awards**

**Professionalism of AFS**

**Publication Awards**

**Publication Overview**

**Raffle for John Skinner Memorial Fund**

**Youth Education**

**Ad Hoc Committees**

**Federal Fisheries Responsibilities**

(Membership carried over from 1984; restricted)

**Fish Photo (Collection)**

**Policies and Procedures Manual\***

(Committee will draft a manual of policies guiding AFS operations and detail role and responsibilities of subunits and officers)

**Subunit Relations\***

(Committee may be rolled into Membership concerns; will recommend mechanism for transmitting membership concerns to other subunits and headquarters and recommend protocol for resolution of problems. Communications problems will also be considered if existing ad hoc committee has not dealt adequately with these.)

Other ad hoc committees will be created later in the year, some of which will deal with specialized problems and have restricted membership.

**\*New Committees**

# American Fisheries Society

ORGANIZED 1870 | INCORPORATED 1970

July 26, 1985

Dr. Johanna M. Reinhart  
President-Elect AFS  
Fisheries & Oceans  
Scientific Information and Publications  
Branch  
Ottawa, Ontario  
K1A 0E6

Dear Johanna,

Thanks for your letter of July 15th, 1985 asking if I or any members of the NW Ontario Chapter would be interested in serving on an AFS committee. I have taken the liberty of putting your letter into our summer newsletter which is sent to all of our members. I have asked those who are members of the parent society to respond directly to you if they wish to be of service to AFS. I would have liked to discuss chapter members' involvement in the parent society at our next annual meeting (September 17-20, 1985), unfortunately your respond date of August 30th precludes this.

As for myself, I had indicated to Carl Sullivan last year that I would be interested in advancing professionalism amongst NW Ontario Chapter members including professional certification. I plan to pursue this during my term as past-president (beginning after this September's annual meeting). It may assist me in my task if I was a member of the "Professionalism of AFS" sessional committee. I would therefore be willing to serve on that committee.

At the present time, being the only Canadian chapter of the AFS, we share your enthusiasm for a productive relationship with the parent society during your term as president.

Yours sincerely,



Neville Ward  
President  
NW Ontario Chapter AFS  
Ministry of Natural Resources  
Box 5003  
Red Lake, Ontario POV 2M0

NW/as

cc: ~~Tom Mosindy, Newsletter editor, Kenora~~  
Rick Borecky, Pres-elect, Beardmore

Chapter News

Northern Region Sturgeon Management Workshop

The social acceptance of lake sturgeon has evolved in recent years. It has gone from being scorned by commercial fishermen, destroying their nets, pitch-forked out of lakes and rivers onto the shore to rot, a fish unfit for human consumption to become known as the "King of Fishes" and the "Fish of Kings" and now commands one of the highest prices for its flesh and eggs than any other fish in the province. This increase in popularity has also resulted in declines in populations everywhere. The lake sturgeon is extremely unproductive as it matures late, spawns irregularly, and is slow growing.

In response to an increasing demand on a limited resource, the Northern Region of the Ontario Ministry of Natural Resources is holding a Sturgeon Management Workshop in Timmins in January, 1986. The Region has collected reams of biological data on this species in our large northern rivers and plans to assimilate the material and design management guidelines for both sport and commercial fisheries. We have to seriously consider new management techniques as present management practices are not doing the job.

If you would like more information on the workshop, please contact **Chris Brousseau** at Cochrane Regional Office (705-272-7038).

KESAGAMI LAKE TROPHY FISH PROPOSAL

Kesagami Lake, located within Kesagami Lake Wilderness Park in Cochrane District, represents an important fishery resource. The lake was the site of an active commercial fishery between 1958 and 1966. A commercial outpost camp has been located on the lake since 1967. This site has recently changed tenure and a large capacity, quality lodge is now being built. While Kesagami Lake is a large lake known for a trophy pike population, the fishery is by no means inexhaustible. The proposed Kesagami Lake fisheries management objective is: **TO MAINTAIN KESAGAMI LAKE AS A HIGH QUALITY TROPHY LAKE FOR NORTHERN PIKE AND, TO A LESSER EXTENT, WALLEYE.**

A fisheries assessment and creel census programme conducted during the spring and summer of 1984 revealed information on the characteristics of the walleye and northern pike populations. Proposed regulations are based on evaluations of this information. It is recommended that a protected slot-length limit of 41-51 cm be put on walleye and 71-86 cm on northern pike with a limit of one northern pike above 86 cm. Under a slot-length limit, intermediate-sized fish which contribute the bulk of the reproductive capability would be protected, while anglers fishing for food would harvest the smaller fish. A limit of one is placed on the number of "trophy" pike above the slot-length limit as these fish are slow growing, relatively old, and relatively few. This also promotes the trophy fishing and catch-and-release concepts.

These new regulations should both protect the reproductive capabilities of walleye and northern pike, and aid in the creation and promotion of a tourist lake managed for a trophy fishery. These proposals have been met favourably by the tourist outfitter involved and by a small sample of creeled anglers. It is anticipated that the new regulations will be in effect in the near future.

Chris Brousseau

--

**FISHERIES HABITAT IMPROVEMENT IS**  
**BIG BUSINESS IN KENORA DISTRICT**

Kenora District Fish and Wildlife report that they have been very active over the past couple of years with CFIP. Seven projects have been approved to date and others are in the initial stages of assessment to see what can be done to assist the fishery.

All Kenora projects have been walleye spawning bed improvements. These have mostly involved the clearing of debris from known or suspected spawning creeks and the addition of several tons of clean rock cobble. Tourist camp owners, cottage associations and the local fish and game club have all been involved in one or more rehabilitation projects.

On Longbow Lake, the traditional approach to improving an existing spawning area in a creek or river couldn't be done because such sites did not exist. However, walleye do survive and reproduce in the lake as shoal spawners. Upon examination, suitable shoals appeared to be limited so it was decided to expand upon existing areas and build entirely new ones.

In all, three shoals were enlarged while two new ones were built by trucking out tons of rock cobble on ice roads. Three of the areas are on windswept points, one in a narrows and one in the end of a shallow, weedy bay. To prevent the rock from sinking into soft substrate in the shallow bay, the rock was placed on top of a large industrial rubber matt. On average, the five shoals measured 65 m long by 3.5 m wide, with the rock cobble piled to a thickness of slightly more than 0.5 m. The Longbow Lake project required use of front end loaders, a five ton truck, a skidder and a truck equipped for snowplowing. The total cost of the project which included purchase of the rock and equipment rental, came to \$15,000.

Shoal construction is presently being undertaken via barge on Dogtooth Lake, another CFIP project. Three sites have been chosen for improvements to walleye spawning areas, all in creeks or in the lake where there is considerable current.

Kenora District was also successful in obtaining \$18,000 of ADM funds for fisheries habitat work. Two technicians have been hired and their job has been to provide assistance to CFIP proponents and use available Junior Ranger and Fire manpower to rehabilitate degraded spawning areas on inland lakes not likely to be targeted by CFIP.

Kenora District feels that spawning habitat rehabilitation and enhancement is sound resource management, and hopes to see improved fisheries in the near future.

**Bruce Ranta**

FORT FRANCES 1985 FISHERIES PROGRAM

This has been a busy year again for Fort Frances District Fish and Wildlife staff. A roving creel survey, based on non-uniform probability sampling (Malvestuto method), is being conducted on the Ontario portion of Rainy Lake for the third consecutive year. From May 18th to September 30th, three technicians and one Conservation Officer will be collecting harvest and angling pressure information, as well as biological data for walleye, northern pike, smallmouth bass and black crappie.

In addition, this survey will continue to provide data which represents angler use and accomodation characteristics on Rainy Lake. This information will be used to assess the effect of the Crown land Recreation program initiated in 1984, and the new Border Waters Angler Validation Tag requirement initiated this past spring. All data has been entered to date on an Apple III computer program, and initial indications are that harvest and pressure has declined from the previous two years; however, weather conditions this summer have been less conducive to fishing than they were in 1983 and 1984.

One lake survey crew has completed 14 lakes for a total area of 3,462 hectares. A detailed study was also conducted on Loonhaunt Lake and included the establishment of 20 index

...continued

netting sites. Complaints from local tourist outfitters of a declining walleye fishery initiated this additional study.

Electrofishing will be conducted on Rainy Lake from August 26 to September 6, with the Northwestern Region's new Smith Root boat. Additional sites will be established on the North Arm of the lake to provide good baseline data of YoY abundance and community structure prior to stocking of walleye fingerlings.

An access point creel survey is now being carried out on Scattergood Lake with the assistance of an Experience '85 student and Junior Rangers. This lake is a sanctuary lake trout lake with a closed angling season from September 1 to July 31 each year. In early July, 200 lake trout were tagged under a scientific collector's permit using live capture techniques (angling, trapnets and gill nets). The recapture of marked fish will provide information on movement patterns, growth rates, exploitation rates, mortality, survival and population size in this unique lake. It will also allow managers to validate age interpretations based on the use of scales, fin rays and otoliths.



WALLEYE INCUBATION FACILITY ESTABLISHED  
ON RAINY LAKE

As many of you know, a walleye incubation facility on Rainy Lake became a reality this past spring. The term incubation facility is used rather than hatchery as the later term is suggestive of a large complex having huge troughs or raceways and employing numerous persons. This facility was established to provide walleye fry for supplemental stocking into the North Arm of Rainy Lake. This initiative forms only one component of overall efforts to rehabilitate the walleye stocks in the North Arm.

The facility which was designed at Rice Bay on Rainy Lake was designed around the use of 4 "Big Redd" incubation units and is very compact. Each incubation unit is 30 in. high and 9 in. X 12 in. in width. Approximately 120,000 (1 L.) fertilized walleye eggs can be incubated in each of 11 square tubes (30 in. long) which stand vertically in each unit. The incubation capacity of each unit is 1.3 million eggs with a total production capacity for the facility of 5.2 million eggs. Basically, a water flow is created which enters each tube through the bottom travelling upwards and out of each tube through 2 screens. Water leaves each unit through a stand pipe at a rate of 1 L. per minute. Two air pumps ensure the water

...continued

is well oxygenated prior to entering each tube. A series of 4 aquarium type heaters maintain a desirable water temperature in each unit. Quite simply, each unit stimulates what would occur naturally on shoals or fast water areas of streams or rivers.

Prior to entering an incubation unit, water from Rainy Lake is pumped a distance of 550', is filtered to remove suspended solids and iron and then is stored in a 450 gal. tank. From the storage tank, water is ducted through 1/2" ABS pipe by gravity feed to each incubation unit. The large storage tank provides a safety margin as there is enough water in the tank to supply all units for approximately 8 hours after a pumping or filtration system failure. Monitoring systems ensure that pumping, transport, filtration and storage system malfunctions do not occur.

While the preceding description may suggest the ease by which one of these facilities could be established, it should be mentioned that there were numerous problems to be solved before and after the facility was operational. A major problem with the construction phase was the compatibility and availability of the various systems components as there is no standard equipment list for such facilities.

...continued

This spring, we collected 2.5 million eggs from walleyes spawning in Wasaw Creek, Rainy Lake. Deterioration of the adhesive bonding the screens at the top of each incubation tube resulted in the loss of 600,000 eggs. Fungal infections claimed an additional 400,000 eggs due to blockages in the water ducting system in the base of one of the units. Once we alleviated these problems, the remaining 1.5 million eggs were incubated without problem resulting in 82% hatching success. Ineffective egg shell collectors (which became fry collectors) resulted in a loss of almost 400,000 fry.

The remaining 800,000 fry were placed in a natural pond which was heavily fertilized using organic and inorganic fertilizers to stimulate the development of large zooplankton populations. When walleye reached 51 mm. in total length small fat head minnows were introduced into the pond to provide a forage base and reduce cannibalism. Walleye in this pond are presently greater than 70 mm. total length and appear to be doing well. Obviously, the number of walleye removed from this pond will be the true measure of the success of our efforts. No matter what occurs this year, we will have learned a great deal and this will make us more effective in implementing the 1986 program.

LAC SEUL FISHERIES ASSESSMENT PROJECT:1985

The Lac Seul project has progressed with a lot of enthusiasm and we can see the end in sight. There have been the normal mishaps with bottom ends, aircraft, and of course insufficient funding. Due to the magnitude of the project, we grossly underestimated gas requirements and aircraft time.

The creel census and index netting will be winding up on September 30. We had the opportunity to use the electrofishing boat and were impressed with the results. We now have a better understanding of this unit's capabilities. I think our region is to be commended for the effort they put forth to ensure that staff had proper training before going on board the unit. It commands a lot of respect.

Our conservation officers carried out a sampling program in conjunction with commercial fishermen on Lac Seul. They found that a fisherman can fish "clean" if he makes an effort.

We were able to utilize the region's fire helicopter to deliver gas to our camping sites which proved to be very effective. The "chopper" could handle six 45 gallon drums in one lift and place them exactly on site. Our camps consist of tents erected on tent frames and they have become "home" to our staff. We also installed wood stoves so that the staff can dry their clothes and keep warm in the inclement weather which we have been experiencing this summer.

At this point in time we cannot provide any results from our efforts, but we will include them in a later issue.

We have collected between 8,000-10,000 scales, spines and cleithium and are attempting to acquire the services of a qualified person to do our aging.

J. McDonald

UPDATE FROM DRYDEN  
ELECTROFISHING ON EAGLE LAKE

The northwestern region's new Smith-Root electrofishing boat was put through its paces by Dryden District staff working on Eagle Lake. Between August 6th and August 9th, inclusive, the electrofishing boat was used to identify walleye young-of-the-year nursery habitat. Fisheries Management Officer Ken Charles, Conservation Officer Dick DeGroot, and Fish and Wildlife Technicians, Rick Vincent and Susan Mann successfully identified nursery areas in Rice Bay and White Clay Narrows. While the analysis and interpretation of the data has yet to be completed, it is apparent that the electrofishing boat can be a most effective tool if the project is well designed.

CONTRIBUTORS:

The newsletter editor wishes to thank the following people whose contributions and efforts have made this issue possible:

Rick Borecky  
Chris Brousseau  
Ken Charles  
Joan LeCain  
Bruce Ranta  
Hal Schraeder  
Mark Sobchuk  
Shirley Syrja  
Neville Ward  
Brian Krishka

AND YOU THOUGHT YOU READ ALL OF THE NEWS...

No doubt you've heard those familiar words "I have some good news and some bad news..." many times before, but not coming from your secretary-treasurer. I'll begin with the good news by welcoming two new members to our Chapter. Jeane Pesendorfer has spent the summer working with the M.N.R. Productivity Unit in Thunder Bay. Sandra McIver has been working on Henderson Lake research for Lakehead University. So much for the good news.

Over half of the membership received a note with the last issue of the Newsletter requesting payment of outstanding dues for 1984-85. Thanks goes out to those members who did respond but thirty-one members have not yet done so. According to the Chapter bylaws, dues are payable September 1 of each year therefore I urge all members to forward their 1985-86 dues as soon as possible. The following members also owe 1984-85 dues:

E. ARMSTRONG	K. ARMSTRONG
N. CONROY	B. COOK
<del>A. DAMIANI</del>	P. DAVIS
B. DENTRY	J. DONETZ
<del>P. HARVEY</del>	S. KERR
J. LANDRY	<del>G. LEERING</del>
S. McGovern	P. NUNAN
G. OZBURN	M. PELLEGRINI
<del>T. PIGEON</del>	L. PINSENT
M. PURVIS	W. RANTA
RED ROCK FISH & GAME CLUB	T. RIORDAN
K. ROCHE	T. SAVIOJA
N. SCOTT	<del>W. SLOAN</del>
M. SOBCHUK	J. SUTTON
<del>D. TRAINTINGER</del>	R. WALROTH
J. WEIR	

If anyone has moved recently, please send a note with your new address so that I have an up-to-date mailing list.

Brian Krishka  
Secretary-treasurer

MEMBERSHIP ROSTER

T. ADAMCHICK  
127 Hill St. S.  
Thunder Bay, Ont.  
P7B 3T9

L. ANDERSON  
702 Fourth Ave. S.  
Kenora, Ontario  
P9N 1Z8

E. ARMSTRONG  
Box 1652  
Wawa, Ont.  
P0S 1K0

K. ARMSTRONG  
426 Wellington ST. E.  
Sault Ste. Marie, Ont.  
P6A 2L9

J. ATKINSON OMNR  
Regional Fish and Wildlife  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

D. BACCANTE OMNR  
Fisheries Res., Walleye Unit  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

H. BIBERHOFER  
Box 68  
Copetown, Ont.  
L0R 1J0

R. BORECKY OMNR  
Lake Nipigon FAU  
Box 120  
Beardmore, Ont. POT 1G0

A. B. BOWMAN  
Min. of the Environment  
199 Larch St.  
Sudbury, Ont. P3E 5P9

C. BROUSSEAU OMNR  
Regional Fish and Wildlife  
Box 3000  
Cochrane, Ont. P0L 1C0

D. BUSCH  
Min. of Nat. Resources  
Box 323  
Red Lake, Ont. P0V 2M0

K. CEDERWALL  
930 First St. S.  
Kenora, Ont.  
P9N 1E6

E. CHAMBERS OMNR  
Dorion Fish Hatchery  
Dorion, Ont.  
P0T 1K0

K. CHAMBERS  
1292 Valley Dr.  
Kenora, Ont.  
P9N 2W9

J. CHAPPEL  
Min. of Nat. Resources  
Box 280  
Terrace Bay, Ont. POT 2W0

K. CHARLES  
Box 8, RR# 1  
Dryden, Ont.  
P8N 2Y4

R. F. CHESSELL  
Box 675  
Nipigon, Ontario  
P0T 2J0

DR. P. COLBY  
Fisheries Res., Walleye Unit  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

N. CONROY OMOE  
Chief, Water Resources  
199 Larch St.  
Sudbury, Ont. P3E 5P9

B. COOK  
Min. of Nat. Resources  
Box 640  
Geraldton, Ont. POT 1M0

G. COVEYDUCK  
Lake Nipigon FAU  
Box 120  
Beardmore, Ont. POT 1G0

K. CULLIS OMNR  
Lake Superior FAU  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

G. CYBULSKI  
Lake Superior FAU  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

A. DAMIANI  
Box 254  
Nipigon, Ont.  
P0T 2J0

P. DAVIS  
Min. of Nat. Resources  
Box 640  
Geraldton, Ont. POT 1M0

B. DENTRY OMNR  
Glenora Fish. Res. Station  
R.R. #4  
Picton, Ont. K0K 2T0

J. DONETZ  
RR# 1, Site 9  
Kenora, Ontario  
P9N 3Z4

R. ELLIOT  
251 Concord Ave.  
Toronto, Ont.  
M6H 2P4

J. ENTWISTLE  
Lakehead Reg. Cons. Auth.  
1136 Oliver Rd.  
Thunder Bay, Ont. P7B 5JP

J. GEORGE OMNR  
Quetico-Mille Lacs FAU  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

L. GODWIN  
2246 Ridgeway St.  
Thunder Bay, Ontario  
P7E 5K2

K. GOODWIN OMNR  
Reg. Ageing Facility  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

R. HAMILTON OMNR  
Dist. Fish and Wildlife  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

P. HARVEY  
523 Lavoie St.  
Sudbury, Ont.  
P3A 2B4

H. HOBE  
Lakehead University  
Thunder Bay, Ont.  
P7B 5E1

D. HOLLINGER  
Min. of the Environment  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

D. HOWELL OMNR  
Thunder Bay District  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

E. IWACHEWSKI  
Min. of Natural Resources  
Box 970  
Nipigon, Ont. P0T 2J0

G. JOHNSON  
173 Blucher Ave.  
Thunder Bay, Ont.  
P7B 4Y8

E. KALUZA  
Box 881  
Atikokan, Ontario  
P0T 1C0

S. KERR  
Min. of Nat. Resources  
611 Ninth Ave. E.  
Owen Sound, Ont. N4K 3E4

D. KINSMAN  
Apt. #3, Island Apts.  
Kenora, Ontario  
P9N 3W7

B. KRISHKA OMNR  
Productivity Unit  
Box 2089  
Thunder Bay, Ont. P7B 5E7

R. KUSHNERIUK  
851 Hodder Ave.  
Thunder Bay, Ont.  
P7A 1W3

A. LAINE  
455 Conmee St.  
Thunder Bay, Ont.  
P7A 2N4

J. LANDRY  
Min. of Natural Resources  
Box 280  
Terrace Bay, Ontario P0T 2W0

G. LEERING  
93 Hazel Circle  
Temagami, Ont  
P0H 2H0

S. LOCKHART  
632 Seventh Ave. S.  
Kenora, Ont.  
P9N 2G3

M. MacCallum  
253 Algoma St. N.  
Thunder Bay, Ont.  
P7A 5A5

W. MacCallum OMNR  
Lake Superior FAU  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

V. MACINS OMNR  
Lake of the Woods FAU  
Box 5080  
Kenora, Ont. P9N 3X7

T. MAHER  
Box 2014  
Atikokan, Ont.  
P0T 1C0

L. MAKI  
Min. of the Environment  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

T. MARSHALL OMNR  
Productivity Unit  
Box 2089  
Thunder Bay, Ont. P7B 5E7

J. McDonald  
Comp. 1, Site 15  
R.R. #1  
Sioux Lookout, Ont. P0V 2T0

S. McGovern  
Box 332  
Gogama, Ont.  
P0M 1W0

S. McIver  
551 River St.  
Thunder Bay, Ont.  
P7A 3S1

D. McLeod  
1228 Third St. E.  
Fort Frances, Ont.  
P9A 1S7

L. MELNYK-FERGUSON  
Min. of Nat. Resources  
Box 280  
Terrace Bay, Ont. P0T 2W0

I. METTAM  
Box 5160  
Kenora, Ontario  
P9N 3X9



K. MILLS  
Freshwater Institute  
501 University Cres.  
Winnipeg, Man. R3T 2N6

DR. W. MOMOT  
R.R. #6  
Thunder Bay, Ont.

G. E. MORGAN  
150 Secord St.  
Thunder Bay, Ontario  
P7B 3E4

T. MOSINDY OMNR  
Lake of the Woods FAU  
Box 5080  
Kenora, Ont. P9N 3X9

J. MUNRO  
Box 21  
Dorset, Ont.  
P0A 1E0

J. MURPHY  
117 College St.  
Thunder Bay, Ont.  
P7A 5G6

NORTHERN ONTARIO TOURIST  
OUTFITTERS ASSOCIATION  
Box 1140  
North Bay, Ont. P1B 8K4

P. NUNAN OMNR  
Reg. Fish and Wildlife  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

DR. G. OZBURN  
Dept. of Biology, Lakehead U.  
Oliver Road  
Thunder Bay, Ont. P7B 5E1

E. PALECZNY  
General Delivery  
Vegreville, Alberta  
T0B 4L0

J. PARKS  
Min. of the Environment  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

D. PAYNE  
Min. of Natural Resources  
2 Third Ave., Box 730  
Cochrane, Ontario P0L 1C0

M. PELLEGRINI  
Min. of Nat. Resources  
Box 1140  
Wawa, Ont. P0S 1K0

J. PESENDORFER  
R.R.#1  
Murillo, Ontario  
P0T 2G0

T. PIGEON  
Box 578  
Nipigon, Ont.  
P0T 2J0

L. PINSENT  
187 S. Empress Ave.  
Thunder Bay, Ont.  
P7B 4N7

D. PUGH  
Min. of the Environment  
Regional Laboratory  
Thunder Bay, Ont. P7C 5G6

M. PURVIS OMNR  
Lake Superior FAU  
875 Queen St. S.  
Sault Ste. Marie, Ont. P6A 2B3

G. PYZER  
122 Riverview Dr.  
Thunder Bay, Ont.  
P7C 1R4

W. RANTA  
304-First St. S.  
Kenora, Ont.  
P9N 1C4

RED ROCK FISH & GAME CLUB  
14 Newton St.  
Red Rock, Ont.  
P0T 2P0

D. REID  
318 Brock St. E.  
Thunder Bay, Ont.  
P7E 4H5

T. RIORDAN  
Box 154  
Beardmore, Ont.  
P0T 1G0

B. RITCHIE  
Quetico-Mille Lacs FAU  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

K. ROBERTS  
258 W. Mary St.  
Thunder Bay, Ont.  
P7E 4K6

K. ROCHE  
R.R. #3  
Little Norway Road  
Thunder Bay, Ont. P7E 4V2

D. ROMANI  
Fisheries Branch  
3211 Albert St.  
Regina, Sask. S4N 2V4

J. ROOS  
Min. of Nat. Resources  
Box 5080  
Kenora, Ont. P9N 3X9

J. RUSAK  
46 Gunne Crescent  
Kenora, Ontario  
P9N 3N5

P. RYAN OMNR  
Quetico-Mille Lacs FAU  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

R. RYDER OMNR  
Productivity Unit  
Box 2089  
Thunder Bay, Ont. P7B 5E7

B. SANDILANDS  
Box 543  
Red Lake, Ont.  
P0V 2M0

T. SAVIOJA  
Box 432  
Nipigon, Ont.  
P0T 2J0

H. SCHRAEDER  
65 Perivale Crescent  
Scarborough, Ontario  
M1J 2C4

N. SCOTT  
Min. of Natural Resources  
Box 970  
Nipigon, Ont. P0T 2J0

W. SLOAN OMNR  
Fisheries Research  
Box 50  
Maple, Ont. L0J 1E0

M. SOBCHUK  
Min. of Natural Resources  
922 Scott St.  
Ft. Francis, Ont. P9A 1J4

L. STANFIELD  
5 Burnley Ave.  
Scarborough, Ont.  
M1R 2M3

J. SUTTON  
Lakehead University  
Acid Rain Project  
Thunder Bay, Ont. P7B 5E1

R. THOMSON OMNR  
Reg. Fish and Wildlife  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

J. TOST  
456 Frontenac Bay  
Thunder Bay, Ont.  
P7C 1M5

D. TRAITINGER  
General Delivery  
Nipigon, Ontario  
P0T 2J0

N. TRIEMSTRA  
Box 9, Site 10  
RR# 2  
Parry Sound, Ont. P2A 2W8

J. VANDER WAL  
Min. of the Environment  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

R. WALROTH  
Min. of Nat. Resources  
Box 129  
Swastika, Ont. P0K 1T0

N. WARD  
Box 454  
Red Lake, Ont.  
P0V 2M0

P. WARING OMNR  
Min. of Nat. Resources  
Box 5160  
Kenora, Ont. P9N 3X9

F. WATSON OMNR  
Dorion Fish Culture Station  
Dorion, Ont.  
P0T 1K0

J. WEIR  
General Delivery  
Napanee, Ont.  
K0K 1L3

R. WEPRUK OMNR  
Dist. Fish and Wildlife  
435 James St. S.  
Thunder Bay, Ont. P7C 5G6

G. WINTERTON  
RR# 1  
Kenora, Ontario  
P9N 3W7

*111 members*