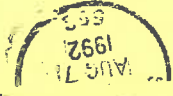
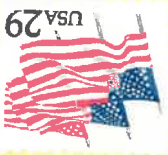
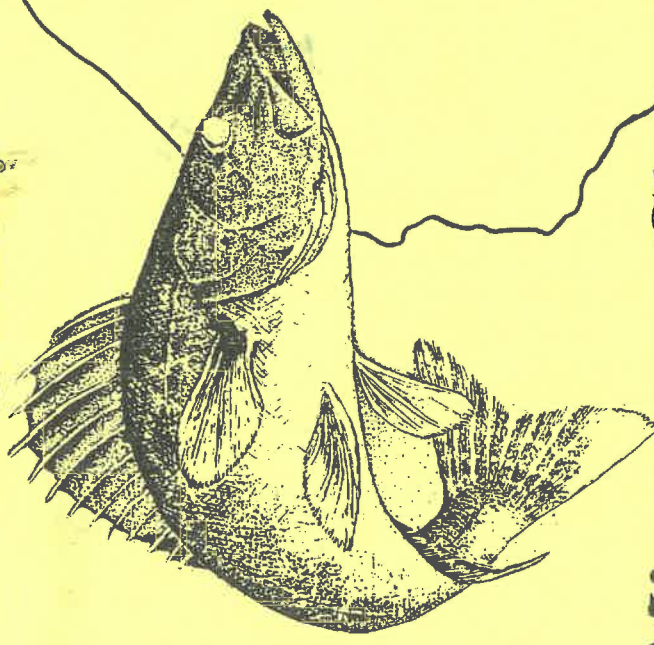


FIRST CLASS

2868 CHESTNUT CIRCLE NE  
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**American Fisheries  
Society**



**Minnesota Chapter**

JULY 1992



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Newsletter Cover drawing by Diane Whiting, Route 2, Box 22503, Stacy, MN 55079.

Unless otherwise stated, the opinions expressed within this newsletter are those of the author(s), not official policy of the Minnesota Chapter of the American Fisheries Society. Material submitted for inclusion in the newsletter is subject to editing at the discretion of the editor.

## *President's Message*

During the first few weeks in my new role as President of the MN Chapter, I have been busy putting together the Chapter Annual Action Agenda as prescribed in our Long Range Plan. Your participation during the planning activity at the annual meeting, identifying and prioritizing issues and volunteering to work on these issues, was invaluable to me in setting up this agenda. Because of this input, I feel that this more fully represents the Chapter's Action Agenda, not simply my plans and ideas on what should be addressed this year. I hope you will take time to review the Action Agenda printed in this Newsletter.

I think this is a fairly ambitious agenda but I'm sure that there will be other issues that come up during the year that will need our attention and action. Successful implementation of this agenda and other chapter activities depends on the involvement and work of you, the Chapter members. I think it is also apparent that the members are responsible for the Chapter's overall success in attaining its goals.

One of the responsibilities of the chapter leadership is to provide avenues for members to get involved. Recognizing that the strength of our Chapter lies in the diversity of backgrounds, experience, and interests of the members, I'd like to use a Membership Interest/Expertise Questionnaire as a vehicle to help define these strengths. I hope you'll fill out and return the enclosed Questionnaire to identify your areas of experience and interest and Chapter activities in which you'd be willing to participate.

A look at the action agenda and at the list of officers, EXCOM members and committee chairs (back of front cover) shows that many members have already stepped forward to help make the MN Chapter a strong voice for the fisheries resource in the state. If you haven't already done so, I'd like to urge you to get more involved in chapter activities. You'll find that it can be very rewarding to be involved in your AFS Chapter.

## *ACTION AGENDA for 1992 MN Chapter AFS*

### Item/Project

Survey members on their areas of interest and expertise in Chapter committees, activities and resource issues through Membership Database Questionnaire published in Chapter Newsletter.

Target Date: May 1992 Newsletter

Responsibility: EXCOM, Membership Chairman

Incorporate Membership Questionnaire responses into membership computer database.

Target Date: October, 1992

Responsibility: Richard Nelson and Membership Chairman

Define the purpose, structure and functions of the Long-Range Planning Committee and incorporate guidelines into Procedural Manual.

Target Date: June 1992

Responsibility: Planning Committee Chairman, Procedural Manual Chairman

Better define nomination and election procedures used for Chapter elections and incorporate guidelines into Procedural Manual.

Target Date: October 1992

Responsibility: Nominations Committee, EXCOM, Procedural Manual Chairman

Develop criteria for financial support to students attending 1993 Annual Chapter Meeting

Target Date: Fall 1992 Newsletter

Responsibility: Henry Van Offelen, Dave Pederson, Loren Miller, EXCOM

Develop a position paper on wetland protection, restoration, and enhancement in the state.

Target Date: November, 1992

Responsibility: Wayne Barstad, Gary Wege, Cindy Tomcko, EXCOM

Educate and inform the membership on the use of integrated resource management approach for aquatic resource protection through a panel discussion, session at 1993 annual meeting.

Target Date: 1993 Annual Meeting (Joint with Wildlife Society)

Responsibility: President-Elect Don Pereira

Provide information to members on instream flow protection strategies through articles in Chapter Newsletter.

Target Date: May/June 1992 Newsletter

Responsibility: Rivers and Streams Committee

Provide input into development of new DNR policies on how instream flow is administered.

Target Date: As DNR policy is developed

Responsibility: EXCOM, Representative of Rivers and Streams Committee

Offer continuing education workshop on fluvial hydrology.

Target Date: Fall 1992

Responsibility: Rivers and Streams Committee and Continuing Education Committee

Develop a chapter plan of activity for educating the public on habitat and conservation issues.

Target Date: August/September Newsletter

Responsibility: Public Awareness Committee and Linda Erickson-Eastwood, Bob Ekstrom, Howard McCormick, and Bob Moody.

Inform the public about important fisheries issue using a public service announcement (ie, videotape) or participation at a sport show (information booth or seminar).

Target Date: Fall 1992

Responsibility: Public Awareness Committee, Issues Committee, EXCOM

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### *25 Year Chapter Members*

The 1992 annual meeting marked the 25th anniversary of the Minnesota Chapter of the American Fisheries Society. In recognition of their contributions to the Chapter, 25 year members were presented with certificates recognizing their service. The 25 year members were:

Ira Adelman	Jim Groebner	Dick Hassinger	Ken Hokanson
Howard Krosch	Howard McCormick	Huon Newburg	Dennis Schupp
Joe Scidmore	Jack Skrypek	Jim Underhill	Tom Waters

Don Woods

These men have provided outstanding service both to the Chapter and to the advancement of fisheries management in the state. We are indebted to them for their efforts.

## **AWARD OF EXCELLENCE CALL FOR NOMINATIONS**

The Minnesota Chapter AFS Award of Excellence is presented in recognition of either long term excellence in the fisheries profession or outstanding performance in an activity that furthers the goals of the Chapter. The award can be presented to any individual, without regard to American Fisheries Society membership status.

If you feel someone you know is deserving of this recognition, I encourage you to complete the award of excellence nomination form on the back of this page and send it to:

Steve Colvin  
DNR - Ecological Services  
500 Lafayette Rd.  
St. Paul, MN 55155-4025.

Nominations for the 1993 award are due by **15 September 1992**. All nominations received by this date will be presented to the EXCOM for consideration.

In other awards committee news...

State representative Willard Munger (DFL - Duluth) has received the 1992 Minnesota Chapter, American Fisheries Society Award of Excellence for his leadership in natural resource protection.

Representative Munger currently chairs the Environment and Natural Resources committee in the Minnesota State House of Representatives. He was first elected to the House in 1954, and has served 19 terms. During his tenure, Representative Munger has had a role in the development of virtually every major environmental law. Some well known initiatives in which he played a central part include the Environmental Trust Fund, Wetland Conservation Act of 1991, Environmental Policy Act, Groundwater Protection Act of 1989, Power Plant Siting Act, Wild and Scenic Rivers Act and important legislation on acid precipitation and superfund.

Representative Munger provides vision and courage for environmental protection. He has been instrumental in ensuring Minnesota's position as a leader in resource protection. His efforts benefit all citizens of Minnesota, and we are proud to honor him.

Also..... Henry Drewes, DNR Fisheries, Bemidji, received the best paper award at the 1992 Minnesota Chapter, American Fisheries Society meeting. His presentation was entitled, "Descriptive Characteristics and Management of a Trophy Channel-Catfish Fishery." Co-authors of this paper were T. Heinrich and G. Van Eeckhout.

The 1992 meeting also marked the first time that an award was given for the best poster. This award went to Ray Newman, University of Minnesota, for his poster on, "Recent Research on the Consumption of Watercress by Generalist Shredders."

**MINNESOTA CHAPTER AFS  
AWARD OF EXCELLENCE NOMINATION FORM**

**NOMINEE:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**WORK AFFILIATION:** \_\_\_\_\_

**NOMINATION DATE:** \_\_\_\_\_

**NOMINATION STATEMENT:** (Supporting documentation may be included; provide a description of why you think this individual is deserving of the award, including an explanation of significant contributions or career accomplishments.)

**NOMINATED BY:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**PHONE:** \_\_\_\_\_

List the names, titles, addresses and phone numbers of two other people who are familiar with the nominee's accomplishments.

1.

2.

## EGGS, APPLES, AND FISH

An Opinion by Tim Goeman

The fisheries manager watches the irate resort owner drive away from his office. The last two hours have not been pleasant. The resorter wanted walleye stocked in his lake. The manager's best efforts at explaining adequate natural reproduction, exploitation, harvest, year class variability, and recruitment seemed to fall on deaf ears. Finally the resorter stormed out with a threat of going to the governor. The manager wondered at the lack of progress fisheries professionals have made in communicating sound fisheries principles to the fishing public.

Meanwhile, in a separate building only 100 yards away, the assistant fisheries manager has begun his fourth hatchery tour of the afternoon for local school children. The batteries of eggs always intrigue the wide-eyed youngsters. The egg-take has been good this year. The hatchery is running at near-full capacity. Soon millions of fry will emerge.

These scenarios are guaranteed to continue until fisheries professionals begin realistically assessing the long-term costs of the way we do business. What has the fisheries manager really communicated to his clientele when the most significant public relations effort of the year is the hatchery tour? The message conveyed is 1) that fish come from hatcheries, 2) that habitat degradation is so severe that naturally spawning populations are inadequate or no longer exist, and 3) that the long-term health of the fishery resource depends on hatchery technology. Fisheries professionals are quick to pontificate about the value of habitat protection, watershed management, and preserving genetic integrity of fish stocks. But when was the last time a school group was guided on a tour that emphasized habitat and the importance of this ecological component?

It's so easy to give a hatchery tour. It's convenient for everyone. It always gets rave reviews and it helps give a fisheries program some visibility. The long-term costs, however, reach far beyond the mere dollars and cents of a cost:benefit analysis. I am convinced the real costs show up years later when the child has taken ownership of his parent's resort, a poor year of fishing starts cutting into his profits, and he remembers his third grade field trip of years earlier. Is it really so amazing that the resorter will not believe the fishery manager's reasoning for not stocking fish?

Well-managed hatchery and stocking programs do have a place in fisheries management, but only as they fit within a sound ecological plan that has fully considered the long-term integrity of the resource. Hatchery and stocking programs are not an excuse for habitat loss and poor fisheries management. Such programs merely serve as treatments for symptoms rather than remedies for the real problems. Our clientele need cures, not pain-killers. (For an enlightening commentary on hatcheries and the future of our fisheries see Fisheries Vol. 17, No. 1 (1992), pages 5-8.)

At least three times during my short fisheries career of about 15 years, Aldo Leopold's land ethic has emerged in an effort to give new life to natural resource management. One reason his thoughts are still valid today is that most people are urban dwellers with little practical appreciation for natural and wild processes. The fact is, for most people, eggs come from the dairy case, apples from the produce aisle, and fish from the hatchery. The fisheries manager can change some of this thinking, if we change the way we do business.

Editor's note: The Chapter Long Range Plan made it a priority for the newsletter to encourage submission of opinion articles from our members. I strongly encourage members to submit an opinion article on fisheries related subjects such as this. I also am more than happy to print comments or counterpoints on this or any other opinion articles. Call or write if you have questions!

## **MEMBERSHIP COMMITTEE**

by Tim Goeman, Chairman

The Minnesota Chapter is currently enjoying its best year ever in terms of paid memberships. The membership total currently stands at 210, and is due in large part to the optional payment of Chapter dues along with annual dues to the Parent Society. This total compares very favorably with the membership totals of 124 and 163 for 1990 and 1991, respectively. Attendance at the 1992 Annual Chapter Meeting was 125.

At the recent Annual Chapter Meeting in Duluth, a proposal for a lifetime membership in the Chapter was approved. A one-time fee of \$100 will make you a life member of the Chapter. The first life member has already signed up!

**SPECIAL NOTICE:** Check your mailing label on this newsletter. If your label has a colored stripe this will be your last newsletter unless you submit \$5 for annual membership dues. This will apply to those who have received a one-year complimentary membership in 1991 and also to those who have not paid

membership dues during the last three years. We don't want to lose you, but we are forced to keep our mailing list to a manageable size. Please respond soon by making your check payable to MN Chapter AFS, and sending it to the membership chairman.

Our Chapter mailing list presently numbers 399. The above special notice applies to 82 people who may have received their last newsletter. Twenty-five Society officers and officials receive a complimentary mailing. Sixty-eight people were members in 1990 or 1991, but have not renewed for 1992.

If you know of a new fisheries employee or student, our Chapter continues the offer of a one-year complimentary mailing of the newsletter as a membership incentive. Contact the membership chairman with a name and address.

Membership information for the Parent Society is also available for the asking from the membership chairman.

## **\*\* CHECK YOUR MAILING LABEL \*\***

(see the special notice above)

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## **PUBLIC AWARENESS COMMITTEE**

by Steve Quinn, Chairman

Two new members joined the Public Awareness Committee at our annual meeting. Welcome Dave Pederson and Linda Erickson-Eastwood! After the meeting in Duluth, several members met informally to discuss plans for the year. We considered ways to provide information about the Minnesota Chapter and various aspects of the fisheries profession and its challenges to anglers, outdoor writers, and the general public. Strategies we discussed included producing short public service announcements for TV; providing seminar speakers for sport shows in

Minnesota and possibly setting up a booth; sending press releases or other types of information to media outlets; putting media people and sportsmen's groups on the mailing list for the Chapter newsletter; and producing a brochure about the Chapter. We have been reviewing samples of video scripts for public service announcements, checking mailing lists for sending news releases or newsletters, and contacting organizers of sports shows about their opportunities, requirements, and schedules for 1993.

## **RIVERS AND STREAMS COMMITTEE**

by Henry Drewes, Chairman

The MN-RSC met on March 10, 1992 in conjunction with the annual meeting. Approximately 25 persons representing seven agencies and universities participated. The MN-RSC prepared and presented a resolution to the EXCOM requesting that the Commissioner of the DNR develop a policy for dealing with clearing and snagging projects. Presently there are several programs which provide financial incentives for removing woody debris from streams and their riparian corridors. The MN-RSC also completed a mission statement which will be presented to the EXCOM for inclusion in the Chapter's procedural manual. The MN-RSC will hold a summer meeting in Early August to discuss technical issues.

The North Central Division AFS Rivers and Streams Technical Committee convened their annual meeting in Rock Island, IL on April 6-7, 1992. As in the past this meeting focused on informal technical presentations of current stream-related research from around the

Midwest. Topics included "Hydroelectric impacts on Michigan streams"; The use of smallmouth bass diaries in Illinois"; and "The effects of streamflow fluctuations on brown trout recruitment in Michigan streams". Once again, the 40 or so participants were treated to a fine supper hosted by the Quad Cities Conservation Alliance, a local group of sportsmen with a long history of resource advocacy. Immediately following the RSC meeting approximately 30 people participated in a three-day Fluvial Geomorphology Workshop taught by Mr. Steve Gough of Gough and Associates, Champaign, IL and Dr. Marie Morisawa, from the Department of Geological Sciences, State University of New York at Binghamton. This workshop was sponsored by the USFWS and the AFS NCD-Rivers and Streams Committee. Three persons from Minnesota, Luther Aadland, Charles Anderson, and Ray Newman, participated. I will report on this class in further detail in the next newsletter.

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## **EAST COAST TROUT WORKSHOP**

by Bill Thorn

On June 23-25, Mark Ebbers and Bill Thorn attended the East Coast Trout Culture and Management Workshop at Pennsylvania State University. The workshop was sponsored by the trout technical committees of the Northeastern and Southern Divisions of the American Fisheries Society. Proceedings were published and distributed at registration. Contact Mark Ebbers if you are interested in reviewing them or you can wait until they are advertised in professional newsletters for purchase.

Management sessions were Habitat, Regulations, and Stocking. Culture sessions included Feeds and Feeding, Culture Techniques and Equipment, and Diseases and

Therapeutics. A half day was devoted to roundtable discussions of habitat/riparian zones, regulations, and stocking. On the last half day, technical experts summarized the topics of the previous days.

This workshop was very good. Even though the presentations were not all top quality, they were all very informative. The perspectives of east coast biologists through active technical committees was very valuable. We in the Midwest do not have a trout technical committee and therefore no formal vehicle for information transfer. Of course, the opportunities for informal information transfer at socials was invaluable.

## NEWS ITEMS

by Brad Parsons

### UMRCC MUSSEL SYMPOSIUM:

A symposium entitled, "The Conservation and Management of Freshwater Mussels" is planned for October 12-14, 1992 at the Embassy Suites Hotel in St. Louis, Missouri. It is being sponsored by the Upper Mississippi River Conservation Committee. The symposium will focus on: 1) regulations; 2) commercial harvest; 3) conservation; 4) sampling methodology and data management; and 5) environmental awareness. More information on the symposium can be obtained from Kurt Welke, Wisconsin Department of Natural Resources (608) 326-0233 or Jon Duyvejonck, UMRCC Coordinator (309) 793-5800. From River Crossings.

IRA ADELMAN RECEIVED National Research Council thanks for representing AFS at the Council's Board on Agriculture meeting in California. The meeting focused on the future of the land-grant university system and issues relating to environment and society. Questions about the meeting or the Board on Agriculture can be directed to Carla Carlson, Director of Communications (202)334-2253. From AFS Diary.

THE UPPER MISSISSIPPI River Conservation Committee (UMRCC) has published "Walleye and Sauger in the Upper Mississippi River: Early Life History" by Jack Pitlo. The cost is \$3.00 (no postage or handling). Order from UMRCC Coordinator, 4469 48th Avenue Court, Rock Island, IL 61201. From AFS Diary.

A CONCEPTUAL FRAMEWORK for a Society professionalism initiative has been developed by Paul Brouha and members of the Dakota Chapter. The Society's Long Range Plan calls for the development of such an initiative. A partnership with the International Association of Fish and Wildlife Agencies and interested states is proposed to address the following items for state fisheries professionals: 1) entry-level standards, 2) continuing education, 3) salary administration plan modernization, 4) recognition and awards, 5) improved working conditions, and 6) benefits. It is clear that changes in state

personnel programs will come slowly, and that some items will have to address all state employees. There is a growing recognition, however, that in order to attract and retain bright young professionals from diverse cultural backgrounds, state fisheries careers will have to be made more attractive. From AFS Diary.

AFS RAFFLE REMINDER: The annual raffle to be held at the parent society meeting looks like another good one. Grand prize is an all expense paid 5-day vacation for two to Rio Puelo Lodge in southern Chile, South America. Many other great items and trips will also be raffled off. Tickets for the grand prize raffle are \$50.00 with which comes 3 \$5.00 raffle tickets as a bonus. Regular raffle tickets are \$5.00 each. If you are interested in purchasing raffle tickets, contact one of the Chapter officers.

GLOBAL WARMING MATERIALS are now available from Ohio Sea Grant. This series of short publications are designed to help people understand how global climate change may affect the Great Lakes region. Topics covered include: agriculture, airborne circulation of toxins, low water levels in Great Lakes estuaries, fish populations, and biological diversity. The 10-part set costs \$6.00. Order from Ohio Sea Grant, 059 Ramseyer Hall, 29 W. Woodruff Ave., Columbus, OH 43210. From Seiche.

DEADLINE FOR ITEMS to be included in the next Minnesota Chapter AFS newsletter is 15 September. All field reporters (EXCOM members, this is you), committee chairs, and other persons interested in submitting items should take note of this. Opinion articles and responses to the opinion article in this issue are particularly encouraged. Contact Brad Parsons if you have any questions.

GOOD LUCK CHARLOTTE! Charlotte Dahl, DNR Central office secretary, who was so instrumental in newsletter distribution these past several years, retired in May. I thank her for all her help and send my best wishes.

**MINUTES OF MINNESOTA CHAPTER AFS EXCOM - DULUTH**  
**March 9, 1992**

**Members in attendance:** Jeff Gunderson, Don Schreiner, Ginny Snarski, Molly Negus, Brad Parsons, Jeff Denny, Tim Goeman, Greg Busacker, Derek Ogle, Dave Pederson, Loren Miller, Dave Conner, Mark Cook, Tracy Close, Steve Colvin, Peter Sorenson, Henry Drewes, Chantel Cook

Minutes from the September 18, 1991 EXCOM business meeting were reviewed and approved. Income and expenditures since September 18, 1991 were reviewed and approved.

**Annual Meeting Overview - G. Snarski** - On March 10 contributed papers will be given in the morning. A long range planning session and a poster session will take place in the afternoon. The banquet featuring Tom Waters as the invited speaker will take place in the evening followed by a raffle. On the morning of March 11 the meeting will continue with a contributed papers session and will conclude at noon with best paper and best poster awards.

#### **COMMITTEE REPORTS**

**Issues/Resolutions - G. Busacker - Resolutions:** A resolution was introduced by the Rivers and Streams Committee addressing the clearing and snagging of woody debris in Minnesota streams. A similar resolution was passed by the Wildlife Society. H. Drewes explained that the greatest impact would be in the southern and western parts of the state. Removal of woody debris is financed through the flood control program. A motion was made to support the resolution and was passed by the EXCOM. It will be brought up for discussion and vote at the annual business meeting.

**Issues:** The Issues Committee drafted a letter with comments on the Pollution Control Agency's rules for aquaculture facilities on coldwater streams. Discussion of the letter followed and focused on discharge temperature in relation to stream temperature. A proposal was passed to take the letter before the membership at the business meeting for discussion. The EXCOM supported the letter with the last two sentences removed. A proposal was made to further investigate present EPA regulations in reference to discharge temperatures.

**Rivers and Streams - H. Drewes** - There will be

a meeting March 10, 1992 at 8:00 a.m. to discuss: 1) the clearing and snagging resolution; 2) Missouri River statement; and 3) resolutions for in-stream flow. The North Central Division Rivers and Streams Committee will meet in Missouri on April 6 and 7, 1992. A fluvial geo-morphology workshop is scheduled. Ray Newman and two other members from Minnesota will attend.

**Membership Committee - T. Goeman** - In 1991 there were 163 members. In 1990 there were 124 members. Chapter dues check-off for 1992 has reached 125, which includes 32 people that we've never seen before. The dues check-off is working well.

**Nominating Committee - C. Cook** - Received 26 ballots in the mail. Will set up ballot box at registration. Ballots will be accepted until noon on March 10. Only ballots printed in newsletter can be used, no copies. Guidelines for nominating need to be addressed at next EXCOM.

**Poster Task Force - J. Denny** - Ten spots for poster were available and nine posters have been submitted. Poster boards were leased from the Duluth Chapter of Sigma Xi for \$10.00/board. A total of \$70.00 expenditures for poster boards and pins. There is a problem with transportation and storage of poster boards if we secure our own. Payment for boards was approved at the last meeting. Will monitor acceptance of poster session at this meeting and make decision at the next EXCOM whether to continue with poster sessions at the annual meetings.

**Awards - S. Colvin** - Criteria has been established for best poster award. Five members will be used as poster and paper judges. Twenty-five year anniversary pins were very expensive - \$3.00 each with a minimum order of 300, a 50 pin order would cost \$400-\$500. Thirteen members qualify for 25 year anniversary certificates. Nine renewed membership in 1992 and four have not yet renewed membership. We should survey other chapters to find out if they are doing anything special for anniversaries.

**Continuing Education - M. Cook - A** successful workshop was held in December on

growth assessment. Sea Grant picked up the cost of one instructor. The workshop was scheduled for 25 people and was over-booked at 30, income was \$3,940.00. The chapter made a profit of \$1,060.00. Dave Bouden has been contacted for future statistics workshops on non-parametrics or sampling techniques, August 1993 is the soonest he will be available. Four non-members attended the workshop, the need to be a Chapter member to participate should be discussed by the EXCOM. May want to expand the number of workshops and include other professionals, possibly more opportunities in the future. A lot of interest in 1992 for a course which would review fish population dynamics.

**Students - L. Miller and D. Ogle** - Has been a lot of student involvement. Proposal made to establish a standing committee for students. Vote will be taken at business meeting.

**Procedures Manual - G. Busacker** - There are 110 copies ready to be adopted and distributed at the business meeting. Cost to publish was \$257.00 (\$.04/sheet). The manual needs to be reviewed and adopted. Copies will be given to EXCOM. Each member who wants a copy can pick one up at the business meeting.

**Public Awareness - S. Quinn** - Report in President's handout.

**Past-President - Dick Seifert** - No report.

**Long Range Plan - T. Close** - Met with J. Gunderson and G. Snarski to discuss and plan a session on implementing the chapter Long Range Plan (LRP). Session will be held on Tuesday afternoon. Proposal to make the LRP Committee a standing committee will be voted on at the business meeting. Need to prioritize activities and establish an annual action agenda on issues in the LRP.

**Newsletter - B. Parsons** - There will be three issues, one every four months, plus annual meeting issue. Field reporters worked out well, things are set for next year. Consider a gift for Charlotte Dahl, she is retiring in May.

#### OLD BUSINESS

**By-law Changes** - Considering two new committees, Long Range Plan and Student. Need for LRP Committee to provide continuity with the plan. Need for Student Committee to provide a vehicle for student

input. Proposal to make both standing committees passed by EXCOM and will be brought up to full membership for vote.

**AFS National Meeting Volunteers** - Need 20 volunteers to help with National AFS Meeting in Rapid City, South Dakota. Paul Brouha suggested parent society would pay for the volunteers registration (\$120 - \$130). May want to support students as volunteers if interested. Looking for people who would not normally go on expenses.

**Archive Minnesota Chapter AFS Materials** - Do we need to? What should we archive? The Fish and Wildlife Library on the St. Paul campus has offered to assist with space and organization. We need to set up a procedure to archive materials. Establish a committee to work on this. Committee will be J. Gunderson, G. Snarski, D. Schreiner, and P. Sorenson.

#### NEW BUSINESS

**1993 Annual Meeting Location** - Possibly meeting with MN-Wildlife Society, open to any other options or suggestions.

**Fund Raising Ideas** - T. Goeman lead discussion on producing and selling posters - examples might be "Pond Life" used for aquatic education or a poster of Minnesota fish with information about AFS on the back. Could sell corners for advertising (fishing tackle, outboard motors, etc.). The cost to produce is \$3,400 for 5,000 and \$4,400 for 10,000. Should Chapter pursue? What will be distribution center? How do we determine advertising ethics? Should we establish an ad hoc committee on fund raisers? Fund raising to be brought up at business meeting tomorrow.

**MN-DNR Fisheries Long Range Planning Process** - DNR-Fisheries is now in the second round of their six-year planning cycle. First cycle from 1986-1992. Second round 1992-1998 will be arranged by species with chapter on fish communities. The DNR plans to distribute a draft for public review by January 1993. Persons interested in reviewing chapters could contact Chapter chairs who will be listed in the newsletter.

Motion to adjourn - approved.

**MINUTES OF THE 25TH ANNUAL MEETING  
MINNESOTA CHAPTER OF THE AMERICAN FISHERIES SOCIETY  
DULUTH, MINNESOTA, MARCH 10, 1992**

The Minnesota Chapter AFS 25th Annual Meeting was called to order by President Gunderson. The agenda was approved and a quorum was present. Minutes from the 1992 meeting in Hudson, Wisconsin were approved as printed.

**President's Report** - President Gunderson thanked everyone - EXCOM, committee chairs, etc. Gunderson reported that a lot was accomplished during 1991 and the Chapter was very close to winning the award for most active chapter in the North-Central Division. Gunderson felt the ten highlights of 1991/1992 were: 1) Long Range Plan, 2) Procedure Manual, 3) Continuing Education Workshop - Growth Model, 4) position paper - GEO's, 5) newsletter workshop in San Antonio, 6) Public Awareness Committee established, 7) poster session formalized, 8) field reporters for newsletter, 9) correspondence on regulations, rules, policy, etc., and 10) LRP session at the annual meeting.

#### COMMITTEE REPORTS

**Membership Committee - T. Goeman** - Before registration there were 125 paid members. The 1992 annual meeting registration was 123; about one-half paid membership at registration for a total of 189 members in 1992. Total membership in 1990 was 124 and in 1991 was 163. Motion was made to accept lifetime chapter memberships at \$100/membership. Interest would be used for chapter functions. Motion was passed to have a lifetime membership in MN Chapter for \$100.00.

**Issues and Resolutions - G. Busacker** - Resolutions: A resolution was introduced by the Rivers and Streams Committee addressing the clearing and snagging of woody debris in Minnesota streams. A short discussion took place concerning minor word changes. A motion was passed to approve the resolution with minor changes and forward a copy to Commissioner Sando of the Minnesota DNR. Issues: The Issues Committee drafted a letter

with comments on the Pollution Control Agency's rules (Rule 7050.0216) for aquaculture facilities on coldwater streams. The body of the letter was handed out for review. A lengthy debate then took place on whether the rule applied to just protected waters of the State or all waters of the State. No conclusion was reached. A more focused discussion followed on discharge temperature in relation to stream temperature. A motion was made to carry forward sections 1-4 of the letter and delegate a committee to make recommendations on section 5. The motion was passed and the committee will address section 5. Dwight Wilcox, Darryl Bathel, Howard McCormick and Greg Busacker will be committee members.

**Procedures Manual - G. Busacker** - The Procedures Manual is modeled after the Parent Society's. It includes committees, policies, and basic instructions for officers. A motion was made to accept the Procedures Manual as a final draft and start using it with the idea that it can be modified as required. Motion was passed. Manuals are available to all who would like them.

**Rivers and Streams - H. Drewes** - A similar resolution to the one just discussed concerning clearing and snagging of woody debris was passed by the Wildlife Society. A mission statement from the Rivers and Streams Committee will be provided for the Procedures Manual. There will be a spring meeting held April 6 and 7 by the North Central Division (NCD) Rivers and Streams Committee. Ray Newman, Charles Anderson and Luther Aadland will attend. There will be a summer meeting scheduled for members of the MN Chapter Rivers and Streams Committee.

**Awards - S. Colvin** - Acknowledged other committee members for their assistance. Tim Goeman received Best Paper in 1991. Award of Excellence will be presented to Willard Munger in 1992 and the Chapter will work on getting publicity for the presentation. Criteria for rating papers and posters at the 1992

annual meeting has been determined. For the 25th anniversary of the Chapter, awards will be presented to 9-13 of the original members depending on whether or not they are still members in 1992.

**Continuing Education Committee - M. Cook -** A successful workshop was held in December on Weisberg's linear growth model. The workshop was scheduled for 25 people and was over-booked at 30, income was \$3,940.00. The chapter made a profit of \$1,060.00. Dave Bowden has been contacted for future statistics workshops on non-parametrics or sampling techniques, August 1993 is the soonest he will be available. The Larval Fish Workshop through Colorado State has been tough to get a date on. Fluvial geomorphology is a possible workshop topic. A lot of interest has been shown in 1992 for a course which would review fish population dynamics. May want to expand the number of workshops and include other professionals; there may be more opportunities for this in the future.

**Long Range Planning Committee - T. Close -** The Long Range Plan was published in the newsletter, but did not receive much feedback. The major comment was too much to do in one year. It was not expected to be completed in one year. Need to determine annual action agenda; meeting this afternoon was first step. There has been a proposal to make the Long Range Planning Committee a standing committee.

**Students - L. Miller -** There has been a lot of student involvement this year. A proposal was made to establish a standing committee for students. Proposed formation of student committee is to get more student input into Chapter activities. Plan to go to each campus in Minnesota and appoint a student representative if there is an interest.

**Public Awareness - S. Quinn -** Ten members - Committee will address similar issues as discussed in afternoon workshop on Long Range Planning. Committee will meet tomorrow around noon before meeting ends.

**Newsletter - B. Parsons -** National workshop was worthwhile. Product coming out of national workshop is a manual for newsletters

editors. Thanks to field reporters. Would like to publish more issue-related items in the future. Special thanks to Taylor Palomis for interesting journalism.

**New Officers - C. Cook -** Annual results of the election were reported. New EXCOM will be: 1) Federal - Jeff Denny; 2) DNR - Charles Anderson; 3) Academic - Ray Newman; 4) Open - Steve Quinn; 5) Secretary/Treasurer - Don Schreiner; 6) President - Virginia Snarski; and 7) President-Elect - Don Pereira.

**Treasurer's Report - D. Schreiner -** The Treasurer's Report was read and approved. An audit of the financial records was conducted by Cindy Tomcko and approved.

## OLD BUSINESS

**By-law Changes -** Motion was made to add Long Range Planning Committee and Student Committee as standing committees. Proposals needed a 2/3 majority to pass. Motion to establish Long Range Planning Committee was passed. Motion to establish Student Committee was passed.

**AFS National Meeting Volunteers -** Need 20 volunteers to help with National AFS Meeting in Rapid City, South Dakota, September 14-17, 1992. Paul Brouha suggested parent society would pay for the volunteers registration (\$120-\$130). May want to support students if interested. Looking for people who would not normally go on expenses. A sign-up sheet is available or contact J. Gunderson.

**Archive Minnesota Chapter AFS Materials -** The Fish and Wildlife Library on the St. Paul campus has offered to assist the Chapter with space and organization. Need to set up a procedure to archive materials. Established a committee to work on this. Committee will be J. Gunderson, G. Snarski, D. Schreiner, and P. Sorenson.

## NEW BUSINESS

**Installation of President -** President Gunderson stepped down from his one-year term of office by passing "ESOX" on to G. Snarski. Ginny presented Jeff with an award

of recognition for his service to the Chapter. Ginny began her term of office by requesting ideas for the location of the annual meeting in 1993. A joint meeting with the Wildlife Society was suggested. President-elect D. Pereira will pursue.

**Proposed Annual Budget** - Traditionally, \$800.00 has been used for travel by President to Midwest Fish and Wildlife Conference. Since this year's meeting is in Toronto, Canada, President Snarski proposed \$900.00 be used for president travel. Discussion took place and a motion was passed to reimburse the President for actual expenses on trip to NCD meeting in Toronto. President Snarski made a motion to offer a \$400.00 speaker fee for the 1993 annual meeting, the motion was passed.

**Raffle** - The raffle at this meeting was a success. Henry Van Offelen was thanked and reported net income of \$560.00 to date. A discussion followed on how the money should be used. A motion was made and passed to set up a committee that will set criteria for funding students to attend various events. L. Miller will seek volunteers to serve on the committee.

**Committee Assignments for 1992** - Tim Goeman - Membership; Greg Busacker - Procedures Manual; Chantell Cook - Nominating; Steve Colvin - Awards; Jeff Gunderson - Issues and Resolutions; Tracy Close - Long Range Plan; Mark Cook - Continuing Education; Brad Parsons - Newsletter; Loren Miller and Derek Ogle - Co-Chairs of Student Committee; Steve Quinn - Public Awareness

## OTHER NEW BUSINESS

Jeff Denny requested input on poster session. Feedback so far indicates Poster Session appears to be worthwhile. Would like to know if poster session should continue to be part of annual meetings.

The MN-DNR was commended for assisting with the Chapter newsletter. Charlotte Dahl, who helps with the newsletter, will be retiring May 1, 1992. A motion was made and passed to present Charlotte with a gift (not to exceed \$50) and certificate of appreciation for her work on the newsletter. Another motion was made and passed to present Charlotte with a bouquet, as in previous years.

A discussion among the general membership took place on the ethics of selling advertising and fund raising in general. The discussion ranged from do we need any fund raisers at all, to how and what shall we spend our money on. The consensus was that the Chapter determine and identify appropriate ways to spend money before major fund raising projects are initiated. President Snarski will appoint a committee to pursue this issue.

A motion was made and passed that the 1992 annual business meeting be adjourned.

Respectfully submitted,  
Donald R. Schreiner  
Secretary/Treasurer



- Data Collection (Field Sampling)
- Data Management
- Education
- Fisheries Management
- Habitat/Site Assessment
- Habitat Restoration/Management
- Impact Evaluation
- Instream Flow Issues
- Lake Management

- Law Enforcement
- Legislative/Regulatory
- Licensing/Permitting
- Lobbying
- Modeling
- Planning (Watershed, Land Use)
- Research
- Statistics
- Other (Specify): \_\_\_\_\_

Please check any activities you would be willing to participate in to help the Chapter meet its objectives:

- Participating in issue related task forces
- Researching resource issues
- Preparing resource issue documents
- Developing of public awareness programs
- Lobbying for AFS Chapter objectives
- Fundraising
- Serving on Chapter Committees
- Other (please specify) \_\_\_\_\_

**AREAS OF INTEREST (Check All That Apply)**

FISH BIOLOGY

- Age and Growth
- Behavior
- Developmental Biology
- Distribution
- Early Life History
- Endocrinology
- Exotic Species
- Genetics
- Ichthyology
- Life History
- Multispecies Interactions
- Pathology
- Physiology
- Population Dynamics
- Reproduction
- Taxonomy and Systematics
- Toxicology

FISH CULTURE

- Aquaculture
- Hatchery Production Methods and Design
- Disease/Parasites
- Nutrition
- Pond Management
- Cool Water Fish Culture
- Warm Water Fish Culture
- Cold Water Fish Culture
- Species of Interest \_\_\_\_\_

FISHERIES MANAGEMENT AND TECHNOLOGY

- Creel
- Economics
- Gear and Gear Development
- Fisheries Management
- Modeling
- Remote Sensing
- Sampling Design
- Statistical Analyses
- Species of Interest \_\_\_\_\_

HABITAT AND WATER QUALITY

- Aquatic Plants (Macrophytes)
- Biological Controls
- Biomonitoring
- Chemical Pollutants/Contaminants
- Habitat Modification/Restoration/  
Enhancement
- Heavy Metals
- Impoundment/Management
- Nonpoint Source Pollution
- Nuisance Plants & Animals  
(Introduced Species)
- Nutrients
- Organics
- Pesticides
- Physical/Chemical Analysis
- Riparian Habitat
- Sediment Contamination  
(Toxicity)
- Sedimentation
- Shoreline Stabilization
- Stream Habitat Ecology/  
Restoration/Protection
- Transport of Pollutents
- Water Shed Techniques/  
Management/Planning
- Wetlands Assessment/  
Management/Restoration

LIMNOLOGY

- Phytoplankton
- Zooplankton
- Benthic Ecology
- Community Structures
- Lakes/Reservoirs
- Rivers and Streams
- Mitigation
- Project Financing (Federal, State, Local  
Fund Raising, etc.)
- Public Education/ Awareness
- Urban Fishing Programs
- Other (Specify): \_\_\_\_\_

MISCELLANEOUS

- Environmental Evaluation
- Genetic Engineering
- Groundwater
- Land Use Planning
- Legislation/ Rules and Regulations
- Lobbying

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SUGGESTIONS OR COMMENTS ON CHAPTER ACTIVITIES OR ISSUES:

**THANK YOU!**

Please return questionnaire to:

Virginia Snarski  
Environmental Research Laboratory-Duluth  
6201 Congdon Boulevard  
Duluth, MN 55804