
NEWSLETTER

Minnesota Chapter of the American Fisheries Society

OF THE

Year 1996 No. 2
May Issue

President's Message

Larry Kallemeyn, FROM THE NATION'S ICEBOX.

April 16 and we're still looking at a scene that looks more like winter than spring. I hope by the time you read this spring will have arrived so we can, like good fish-mongers should, be out on our state's waterways. Our co-participants from the Wildlife Society and the Society of American Foresters thought this winters meeting went very well. BUT, there were quite a few comments about the cost so we're giving that special consideration in planning for the next meeting.

The new committee chairs that were installed at the business meeting are Mark Cook (Nominations), Jerry Grant (Students), Wayne Barstad (Resolutions), and Paul Radomski (Newsletter Editor). I would like to thank past-chairs Rod Pierce, Lynn Mizner Maher, Dean Beck, and Chris Freiburger for their efforts on these committees.

The following outline presents our Chapter's action items for this year, and shows how they relate to the parent society's strategic plan. Don't get the idea that you are off the hook if you aren't specifically identified as a responsible party. I'm sure those that are identified will be calling on many of you for assistance. I would strongly encourage you to get involved in whatever manner is convenient for you. Feel free to contact me at any time if you have an idea or suggestion (218-283-9821, Fax 218-285-7407).

Editor: Paul Radomski
1601 Minnesota Drive Brainerd, MN 56401
phone: (218)828-2665
fax: (218)828-6022
e-mail: paul.radomski@dnr.state.mn.us

The Chapter publishes this newsletter four times a year (Jan., May, Sept., and Nov.). Deadlines for article submission are: April 15, Aug 15, Oct 15, and Dec 15.

INSIDE

President's Message	1
Committee Reports	3
Division Technical Committees	4
Minutes of Chapter Meetings	7
Upcoming Events	11
Contributions: Letters and Commentary	11
Fisheries Action Network	13
Other Important News	14

Outline of 1996 Action Items

Goal A. AFS will be the members' primary use source for professional development.

Action: Develop plans for a continuing education workshop to be held in late 1996 or early 1997.
Responsibility: Continuing Education Committee

Goal A.6 Routinely assess membership's needs and their satisfaction with resources, services, products, and professional development provided by AFS.

Action: Complete survey of chapter membership.
Responsibility: Long Range Planning Committee

Goal C.1 Emphasize conservation of fishery resources as part of aquatic ecosystems

Action: Develop a position paper on fish stocking
Responsibility: To be decided

Goal C.4 Improve visibility and image of AFS as a "scientific" organization and information source.

Action: Initiate planning for a river and stream management symposium.

Responsibility: Rivers and Streams Committee

Action: Chapter host a media event and hospitality room at the Outdoor Writers Association of America's annual convention in Duluth.

Responsibility: Public Awareness Committee

Action: Complete and distribute another public service video.

Responsibility: Public Awareness Committee

Goal C.7 Encourage publication of articles highlighting the work of AFS and its members in the popular press.

Action: Develop a statewide list of media outlets and media hosts that Chapter news releases, position papers, and other information can be released to.

Responsibility: Public Awareness Committee, Newsletter Editor, Secretary-Treasurer

Action: Develop at least two news releases on Chapter activities or positions on aquatic issues.

Responsibility: To be decided

Action: Develop an informational brochure on the Chapter, its membership, and activities for distribution to the public.

Responsibility: Past-president

Action: Develop a portable display describing the Chapter, its membership, and activities that members can use at public gatherings such as symposium, sport shows, etc.

Responsibility: President, Excomm, Public Awareness Committee

Goal D. AFS will be involved in the development of public policy affecting fish and fisheries.

Action: To facilitate responses to issues affecting fish and fisheries, the parent society's form will be used to survey chapter members so that a database containing their interests and fields of expertise can be established.

Responsibility: Membership Committee

Goal E. AFS will have experienced and skilled leaders.

Action: The Chapter president and president-

elect will attend the parent society's orientation sessions for subunit leaders.

Responsibility: President, President-elect

Goal E.3.a Encourage student involvement in subunits and provide students opportunities for membership on Society committees.

Action: Complete development of a compendium of research abstracts for Minnesota fish research.

Responsibility: Students Committee

Action: Continue financial support for students attending the Chapter's annual meeting.

Responsibility: Chapter

Goal F. AFS members, volunteer leadership, staff, and subunits will effectively communicate and actively participate in implementing the Strategic Plan.

Action: The Chapter will actively participate in the development of the 1997 Society Annual program of Work.

Responsibility: President-elect

Action: A Minnesota AFS home page will be developed and linked with the parent society's.

Responsibility: Dr. George Spangler and assistants

Action: Update the Chapter's Long Range Plan

Responsibility: Long Range Planning Committee

Goal H. Fishery managers and scientists will be viewed as professionals by employers and the public.

Action: Formulate a chapter policy on professional ethics.

Responsibility: Jay Hatch, Dennis Anderson

Action: Raise the awareness of the society's certification program by inviting the chair of the parent society certification committee speak at the next chapter meeting and by having a piece on the subject in the newsletter.

Responsibility: President



Committee Reports

Awards Committee - by Bruce Vondracek

The best paper award this year was presented to Loren Miller, Ph.D. student at the University of Minnesota, for his presentation of the paper with Dr. Anne Kapuscinski titled "Genetic effective population size of a northern pike population." Loren received his B.S. in Biology from the University of Minnesota in 1986. Following the completion of his degree, Loren worked for 3 years as a Quality Control Supervisor in a Dairy Products Plant. Loren then came back to the University of Minnesota to pursue a M.S. in Fisheries which he completed in 1992. Loren immediately began his Ph.D. program estimating genetic diversity within northern pike populations using DNA microsatellites. Loren also won the award last year for a presentation with Dr. Anne Kapuscinski titled "Isolation of polymorphic genetic markers in northern pike."

The Award of Excellence was presented to Jack Skrypek for his long and distinguished contribution to fisheries at this year's banquet. Jack is the Chief of the Section of Fisheries for the Minnesota DNR. Jack began his career with the DNR in 1962 as an Aquatic Biologist at the Lake City Fisheries Office. From 1966 to 1972, Jack was the Supervisor of the Biological Services Unit in the Section of Ecological Services. In 1972, Jack moved back to the Section of Fisheries to work as a Limnologist. In 1981, Jack was promoted to the position of the Chief of the Section of Ecological Services. In 1991, Jack assumed his current role.

At this time, I would like to solicit nominations for the Chapter Award of Excellence and for the Special Recognition Award. Nomination forms are in the back of this newsletter.

The purpose of the Award of Excellence is to recognize long-term excellence in the fisheries profession or outstanding performance in an activity or furthers the goals of the Minnesota Chapter of the AFS. This award may be presented to any individual or group, regardless of their membership in AFS. The nomination should indicate how and why the nominee is worthy of the award. Describe the impact or significant contribution of the individual or group in one or two pages.

Special Recognition Awards are presented to acknowledge personal services contributed to the Chapter or a special project that advances the goals of the Chapter. Any Chapter member is eligible. A short statement describing the service to the Chapter should be provided.

Continuing Education Committee - by Mark Hove and Deserae Bushong

There was a great deal of interest in the latest continuing education course: Incorporating Social Science into Fisheries Management. Class size was limited to thirty, although fifty were interested in taking the course. Dr. Robert Ditton provided a two day summary of a course he teaches at Texas A&M; Social Science in Fisheries Management. Dr. Ditton reviewed the many processes and agencies involved in fisheries management decision making. Most of the attendants were satisfied with course and the instructor (22 of 28 surveyed attendants agreed that the course was helpful), although some wanted more discussion of social science techniques.

We are soliciting ideas for our next workshops. The solicitation form, found latter in the newsletter, was handed out at the annual meeting and the return rate was exceptional! THANK YOU to those of you who provided input. For those of you who haven't filled out a form, please share your thoughts on workshop topics.

Finally, we invite anyone interested in the Continuing Education Committee to contact us about joining. Deserae will be leaving the committee next year and we'd like to bring a new member on board during the transition period. Involvement in the committee is a great way to meet and provide opportunities for your peers.

Membership Committee - by Jeffrey Reed

Our current membership (those who have paid 1996 dues) stands at 174, there are nearly that many who we have kept on the membership list that haven't paid dues for 1994 or 1995. If you have a 94 or 95 on your mailing label this is your last newsletter, please send in your dues today! A membership form can be found in this newsletter.

[Note: we are updating the membership mailing list. Members who don't want to be listed in the Chapter Directory, please let Jeff Reed know. Any address changes can also be sent to Jeff Reed.]

Newsletter - by Paul Radomski

Jingyin Li, University of Minnesota, has developed a home page on the world-wide-web for the Chapter (<http://www.fw.umn.edu/mnaf>). This web site on the internet will be a source of current information regarding the Chapter and its activities. Dr. Spangler and I provided ideas and information to Jingyin in his effort. I am grateful for the work Jingyin has done and

the computer resources at the University needed for the site. I hope to compile additional information this summer for Jingyin which he will incorporate into the Chapter web site.

I also thank Chris Freiburger for his advice putting together my first Chapter newsletter.

Public Awareness and Education Committee - by Steve Quinn

In cooperation with Kristin Merriman-Clarke of the AFS Central Office, Steve Quinn and Ginny Snarski have been working to organize a Press Event and Hospitality Suite at the annual meeting of the Outdoor Writers Association of America (OWAA). Steve and Carl Richards also have been working on a brochure about the Minnesota Chapter, to be completed for distribution at the OWAA conference.

The Press Event will feature presentations by chapter members Jack Wingate (AFS President), Don Schreiner (Lake Superior Fisheries Manager, MN DNR), and Paul Pajak (an expert in land management implications on fisheries resources), plus Rich Hess of the Illinois DNR, an expert on the status of yellow perch in the Great Lakes

The Press Event will take place at the Holiday Inn in Duluth on Tuesday June 18 from 7 to 8 p.m., to be followed by snacks and drinks hosted by the Chapter. We hope to acquaint outdoor writers with fisheries issues in Minnesota, the Great Lakes and Upper Midwest, plus the role of the AFS in studying and managing fish and disseminating information.

At the last EXCOM meeting, the group expressed an interest in producing one or more public service announcements (PSAs) to air on television or radio. The initial Chapter PSA, which outlined the diversity of the Minnesota Chapter and its role in aquatic resource management, seemed quite successful in gaining air time at no charge. If you have thoughts or opinions on topics for future PSAs, please provide comments to Steve Quinn, chair of Public Awareness and Education Committee, 2 In-Fisherman Drive, Brainerd, MN 56401, (218)829-1648, fax (218)829-2371.

Resolutions Committee - by Wayne Barstad

It is a policy of the Chapter to "involve every member to the fullest extent possible, so that the Chapter may derive the greatest benefit from its membership's diversity." With that in mind, the Resolutions Committee reminds all members that the resolution process is a simple and effective way to become

involved in the life of the Chapter. Resolutions stimulate thought and discussion, and help guide our professional conduct.

The Resolutions Committee encourages all members to think about societal matters that affect fisheries resources. Discuss these matters with your colleagues, in the pages of this newsletter or in any other way possible, and recommend resolutions for consideration by the Chapter membership. Remember that the annual meeting is much closer than any of us would like to believe. Take advantage of the time remaining and make your voice heard.

In addition, if anyone knows of a fisheries issue that the Chapter should take a position on let me know.

Rivers and Streams Committee - by Paul Glander

Three Chapter member (Steve Quinn, Dale Logsdon, and I) attended the North Central Division Rivers and Streams Technical Committee meeting in Rock Island, Illinois in April this year. A team of researcher from Iowa State made a presentation on historical changes in riparian zones and various plantings they now use to restore riparian zone vegetation. Chuck Berry presented creel survey results from the Big Sioux River in South Dakota. We also heard a presentation on a program to modify management of flood plains used for waterfowl production to increase their value for fish reproduction.

Division Technical Committees

Centrarchid Technical Committee

The North Central Division Centrarchid Technical Committee met on December 3 in Detroit, MI. The meeting was called to order by the outgoing chair Marty Jennings (WI). He introduced the new chair, Melissa Drake (MN). Steve Fischer (MO) was appointed as vice-chair.

The summer meeting which was held at Wyalusing State Park, Prairie du Chien, WI was recapped. The summer meeting included technical presentations, a discussion of the methods survey and a workshop on the current research problems in centrarchid management. One of the ideas for this summer's meeting was a workshop on standardization of gear for collection of centrarchids.

Doug Beard (WI) discussed a tri-state project between

WI, MN, and MI to look at regulations to protect large male bluegill. Folks interested in this effort should contact Doug, Melissa, or Jim Breck (MI). Dave Philipp (IL) discussed a similar project in Illinois, which will use the model developed in the tri-state project.

The top research priorities identified for *Lepomis* spp. were: what is the role of alternative life history strategy in shaping populations; and stunting related problems and the causes of stunting. The top two research priorities identified for *Pomoxis* spp. were: how to manage for the boom and bust cycles crappies experience; and what is the role of white vs. black crappie in crappie populations. Finally, the top two research priorities identified for *Micropterus* were: what is the relationship between reproductive success and recruitment; and what are the pro's and con's of various harvest regulations.

The NCD is offering a matching grant of \$25 to fund student travel to technical committee meetings. We decided to sponsor up to 2 students for this matching grant. If interested contact Melissa Drake.

A symposium entitled "Centrarchid Reproductive Behavior: Implications for Management" was held at the 1995 Midwest Fish and Wildlife Conference in Detroit, MI last December. The NAJFM has agreed to consider companion papers from this session for publication as a module in the journal. Marty Jennings and Melissa Drake are coordinating the peer review of these papers.

The following technical presentations were given at the symposium:

Mechanisms of recruitment failure in bluegill ponds.
James B. Breck

A comparison of bluegill cuckoldry rates and growth between lakes with different fishing intensities.
Melissa T. Drake, Julie E. Claussen, David P. Philipp, and Donald L. Pereira

Male reproductive competition and stunting in bluegill sunfish. Timothy J. Ehlinger

Effect of population size structure on reproductive behavior of male bluegill. Martin J. Jennings and David P. Philipp

Determining the effects of regulations on bluegill populations. T. Douglas Beard, Jr., Melissa T. Drake, James E. Breck, and Nancy A. Nate.

Spawning dynamics of a smallmouth bass stream

population. C. Anna Toline, David P. Philipp, and Frank Phelan

The impact of preseason catch and release angling on the reproductive success of smallmouth and largemouth bass. David P. Philipp, C. Anna Toline, Mark Kubacki, David B. F. Philipp, and Frank Phelan

Angling for nesting male smallmouth bass in an individual-based model. Mark S. Ridgway and Brian J. Shuter

Effects of body size and density on overwinter survival of young of year pumpkinseed. Gerry Bernard and Michael G. Fox

Effects of yearling bluegill on zooplankton abundance, growth, and survival of age 0 bluegill. Theodore R. Gray, James E. Breck, and Paul W. Webb

The Centrarchid Technical Committee will hold its 3rd annual summer meeting on July 16 and 17, 1996 in Prairie du Chien, Wisconsin. The meeting will be held at Wyalusing State Park, starting at noon on the 16rd and ending at noon on the 17th. Attendees will have the option of staying at the group camp facilities at the park or motels located about 3 miles from the park. Lodging at the group camp facility is free.

Anyone with an interest in the biology and management of *Ambloplites*, *Lepomis*, *Micropterus*, or *Pomoxis* is invited to attend. During this year's meeting we will continue work on the sampling methods survey. A workshop on standardization of gear for collection of centrarchids is in the planning. We also plan a contributed papers session and encourage presentations of projects in all stages of development.

Those interested in presenting papers or submitting an agenda item should contact Melissa Drake, MN DNR Fisheries Research, 1200 Warner Rd, St. Paul, MN 55106 (612)772-7966. Those interested in pre-registering for the meeting or having their names added to the mailing list contact Doug Beard, WDNR, Bureau of Fish Management, FM-4, Madison, WI 53707.

Esocid Technical Committee

Plans are currently being finalized for a esocid stocking and restoration workshop to be conducted at the summer meeting of the Esocid Technical Committee. The dates and location for the workshop will be July 24-25, in LaCrosse, Wisconsin. Registration for the

workshop will be \$40 and will include the cost of lunch on the 24th and a published summary of the workshop proceedings. Topics covered during this workshop will include: objections of esocid management, stocking strategies employed by agencies to meet this objectives, and considerations and constraints in implementing these strategies. A final agenda should be available by June 1st.

If you would like additional information about the Esocid Technical Committee meeting, please contact:

Dave Neuswanger
Missouri Dept. Of Conservation
2500 S. Halliburton
Kirksville, MO 63501
(816)785-2420
neuswd@mail.conservation.state.mo.us

Walleye Technical Committee

The summer Walleye Technical Committee meeting will be held July 16-18th, at the E.B. Lyons Nature Center, Dubuque, Iowa. A block of rooms has been reserved at the south Heartland Inn, Dubuque (phone 1-800-334-3277, location 13). Rates are \$37 plus tax (single), \$45 plus tax (double). The south Heartland Inn is near the E.B. Lyons Nature Center.

A welcome social and registration will be held on Tuesday, July 16th. Program session will be held on Wednesday, July 17th, and the business meeting will be held on the morning of the 18th. The meeting will conclude by noon on Thursday.

Cost for the meeting will be \$30, which includes the reception Tuesday evening at the Brewery, Wednesday lunch and evening cookout, and coffee and refreshments during the meeting. The Wednesday one-day cost is \$15, which includes lunch. Full registration for students is \$20. Financial aid may be available for students wishing to attend the meeting, students interested should contact Tim Goeman.

The tentative agenda is as follows:

July 17, 1996

8:00 Registration at EB Lyons Nature Center, Dubuque, IA. Welcome and Announcements

Management implications of upper midwest walleye genetic stock structure (IL)

Assessment of rainbow trout vulnerability to walleye

predation (WY)

Walleye in Spirit and the Okoboji Lakes: Management Expectations and Answering the Questions (IA)

A walleye catchability model from Minnesota waters

Estimating exploitation rates using Minnesota's walleye catchability model

12:00 Lunch at Happy's

Spring movement of walleye among interconnected lakes in northern Wisconsin: implications for management of a joint tribal-sport angler fishery

An evaluation of the "safe harvest" system for regulating walleye harvest in a joint tribal-angler fishery (WI)

Evaluation of walleye and saugeye in two small Iowa lakes

Hybridization between walleye and sauger: case histories including an update on the Illinois River

Enhanced production of percid fingerlings using inorganic fertilizers (OH)

July 18, 1996

8:00 Additional technical presentations

Walleye Regulations Symposium update

Saugeye Project update

Walleye Poster update

Transport of walleye fingerlings--a tri-state project

Old and new business

1996 Midwest Fish & Wildlife Conference

Open discussion

12:00 Adjourn

If you would like more information on the Walleye Technical Committee workshop and meeting contact:

Tim Goeman
Minnesota DNR
1601 Minnesota Drive
Brainerd, MN 56401
(218)828-2246; fax (218)828-6022
tim.goeman@dnr.state.mn.us

Minutes of Chapter Meetings

EXCOM Meeting Minutes, January 31, 1996 Cragun's Conference Center

Call To Order: President Carl Richards call the meeting to order at 8:35 p.m.

Approval of October EXCOM Meeting Minutes: Henry VanOffelen asked members to briefly review the minutes that had been passed out before the meeting. It was moved and seconded to approve the minutes.

Educational Framework Request - Linda Erickson - Eastwood: Some discussion of this issue followed its introduction. Motion carried to approve \$200 donation.

Nominations - Rod Pierce: Rod put forth a proposal to change the wording of the Chapter 7a of the procedural manual so that the president elect will be based on a two-year rotation between state DNR personnel and personnel with academic, federal, or open affiliations. The reason behind this change was that it has been difficult in finding candidate from the non-DNR categories in some years and it is believed that combining these groups would alleviate this problem. Some discussion followed regarding other measures that were in place to ensure that diversity of membership in the EXCOM. Rod indicated he would present the changes to the membership at the annual business meeting.

Procedural Manual - Brad Parson for Greg Busacker: Brad announced that he would be taking over the procedural manual for Greg. Some discussion followed as to whether Aldus Pagemaker should be purchased. It was decided not to purchase the software and to convert the document to WordPerfect.

Rivers and Streams - Paul Glander: Paul gave an update on activities in the Straight River watershed.

Fisheries Abstracts - Carl Richards and Bruce Vondracek: Moving forward with plans to put them together.

Outdoor Writers Association Meeting Update - Carl Richards: Carl explained the Chapter had been moving forward with plans to host a room at the OWAA meeting June 18-20. Ginny Snarski had agreed to lead planning of the event. Wisconsin Chapter may co-sponsor the event. After some discussion it was moved and seconded to allocate up to \$1,500 to sponsor a hospitality suite at the Outdoor Writers Association meeting.

News Releases - Carl Richards: Carl reemphasized his interest in having the chapter produce press releases on a regular basis. In 1995, the chapter produce a press release in support of the DNR steelhead plan and had just released a "wetland are important to fisheries" press release. He reported that the process of producing and mailing news releases is a learning experience that has evolved but still needs to be streamlined. In the future, a news release should be written whenever a resolution or policy statement is written.

Non-Participating Survey - Tracy Close: Tracy brought up the idea to survey former members and others fisheries personnel to attempt to determine what factors contribute to a lack of membership and participation in the Chapter. Much discussion followed. Tracy will continue to develop the survey and contact several consulting firms for estimates of a telephone survey.

Ethical Guidelines - Jay Hatch: Jay briefly explained that the he had been looking into developing a set of ethical guidelines for chapter members. He and Dennis Anderson will look at what other groups that have established ethical guidelines and report back at the next annual meeting.

AFS 2000: There was some discussion of the Chapter making a donation to AFS 2000. A motion was made and approved to contribute \$1,250 to the program. Carl indicated that the decision would be presented at the business meeting.

Adjournment

1996 Annual Meeting Minutes, Cragun's Conference Center, February 1, 1996

Call To Order:

President Carl Richards call the meeting to order at 4:35 p.m.

Introduction of Guests:

Jack Wingate was introduced as the Parent Society president and Minnesota Chapter member. After thanking the chapter members for attending the annual business meeting, Jack briefly discussed the following national issues: 1) There is a need to promote Canadian membership activities in the North Central Division (NCD), 2) Advocacy continues to be a controversial topic at all levels and we should look for some upcoming articles in Fisheries, 3) The NCD and its Rivers and Streams Committee have put together a sedimentation policy that has had a positive influence

on the current farm bill, 4) more continuing education opportunities should be available soon; noting that the MN chapter has been a leader in sponsoring workshops, 5) AFS certification policy is under review, new standards should be established in 6 months, continuing ed is likely to be required to maintain eligibility, 6) The Parent Society EXCOM has been changed to a "governing board", and 7) the 1996 annual meeting of the Parent society is this August in Dearborn, Michigan, and 8) Jack provided a brief overview of the AFS 2000 campaign.

Don Pereira was introduced as NCD first vice president. Don highlighted several NCD issues from the Midwest: 1) There was a valuable retreat that began the process of forming an NCD strategic plan similar to that of the parent society, 2) Canadian issues were of concern, there may be a proposal to give some of NCD's rebates to Canadian Aquatic Resources Section. Don explained that this would amount to approximately \$2,000 annually from the NCD budget. There also was some interest in forming Canadian division. 3) The NCD is quite interested in continuing education programs noting that Minnesota has probably been most active having sponsored at least one workshop a year since 1987. Eleven of thirteen NCD chapters have held a continuing education workshop. Chapters should perhaps think about sponsoring continuing ed workshops at the Midwest. 4) NCD awards - most active chapter award was presented to the Kansas Chapter, Meritorious service awards were presented to Dave Phillips and Roy Heidinger, Dick Beard received the best paper award.

Ira Adelman was introduced as the Minnesota representative for AFS 2000 and the certification review committee. Ira reiterated Jack's comments that a new certification policy/standards were due in the next 6 months. Ira's main purpose was to introduce members to the AFS 2000 and ask for support for this endowment. Ira explained that the purpose of AFS 2000 was to generate a \$1.25 million endowment that would primarily support AFS book publications. The endowment is needed because recent publications of books have been delayed because approximately \$100,000 is needed for production costs. The society's goal is to have members donate \$350,000 to the fund with the balance coming from other sources. He explained that this goal could be achieved if 1/3 of AFS members contribute \$125 (\$25/year for 5 years). Some discussion followed Ira's presentation regarding what books are published and that some extremely valuable books that AFS has published are not likely to have been produced by anyone else because of the rather small market. It was moved and seconded to approve a one time donation of \$1,250 from the Minnesota Chapter toward the fund. Motion carried.

1. Approval of 1995 Meeting Minutes

Henry VanOffelen asked members to briefly review the minutes that had been passed out before the meeting and noted that they had been published in the May 1995 newsletter. It was moved and seconded to approve the 1995 minutes.

2. Treasurers Report

Henry VanOffelen highlighted some items on the treasurers report that had been passed out prior to the meeting. The current checking account balance was \$3,319.78. Henry also explained that he had placed \$10,000 in a 7 month CD at 6.04 APR. This account had earned \$354 in interest and all of it had been rolled into another CD at 5.05 APR. The chapter was in sound financial shape with anticipated revenues from the annual meeting and the February continuing education session. It was moved and seconded to approve the 1996 treasurer's report. Motion carried.

Committee Reports

3. Awards - Bruce Vondracek

Bruce reported that no members were in line to receive the 25 year award from the chapter. Someone had been nominated for the chapter's highest award, The Award of Excellence, and that the award would be handed out at the annual awards ceremony during the banquet (to DNR Fisheries Chief, Jack Skrypek). Bruce then presented Bill Thorn with his belated past-president plaque.

4. Continuing Education - Deserae Bushong and Mark Hove

Deserae reviewed the plan for the Social Sciences workshop planned for late February. The Chapter could expect a \$500 profit from this workshop. Mark asked everyone to complete the continuing education survey that had been distributed at the meeting so that the committee could plan another workshop.

5. Long Range Plan - Tracy Close

Tracy indicated that he would help Larry Kallemeyn develop an action agenda for 1996 and suggested that the chapter's long range plan was somewhat dated particularly because the parent society had put together a new strategic plan.

6. Membership - Brad Parsons for Jeff Reed

Membership numbers have been static for at least two years at around 230 members. Brad also indicated that Jeff would be stepping down after this year and urged someone interested in the job to step-forward soon to learn the membership process.

7. Newsletter - Chris Freiburger

Chris thanked members who had contributed to past newsletters and then announced that he was stepping

down as newsletter editor and that Paul Radomski had agreed to take over.

8. Nominations - Rod Pierce

Rod announced the new EXCOM members as follows: Federal - Bruce Vondracek; DNR - Tom Jones; Academic - Ray Newman; and in the Open category - Brian Borkholder. The secretary-treasurer will continue to be Henry VanOffelen and the new president elect was Tim Goeman.

Rod then put forth a proposal to change the wording of the Chapter 7a of the procedural manual so that the president elect will be based on a two-year rotation between state DNR personnel and personnel with academic, federal, or open affiliations. The reason behind this change was that it has been difficult in finding candidate from the non-DNR categories in some years and it is believed that combining these groups would alleviate this problem. Some discussion followed regarding other measures that were in place to ensure that diversity of membership in the EXCOM. Rod assured members that other measures were in place to ensure a diverse EXCOM. After a minor word change, a motion was made and seconded to approve proposed changes regarding election of a president elect. Motion carried.

9. Procedural Manual - Brad Parson for Greg Busacker

Brad announced that he would be taking over the procedural manual for Greg.

10. Public Awareness - Steve Quinn

Steve briefly reviewed his efforts to track exposure of the chapter's video. He found that few stations track PSAs but that we had received valuable air-time from stations that kept record. Steve indicated that the EXCOM was looking into doing another video. He will be working with Ginny on coordinating the Outdoor Writers event.

11. Resolutions - Dean Beck absent

No report, no resolutions had been forwarded.

12. Rivers and Streams - Paul Glander

No report

13. Students - Jerry Grant absent

No report

14. Finance - Henry VanOffelen

No report

EXCOM Member Reports

15. DNR: Dennis Anderson

Dennis reported that the fisheries section budget looks solvent for now; however, without a license increase in 1997 there are likely to be layoffs.

16. Academic: Jay Hatch-No report

17. Federal: Chantel Cook

Chantel reported no issues. Bruce Vondracek explained that the National Biological Service was facing some severe budget cuts and that it may be moved to the U.S. Geological Survey.

18. Other: Larry Schwarzcopf-absent

Old Business

19. Fisheries Abstracts - Carl Richards and Bruce Vondracek

Carl briefly reviewed the idea of having chapter members submit abstracts of any of their work to be put into a central database (the Idaho Chapter had done this). These would be put into a paper and electronic format. Bruce added that he had met with several interested students to discuss the abstracts and that members should look for an announcement in an upcoming newsletter. He expected that chapter abstracts should be completed by the 1997 annual meeting.

20. News Releases - Carl Richards

Carl reemphasized his interest in having the chapter produce press releases on a regular basis. In 1995, the chapter produced a press release in support of the DNR steelhead plan and had just released a "wetland are important to fisheries" press release. He reported that the process of producing and mailing news releases is a learning experience that has evolved but still needs to be streamlined.

21. Outdoor Writers Association Meeting Update - Carl Richards

Carl explained that the EXCOM had voted to allocate up to \$1,500 to sponsor a hospitality suite at the national Outdoor Writers Association meeting in Duluth in June. The meeting should raise the profile of the AFS as a whole. Ginny Snarski had agreed to lead planning of the event. Kristin Merriman-Clarke of the parent society will provide materials and assistance. Ideas are to be forwarded to Ginny.

22. Non-Participating Survey - Tracy Close

Tracy brought up the idea to survey former members and others fisheries personnel to attempt to determine what factors contribute to a lack of membership and participation in the Chapter. Some discussion followed. Tracy will continue to develop the survey and contact several consulting firms for estimates of a telephone survey.

23. Educational Framework Request - Linda Erickson - Eastwood

Linda briefly described the Education Section's youth education committee's efforts to develop an educational curriculum based on a framework of fisheries topics. The EXCOM had approved a \$200 contribution to this

effort and will offer a challenge to other state chapters to contribute. George Spangler added that we should stipulate that any product of these efforts should be available in digital/electronic form.

24. Ethical Guidelines - Jay Hatch

Jay briefly explained that the EXCOM had been looking into developing a set of ethical guidelines for chapter members. Jay and Dennis Anderson had formed an Ad Hoc committee. They will look at what other groups that have established ethical guidelines and report back at the next annual meeting.

25. Trout and Salmon Symposium - Tom Jones

The newly formed NCD trout and salmon technical committee would like to sponsor a symposium at the Midwest Fish and Wildlife conference starting in 1997. Possible topics are Great Lakes fisheries, trout in their native ranges, and trout in non-native ranges. Input is needed.

26. Passing of ESOX0

Outgoing president Carl Richards thanked everyone for the opportunity to be chapter president. Incoming president Larry Kallemeyn was led to the helm of "Esox" by Jack Wingate and Bill Thorn. Larry's first duty as president was to present Carl with a past-presidents plaque and thanked him for his year of service.

27. New Committee Assignments - Larry Kallemeyn

Larry announced the following committee assignments: 1) Resolutions - Mark Cook, 2) Newsletter - Paul Radomski, 3) Procedural manual - Brad Parsons

28. 1996 Chapter Budget - Larry Kallemeyn

Larry briefly discussed the budget that had been passed out. Notable expected income was from the continuing education program and possibly from fundraising at the annual meeting. Large expenditure expected were for the outdoor writers conference event, officer travel, and possible production of a chapter brochure. With the contribution to AFS 2000 and all other expected commitments, it looks as if the Chapter would use some of the reserves it has built-up. Larry announced plans to travel to the spring AFS EXCOM in Washington D.C. so that he can get involved with the Parent Society initiatives and leadership training early in the year. Larry also requested that President elect Tim Goeman have his travel covered for the annual Parent Society meeting to participate in the leadership training prior to his term as president. It was moved and seconded to accept the proposed budget. Motion carried.

29. 1997 Meeting Plans - Larry Kallemeyn
1997 meeting plans are in their infancy. The Dakota chapter has expressed some interest in a joint meeting; however, the 1997 meeting will be the 30th annual meeting and there was discussion of the Chapter having a solo meeting in 1997. There was some discussion of meeting themes and of trying to keep costs lower in order to increase participation. Tim Goeman will coordinate the meeting.

30. 1996 Action Agenda - Larry Kallemeyn

Larry would work with Tracy on an action agenda based on the LRP.

31. Other Items

- The North American Lake Management will be in Minneapolis this year
- The Parent Society is compiling all of their policy statements into one document
- WEB PAGE - George Spangler and several U of M students will put together a chapter web page linked to the Parent Society's

32. Adjournment:

It was moved and seconded to adjourn the meeting. The motion carried and the meeting ended at 6:00.

1996 Annual Meeting Attendants

Bruce Vondracek	Charles Anderson
Jack Wingate	Jeff Gunderson
Dennis Anderson	Robert Merila
Larry Kallemeyn	Paul Radomski
Tracy Close	Bill Thorn
Steve Quinn	Don Pereira
Brad Parsons	Paul Pajak
Julie Gran	Brian Borkholder
Steve Haeseker	Mary Negus
Melissa Drake	Tom Jones
Ray Newman	Chantel Cook
Wayne Barstad	Tim Goeman
Anne Kapuscinski	Chris Freiburger
Deserae Bushong	Mark Hove
Keith Reeves	Rick Bruesewitz
Neal Mundahl	Kevin Stauffer
Chris Kavanaugh	Harlan Fierstine
Mark Nemeth	Darryl Bathel
Jay Hatch	George Spangler
Mark Cook	Virginia Snarski
Gary Siesennop	Bob Bellig
Bob Ekstrom	Sally Bruesewitz
Carl Richards	Henry VanOffelen
Linda-Erickson-Eastwood	

Upcoming Events

May 26-30: 39th Annual Conference on Great Lakes Research. Mississauga, Ontario. Contact Gary Sprules 905.828.3987.

July 16-18: Walleye Technical Committee Mid-Summer Workshop. Dubuque, Iowa. Contact Tim Goeman 218.828.2246.

July 16-17: Centrarchid Technical Committee Summer Meeting. Prairie du Chien, Wisconsin. Contact Melissa Drake 612.772.7966.

July 24-25: Esocid Technical Committee Summer Workshop. LaCrosse, Wisconsin. Contact Dave Neuswanger 816.785.2420.

August 3-7: 5th National Volunteering Monitoring Conference: Promoting Watershed Stewardship. Madison, Wisconsin. Contact Celeste Moen (fax) 608.267.2800.

August 7-9: Annual Meeting of the AFS Fish Health Section. Madison, Wisconsin. Contact Terry Ott 608.783.8443.

August 11-16: 11th International Association of Astacology Symposium. Thunder Bay, Ontario. Contact Walter Mormot 807.343.8277.

August 25-29: The 126th Annual Meeting of the AFS. Dearborn, Michigan. Contact Paul Brouha 301.897.8616.

November 13-16: 16th Annual Meeting of the North American Lake Management Society. People, Lakes and Land: Puzzling Relationships. Radison South, Minneapolis, Minnesota. Contact Steve Heiskary, PCA, 612.296.7217

December 8-11: Annual Meeting of the AFS North Central Division. Omaha, Nebraska. Contact Darrell Feit 402.332.3901.

February 10-14, 1997: American Society of Limnology and Oceanography, Aquatic Sciences Meeting. Sante Fe, New Mexico. Contact Jonathon Cole 914.677.5343.



Contributions: Letters and Commentary

The Environmental Indicators Initiative by Paul Pajak, Minnesota DNR

The need to address increasingly complex environmental problems has led to heightened interest in "ecosystem-based" approaches to resource management. Simply put, this means we are all suppose to keep the "big picture" in mind, both social and ecological, as we manage aquatic resources. And though most fisheries professionals are probably comfortable with this approach, few would disagree that resource professionals and decision-makers still lack the necessary tools to monitor and evaluate our progress in this direction. "Environmental indicators" offer great potential to remedy this problem.

Environmental indicators are selected measures that provide vital information about long-term trends in ecosystem health. In Minnesota, the state Environmental Quality Board (EQB) is currently overseeing the Environmental Indicators Initiative (EII). This effort, funded initially for two years by the Legislative Commission on Minnesota Resources (LCMR), has outlined a process to select preliminary indicators by June 1997. The approach is designed to develop/select indicators that are both socially relevant and scientifically sound. Regional workshops are a key component of the approach and will help ensure that selected indicators meet both local and regional needs. Products of the first phase of the project include: 1) cataloging of existing environmental databases, 2) development of indicators in pilot areas/ecosystems, 3) a "State of the Environment" report, and 4) design of an Environmental Indicators Network for coordinated and consistent monitoring of environmental indicators. The EII is being guided by a Task Force representing several state/federal agencies, academia, industry, and conservation interests. For more information contact me at: Minnesota DNR, Office of Planning, 500 Lafayette Road, St. Paul, MN 55155-4010; (612) 297-3357; e-mail: paul.pajak@dnr.state.mn.us



Great Lakes Indian Fish & Wildlife Commission - Its Purpose

by Steve Haeseker, GLIFWC, Mille Lacs Station, Onamia, Minnesota

Working as the Mille Lacs Inland Fisheries Biologist for the Great Lakes Indian Fish and Wildlife Commission (GLIFWC), I am frequently asked questions about my organization and its purpose. Some people have never heard of it, while others know only small bits of information. In an effort to help elucidate, I would like to share some information about the history and mission of my organization.

The GLIFWC is an intertribal natural resource management organization. GLIFWC assists its eleven member Chippewa bands in the implementation and protection of off-reservation rights in the ceded territories. Policy is determined by the Board of Commissioners, which is comprised of a representative from each member band.

GLIFWC formed following the 1983 Voigt Decision which reaffirmed the off-reservation rights of the Chippewa in the ceded territories of Wisconsin. The affected Chippewa bands merged with the Great Lakes Indian Fisheries Commission, which represented just those bands exercising off-reservation treaty commercial fishing rights in Lake Superior.

We are involved in off-reservation treaty resource management and enforcement of tribal regulations governing harvest in the ceded territories of Michigan, Minnesota and Wisconsin. GLIFWC maintains satellite enforcement offices on all member reservations, with the exception of Fond du Lac.

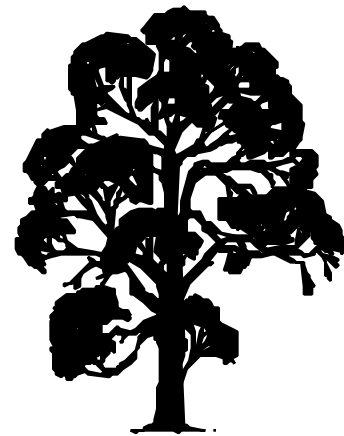
GLIFWC provides biological expertise in the areas of inland fisheries, Great Lakes fisheries, waterfowl, wildlife, wild plants, and the environment. Activities include ongoing assessments of many resources, recommendations regarding safe levels of harvest, resource enhancement projects, involvement in cooperative management activities with state, federal and local-level resource management agencies, and monitoring of all off-reservation hunting, fishing and gathering seasons.

In Minnesota, GLIFWC has assisted the Mille Lacs Band with fall walleye recruitment surveys and in developing an inventory of the lakes within the 1837 Treaty area. Stocking history and fish surveys for these waters have also been compiled. GLIFWC has participated in studies to determine the amount of fish predation on river ruffe in the St. Louis River and Duluth harbor area in cooperation with the U.S. Fish and Wildlife Service. Along with the Mille Lacs and

Fond du Lac bands, GLIFWC works with the Circle of Flight Initiative which targets wetlands and waterfowl enhancement projects and wild rice re-seeding efforts.

On a more personal note, I began working for GLIFWC in September 1995. Prior to starting this position, I earned my B.S. in Wildlife and Fisheries Biology from the University of California-Davis, and my M.S. in Zoology from North Carolina State University. For my master's thesis, I used a combination of electrofishing and telemetry to assess the striped bass populations within the coastal estuaries of North Carolina.

My professional interests include population dynamics, stock assessment, fisheries management and aquatic education. Although most of my experiences have involved marine systems, I am eager to learn more about freshwater systems and their associated fish communities. My hope is that, with GLIFWC's help, our understanding of natural resources and their management will continue to increase.



Fisheries Professional Standards and the Employee

editor's note: this was taken from a recent panel discussion on professional standards for fisheries workers

Shakespeare remarked, "he who steals my purse steals trash, but he that filches my good name robs me of that which not enriches him and makes me poor indeed." The sage statement, I think, points up the main value of professional standards to employees in fisheries work--and we are all employees. We must have a "good name" or "we are poor indeed." Having a good name, in the sense of scientific reputation and respect, is a matter of many things--such as adequate training, professional know-how, professional ethics, and not the least, as our medical friends full well know, it is

also a matter of proper bedside manner. We must act like professional people and to do this we must have professional self-confidence.

How can this professional name, manner, and confidence be acquired? First, we fisheries workers must recognize that there is a fisheries profession, on which requires professional training, understanding, and experience. I think the very fact that we are here at this meeting shows that we do recognize our work as such. It is a young profession to be sure, but a profession nevertheless. It is a profession that only during the past 20 years has come to be recognized by many conservation administrators.

But the public often does not know about it and us. The fish truck is still often the only mental symbol that people visualize when they hear the words "fish conservation." The man on the street often feels that his opinions on fisheries research and management are as good as those of the professional worker who has spent 20 years studying such subjects. And, as those of us in governmental work know, he is not bashful about expressing his opinions. And he should be heard. With patience and professional approach his thinking and problems can usually be straightened out. We should remember, that at the present juvenile state of our knowledge, the man on the street might sometimes be right. He might have the right answer for the wrong reason. It has happened. This is why MD's talk with a patient and say "hmmm."

Adequate professional training is, of course, the first requisite for professional status and recognition. We must know what we are doing and our administrators and, as far as possible, our employer--the public--, must be made aware that we a specially equipped to do a special job. Only then can we have the recognition, respect and pay due members of a qualified profession.

Also, we must have a recognized professional name or title in addition to the multitude of civil services titles we now hold. Everyone knows what an Attorney-at-Law is, or Registered Nurse or Certified Civil Engineer. These titles represent a degree of achievement and proficiency that commands public respect and trust. Possibly, for us, a name like Professional Fisheries Biologist might do. The English system of titles or initials after a man's name indicating his achievements has much to be said for it. It identifies a man's capabilities, and one should be proud of his achievements and recognition. We need such in the biological professions.

There are little things we can do to build up our "good name." Members of other professions frame their academic titles and certificates of membership in

professional societies and hang them on the office wall where the public can see them. We say "ah shucks, we're just some of the boys and let's keep the stuff hidden in the desk drawer." It appears to me that we are going to be "just some of the boys" as long as we behave that way. Also, too often fisheries field workers look like biological tramps. Ask any policeman--he will tell you the value of looking the way a professional should look.

Use of language is another important matter. Nothing degrades a profession faster than the poor letter, the sloppy report, and the poorly prepared speech. As professional men, we should take professional pride in such things. It is up to the universities to see that conservation students are adequately trained in language skills. As editor of the Transactions of the American Fisheries Society, I can only say that writing skills in the profession are often at a deplorably low level.

Professional standards can do much for the employee. They can build his usefulness, his self-respect, and his standard of living. A good name is what we all want--it is what the fisheries profession needs.

By John B. Moyle, presented at the Midwest Wildlife Conference, December, 1956.

Fisheries Action Network

By Jeff Reed

The last month has seen a flurry of activity as the Minnesota Legislature wrapped things up and the 1996 Farm Bill was signed into law. At the state level, the Wetlands Conservation Act was revised and signed by Governor Carlson. The new version is less restrictive and gives counties with 80% of pre-settlement wetlands a tremendous amount of leeway. It also gives agricultural interests the ability to drain wetlands that are maintained by state and county subsidized ditches. The minimum area that must be mitigated was raised from 400 square feet to 2,000 - 10,000 square feet, depending on the amount of pre settlement wetlands remaining in the region. The definition of "agricultural land" was broadened, thus expanding the application of agricultural exemptions. Perhaps the only bright spot for fish was that shoreline wetland rules remained (for the most part) in tact. A summary is available from BOWSR @ 612-296-3767.

On a much brighter note the Farm Bill shaped up to be much more environmentally friendly than most people could have imagined. We can thank Pheasants Forever

and the National Audubon Society for fighting for the Wetland and Conservation Reserve Programs (WRP and CRP) and stripping the House version of very damaging amendments to wetland conservation. Another amendment (Brown) which would have removed the U.S. Forest Service's authority to issue minimum flows was also removed at the last minute. Some of the Farm Bill highlights include:

*The Environmental Quality Incentives Program which will focus on assistance to locally-identified conservation priority areas or areas where agricultural improvements will help meet water quality goals. Fifty percent of the funds are dedicated to conservation associated with livestock production.

*WRP and CRP are both extended through 2002. In the WRP, landowner will be able to choose either permanent or 30-year easements, or restoration-only cost-share agreements.

*Swampbuster and wetland provisions from 1985 and 1990 were modified to provide more flexibility to meet wetland conservation compliance requirements. Modifications include expanding areas where mitigation can be used, allowing mitigation by restoration, enhancement or creation, and changing abandonment clauses.

*The new Wildlife Habitat Incentives Program provides \$50 million over the next seven years to help landowners improve wildlife habitat on private lands.

*A Flood Risk Prevention Program was established that allows farmers who voluntarily enter into contracts to receive payments on lands with high flood potential. In return, participants agree to forego certain USDA program benefits. These payments provide incentives to move farming operations from frequently flooded land. The Emergency Watershed Protection Program was amended to allow the purchase of floodplain easements.

There are numerous environmentally damaging bills in the works in Washington D.C. For anyone interested in finding out more about the current anti-environmental sentiment in Washington, I suggest you get a copy of *The Browning of America: The Republican Assault on the Environment*. Although a partisan publication, it is very enlightening. Copies can be obtained by calling 202/255-6065.

Finally, fishing joined the ranks of hunting, circuses, rodeos, farming, and pet ownership as Peta (People for the Ethical Treatment of Animals) announced through a national media blitz that it will target sport fishing this summer. According to Steve Quinn, who has followed the animal-rights movement for a number of years, this attack on fishing has been brewing for a several years. Although the average angler has little to worry about, tournaments, especially high-profile

tournaments near metropolitan areas, could be the target of Peta protests. The main goal of these protests is to gain media exposure for their cause and they generally try to provoke a confrontation to achieve this attention.

At this point as professionals we are not likely targets, however, some of our clientele might be and may turn to you for advice on how to deal with these folks. According to Terri Greer, who has dealt with animal rights issues for the Professional Rodeo Cowboys Association in Colorado Springs, Colorado for ten years, there are two rules to follow should an event come under protest. First, let them do their thing and under no circumstance should anyone participating in the event become confrontational. Secondly, have a pre-picked representative that can calmly speak to the media. This person should be able to give factual information about fishing and fish in an unemotional manner and also be versed in the animal-rights agenda. If possible, have the media speak to the protestors first. If you need further information please feel free to contact me @ 320-634-4573.

Other Important News

Resolution of Respect

The R.V. Frie Memorial Fund has been established in memory of Dr. Richard Frie. This memorial fund will be at the University of Wisconsin - Stevens Point where it will finance a scholarship for fisheries students. If you would like to contribute to the scholarship, checks should be made out to the R.V. Frie Memorial Fund, and sent to the following address:

R.V. Frie Memorial Fund
c/o Sue Cox
College of Natural Resources
University of Wisconsin-Stevens Point
Stevens Point, WI 54481

Plastic Gas Can Alert!!

Boat U.S. has issued a warning in their latest newsletter to be careful when filling plastic gas containers for your outboard motor. The problem occurs if a plastic gas can is left in the truck of the car or on any other plastic surface, such as the bedliner of a pickup truck. The container should be taken out of the trunk and placed on the ground.

The filling of the plastic container produces static

electricity, which must be grounded. The plastic gas container can not ground if resting on a plastic surface. Explosions have been reported when the static electricity arcs from the container to the pump nozzle. Therefore, remove all gas containers from your vehicle before filling them.

Minnesota Water Line

A toll free phone service, 1-800-455-4526, now provides citizens of Minnesota with water information. The Water Line will take people's questions about household water issues, wells, septic systems, resources issues, and other water related concerns.

Wisconsin DNR is Reorganizing

A private consulting firm was hired to recommend improvements in the department's structure and operation. The recommendations included: improve customer service, align programs into water, land and air divisions, reduce upper level staff at all levels (supervisory ratio of 1:10), and work teams organized by water basin.

The former Bureau of Fisheries is now in the Division of Water and named the Bureau of Fisheries and Habitat Management. The new bureau will be a combination of fisheries, water resources and water regulation and zoning personnel. The former Bureau of Research was combined with several other bureaus to form the Bureau of Integrated Science Services and has been reassigned to the Division of Enforcement and Science.

At the field level, there will be water basin teams which will be supervised by one Regional Water Leader Supervisor. The new staff assignment process has already begun with the selection of the top administrators and will move down through the ranks as each level of new positions are filled. The entire process is planned to be completed by the end of 1996. (taken from an article by Lee Myers, Wisconsin Chapter Newsletter, April 1996)

Call for Excellence in Education Nominations

The AFS Excellence in Fisheries Education Award is presented annually to an individual to recognize excellence in organized teaching and advising in fisheries education. Nominees must be an AFS member and have had at least 10 years of professional employment experience in fisheries education. The nomination deadline is June 1, 1996. Nominations should be sent to: Thomas Coon, Dept. of Fisheries and Wildlife, Michigan State University, East Lansing, MI 48824

Interesting Articles and New Publications

Freshwater Ecosystems and Their Management: A National Initiative. *Science*, Oct. 27, 1995. The authors, R. Naiman, J. Magnuson, D. McKnight, J. Stanford, and J. Karr, discuss critical water-related problems and research priorities in freshwater ecosystem management.

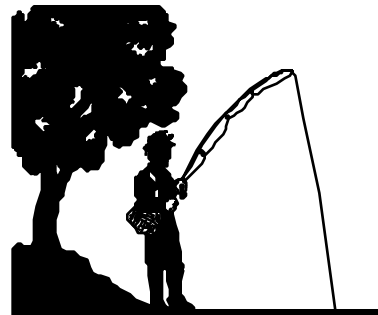
Consequences of Climate Warming and Lake Acidification for UV-B Penetration in North American Boreal Lakes. *Nature*, Feb. 22, 1996. D. Schindler et al. report observations from 20 years of whole-lake acidification experiments, which show that climate warming, acid deposition, and increasing exposure to ultraviolet radiation are intimately linked.

Recent and Future Demand for Walleye in North American. *Fisheries*, Jan. 1996. R. Fenton, J. Mathias, and G. Moodie reviewed walleye stocking programs in North America and concluded that walleye stocking will likely increase in the future.

Age at Maturity as a Stress Indicator in Fisheries. *Bioscience*, Dec. 1995. E. Trippel discusses causes of early maturity and the importance of large fish in a population.

Pike: Biology and Exploitation. J.F. Craig, editor. 1996. A good review of northern pike biology and management; a must have book for fisheries managers in Minnesota.

The State of the World's Fisheries Resources. C.W. Voigtlander, editor. 1994. Beverton talks about the state of fisheries science, Pauly talks about assessment methods and fish management. Many chapters of this book make for interesting reading.



Quote of the Issue

"a fully industrialized, thoroughly urbanized, elegantly computerized social system is not suitable for human habitation. Great for machines, yes. But unfit for people." Edward Abbey, *The Serpents of Paradise: a Reader*.

We are soliciting ideas for our next education workshops. For those of you who haven't filled out this form, please share your thoughts on workshop topics. Send the form to Mark Hove at 1980 Folwell Avenue, St. Paul, MN 55108, or via email to mh@fw.umn.edu.

Below is a list of courses previously offered by our chapter and courses offered in other parts of the country. Please mark those topics you'd be interested in for a future workshop.

<u>Previous MN AFS C.E.C. Courses</u>	<u>Possible topics</u>
<input type="checkbox"/> 1995 Genetics and fisheries management	<input type="checkbox"/> Computer applications in fisheries
<input type="checkbox"/> 1994 Fluvial geomorphology	<input type="checkbox"/> Sport fishery assessment & creel surveys
<input type="checkbox"/> 1993 Non-parametric statistics	<input type="checkbox"/> Urban stream management
<input type="checkbox"/> 1993 Larval fish identification	<input type="checkbox"/> Fish health & condition assessment
<input type="checkbox"/> 1991 Growth assessment	<input type="checkbox"/> Fish marking techniques
<input type="checkbox"/> 1990 Statistics	<input type="checkbox"/> Environmental ethics application
<input type="checkbox"/> 1989 Bioenergetics	<input type="checkbox"/> How to testify as an expert witness
<input type="checkbox"/> 1988 Community dynamics	<input type="checkbox"/> Sampling techniques
<input type="checkbox"/> 1987 Scientific (technical) writing	<input type="checkbox"/> Watershed and stream restoration

If you have any suggestions regarding a teacher or additional topic(s) please list them below.

1996 Minnesota Chapter Application

Name: _____

Address: Work _____

Home _____

Phone: _____

Fax: _____

e-mail: _____

Send newsletter to Home or Work address?

Are you a member of AFS? yes no. Membership Number _____

(AFS membership number is located on your Fisheries mailing label)

Affiliation: _____

(DNR, Federal Government, Academic, Tribal, or Private)

Job Title: _____

Year Joined AFS: _____

Year Joined MN AFS: _____

Check if you are a Student:

Check if you don't want to be in the Chapter Directory:

Please send \$7.00 (Chapter dues) and the completed application to Henry Van Offelen, 1601 Minnesota Drive, Brainerd, MN 56401.

1996 Award Nomination Form

Check which Award:

Chapter Award of Excellence

Special Recognition Award

Name of Nominee: _____

How and Why the Nominee is worthy of the award:

Name of Person nominating the candidate (optional): _____

Please send the completed application to Bruce Vondracek, UM-Fish and Wildlife, 200 Hodson Hall, 1980 Folwell Avenue, St. Paul, MN 55108; fax 612.625.5299

Please rush Sea Fare-The Official American Fisheries Society Cookbook, Volume 1

@ \$15.00 Nonmember price

@ \$12.00 Member price

@ \$10.00 Bulk order price (5 copies or more)

Shipping: add \$4.00 per book for the first book order and \$1.00 for each additional book shipped to the same address.

Total enclosed

Check MasterCard Visa

Card no. _____

Exp. date _____

Signature _____

Name _____

Address _____

City _____

State and ZipCode _____

Send orders to: AFS, Publication Fulfillment, P.O. Box 1020, Sewickley, PA 15143
(412)741-5700; FAX (412)741-0609

Minnesota Chapter Officers**President:**

Larry Kallemeyn
3131 Hwy 53
International Falls, MN 56649
218.283.9821; fax 218.285.7407

President-elect:

Tim Goeman
Minnesota DNR
1601 Minnesota Drive
Brainerd, MN 56401
218.828.2246; fax 218.828.6022
tim.goeman@dnr.state.mn.us

Past President:

Carl Richards
NRRI-UMD
5013 Miller Trunk Hwy
Duluth, MN 55811
218.720.4332; fax 218.720.9412
crichard@sage.nrri.umn.edu

Secretary-Treasurer:

Henry VanOffelen
Minnesota DNR
1601 Minnesota Drive
Brainerd, MN 56401
218.825.3001; fax 218.828.6011
henry.vanoffelen@dnr.state.mn.us

Committee Chairs:

Awards: Bruce Vondracek 612.624.3421

Continuing Education: Mark Hove 612.624.0744
Deserae Bushong 612.345.3365

Long Range Planning: Tracy Close 218.723.4785

Membership: Jeff Reed 612.634.4573

Newsletter: Paul Radomski 218.828.2665

Nominations: Mark Cook 218.755.2974

Procedure Manual: Brad Parsons 612.634.4573

Public Awareness: Steve Quinn 218.829.1648 infishsl@aol.com

Resolutions: Wayne Barstad 612.772.7900

Rivers and Streams: Paul Glander 218.847.1579

Students: Jerry Grant 612.624.7495 jcg@finsandfur.fw.umn.edu

Excom Members:

Minnesota DNR:
Tom Jones
Minnesota DNR
5351 N. Shore Drive
Duluth, MN 55804
218.723.4785; fax 218.725.7783

Federal:

Bruce Vondracek
UM-Fish and Wildlife
200 Hodson Hall
1980 Folwell Avenue
St. Paul, MN 55108
612.624.3421; fax 612.625.5299
bcv@finsandfur.fw.umn.edu

Academic:

Ray Newman
UM-Fish and Wildlife
1980 Folwell Avenue
St. Paul, MN 55108
612.625-5704; fax 612.625.5299
rmn@fw.umn.edu

Open:

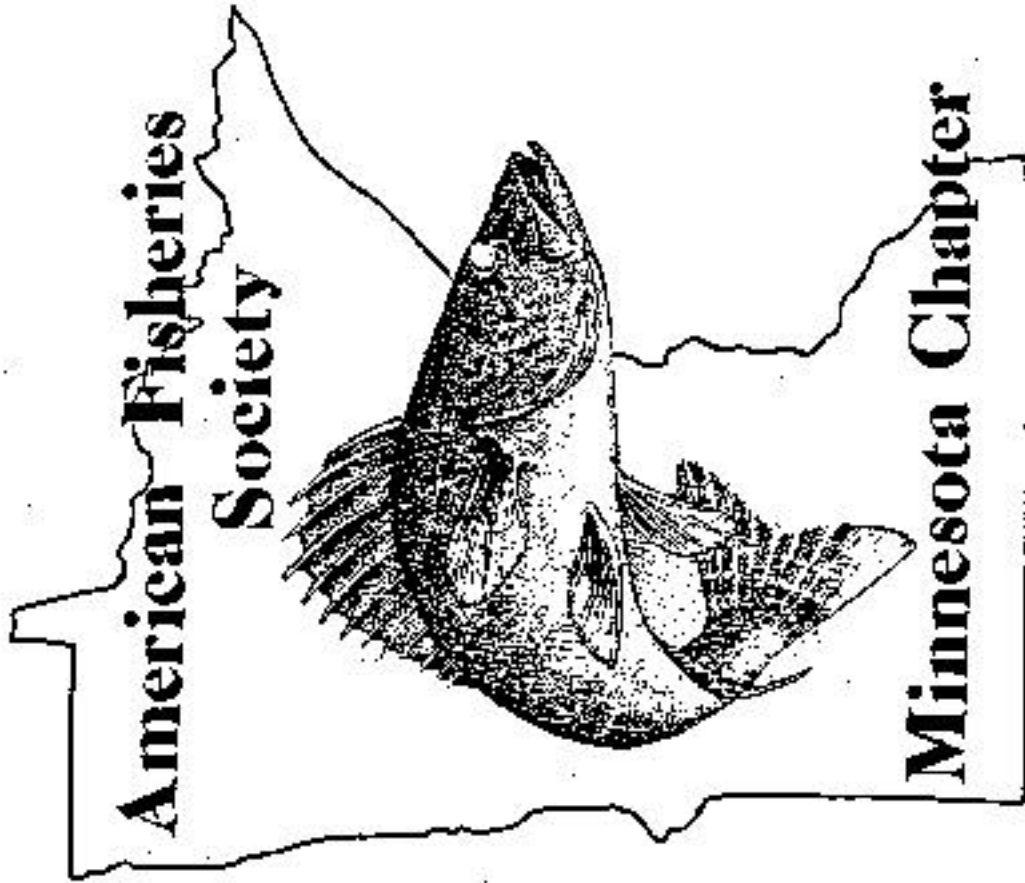
Brian Borkholder
Fond Du Lac Natural Resources
105 University Road
Cloquet, MN 55720
218.879.1759; fax 218.879.4146
fdlnrp@uslink.net

Internet and E-mail:

Minnesota Chapter of the AFS WWW page:
<http://www.fw.umn.edu/mnafs>

American Fisheries Society WWW page:
<http://www.esd.ornl.gov/AFS>

AFS e-mail list:
to subscribe, send e-mail to : majordomo@wyoming.com
leave the subject blank, with the following text:
subscribe afs-l *your address*
where *your address* is your internet address



Minnesota Chapter AFS
1601 Minnesota Drive
Brainerd, MN 56401

U.S. POSTAGE
PAID
GRAND RAPIDS, MN
PERMIT NO. 545