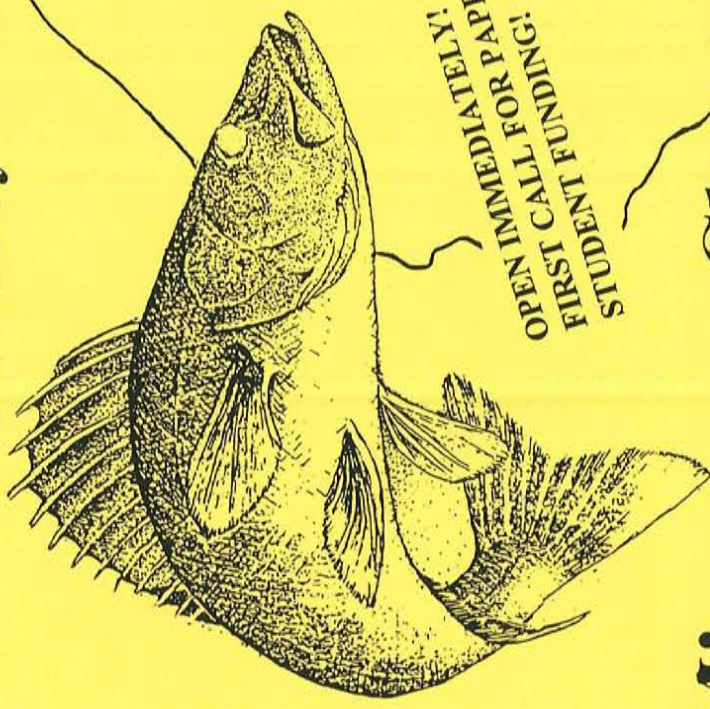




American Fisheries Society



Minnesota Chapter

OPEN IMMEDIATELY!
FIRST CALL FOR PAPERS!
STUDENT FUNDING!

AFS

DECEMBER 1994

Richard - file

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PRESIDENT'S MESSAGE

by Bill Thorn

Tim Goeman, as NCD representative, and I attended the 1994 AFS meeting in Halifax, Nova Scotia. Below are some notes. If you have further questions, contact Tim or me.

EXCOM RETREAT

The Excom divided 55 issues into external and internal affairs. Internal affairs, or the governing of the Society took most of the day. Discussion included: roles of officers, Excom, and subunits; "excessive" diversity of Society; re-organization; time availability and communication needs; role of retreats; membership services; and the strategic plan. The major external affairs discussion centered on advocacy. This is basically public education and most preferred this term, rather than advocacy. Members developed a consensus that the Society can successfully advocate on conservation, scientific, and technical issues; but not on allocation or non-science issues. A Society committee has prepared a draft statement on advocacy and ethics.

EXCOM MEETING

President Hubley reviewed the year, and Executive Director Brouha discussed the 8 goals of the present work plan. This year will be a year of transition between strategic plans. The topic for the point/counterpoint discussions at Division meetings will be "will ecosystem integrity be compromised for fishery objectives?" President-elect Redmond explained his proposed 1995 Work Plan with 4 major areas: Advance Fisheries Conservation, Disseminate Fisheries Information, Promote Fisheries Profession, and Improve Organization Structure and Capabilities.

1994 BUSINESS MEETING

See future Fisheries' for better notes than I can provide.

STOCKS AT RISK MEETING

Chapters, Divisions, and Committees gave reports on various "stock" problems. The facilitator listed efforts, ideas, threats, needs, and the role of AFS. Most present concern centers on western salmonids, and future concern for marine species seemed unlimited.

FISHERIES ACTION NETWORK (FAN) MEETING

The role of FAN in President-elect Redmond's work plan was explained. Status of present FAN topics (stocks at risk, sediment, Great Lakes, Large rivers, and rivers at risk, and implementation of the North American Fisheries Action Agenda) was discussed. Members should understand FAN because it will be the vehicle to transmit science-based information in the future. Jeff Reed, our FAN chairman Jeff Reed, will explain chapter involvement in a separate article in this newsletter.

A reminder - if you have comments on the proposed combining of the Public Awareness Committee (special committee) and Public Education Committee (ad hoc committee) into a single Public Education Committee (standing committee), as printed in the last newsletter, get them to me. We will be voting on this proposal at the annual meeting. Then President-elect Richards can appoint and charge this committee with carrying out the member priority of education and advocating.

ATTENTION 1969 AND 1970 YEAR CLASSES!!!!!!

The Chapter awards 25 Year Membership Certificates to members who have been active for 25 Consecutive years. Because we do not have records from the early years of the Chapter (except for Charter Members), anyone who has been a member since 1970 should contact Jeff Reed.

At last year's registration several individuals were identified as being 25 year members (members since 1969) unfortunately it was too late to issue certificates. We would like to give these awards at the 1995 Annual Meeting, however, there may be more of you out there, If you have been a member since 1969 please contact Jeff Reed.

T-SHIRT NEWS!!

T-shirt sales have been quite slow as of late, but sales should pick-up during the Holiday season. The big news is that several **new species** have been added to our T-shirt selection. These include: **Steelhead, Sockeye Salmon, Golden Trout, Yellowstone Cutthroat Trout, Rainbow Darter, and Striped Bass (printed on a dark green shirt)**. All other species are still available and can be ordered

using the order form enclosed with this newsletter. **Bluegill** T-shirts are expected to be available at the annual meeting, perhaps even in children's sizes. These shirts are becoming more popular. I have noticed them in a couple of retail outlets for about \$20. MN AFS will continue to sell them for \$14. If you are still looking for Christmas presents, these shirts make a great rather inexpensive gift.

CALL FOR PAPERS

27th Annual Meeting Minnesota and Iowa Chapters American Fisheries Society February 22-23, 1995

The 27th Annual Meeting of the Minnesota Chapter of the American Fisheries Society will be held jointly with the Iowa Chapter. The meeting will be held on February 22-23, 1995 at the Village East Resort and Conference Center, at Lake Okoboji, near Spirit Lake, Iowa.

The program is open to contributed papers on any general subjects related to fisheries, aquatic ecology, limnology, aquaculture, and aquatic toxicology. Ideas and organizers for special sessions are welcome. Both oral and poster presentations are encouraged.

Anyone who would like to present a paper or poster at the meeting should send a short abstract to Carl Richards, the program chair (address below). **The abstract deadline is January 6, 1995.** Please indicate the title and full addresses of the authors. If possible, please submit the abstract on disk in Word Perfect format or as an ASCII file. Papers must be kept to fifteen minutes in length. Also note that only slides will be allowed for presentations -- no overheads. Please create slides that are concise, enhance your message, and are readable.

Lodging. The Village East Resort and Conference Center has reserved a block of rooms for the meeting. Rates are \$50 per night plus tax single occupancy, and \$60 per night double occupancy. Food is available at the resort and at several restaurants within a short distance.

Village East Resort (712) 332-2161
(800) 727-4564

Send Abstracts to: Carl Richards
Natural Resources Research Institute
University of Minnesota - Duluth
5013 Miller Trunk Hwy
Duluth, MN
(218) 720-4332 --work
(218) 724-1243 --home

MINUTES OF MINNESOTA AFS CHAPTER EXCOM

October 18, 1994

St. Paul, MN

Members in attendance: Bill Thorn, Don Pereira, Chris Kavanaugh, Carl Richards, Steve Hirsch, Paul Pajak, Neal Mundahl, Larry Schwarzkopf, Greg Busacker, Henry Drewes, Lynn Maher, Bruce Vondracek, Deserae Bushong, Tracy Close, Chris Freiburger.

1. **Call to Order - B. Thorn** - Meeting was called to order and everyone was welcomed.

2. **Approval of Minutes - C. Kavanaugh** - Minutes from the Spring EXCOM meeting were reviewed, motion to approve, seconded, passed.

3. **Treasurer's Report - C. Kavanaugh** - Treasurer's Report was distributed and reviewed. Motion to approve, seconded, passed.

4. **Annual Chapter Meeting Plans - C. Richards** - Will meet with the Iowa Chapter at the Village Lake East in Spirit Lake, Iowa. Thanks to Huon Newburg for checking on the location. Meeting will begin with a social during the evening of February 21, with papers on February 22-23. EXCOM will meet on the 21st. Rivers and Streams Committee will also meet on the 21st. Business meeting to be held at 3:00 p.m. on the 22nd.

A theme has not been identified yet. The first call for papers will be advertised in the next newsletter along with the meeting announcement. Last call for papers will go out with the meeting mailing.

COMMITTEE REPORTS

5. **Awards - B. Vondracek** - Need six volunteers to judge papers at the meeting. Close and Pajak volunteered.

6. **Continuing Education - D. Bushong** - Mark Hove will help as co-chair. The Fluvial Geomorphology Course had 52 participants. We are still waiting for some bills. General feedback from participants was positive.

A genetics course will be offered April 5-7, 1995 at the University of Minnesota St. Paul campus. The instructors will be Anne Kapuscinski, Mark Gross, and Eric Hallerman. Limit of 40 participants due to lab space. Cost is anticipated to be \$200 per

person, without lodging or meals. Cost is determined on a minimum of 25 participants to cover our expenses. A discussion on advertising the workshop focused on concern there would be enough interest from our chapter to fill the class. Suggestions included advertising in "The Mainstream", Fisheries and possibly an announcement at the Midwest.

The questionnaire in the last newsletter on future workshops yielded very few responses. There is some concern about "competing" with the Federal Aid Office in terms of offering workshops. The Federal Aid Office is currently working with the NCD Rivers and Streams Tech. Committee to look at low head dam fish passage.

7. **Issues - D. Pereira** - Clearing and Snagging; Letter sent to DNR Commissioner's Office and their response was distributed. It appears the Commissioner's Office is taking it seriously now and will have DOW and Fisheries form a work group and have made it a high priority to be resolved internally. Anticipate some progress through the 'work group' by February. The availability and distribution of AFS Stream Obstruction Removal Guidelines may be a question that needs resolution.

Miller Creek: Carl Richards distributed a handout describing the current status of the issue and suggested recommendations. We need a watershed wide plan that consolidates agency programs to develop and implement a holistic approach to solutions. Miller Creek was considered in the DNR Pilot Watershed Project but was dropped early in the process. Pereira has asked chapter members on the DNR Watershed staff to draft a letter of support for the project. Freiburger noted that someone needs to step forward and coordinate the project, with a coordinator we can compete for grants. Richards noted that some coordination is taking place in the watershed, EPA Great Lakes Program may be a source of funding. Schwarzkopf added that LCMR funding, as is being done for the St. Louis River Corridor Plan, would be a good place to start. Pajak asked what the MN Chapter's strategic role in this effort would be. He suggested we should use this opportunity to develop a citizen's guide to watershed management and identify laws and funding sources that can help guide the process. There was some discussion of a public education program in Missouri that does this.

Thorn suggested the chapter take a two-prong approach:

- 1) Pereira and Hirsch will draft a letter to DNR Commissioner Sando outlining the key attributes of the stream and the need to protect it.
- 2) Pereira will lead a group in developing a packet of information for organizing the project as a watershed project. Participants suggested include the chapter Rivers & Streams Committee, DNR Watershed Staff, Pajak, Hirsch, Richards, Drewes, Freiburger, Schwarzkopf. Pereira is looking for additional input on who should participate. Pereira hopes to provide an update on progress by the February EXCOM.

8. Long Range Planning - T. Close: Not much to report, gets busier around annual meeting. Compliments were extended to Thorn for having EXCOM member to lead Action Agenda items. Will seek verbal input at the business meeting, response is typically sparse but valuable. Will provide some information in the pre-meeting newsletter so members can think about it beforehand.

9. Membership & FAN - B. Thorn: No report from Reed. Thorn and Reed will author a report on FAN (Fisheries Action Network) in the next newsletter. They are considering putting together a poster for the annual meeting.

10. Newsletter - C. Freiburger - Bulk mail permits are now in place. Asked members to provide a short report on workshops attended. The next newsletter will come out in early December, all submissions are welcomed and encouraged. Rod Pierce suggested that the newsletter include a profile on the universities and their current research projects.

11. Nominations - R. Pierce - Thorn reported that only one nomination has been received for President-Elect. (This year it should be from the Federal category). Nominations are also being sought for EXCOM - Open, Federal, and Academic.

12. Procedural Manual - G. Busacker - The proposal for the Public Education Committee has been reviewed and it looks good. Needs to be put in newsletter, only changes to the bylaws will be published. Will be voted on at the business meeting. The Parent Society has done some preliminary review.

13. Public Awareness - S. Quinn - Thorn distributed a memo from Quinn. The chapter video is essentially ready to go. Quinn has contacted a number of TV stations to determine the format required. The Parent Society is developing a 15 minute video titled "This is the AFS". The draft looks great at this point, sections and chapters should get a chance to review it soon.

14. Resolutions - D. Beck - Thorn reported that no resolutions have been received.

15. Rivers and Streams - H. Drewes - Fluvial workshop appears to have been a big success. Planning to have a two hour committee meeting at the annual meeting with several technical presentations and an invitation extended to Iowa members.

The NCD farm bill briefing statement was well received by the Parent Society EXCOM and was approved. A copy was distributed as well as the letter from Thorn to Sen. Dave Durenburger.

16. Students - L. Maher - A letter to MN Colleges and Universities has been drafted inviting students to the annual meeting. High school student participation was discussed, Maher will contact Bob Davis for potential students.

Finance - H. Van Offelen - Report given by Thorn. Help is needed from students to sell raffle tickets, as in the past. The next newsletter will include encouragement of members in soliciting raffle prizes. Van Offelen is looking for someone to take over the raffle coordinator duties. Carl will talk to Henry about working with Iowa on the raffle.

OLD BUSINESS

Action Agenda #1 - Sustainable Management - P. Pajak - Working on a draft chapter position statement. Seeking to define some guiding principles. There is an opportunity to include additional references for Minnesota. Hope to be able to act on the end product by the 1995 meeting. EXCOM will be given a one to two week turnaround time to Pajak and Pereira so that the new draft is ready for the meeting. There was some discussion as to who the target is, feeling that if it is Fisheries professionals we will be 'preaching to the choir'. Attempt will be made to make it more general through the inclusion of an executive summary. EXCOM to receive draft by 1/15/95, return to Pajak by 2/1/95, action at annual meeting.

Action Agenda #2 - Public Education - Richards, Busacker - No new action, hope to have something to report at annual meeting. The watershed packet discussed earlier fits in here.

Action Agenda #3 - Instream Issues - Drewes - The clearing and snagging issue is progressing. Can expect to see a resolution for IFIM (Instream Flow Incremental Methodology), based on habitat. Need to promote the approach, not the technique. Also need to publish an issue paper for the newsletter.

Schwarzkopf added that a recent Supreme Court decision may be another tool for instream flow, the decision focused on protecting stream flow as a means of maintaining water quality.

Action Agenda #4 - Exotic Species - L Schwarzkopf - Some issues going on include smelt in the Mississippi River and pheromone control for carp and ruffe. Recently received \$70,000 grant from Washington D.C. to fund a study by Pete Sorensen. Sorensen is looking for any input on carp pheromones.

Thorn asked to see some progress by the committee by the annual meeting.

Action Agenda #5 - Membership Input - Richards - Time will be allocated on the annual meeting agenda to solicit input from members.

Action Agenda #6 - Chapter Financial Plan - Thorn - Thorn will draft an article for the newsletter and something for the Procedural Manual.

Action Agenda #7 - Constitutional Changes - Thorn - Covered earlier. Will appear in newsletter and vote at the business meeting.

Membership Directory - Reed - There is a legal problem of publishing addresses without consent. A consent form and request for updated information may appear in the next newsletter.

Stream Trout in Lakes Workshop - Close, Thorn -

A handout was distributed outlining proposed dates, location, justification, goal, objectives, costs, audience, and attendance. Discussion centered around cost and interest. There may be some potential to co-sponsor it with other states. EXCOM suggested that the workshop steering committee meet again and report back with more details.

Other

NCD Technical Committee Updates -
Walleye: Considering a special session on special regulations.

Centrarchid: There will be a special session at the '96 Midwest on Centrarchid life histories. Melissa Drake is a part of the session.

Rivers & Streams: There will be a special session on the President's Council on Floodplain Review at the Midwest.

Clean Water Act - Schwarzkopf - Working on determining if there is any way to integrate the Clean Water Act, Non-point source information into what we do. Will provide an update at the annual meeting EXCOM meeting.

Legislative Breakfast - Pereira - Suggested we consider hosting a breakfast for members of the House and Senate Natural Resources Committees during their summer session. There are questions as to whether we can do that with the new lobbying laws. Alternative is to target legislators for individual meetings. May consider using chapter budget to fund outstate member travel to St. Paul.

INFORMATION ITEMS

AFS (Halifax meeting) - Thorn - Handouts were distributed covering formation of a committee on the Human Dimensions of Recreational Fisheries, the Water Quality Section Newsletter, a letter to the EPA regarding a resolution on mercury passes at the annual meeting, and several other items. Thorn commented that we need to watch the Parent Society Action Agenda and how it relates to us.

DNR - Hirsch - The Mille Lacs treaty case is preparing for Phase II, the allocation of resources between Indian and non-Indians within the ceded territory. Pereira and a number of other employees have been involved in determining the methods to be used in population estimation. The Lake Survey Database is proving to be very valuable in accurately estimating the harvestable surplus available. There is a need to identify statutes that need to be upheld to protect sensitive species. Cooperation is very high, the band has developed a Conservation Code that has been reviewed and looks reasonable. It is important to remember that the allocation will be independent of use. In other words, if the band doesn't use it's

allocation, the non-band allocation will remain the same. Commercialization is not a big concern at this time. A report on the method for estimating harvestable surplus is due in November.

We can expect to see a license increase in this year's legislative session. Likely to be implemented in 1997. There are currently 15 open positions with no immediate plans to fill. An investment initiative has been developed seeking restoration of budget, filling positions, and building funds for special projects. The experimental regulations project has been recommended by LCMR for \$500,000 to cover black crappie, walleye, and largemouth bass. LCMR also recommended funding habitat improvement projects totalling \$800,000, and \$300,000 for fisheries acquisitions.

Need to be aware of the "generalist movement". There is definitely a need for ecosystem management, however, it should be done by a team of specialists. Moving to generalist thinking is premature considering the universities are training specialists.

Federal - P. Pajak - The Federal Aid Program EIS is being updated with comments received. The no change alternative is likely to be chosen.

Draft Aquatic Education Guide was discussed. It includes case studies, information about state programs, as well as comments from the states.

Draft policy statement on Western Resource Management and Endangered Species Protection. Meeting with state leaders and sportfishing and boating council. Draft is near final. Policy may affect USF&WS stance on introduction of species as it affects endangered species. Trying to promote sportfish but not at the expense of endangered species. Wide area network to be expanded to include

aquatic education coordinators, perhaps others in the future. Major reorganization taking place in USF&WS in response to ecosystem management, on the fast track, driving budget process. Met with the States Organization of Boating Access to refine guidelines for accessibility of boating and recreational opportunities, the US Coast Guard may begin a nationwide boating carrying capacity study. Wildlife diversity program, an excise tax on bird food, binoculars, etc, much like D-J and P-R, funds to be used by non-game and other non-traditional programs was discussed. The video, "Fish in the Web of Life", concerning salmon and watershed influences, was discussed briefly.

Academic - N. Mundahl - There is a need for state support of higher education. Equipment has been the first to suffer so far. The merger of post-secondary institutions raises some concern since one aspect of it involves eliminating duplicate programs. Aquatic biology programs at some of the smaller schools may be lost.

Other

Schwarzkopf discussed a \$100,000 grant recently received to implement mercury abatement in a reservoir near Cloquet.

Richards discussed the request from the Water Quality Section seeking success stories in regards to point source pollution, is considering submitting the St. Louis River.

Motion to adjourn, seconded, passed.

Respectfully submitted by Chris Kavanaugh,
November 1, 1994

1994 ANNUAL MEETING RAFFLE

Once again we plan to have a raffle at the annual meeting. Somewhat of a new format is planned as a cooperative effort with Iowa. We are going to auction-off member donated "white elephant" prizes in addition to auctioning prizes donated by tackle manufactures and artists. This means that every member is expected to bring at least one prize to the annual meeting for this event. Bring something that has fallen out of favor to you, but you know would be "priceless" to someone else. Every member

must have an item squirreled away in a tackle box, garage, or closet that they no longer use or need that could be donated for use in this auction. The Iowa Chapter successfully held an auction like this with Nebraska last year. Everyone needs to donate an item for this years event to be successful. Raffle ticket items will also be offered at the meeting. If anyone wants to help organize the raffle, please, please, contact Henry.

LEGISLATIVE BRIEFING STATEMENT AGRICULTURAL LAND USE AND REAUTHORIZATION OF THE 1990 FARM BILL

The North Central Division of the American Fisheries Society Rivers and Streams Technical Committee (RSTC) has been advocating greater involvement by fisheries professionals in land use policy. Only then can we effect changes in land stewardship that will result in improved watershed-scale management resulting in concomitant improvements in aquatic habitats.

Last year at the 55th Midwest Fish and Wildlife Conference the (RSTC) decided to prepare briefing statement on agricultural land use and reauthorization of the 1990 Farm Bill. The Farm Bill constitutes the single largest piece of legislation affecting river and stream management in the midwest. There was little if any fisheries input provided when the 1990 Farm Bill was authorized. This briefing statement is intended to provide resource managers, legislators, conservation organizations, and agricultural interests with background information which substantiates the linkage between fisheries management and land use policy. It is also intended to provide the impetus for greater involvement by the Society in legislative affairs regarding land use policy.

A committee comprised of prominent river and stream ecologists from across the midwest, under the leadership of Paul Pajak, was charged with drafting this document. State Chapter representatives to the RSTC provided technical and editorial review. Chapter representatives were also asked to share this document with colleagues from their respective states for additional review and comment. At the Spring ('94) meeting of the RSTC in Rock Island, IL the briefing statement was reviewed and voted on by chapter representatives. There was unanimous support to pass the briefing statement on to Divisional and Parent Society leadership.

The briefing statement was presented at the annual meeting in Halifax this past August. It has been assigned to the AFS Policy Committee and the Legislative Committee to be advanced as an official policy statement of the American Fisheries Society.

Legislative hearings and discussions have already begun relative to the 1995 Farm Bill. It is our hope that the American Fisheries Society can become more active in these discussions. I encourage Minnesota AFS members to put this information to use when talking to the media, legislators, special

interest groups, anglers, fellow professionals, farmers, and others with a vested interest in watershed management.

Editor's Note:

To familiarize chapter members about this important topic the Issue Definition from the Briefing Statement is printed below. The citation has also been included if you wish to further your reading on this topic. Copies of the completed document are available from Henry Drewes.

Issue Definition

The Food Security Act of 1985, or "Farm Bill", has been considered by many to be the first significant legislation to merge agricultural and environmental issues in the United States. Since its passage and most recent reauthorization in 1990, many acres of marginal farm land have been retired, soil erosion and water pollution have been reduced, and wildlife habitat has substantially improved in some areas. Interestingly, an increasing number of farmers are aware of the environmental benefits of the "Farm Bill" and support further policy reform. Natural resource research and management experience has also demonstrated the inextricable link between land use and the health of fisheries and aquatic resources. With such evidence in mind, it is the position of the American Fisheries Society (AFS) that adequate watershed protection and related public benefits can only be ensured through more ecologically sustainable agricultural policy under future "Farm Bill" legislation.

Pajak, P., R.E. Wehnes, L. Gates, G. Siegwarth, J. Lyons, J.M. Pitlo, R.S. Holland, D.P. Roseboom, and L. Zuckerman. 1994. Agricultural Land Use and Reauthorization of the 1990 Farm Bill. Rivers and Streams Technical Committee, Northcentral Division, American Fisheries Society.

THE AMERICAN FISHERIES SOCIETY, MINNESOTA CHAPTER

Continuing Education Committee is proud to sponsor the following workshop

Genetic Principles and Techniques for Fisheries Resources

instructed by

Eric M. Hallerman, Virginia Polytechnic Institute and State University,
Anne R. Kapuscinski, Mark L. Gross and Loren M. Miller,
University of Minnesota (UMN)

April 5, 9:00 a.m. - April 7, 1:00 p.m. 1995
Earle Brown Center, University of Minnesota, St. Paul

Workshop Topics

Introduction to Basic Genetic Principles

(Review of genetic concepts from the DNA level to the meta-population level, followed by discussion of how evolutionary principles affect genetic diversity of aquatic communities)

Population Structure (Stock Identification)

(Lecture and laboratory demonstration of primary molecular genetic techniques used to discriminate among genetically distinct populations of aquatic organisms)

Genetic Guidelines for Hatchery and Transplantation Programs

(Guidelines for maintaining natural levels and patterns of genetic diversity)

Molecular Genetic Tools and Applications

(Short laboratory demonstrations showing current tools used in genetics studies including: computer simulation, polymerase chain reaction (PCR), DNA fingerprinting, gene transfer, detection of quantitative trait loci (QTL's), and chromosome manipulation)

Effects of Genetically Modified Organisms on Aquatic Ecosystems and Fisheries Management

(Lecture on assessment of environmental risks of introducing genetically modified organisms into natural aquatic ecosystems. In a case-study exercise, participants will apply and evaluate recently developed performance standards for risk assessment and management of genetically modified fish and shellfish.)

cost:

\$200/person - instruction and materials

Any profits derived from the workshop will be used to support projects sponsored by MN Chpt. AFS. For more information contact Mark Hove, MN AFS Continuing Education Co-Chair at (612) 624-3019, via e-mail at mh@finsandfur.fw.umn.edu, or at Dept. Fisheries & Wildlife-UMN, 200 Hodson Hall, St. Paul, MN 55108.

(See other side for speaker biographies and registration form.)

BIOGRAPHIES

Anne R. Kapuscinski

Anne is a professor in the Dept. of Fish. & Wild. at the UMN. Her research in fish genetics has included population genetics models, quantitative genetics, genetic conservation guidelines for hatcheries, gene transfer in fish, and development of national guidelines for work involving genetically modified organisms.

Eric M. Hallerman

Eric is an assistant professor in the Dept. of Fish. & Wild. Sciences at V.P.I. & S.U. His work has included population genetic analysis, identifying markers for selective breeding, gene transfer in fish and development of national guidelines for work involving genetically modified organisms.

Mark L. Gross

Mark recently finished his Ph. D. in the Dept. of Fish. & Wild. at the UMN where he was using DNA fingerprinting techniques to genetically mark smallmouth bass for the assessment of reproductive success. Previously, he worked on performance evaluation of fish genetically engineered for enhanced growth.

Loren M. Miller

Loren is presently working on his Ph. D. in the Dept. of Fish. & Wild. at the UMN where he is estimating changes in genetic diversity within fish populations using molecular genetic tools. His M.S. thesis presented a methodology for assessing genetic response to size-selective exploitation in fish populations.

LODGING RECOMMENDATIONS

Participants are responsible for their own lodging. The cheapest, closest lodging is at Motel Six where we have 30 rooms reserved for the workshop (April 5 & 6, 1995). Rates are \$31.94/night for one person, or \$38.35/night for two people. When making reservations at Motel Six [(612) 639-3988], identify yourself as an attendee of the Genetics Workshop at the UMN. Other nearby lodging options include the Days Inn [(800) 325-2525] and Super Eight Motel [(800) 800-8000]. All three motels are a few miles north of campus in Roseville, MN.

Registration Form

Please register me for the Genetic Principles and Techniques for Fisheries Resources Workshop.

Name/Organization _____

Address _____

Phone (work) _____ (home) _____

Genetics Workshop \$200

Total amount enclosed = _____

REGISTRATION MATERIALS MUST BE RECEIVED BEFORE MARCH 1, 1995

Send registration form and payment (checks payable to MN-AFS) to:

Deserae Bushong, MN AFS Continuing Education Co-Chair
MN DNR Area Fisheries Headquarters
1801 South Oak Street
Lake City, MN 55401

FISHERY PROGRAMS UNDER THE SPOTLIGHT

Editors Note: *This will be a first of a series outlining fisheries and aquatic programs at Colleges and Universities throughout the Minnesota region. Many chapter members have requested this information so they could become more familiar with the various institutions that we are often in contact with. The University of Minnesota's, Department of Fisheries and Wildlife will be the program spotlighted in this edition.*

The Department of Fisheries and Wildlife in the University of Minnesota's College of Natural Resources is one of the oldest and most respected programs of its kind in the nation. The department offers an undergraduate program and a graduate program for masters and doctoral degrees in fisheries which emphasize experimental and quantitative methods.

Undergraduate students are expected to broaden their perspectives by taking courses in other departments. The unusual academic breadth and expertise found within the Twin Cities campus affords each student a wide opportunity to interact with leaders in ecology, physiology, evolution, statistics, computer science, forestry, natural resource policy, and conservation biology.

Students enrolled in the graduate program work closely with an advisor and advisory committee, made up of faculty with experience relevant to the student's specific interest. Graduate students are an integral part of the fisheries program. They are involved in undergraduate teaching, departmental committees, and planning and evaluating graduate student activities. In general, the strength of the fisheries graduate program lies in combination of the wide ranging expertise of the faculty, and atmosphere of open intellectual inquiry, a strong commitment to professional standards, and a pervasive dedication to the wise management of all natural resources in a changing and difficult world.

In the fisheries program the main area of specialization are:

- fish and fishery ecology
- fish behavior
- fish physiology
- fish genetics
- population dynamics
- computer modeling
- stream ecology
- fisheries management
- aquaculture

Critical to the graduate student's choice of research topics are departmental and faculty ties with organizations that support within and beyond the University. The Department of Fisheries and Wildlife is closely linked with the Minnesota Agricultural

Experimental Station, a faculty supported by state and federal funds to carry out applied studies related to agriculture and natural resources. Within the department, the Minnesota Cooperative Fish and Wildlife Research Unit consists of a group of National Biological Survey scientists who serve as graduate faculty. Also, the department has close linkage with the Minnesota Sea Grant Program. For students interested in natural resource communication and education, departmental faculty affiliated with Minnesota Extension Service provide advising expertise.

All faculty have a close working relationship with one or more of the following: Minnesota Department of Natural Resources, Minnesota Pollution Control Agency, National Biological Survey, U.S. Fish and Wildlife Service, Minnesota Zoo, U.S. Forest Service, Bureau of Indian Affairs, National Park Service, U.S. Environmental Protection Agency, Bureau of Land Management, and the Great Lakes Fishery Commission. Non-governmental organization with which the faculty are involved include the Nature Conservancy, Trout Unlimited, and others. In addition, several faculty have strong affiliations with organizations working at the international level.

The fisheries program is enhanced by the availability of laboratory and field facilities within and outside the department. Fishery, aquaculture, and aquatic ecology research is conducted in one of two wet laboratories. Computer facilities, readily available to graduate students within the department are exceptional. Additional computers are available to undergraduate and graduate students in the College of Natural Resources Computing Laboratory. The University maintains one of the largest libraries in the country, with approximately 4 million catalogued volumes plus extensive government documents, manuscripts, archives, and maps.

The graduate faculty consists of 6 faculty members in the Department of Fisheries and Wildlife and 4 adjunct faculty appointment in the department, but who are employed by agencies or institution outside of the University.

Bruce Vondracek

COMMITTEE REPORTS AND ODDS & ENDS

STUDENT COMMITTEE

It is an ongoing priority of the Chapter to encourage the attendance of students at the annual Chapter meeting. To this end, we have subsidized the registration and accommodation of students who have presented papers and posters in the past. We have also subsidized the attendance of interested high school students in the hope that they would become active participants in the Society when they enter post-secondary education. This year the Chapter will be providing Banquet tickets at no cost and half-price registration to students who are Parent Society members and who wish to attend the annual meeting in Spirit Lake, Iowa, in addition to providing some scholarships for shared accommodation. It is not necessary for students to be presenting at the meeting to receive assistance from the Chapter.

As the chairperson of the Chapter Student Committee, I continue to encourage students to consider preparing papers for presentation at this meeting. Undergraduate and graduate research papers have been very well received at previous Chapter meetings and the low number of students presenting is always a matter of concern. As a student myself, I can give several reasons why students should be encouraged to participate in such a forum of ideas: Undergraduates who have aspirations of attending graduate study programs can enhance their chances of

being chosen from among the mass of applicants by demonstrating a serious attitude toward their research and an ability to present the results of their work at a public meeting of scientists. Those with an interest in the fisheries field, but undecided about their future course of study, have an excellent chance to hear about and discuss the current topics in the field with people engaged in fisheries work and research. Even future employment contacts may be established at these meetings. Compared to national or international meetings, the Chapter meetings are inexpensive, close to home (requiring a smaller time and travel commitment), relatively small and friendly. This is a perfect opportunity for an aspiring scientist to present his or her first public paper to a supportive audience. Awards are also given for student papers and posters, and such an award would be an excellent addition to any student curriculum vita. An application form for Chapter membership and a scholarship application form are included in this newsletter. Please feel free to duplicate these and distribute them to interested students in your sphere of influence.

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Chair, Minnesota Chapter, AFS
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ATTENTION FISHERIES STUDENTS

Funding is once again available to attend the annual meeting

Once again, the Minnesota Chapter has made a commitment to promote student attendance at its annual meeting. Funding for lodging will be available to qualified students that apply. Funding may also be available for the banquet. An application can be found in this newsletter or can be obtained

from designated faculty advisors or student representatives at all Minnesota Universities with fisheries/aquatic science programs. Applications need to be returned to Henry VanOffelen by January 31st. Students that receive funding will be notified by February 7th. In return for funding, students will be asked to help sell raffle tickets and/or do other needed tasks at the meeting. Any questions? Call Henry.

ATTENTION

We will hold a short input session (10 minutes) at the chapter business meeting in February to determine what you want the chapter to do in the next year or so. Your ideas will be considered for inclusion in the next annual action agenda, so give it

some serious thought and be ready to volunteer to help.

Tracy Close, LRP Chair

FISHERIES ACTION NETWORK

In the last several years you have been hearing a great deal about advocacy and the role AFS should play in fisheries related legislation or litigation. As a society we have been advocating wise use of fisheries resources for years. The problem was we were "preaching to the choir". In the last few years AFS has been informing (and that's what advocacy really is) legislators about fisheries related issues. Much of this information is in the form of position statements (see Fisheries August 1994 for the proposed AFS position statement on grazing on public lands in the West), expert testimony, and issue briefs. Several years ago Don Pereira, serving as an official representative of the Minnesota Chapter, provided expert testimony on the use of genetically altered organisms; consequently the Chapter jumped into the advocacy arena.

To make the Society's commitment to advocacy more efficient, the Fisheries Action Network (FAN) was formed. The mission of the FAN is to: develop and recommend focus topics to the AFS Executive Committee; develop effective strategies to convey information and action priorities to Society subunits (sections and chapters) and other FAN participants; and develop a roster of people willing to provide their expertise in the form of testimony and/or preparation of issue briefs. Consequently, chapters have more input into AFS matters, and receive more benefits from AFS actions.

At the chapter level the FAN serves two roles, both are overseen by the FAN Manager. On a national level, by staying in contact with the FAN, the FAN Manager can provide the Network with people willing to provide expertise

on a particular matter. For example, if information is needed about the status of an endangered species in Minnesota, the FAN Manager would search the membership data base for individuals with expertise in that area, and provide the link with the FAN. Locally, the FAN can provide the Chapter with quick response to fisheries concerns. For example, if legislation were introduced that would require buffer strips between cropland and surface water (we can dream can't we?), we could quickly put together a delegation to speak in favor of such legislation and/or provide briefing statements that would explain the benefits of such legislation.

The key to the success of the FAN is people. Without people willing to serve the fisheries and aquatic resources the FAN can't work. The first step in becoming active in the FAN is to complete the survey that the Chapter sent out last year. This provides the basis for the Chapter's membership database. Despite being a very active Chapter, I am sorry to report that the return rate for the survey was pitiful, less than a third of Chapter members returned the survey. To put that into perspective, most angler surveys run a return rate of 65%. So, if you have not done so, fill out a survey - it only takes a few minutes. If you no longer have one, let me know and I'll get one to you.

GET INVOLVED!!!

Contributed by Jeff Reed, Chapter FAN Manager

MN AFS T-Shirt Order Form

Name: _____
 Shipping Address: _____

 Home Phone: _____

Available species: brook trout, brown trout, rainbow trout, golden trout, walleye, black crappie, largemouth bass, smallmouth bass, orangespotted sunfish and channel catfish.

Species	Size	Number	Cost Each	Total
			\$ 14.00	

Sub-Total _____
 Shipping (\$ 2 first shirt, \$ 1 for each additional shirt) _____
 Total _____

Please make check payable to MN AFS

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 P.O. Box 823
 Detroit Lakes , MN 56502

