



RYBA

Newsletter of the Minnesota Chapter of the American Fisheries Society

Year 1999 No. 4
November Issue

President's Message

by Paul Radomski

In my first president's column for my term I would like to thank several people for their outstanding dedication to the Chapter. Julie Westerlund has done a great job at organizing past Award Committee records, soliciting nominations, and presenting awards. I thank Melissa Drake for her professional handling of the officer and EXCOM nomination process from 1997 to present. I am grateful to Todd Marwitz for his work on the Resolutions Committee. Dennis Topp, Pat Rivers, Mike McInerney and others have been wonderful in informing us on work of the Division Technical Committee through **RYBA**. Lastly, we are fortunate to have a wonderful group of Officers and EXCOM members.

At the fall EXCOM meeting, several issues were debated and voted on. First, the EXCOM on a vote of 4 to 3 approved a motion to recommend to the full membership at the annual business meeting the establishment of a MN Chapter sponsored scholarship for Minnesota State Colleges and

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The Chapter publishes **RYBA** four times a year (Jan., May, Sept., and Nov.). Deadlines for article submission are: April 15, Aug. 15, Oct. 15, and Dec. 15. Necessary Burbot Legal Language: The views and opinions expressed herein are not necessarily those of the Minnesota Chapter. Printed on butchered trees.

Universities (MnSCU) students administered by the University of Minnesota with initial funding at \$10,000. Second, the EXCOM on a vote of 5 to 2 approved to recommend adoption by the full membership the Position Statement on Fish Stocking drafted by Larry Kallemeyn and Tom Jones (see last **RYBA**). I will present these issues for discussion at the annual business meeting.

Two Minnesota Chapter members recently received AFS awards. Dr. Thomas F. Waters received AFS's highest award, the Award of Excellence, given to recognize outstanding scientists in the fields of fisheries and aquatic biology. P. Jack Wingate received the Fisheries Management Section's Award of Excellence, given to outstanding Section members for professional excellence in management, research, publication, or outstanding contributions to the profession, Society, or fisheries conservation. Congratulations to both!

Doug Kingsley has some important requests of each Chapter member in this issue. Please read his committee report. One of the important request is your email address. The Chapter uses e-mail for important communications. Unfortunately, our database on e-mails addresses is weak, so many of you do not receive important information. In addition, the Chapter will expand its use of e-mail as time goes on. It is the cheapest and fastest way to inform you of Chapter activities and fish news. Please give Doug your e-mail address. Thanks.

Finally, I would like to wish Jingyin Li and his family success and happiness in New York. The Chapter will miss his presence in Minnesota. Jingyin has kindly offered to continue to maintain the Chapter's website until a new webmaster can be found.

Officer and Excom Reports

President-Elect - by Mark Hove
See Second and Final Call for Papers in this **RYBA**.

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Quote of the Issue

"The readings of history and anthropology in general give us no reason to believe that societies have built-in self preservation systems. And therefore we can't say that man will be sensible enough not to destroy himself." Margaret Mead, Anthropologist.

Open - by Brian Borkholder

Little Treaty harvest has occurred in the 1837 Ceded Territory since the September issue of **RYBA** came out. The Mille Lacs Band have been setting gill nets in Mille Lacs Lake during the months of September and October, but their catch has been limited to 843 pounds of walleye, 161 pounds of northern pike, and 21 pounds of yellow perch as of 7 October. The Fond du Lac Band will be allowing a few fishermen to set nets later in the month of October and November, with the primary focus being on the tullibee resource. It appears the Tribal harvest (all 8 Bands) of walleye will be less than 45,000 pounds for the 1999 fishing season.

Committee Reports

Awards Committee - by Julie Westerlund

WANTED: MATURE FISHERIES PROFESSIONALS

The Minnesota Chapter of AFS would like to recognize those individuals who have a length of service of 25 years. Because member database does not always list the year you became a chapter member, the awards committee needs your help! If you have been a chapter member for 25 years (or more - lapses in membership do not count towards the total), or if you know someone who may be eligible, please contact Julie Westerlund.

ALSO WANTED: AWARD NOMINATIONS

This is your last chance to nominate those admired contributors to fisheries science and your hard working peers! Any last minute award nominations need to be in no later than November 15!

The Award of Excellence recognizes either long term excellence in the fishery profession or outstanding performance in an activity that furthers the goals of the Minnesota Chapter of the AFS. The recipient of the award may be any individual or group, and is not limited to AFS membership. To make a nomination, please submit one to two pages that describes how and why the nominee is worthy of the award, and include a description of the individual or group's accomplishments or contribution to the field of fishery science.

Special Recognition Awards may be presented to individuals who have made special contributions to the chapter. This includes personal time and services or special projects that advance the goals of the chapter. Eligibility extends to all chapter members in good standing. Nominations should describe the special service to the chapter in one or two paragraphs.

Nominations will be accepted from any Minnesota Chapter member between now

and November 15. Please send nominations to Julie Westerlund at 1200 Warner Road, St. Paul, MN 55106 or julie.westerlund@dnr.state.mn.us.

Membership Committee - by Doug Kingsley

The good news is we've got 211 paid members so far for 1999. That includes 34 brand new members, and 10 intermittent members (members in 1997, not in 1998, and renewed again this year). The bad news is we've still got 53 members from 1998 who haven't paid their 1999 dues. Get 'em in to either Tim Brastrup or the parent society by the end of the year, or you'll be dropped from the newsletter mailing list. Check behind your name on your mailing label to see whether you're paid up through 98 or 99. Let me know if you think there might be a mistake.

Speaking of mailing list, please let me know of any address changes. I've noticed several addresses that are different on the parent society's than in our database. Some people want their chapter newsletter sent to a different address, so sometimes that's OK. However, sometimes people have moved, given the parent society the new address, but haven't notified us of an address change. Unless I'm told differently, I have to stick with the address I was originally given and is in our database.

TWO MORE IMPORTANT REQUESTS:

First, we're trying to develop an **e-mail network** to pass on information to as many of our members as possible, as quickly as possible. Anyone with an e-mail address, please e-mail me and provide me with your e-mail address so I can add that to our database and we can pass on new information. My e-mail address is doug.kingsley@dnr.state.mn.us

Second, while you're at it please let me know in your e-mail what your affiliation is. The codes I'm using in our membership database are:

STU - student
ACA - academic
PRI - private
TRI - tribal

RET - retired
SPE - special (parent society, other Chapters or organizations)
FED - federal
EPA - Environmental Protection Agency
DNR - Dept. of Natural Resources
DOT - Dept. of Transportation
DAG - Dept. of Agriculture
PCA - Pollution Control Agency
UNK - unknown

And, if you can remember that far back, you could let me know when you first joined the parent society (if you are a member), and when you first joined the Chapter. This information will help us maintain our records for possible future awards, so it's in your best interest. Thanks for your help.

Nominations Committee - by Melissa Drake

The chapter is seeking nominations for officers and EXCOM members. Feel free to nominate yourself or a deserving colleague. Please send me nominations by November 29th. A form is provided in this **RYBA**.

FWLA Delegate - by Don Pereira and Bruce Vondracek

FWLA LEGISLATIVE SESSION 2000 REPORT - Summarized by Don Pereira, MN AFS FWLA delegate, October 7, 1999.

This is a summary of a report generated by Gary Botzek, Executive Director of the Fish and Wildlife Legislative Alliance. The purpose of this report is to outline key legislative activities for the coming legislative session as they relate to aquatic resources. In summarizing Botzek's original report, I removed most of the pure wildlife issues that do not directly impact aquatic resources. Please be aware that a lot of this information is based on conjecture regarding political dealings. Also, much of these activities are carried forward from legislation that did not pass during the 1999 session.

The FWLA has been busy over the summer fostering new relationships with other organizations, with a primary partner being the Minnesota Outdoor Heritage Alliance (MOHA). This

collaboration has culminated in the formation of the Coalition of Minnesota Conservation Organizations (hereafter referred to as 'The Coalition'). The Coalition has four standing committees, with three focusing on policy and funding issues, and the fourth for communications. Approximately 25 groups were represented at the first meeting in July (with Chapter President Paul Radomski in attendance). Based in part on Coalition discussions, here is Botzek's vision for the coming 2000 legislative session.

The session will start on February 1, with a number of hearings anticipated for October, November, and January. The first Con Con lands (see below) hearing is scheduled for October 19. Botzek forecasts that the House will pass a Unicameral Legislature bill, as motivated by the Governor. There will be some very heavy politics occurring since the Senate will be under considerable pressure to pass the Initiative and Referendum constitutional amendment bill (traditional hunting and fishing groups are afraid of this following the California experience). If this occurs, then the constitutional amendments will appear on the 2000 ballot at the same time that all 134 Legislatures are running. Botzek states that we should not underestimate the Governor on this issue.

Here are updates on the primary legislative issues:

License Fee Increases: The outdoors organizations have organized local meetings with a number of legislators. These meetings, to be held 'back home', are designed to invite area legislators to meet with local sportsmen, representatives and local DNR officials to discuss the need for a license fee increase. There is an out state and metro strategy being used for these meetings. You may recall that the Senate passed legislation last year that called for a 2:1 general fund match. Thus, the average increase on a fishing license of \$1 would have received a 50 cent match from the general fund. Unfortunately this language never reached the House. Botzek believes that we have a good chance of getting this bill passed

in 2000 with Governor leadership. We are striving for securing 90 votes in the House. If it passes in the House without other policy or funding amendments, passage in the Senate would be likely.

Sales Tax on Lottery Tickets: The House is expected to pass legislation that would reduce the sales tax on lottery tickets from its current 6.5% to 6.0%. This would allow 40% of the net proceeds to fall into the Environmental Trust Fund, where that LCMR could, and would, commit the dollars to natural resources, habitat, water quality, and other environmental programs. This action would provide \$10 million per year extra to the ETF.

Bonding Bill: The Legislature is expected to pass a bonding bill this session, but the primary question is 'How Big?' The Governor says that \$400 million is more than enough, but both House and Senate leadership would like to see more, and Botzek anticipates \$500 or \$600 million. The bonding bill was \$1.2 billion two years ago, but only \$100 million last year after the vetoes. FWLA and associated organizations will work for habitat dollars for RIM, both to BOWSR and DNR. The need for additional general fund dollars is mainly because RIM has never been fully funded.

Long Term Funding: Legislation introduced last year (SF 1761-Lessard and HF 2178-Ozment) called for the constitutional dedication of one-eighth of 1 percent of the current sales tax to the game and fish fund, which is modeled after Missouri law. FWLA would like to see a hearing or two in the 2000 session that would 'set the stage' for discussion and debate over this approach for additional general fund support for fish and wildlife management in this state during the 2000 campaign. We would like to ask 'up front and personal' how the incumbents and the challengers feel about adequate funding for habitat, natural resources, and the environment. We believe that if properly positioned at the Legislature and in the campaigns in 2000 this legislation could, and should, pass in 2001 or 2002 and be on the ballot for the people to decide in November of 2002.

This is perhaps the biggest issue on the horizon that MN AFS members should ponder.

Con Con Lands/Public Lands: DNR Commissioner Garber will be bringing a bill to the legislature that would statutorily designate the remaining public Con Con lands into state forestry or wildlife management areas. In light of the Attorney General opinion on the Commissioner's authority in this matter, this is a very reasonable approach and solution to a battle that has been going on around this issue for many, many years. However, legislation (HF 730-Rukavina and SF 1279-Stevens) remains alive that calls for no net loss of private land in counties with at least 50 percent of acreage in public or nonprofit ownership. SF 1279 passed the Senate last year! In addition, Representative Irv Anderson (DFL, International Falls) introduced legislation late in the session (HF 2419) that would convey all the Con Con lands to the counties in which they are located. We have a big battle on our hands if we are committed to keeping these lands public. While on the surface this does not appear to be an aquatic issue, MN AFS members should consider the impacts on aquatic resources from abusive land use practices. Do you think that your FWLA delegates should be supportive of this issue, or should we abstain from voting?

Other Issues:

Lifetime Game and Fish License: More likely in 2001, as part of the budget. MN DNR staff have been working to develop a plan for this license.

Public Wetland Changes: Compromise reached last year on 'minor' changes. BOWSR working with interested parties on amendments to HF 1493-Ozment and SF 83-Stevens to make it bigger and better?

Drainage Law Reform: Probably not this year.

Walleye Stocking: If license fee passes, special language may be included. I will report back to Chapter EXCOM as more details become available.

Under Water Video Cameras: Last year the House called for study of 'all technology'; Senate is ready to pass it again. What stand, if any, should MN AFS take on the regulation of 'angling' equipment?

Boating Law Changes: More, tougher DWI for boats, ATV's, and cars.

Surface Water Management Changes: Hearings, but no bill until 2001.

Three of the big issues for 2000 are being addressed by the Coalition's working committees: short term funding needs, long term funding needs, and Con Con lands/Public Lands. Bruce and I will soon have copies of reports from these three committees. We will also receive a survey that Representative Anderson has sent out regarding Con Con lands. I suggest that MN AFS EXCOM determine if they want to participate in this survey. It is an opportunity to let him know what we think about public hunting, trapping, and fishing opportunities.

If you have any questions, concerns, or ideas on these issues or any others, either contact a suitable EXCOM representative, or contact me (651-772-7962, fax 651-772-7974, don.pereira@dnr.state.mn.us) or Bruce Vondracek directly (612-624-8748, fax 612-625-5299, bvc@fw.umn.edu).

Rivers and Streams NCD Rep - by Dennis Topp

The Rivers and Streams Technical Committee (RSTC) will be holding its annual winter meeting in Chicago, Illinois in conjunction with the 61st Midwest Fish & Wildlife Conference. The RSTC meeting will take place on Sunday, December 5, 1999 from 3:00 - 5:00 PM. We will have a guest speaker - Robin Bruckner - NOAA, National Marine Fisheries Service (NMFS), Restoration Center. She will be talking about the NMFS Community-Based Restoration Program and will be showing a video entitled "A Community Approach to Habitat Restoration: The Adobe Creek Story." Our agenda also includes state

chapter reports, updates on the Dam Removal/Fish Passage Symposium, and possibly other dam removal/restoration videos will be presented.

I will be attending the meeting, and I will deliver a state report to the committee. If anyone has news for me to share with the committee, please forward it to me. We have found that the state reports are a good way to exchange information, and the reports often lead to good discussion. I encourage anyone who will be attending the symposium to come to the rivers and streams meeting.

The program for the Dam Removal/Fish Passage symposium that we are sponsoring at the Midwest Fish & Wildlife Conference has been finalized. There are 66 presentations scheduled for the symposium. We have four invited speakers on the agenda: Steve Gephard - *Fish Passage in Connecticut* and *Promoting Fish Passage Projects*; Marc Gaboury - *Pool and Riffle Fishways*; John Shuman - *Dam Removal*; and, Luther Aadland - *Minnesota Dam Removal and Modification*. This symposium is a "can't miss" event for anyone interested in dams. If anyone wants more information on the symposium, please contact me.

Spring Meeting Minutes:

The annual spring meeting of the AFS Rivers and Streams Technical Committee was held April 6-7 in Rock Island, Illinois. Thirty-seven people attended all or part of the meeting.

President Paul Kanehl (Wisconsin) called the meeting to order at 1:10 p.m. on April 6. After introductions, Dave Day (Illinois), representing NCD President Doug Austen whom could not attend, addressed the group on the status of the upcoming Midwest Fish & Wildlife Conference to be held in Chicago this December. President Kanehl followed with an update on the Dam Symposium which the RSTC will sponsor at the Midwest.

Technical Presentations:

"Habitat needs for Platte River fishes".

Ed Peters, University of Nebraska-Lincoln.

"Fish and fish habitat in western South Dakota streams". Dave Fryda, South Dakota State University.

"Effects of forest harvest on coldwater stream fish and habitat". Eric Merten, Iowa DNR.

"The Maquoketa River Alliance". Scott Gritters, Iowa DNR.

"Dam removal and River Alliance activities". Stephanie Lindloff, River Alliance of Wisconsin.

"Distribution of and stream habitat use by the Topeka shiner in South Dakota". George Cunningham, Eco Centrics.

"Potential effects of a dam removal on fish and fish habitat in a Michigan coldwater stream". Jessica Mistak, Michigan State University.

"Illinois DNR aquatic plant restoration program". Bob Rung, IL DNR.

"Watershed management activities in northeast Illinois". Steve Pescitelli, IL DNR.

Poster: "River Alliance of Wisconsin". Stephanie Lindloff.

Chapter Reports:
RSTC chapter reports were given by representatives from nine NCD chapters. Enclosed are their reports.

Secretary's Report:
Secretary Mike Kaminski reported that we have approximately \$1,000.00 in our account, not including moneys earmarked for the upcoming dam symposium.

Old/New Business:
Election of Officers
Ed Peters will be Chairman for Year 2000. Dennis Topp will be Secretary/Treasurer for Year 2000.

Dam Removal Video Discussion:
This topic was discussed with the idea of RSTC helping Stephanie Lindloff of the

River Alliance of Wisconsin with the production of a dam removal video. Very little was actually accomplished at this meeting and future discussions will continue at the winter meeting.

Time and Place for 1999 Winter Meeting
The annual winter meeting will be held on December 5, 1999 from 3:00-5:00 PM in Chicago in conjunction with the Midwest Fish and Wildlife Conference. More details will follow. The meeting was adjourned at approximately 12:40 p.m. on April 7.

Minutes of Chapter Meetings

*Meeting Minutes EXCOM Meeting
10/11/99, Minnesota Chapter, AFS,
Brainerd Public Library, Brainerd, MN.
Submitted by Tim Brastrup, Secretary-
Treasurer*

EXCOM members present were: Paul Radomski, Bruce Vondracek, Mark Hove, Henry Van Offelen, Tom Burri, Jeff Reed, Chantel Cook, Brian Borkholder, Julie Westerlund, Doug Kingsley, Melissa Drake, Todd Marwitz, Jerry Grant, Pat Rivers, Jingyin Li and Tim Brastrup.

The meeting was called to order by President Paul Radomski at 10:05. Presidents report was as follows: There is a coalition of conservation organizations that deals with natural resource funding issues and environmental issues. Paul also received correspondence from the US Army Corps of Engineers as well as MPCA and Larry Kallameyn has submitted a final draft of the Fish Stocking Policy. Paul also reported on the Charlotte South Carolina Annual AFS Meeting. Dr. Tom Waters received the Fisheries Excellence Award from the AFS as well as the American Benthological Society Award. Jack Wingate received the Fisheries Management Award from the AFS. The presentations were impressive.

ACTION ITEMS:

Continuing Ed: Jerry Grant reported that there will be a workshop on

disseminating information to the public. It will be about 5 hours long, at the Kelly Inn, St. Cloud, prior to the Annual Meeting on 1/19/99. Speakers are being sought, however, CB Bylander and Dennis Schupp have agreed to speak. The new Communications Director of DNR will be invited as a courtesy. Kristin Merrimen-Clarke, Editor of Fisheries Magazine, will be contacted to find other potential speakers. Questions can be directed to Jerry Grant or Laurie Sovell.

Organizing Annual Chapter Meeting: The announcement will be in the November newsletter. A keynote speaker is being considered and the committee is looking for speakers and topics. Questions may be directed to Mark Hove.

Development of a Fish Stocking Paper: The final draft is in the September newsletter.

FWLA: Bruce Vondracek reported on the activities and issues being addressed by the FWLA. Issues discussed were fish and wildlife funding, Con Con Lands, Bonding Bill in MN Legislature, legislation on technology (not just "the camera"), and the fishing roundtable. Questions may be directed to Bruce Vondracek.

High Profile Outlet: Melissa Drake has investigated possible articles on fisheries issues to be written by MN Chapter members and sold to outdoors magazines to get the message out and make some money for the chapter. Melissa is looking for ideas. Questions may be directed to Melissa Drake.

Red River Workshop: Henry Van Offelen reported that James Karr spoke of IBI with a west coast perspective. It was an excellent workshop. Questions may be directed to Henry Van Offelen.

MN Chapter AFS Display at State Fair: John Hiebert coordinated the creation of a display that cost \$800 with an equal amount donated in construction costs, and displayed it at the DNR Building at the State Fair. It is stored there but can be viewed at the annual meeting if chapter

members would like to see it.

Newsletter: Paul Radomski's goal of publishing four newsletters is on track. At this point, three have been published and the fourth will be mailed out in November. Questions may be directed to Jingyin Li.

Development of a Five Year Financial Plan. Henry Van Offelen will develop a plan with Mark Hove. Annual meetings have cost from \$1,000 to \$3,000 in the past and have never spend any of the \$10,000 Certificate of Deposit (CD), only some interest.

Discussion on Scholarships: The discussion centered around the example used by the U of M, Department of Wood and Paper Science, College of Natural Resources. The MN chapter would be able to create criteria to target specific curricula. The proposal would be to donate \$10,000 (from the CD) to the U of M (MnSCU) who would administer the scholarship to recipients annually, from the interest earned by the \$10,000. A motion was made by Bruce Vondracek to recommend to the membership to create the endowment and to set up the scholarship fund. The motion was seconded by Jeff Reed. A discussion followed, regarding the administration of the scholarship fund and the possibility of a joint contribution with other associations or clubs. A vote on the motion to recommend to the chapter membership, the creation of a scholarship fund passed 4-3.

COMMITTEE REPORTS

Bruce Vondracek reported on Academics. Dr. Ira Adelman is retiring as Department Chair but will remain as faculty member. The university is searching for a replacement.

Jeff Reed reported on State. Funding sources and local public activism are major issues for DNR, Section of Fisheries.

Chantel Cook reported on Federal. Chantel's report is in the newsletter.

Brian Borkholder reported on the 1837

Treaty. At the time of the Excom meeting, 890 lbs of walleye had been harvested on Mille Lacs Lake during the fall fishing. Brian stated that Phase II of the 1854 Treaty is progressing and that the greatest resource issues are moose and the fishery of Vermilion and Saganaga Lakes.

Julie Westerlund reported on Awards. Julie is soliciting nominations for awards and also needs to paper judges. Julie will get the evaluation form for paper judging, to the judges early in order to allow time for familiarization with judging criteria.

Doug Kingsley reported on Membership. Doug will solicit e-mail addresses for membership through the newsletter.

Melissa Drake reported on Officer Nominations. Melissa is soliciting for nominations for President-elect (this year is DNR) and Secretary-Treasurer. The deadline for nominations is the end of November.

Todd Marwitz reported on Resolutions: The resolution sent to the Upper Mississippi River Wildlife and Fish Refuge called for greater emphasis on fisheries management. The refuge manager has not responded to the chapter.

Tom Burri reported on Fund Raising: Any ideas for fund raising efforts at the annual meeting should be sent to Tom or Henry Van Offelen. Tom will talk to a representative of the MN Chapter of The Wildlife Society to discuss their fund raising plans and to identify their committee chair.

Paul Radomski reported on the Newsletter: Paul stated that the September Newsletter is out.

Pat Rivers reported on Salmonids: Fish monitoring traps on streams on the North Shore were damaged during the July 4th storms. The Southeast trout regulation feedback indicated all in favor of retaining the regulations on the Whitewater and Hay Creek.

OLD BUSINESS

Treasurer's Report: The Money Market

Checking Account balance is \$6,726.42, and the Certificate of Deposit (CD) which renewed on 7/9/99 and matures again on 2/9/00 has a balance of \$10,986.62. Total Chapter funds are \$17,279.04 as of 10/11/99.

Submitted by Tim Brastrup, Secretary-Treasurer.

A motion was made by Bruce Vondracek to recommend to the membership, the acceptance of the final draft of the fish stocking position paper. The motion was seconded by Mark Hove. A discussion involved the implications of managing fishless waters and how that would affect fish culture in the DNR, Section of Fisheries. A vote of 5-2 passed the motion to recommend acceptance by the membership at the annual meeting.

NEW BUSINESS

Discussion began on the possibility of a technology position statement. One possible approach will be from the perspective of research. More discussion will follow at future EXCOM meetings. Resolution ideas may be directed to Todd Marwitz.

A motion to adjourn was made by Jeff Reed and seconded by Brian Borkholder. No discussion occurred and a vote of 7-0 passed the motion. Paul Radomski adjourned the meeting at 2:02 PM.

Division Technical Committees

Centrarchid Technical Committee by Mike McInerney

Thanks to notes taken by Jake Allman (MO), I am presenting the highlights of the second day of the summer Centrarchid Technical Committee (CTC) meeting held in Gretna, NE.

The second day started with the business meeting. Dan Stephenson (IL) will take over the chairperson position at the next Midwest meeting in Chicago. Randy Shultz (KS) was elected chair-elect. Each will chair for one year. Craig Paukert,

(SD) was elected Secretary which was previously occupied by Jake Allman. The next CTC meeting will be held on Sunday during the Midwest meeting in Chicago.

The CTC decided to delay for one year development of a crappie poster. The CTC is or will be involved in several symposia. The CTC will assist with the Black Bass Symposium at the 2000 AFS meeting in St. Louis, and will contact Dave Philipp (IL) to determine what help is needed. A crappie symposium will also be held at this meeting. Jeff Boxrucker (OK) is in charge of organizing the crappie symposium. The CTC decided to host a Lepomis Symposium at the 2001 Midwest meeting. Those of you working on bluegill projects should contact the CTC chair or me if you are interested in participating in this symposium. The Directory of Centrarchid Workers is in rough draft and will be completed soon (If anyone is interested in being listed in this directory, please contact me and I will get you on it.).

Several more papers were also presented during the second day. Jeff Jackson (NE) presented results of a study comparing catches of bluegill and crappies in 13 mm and 15 mm mesh trap nets. The 13-mm nets caught more small (age 0) white crappie and bluegill and fewer larger (> 200 mm) black crappie and bluegill. PSD and RSD of bluegill and black crappie were greater in the larger meshed nets; however, catch per lift and size structure indices of white crappie did not differ between mesh sizes.

Craig Paukert (SD) presented an update of his research on bluegills in 21 lakes in the Sandhill's region of Nebraska. These lakes are typically shallow (mean depth = 1.2 m) and heavily vegetated (49% coverage). Preliminary results indicate that bluegill PSD increases with increased density of largemouth bass, and the highest PSD's are found in lakes with moderate levels of emergent vegetation or lower coverages of submergent vegetation. Travis Hurton (KS) presented his research on movement patterns of spotted bass in Kansas streams. Using

telemetry, he found that bass move primarily during the day. However, he found that movement data was a function of the number of times the tracked during the day. Spotted bass usually stayed within the same pool throughout the summer even when a flood event occurred.

Dan Stephenson (IL) gave an update on a research project testing effects of bag and length limits and presence of largemouth bass on size structure of bluegill. A total of 32 lakes are involved in this projects. Eight lakes will act as controls, eight lakes have an 8-inch minimum length limit and a 10 fish bag limit, eight lakes are stocked with largemouth bass, and eight lakes were stocked with largemouth bass and have the restrictive limits. This study started one year ago. Angler compliance appears good, and diet and hooking mortality are also being assessed.

Jake Allman (MO) presented the last paper covering the bluegill fishery in Tobacco Hills Lake near Kansas City, MO. Tobacco Hills lake is 17 acres, built in 1978, and was purchased by the Missouri Department of Conservation in 1994. Since 1995, harvest of bluegill has been restricted by imposing an 8-inch minimum length limit and an 8 fish bag limit. Angler compliance has been excellent, and numbers of bluegill > 8 in in 1999 were similar to those observed before the lake was opened to public fishing in 1995. Fishing pressure averages 400 h/acre, of which about half is expended on bluegills. Bluegill harvest has reached 49 fish/acre and 28 lbs/acre.

Since this meeting, I was informed that many bluegill posters are still available. Please contact Steve Quinn, In-Fisherman, 2 In-Fisherman Drive, Brainerd, MN 56401, Ph: 218-829-1648, if you are interested in getting some.



Walleye Technical Committee - by Dick McWilliams

1999 summer workshop, July 19-21,
Dubuque, IA.

Chair Dave Lucchesi (SD) opened the technical session with 52 WTC members in attendance. Papers presented were:

- A simple model for successful management of eastern South Dakota walleye fisheries. Dave Lucchesi, South Dakota Game, Fish and Parks
- Texas saugeye. Brian Van Zee, Texas Parks and Wildlife
- Movement of reservoir-stocked saugeye between tailwaters, streams, and rivers. Jeffery A. Spoelstra, Graduate student - Ohio State University
- Seven-year overview of saugeye stockings in two South Dakota impoundments. Gene Galinat, Graduate student, South Dakota State University
- Comparison of walleye and saugeye in two small Iowa lakes. Kay Hill, Iowa Department of Natural Resources
- Genetic variation in walleye - stock structure and conservation genetics. Neil Billington, University of Maine, Machias
- A Five-Year Ohio River Stizostedion work plan. Scott Schell, Ohio Division of Wildlife
- Angler response to walleye: Are they controlling populations or responding to them? T. Doug Beard Jr., Wisconsin Department of Natural Resources
- Food habits of sympatric largemouth bass and walleye in two South Dakota lakes. Dray Walter, Graduate student - South Dakota State University
- Missouri River Reservoirs walleye regulations update. John Lott, Clifton Stone and Wayne Nelson-Stastny, South Dakota Game, Fish and Parks
- Long term trends for walleye in Lake Sakakawea. Jeff Hendrickson, North Dakota Game and Fish Department
- Costs of rearing and stocking walleye in Michigan during 1994. Richard O'Neal, Michigan Department of Natural Resources

Chair Dave Lucchesi (SD) opened the WTC business meeting.

Minutes of the 1998 winter meeting:
Published in the Mainstream and on the

WTC website. Approved as published.

Financial Report: The balance at the beginning of the 1999 summer meeting was \$3,386.35. Income from the summer meeting (Registration, cash advance, etc) was \$1042.00, and meeting costs were \$1046.50, leaving a shortfall of \$4.50. Balance at meeting end was \$3,381.85.

Membership: The WTC has 263 members on the mailing list. The primary value of the membership list is for individual mailings, if one becomes necessary, as it did this spring. However, unless members notify the Chair, Chair-elect or secretary of the change in address, letters will not be delivered on time.

WTC members are communicating via e-mail, and although not all members have e-mail access, more are obtaining access each year. Electronic mail is an increasingly valuable tool in our communication efforts, permitting state/provincial representatives to make timely committee communications. Members should contact one of the officers to add their e-mail addresses to the list. Members will be contacted this winter to verify addresses in order to update the mailing list.

WTC Website: Chair Lucchesi reported on the webpage designed by Ron Brooks (IL). Meeting attendees were polled on their use of the Website, and about 50% indicated they had visited the site. Of the remainder, lack of Internet access was the main reason for not visiting the site. The Website is accessible through the AFS-NCD Homepage. At present, the site contains information on meetings and agendas, a member list, the WTC mission statement, goals and objectives. It also includes officer addresses.

Ron Brooks (IL) asks that anyone with suggestions for improving the Website or adding content please contact him. The website is not only an important source of information for WTC members, but also offers others a chance to read about current technical committee activities and the profession. Several suggestions, made

for improving the site, included listing members alphabetically or alphabetically by state/province and developing a location for visitors to post walleye-related questions. WTC members could respond to questions in their area of interest.

Walleye Waters (update): Chair Lucchesi (SD) brought up the walleye waters. Debbie Walters (OH) indicated one article from Ohio had been submitted for publication. Chair Lucchesi (SD) suggested other states might well want to submit articles to Steve Quinn, as this was a good opportunity to highlight their walleye fisheries. John Pitlo (IA) added that he had been asked to write an article updating telemetry information on walleye/saugeye/sauger for the In-Fishermen magazine and asked that anyone who knew of telemetry studies from the past five years to please contact him.

OTC INAD update: Dave Lucchesi (SD) reported that Meg Oeller (FDA) is near completion of the public masterfile for OTC (oxytetracycline hydrochloride) marking by immersion. She has recommended approval for skeletal markings in all finfish. She indicated that the CVM (Center for Veterinary Medicine) currently has a large backlog of aquaculture drug documents awaiting review and expected that it would be at least one year before her public masterfile was reviewed. Oeller also mentioned that the information in the masterfile is quite comprehensive, and therefore, she anticipated that a pharmaceutical company, such as Pfizer, could develop a label based solely on the documented findings.

Walleye Stocking and Recruitment Assessment Symposium: A WTC sponsored stocking and recruitment symposium is being planned for the 2000 Midwest Fish and Wildlife Conference in St. Paul, Minnesota. Most likely, the deadline for abstracts will be in July of 2000. Fourteen members indicated that they were planning on giving papers.

Chairman Lucchesi updated the membership on developments with the

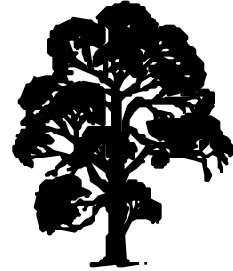
symposium proceedings publication. He mentioned that in a conversation with Sally Kendall, AFS Journals Manager, she indicated that the editing staff is currently swamped with new manuscripts, and consequently, was not accepting any new modules. She said that with the current amount of submissions, it would not be fair to allow papers, not subjected to the normal critical review process, to fill up the North American Journal of Fisheries Management (NAJFM). She recommended submitting the symposium papers separately to the journal. Papers that were accepted could be placed in a single issue.

Lucchesi also mentioned that in talking with Chris Guy (KSU Coop Unit), they had discussed publishing the proceedings in a separate publication, not affiliated with AFS, like Donald Jackson's smallmouth bass symposium document. Guy also mentioned that the Fish Management Section (FMS) might be willing to co-sponsor the proceedings publication. Jeff Boxrucker, FMS President, agreed to present the idea for co-sponsorship to the FMS membership at their meeting in Charlotte. Lucchesi provided Boxrucker with a cost estimate of \$2,400 (AlphaGraphics, Sioux Falls, SD) for developing the publication.

New Business:

Walleye tournaments and impact on the fisheries: Kendall Kamke (WI) asked how member states handle walleye tournaments, and whether or not or under what conditions they permitted catch-and-release or kill tournaments. There is some concern that tournaments are having a larger impact on the populations than originally thought. Not only are biologists concerned with the high mortality, but also with displacement of walleye during the summer months and the resulting stresses. A brief discussion followed, and it was decided to pose the question to other states, and have a report at the next summer's meeting. Hybrid fish: Neil Billington (IL) asked what states/provinces were doing with regard possible state record hybrid fish, and how reverse hybrids were handled in the process. It was suggested that a small committee be formed to canvass member

states and perhaps put together suggestions or recommendations on walleye/sauger and saugeye and reciprocal hybrids. Further discussions will be held at further meetings.



Upcoming Events

December 6-8, 1999. Symposium: Effects Of Dam Removal On Aquatic Ecosystems. Sponsored By American Fisheries Society, North Central Division Rivers and Streams Technical Committee [The MN Chapter contributed money to this Technical Committee for this symposium]. 61st Midwest Fish and Wildlife Conference, Chicago, Illinois.

January 4-6, 2000. 29th Annual WI Chapter AFS Meeting. Manitowoc, WI. Contact Lee Meyers 920.492.5834.

January 19-21, 2000. 33rd Annual Minnesota Chapter AFS meeting. Meeting with The Wildlife Society. Contact Mark Hove 612.624.3019. See call for papers in this **RYBA**.

July 9-12. WATERSHED 2000 Vancouver, British Columbia, Canada Phone: 800.666.0206 or 703.684.2452, E-mail: msc@wef.org).

August 20-24, 2000. 130th Annual AFS Meeting. St. Louis, MO. Contact Betsy Fritz 301.897.8616.





Contributions: Letters and Commentary

Hay Creek Heron By Peter Avis

Friends called me “the heron” in high school. In part, my posture was responsible. My long back and narrow shoulders curved by head quickly down during conversation as if I were inspecting the floor for minnows. I did not mind this name since it helped while fishing to imagine myself as this patient bird. I could stand still behind a pool for hours ready to knife a cast when spooked trout resumed rising. Today, this metaphor continues. After a day on a stream, I drink scotch like the heron flies. A seat on a stump in the woods while I smoke is flight-time to ponder stream-time. I replay the day’s action. The fish I lost mix with the smoke and drink and I ready a story for those waiting to hear what I caught. Sometimes, though, I migrate in my mind to a new place or maybe back to my home.

Home was Trout Creek, a logging town in coastal Oregon. But I left to go to college and find new places such as this one, southern Minnesota. My parents, school teachers, were pleased I chose this path rather than the one most of my friend, sons of loggers, took. They still cut timber out there. An advanced degree and practical experience turned me into a “scientist”, some now call me. I’ll agree to this name to earn my paycheck, but to be honest, I’d rather be called “the heron.”

The academics taught me to be neat with data and fold truth from chaos as if I were a physicist explaining the universe. However, the way I see it, I am more like a car mechanic replacing spark plugs and patching holes in radiators. Except I don’t work on cars. Instead, I test the parts of a different machine, one called the “ecosystem” by scientists. As for the

mechanic, the routine varies. Some jobs are forests, some are lakes. I put the diagnostic cables on the intake and the exhaust to measure energy and nutrient flow through the in between. I hoist each ‘system up onto the rack to look at the underside - the soil or water chemistry few can see on their own. Sometimes, it’s difficult. For example, I take a stream with cold water gone warm and wish I could just add something like freon to make fish return upstream and nymphs crawl the rocks again. After an examination, I often make a recommendation to the owner and say, “Mister, it will cost four million to fix it right. Would you care to proceed?” Usually, he says, “I need to discuss this with the others,” in a voice sometimes excited, sometimes concerned.

Recently, a farmer asked me to survey his “wood lot,” he called it. He was a friendly man with large hands and an Allis-Chalmers ball cap I met at the state fair. We spoke at my booth where I advertized my services to the public. My sign read “Wayne’s Ecological Consulting! Will measure the value of any ecosystem for a modest price!” This slogan caught his attention and he wanted to know more about my business. I told him I visit private properties and estimate the value of their land from the perspective of ecology. For example, I look for rare species and evaluate erosion rates.

I asked about him. He was from Lewiston originally but had moved closer to Red Wing to work his uncle’s property years ago. He farmed, I sensed, because the long rows of corn attracted him away from other occupations. He could have worked at the credit union I suspect but a ride on a tractor contemplating the number of seeds needed to plant acres of corn kept his world straight and his family fed.

We were friendly and eventually he told me an “outfit,” he called it, had asked if he would sell the timber on a parcel of land adjacent his fields. “Lots of walnut there,” the farmer said. “I do need some help. Why not? Don’t use that place at all, really. Don’t even see it.”

I coaxed him into letting me look at his forest by suggesting it would be wise to have an expert’s opinion rather than just the “outfit’s”. They can be awfully convincing at times I told him. He agreed and told me where to find him at his place near Hay Creek.

“Hay Creek?” I asked as a tingle raced my back. I had met a stretch of that stream last summer full of fat browns. “Yes,” he said, “it’s not much but for watering my fields.”

I told him the estimate would be free. A few days later, I drove to his place with my tools - a clipboard and tape measure - and my fly rod hoping I could spend some heron glances on the stretch below his place after I finished. We chatted at his door and then walked the two track to his “woodlot,” he called it again, which slopes down to the stream from a plateau on which his corn grew. While walking I imagined instead we headed to a used car lot and I was the mechanic checking for lemons by measuring trees and counting species. The “outfit” was the salesman with slicked back hair promising to cut no more than what was agreed upon. The farmer was the one in need. This transaction depended on information and persuasion. I admit my bias was that nothing should be cut from this forest even before I saw it. Like the mechanic, my livelihood depends on having machines to maintain.

So I measured his forest from all sides - up slope, streamside, inside. The place was thick with life and it squeezed me until dusk to finish so the fishing had to wait until later. I presented the farmer the numbers: 38 black walnuts over 30 inches in diameter. Also, I calculated the amount of runoff that could be expected with a serious cut on this slope. His good soil will slip away unseen. Soon, fertilizer the farmer applied to the fields above will follow and green the slow edges of the stream. I tell him that the water will warm and brown. Last, I provide him the price in dollars to him in boardfeet, in soil off his fields, in water to those downstream and in trout to me. By himself, he adds up his ledgers: first, the one inside his desk drawer keeping

track of red and black and, then, the one in his soul.

A week later the farmer, an honest man, called me to let me know he would allow the "outfit" to cut the walnuts. He had to he said. The price of corn drops and money is tight. The farm needs too much.

I spent a heron day on the stream below his woodlot soon after he called. A few small browns lapped at a hopper I presented poorly. Large fish moved deep and did not resurface. Later, as I smoked, I had to ask what good was my science if it was unconvincing in the face of the farmer's economics. Then, I wondered about his corn and now with its add-in value of walnut boardfeet and brown trout, where would it go after harvest? To feed daily cows in Eau Claire? To that steak on my dinner plate?

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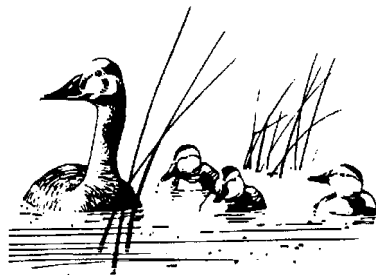


Interesting Articles and Publications

Percentage land use in the watershed determines the water and sediment quality of 22 marshes in the Great Lakes basin. B. Crosbie and P. Chow-Fraser. 1999. *Can. J. Fish. Aquat. Sci.* 56:1781-1791. Interesting research on watershed management.

Potential effects of maternal factors on spawning stock-recruitment relationships under varying fishing pressure. B. Scott, G. Marteinsdottir, and P. Wright. 1999. *Can. J. Fish. Aquat. Sci.* 56:1882-1890. Let me quote from the conclusion, since it is so eloquent: "Our results imply that spawning stock biomass alone is a flawed index of recruitment due to the invalid assumption that egg number and quality stay constant per unit biomass... This

view also sheds doubt on some of the developing ideas of fisheries management, such as the suggestion that total allowable catches and effort should only be adjusted enough to allow all fish to spawn at least once (Myers and Mertz 1998). This quantitative study suggests that allowing the management of the fishery to continue, as it is at present, such that the majority of spawning fish are first-time spawners, is a very inefficient use of the resource and a potentially risky option."



Editorial

Walleye at High Cost: DNR's Overreaction to Criticism

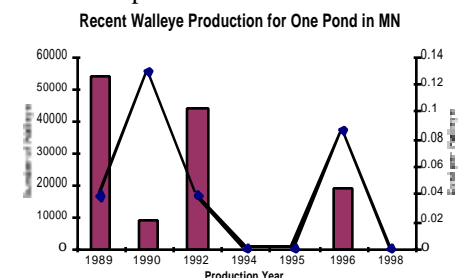
After the public hearings on walleye stocking last year the DNR proposed the Accelerated Walleye Program. The DNR received numerous concerns and complaints about the amount of walleye stocking in the state. Some of the criticism was constructive, but perhaps most was pure demagoguery by celebrity anglers and charismatic community leaders. On the constructive side, I heard valid concerns about less experimentation that may cause large gaps in walleye recruitment to the fishery, need for more quality walleye fisheries, and better science used to determine stocking rates.

These concerns made sense to me. It is reasonable to conclude that the DNR could make some gains in the state's artificial walleye lakes, but likely at quickly diminishing rates of return. The Law of Diminishing Returns is a basic principle of economics. Additionally, natural laws--the 2nd Law of Thermodynamics, the Law of the Minimum and the Law of Tolerance--limit the number of walleye in lakes no matter the number stocked. Any business person can tell you that

successive additions to a system will give smaller and smaller results. Some in the DNR must realize this, but many aspects of the Accelerated Walleye Program leave me baffled. In the frenzy to produce more walleyes in a year of the Accelerated Walleye Program, good fish management is sidelined for the moment with zealous bureaucrats busying themselves with producing more and more just like the Once-ler. Let me focus on one such aspect, poisoning ponds.

The DNR relies on an efficient and economical means to raise walleyes to fingerling size. This is accomplished with natural ponds. These ponds generally winterkill, but when they don't future fingerling production is reduced due to competition with other fish species or predation by yearling walleye. Today's solution, in the year of the Accelerated Walleye Program, is to wipe out all fish in these ponds. However, replicating a natural winterkill is an expensive proposition.

The DNR's Fisheries Management Operational Guidelines states that "the Section of Fisheries will use lake rehabilitation techniques to improve a fishery when justified by a favorable benefit/cost ratio." Where is the report citing favorable benefit/cost ratios for pond poisoning? The Walleye Stocking Guidelines for Minnesota Fisheries Management (Special Publication No. 150) notes that "economic evaluations must continue so that the Department can become increasingly efficient and effective in delivering services at minimal cost, as well as more credible in justifying management actions." Neither of these important documents discussed the notion of poisoning walleye rearing ponds. I suspect they do not because the benefit:cost ratio is so small. Lets look at an example.



A 150 acre pond, that shall remain nameless, has produced numerous walleye on occasion, as is typical for some natural walleye rearing ponds. When it produced walleye it averaged 31,444 fish, at an average cost of \$1643 or about 8 cents per walleye.

This pond is scheduled to be 'rotenoned' this fall. Rotenone is a natural pesticide produced from extract from the roots of derris and cube, and it is an effective piscicide. Poisoning this pond to kill competing fish will cost about \$10,000 just for the pesticide. Labor costs drive up the total cost. Not waiting for a natural winterkill will increase the cost per walleye substantially. Do the math--walleye from this pond will cost over 5 times as much as walleyes from untreated ponds. The benefits can not be amortized over a long period of time since the benefits do not last for very long. A short duration is expected because players in the competitive bait industry might stock it or the kill may not be complete. In a world with lots of buckets, it does not take long for fish to show up--even if it is illegal.

Numerous ponds are to be treated this fall by the DNR. The DNR's fingerling cost will come under scrutiny by the aquaculture industry if they continue with this expensive practice. But there is dedicated money out there, and the DNR is not going to look bad this year. After taking criticism for their past walleye production and stocking efforts, this year nature will not spoil the new Accelerated Walleye Program--got to look good for the politicians, the more walleye stocked the better, keep the money coming in. Does the DNR suspect that a fee increase could be in jeopardy if they did not produce more walleye than last year? An agency overly fixated on getting money blows money on popular though not necessarily productive things. Politicians and bureaucrats don't speak much of Diminishing Returns, lest they can't get re-elected or promoted.

Why do I care, it is just money after all. And all bureaucracies waste some money. However, pond reclamation for walleye rearing is costly with very limited short-

term results. Results that we get free periodically from nature at these northern latitudes. In the long-run it is not good policy. It is a waste of money when the state has bigger problems that money could actually fix. I suggest using the walleye addiction money on something that will last longer like aquatic management areas or concentrated and effective TV informational spots to educate the public about fish reproduction and fish management.

The DNR needs to shift how the public gauges their success. The measure now is the number of walleye stocked, even shifting the measure to the estimated total number of walleye caught in the state per year would be better. At least this measure would be a function of DNR management on preservation and restoration of walleye habitat. Relying on the production of walleye fingerlings is a poor measure of DNR success. Stocking's diminishing return problem puts the DNR in a no win position. How many more walleye should the DNR stock this year?, 10% more every year if you want to see the agency improve, or bigger fish stocked every year, or walleye fillets delivered by Federal Express, or stocked at your local grocery store, or cooked by the Area Fisheries Manager, or

In the mean time what shall I tell my children and the idealistic young fish biologists? I tell them the DNR often overreacts to political interests and underreacts to significant environmental problems. The solutions to the difficult problems are not often palatable to the fishing fanatics or the masses.



Of Interest

Department Head Search at the University of Minnesota

Three candidates for the position of Head of the Department of Fisheries and Wildlife have been invited for interviews in late October through mid-November. The candidates are Donald Orth, currently at Virginia Tech, Erik Fritzell, Oregon State, and David Philipp, Illinois Natural History Survey. The new Department Head will replace Ira Adelman, who is stepping down to enjoy being a "real professor" again.

Donald Orth is currently a Professor of Fisheries Science at Virginia Tech and interim Head of the Department of Fisheries and Wildlife Sciences. He has published on various aspects of fisheries management, especially related to habitat. He teaches such courses as Fisheries Management, Fish Population Dynamics and Modeling, and Stream Habitat Management. He will present a seminar on October 26 at 9:00.

Erik Fritzell is a Professor of Wildlife Ecology a Oregon State University and Head of the Department of Fisheries and Wildlife. His research has focussed largely on small mammals and birds. He teaches a number of courses including Ecology and Renewable Resource Management, Mammology, and Principles of Wildlife Management. He will present a seminar on November 4 at 9:00.

David Philipp is a Professional Scientist for the INHS Center for Aquatic Ecology and a Professor in the Department of Natural Resources and Environmental Sciences at the University of Illinois. His research interests are the application of molecular genetic techniques to questions of fish biology, reproductive ecology, and speciation. He teaches Fisheries Ecology and Conservation and has conducted several workshops on applying genetics to fisheries. He will present a seminar on November 15 at 9:00.

Carl Richards has recently accepted the position of director of the Minnesota Sea Grant College Program. In addition, he has become a professor in the University of Minnesota Duluth's biology department.

The American Fisheries Society (AFS) is holding its annual writing contest to recognize students who do an excellent job communicating the value of fisheries research to the general public. Undergraduate and graduate students are asked to submit a 500- to 700-word article explaining their own research or a research project in their lab or school. The article must be written in language understandable to the general public (i.e., journalistic style).

Students may write about research that has been completed, is in progress, or is in the planning stages. Most important is that students write their articles in a manner that the general public can understand so people can appreciate why the research is important and how it could help society and the fisheries resource.

The top three winners will be invited to the AFS annual meeting (at winner's expense), where their articles will be prominently displayed at the poster session; they also will be given a plaque recognizing their achievements. The winning articles will be published in FISHERIES.

Deadline for articles is January 15, 2000. Please mail five copies of the articles to Laura Hutchcroft, AFS; 5410 Grosvenor Lane, Suite 110; Bethesda, MD 20814. If you have any questions, please contact Hutchcroft at 301.897.8616, ext. 201.

Muskie - The printed module from the muskellunge symposium held at the Midwest Fish and Wildlife conference in Milwaukee, WI, December 1997, is completed. The module contains nine manuscripts from the symposium and has an attractive full color cover. Copies are available through me at the address below at a cost of \$12.00 to cover printing. You can either send cash or check made to Esocid Technical Committee.

I have about 80 copies remaining to be distributed on a first-come first-serve basis. In a recent conversation with Sally Kendall (AFS journals manager) the module proceedings received very

high marks from people who she showed copies to at the AFS meeting.

Terry Margenau
Wisconsin DNR
810 West Maple St.
Spooner, WI 54801



News from Around the World Submitted by Cynthia Suchman and others

In 1999, the six billionth child was born. Rapid population growth is depleting our natural resources, degrading our environment, polluting our air and water, and plaguing our cities, towns and suburbs with congestion and sprawl. The U.S. remains one of the few countries in the developed world without a strategic policy to deal with this plight head-on. Did you know:

There are more shopping malls than high schools in the U.S., nearly 50% of all pregnancies in the U.S. are unintended, and that unchecked population growth is the single most significant concern our planet faces as we approach a new millennium. [ZPG]

Round goby has arrived in Milwaukee. On July 16, 1999, WI DNR announced that the first round goby had been discovered in the Milwaukee harbor. This European fish likely arrived in the Great Lakes in the late 1980's in ship ballast water. [Milwaukee Journal Sentinel via Bill Thorn]

Umpqua Basin Timber Sale Lawsuit. On Sept. 30, 1999, U.S. District Judge Barbara Rothstein ruled that 24 OR timber sales could not proceed until the federal government ensured they would not harm fish protected under the Endangered Species Act, ordering NMFS to reassess these sales. Earthjustice

Legal Defense Fund had filed this suit in January 1999. [Assoc Press]

WA Salmon Management. On Sept. 13, 1999, the Marysville City Council voted 6-1 to adopt revisions to the city's sensitive area code to increase the size of buffers along salmon streams by 25%. [Seattle Herald, Environment News Service, Assoc Press, Seattle Times, Portland Oregonian]

Escaped Atlantic Salmon. On Sept. 14, 1999, employees at a salmon aquaculture operation near Port McNeil, BC, lost about 30,000 Atlantic salmon when strong currents ripped a hole in their net while harvesting the fish. Salmon farmers blamed the BC government for the accident, as the government had not acted on recommendations that would have allowed the fish farm to move to a safer site. The lost fish were valued at about C\$1 million. BC's Fisheries Minister Dennis Streifel ordered an investigation of the accident. On Sept. 16, 1999, the WA Senate has scheduled a public hearing on escaped Atlantic salmon and whether they threaten native salmon. [personal communication, Assoc Press]

Russian Caviar. On Oct. 4, 1999, Russian officials announced that sturgeon fishing would be curtailed this year and caviar production and export would be reduced by about one-third to prevent the extinction of sturgeon, especially in the Caspian Sea. [Assoc Press]

Freshwater Extinction Study. A study of extinction rates of freshwater animals by 2 Canadian scientists, published in the October 1999 issue of Conservation Biology, suggests that these animals are becoming extinct at a rate 5 times faster than land species. [Environment News Service]

Menomonee River Habitat. On Sept. 16, 1999, WI Dept. of Natural Resources officials announced their finding that removal of a weir and concrete river bed lining from the Menomonee River would not cause significant damage to the environment. Biologists suggest the \$2.4 million project could allow salmon

and trout to migrate upstream 20 miles from Lake Michigan to Menomonee Falls. [Milwaukee Journal Sentinel]

New Zealand Marine Reserves. On Oct. 4, 1999, New Zealand's Green Party released a conservation policy statement, calling for an objective of designating 20% of the New Zealand coast as marine reserves. [Southland Times]

Federal Fishery Regulation. On Sept. 27, 1999, the Marine Fish Conservation Network released a 36-page report entitled "Lost at Sea" focusing on problems with government regulation of commercial fishing, including alleged NMFS problems with implementation of the 1996 Sustainable Fisheries Act and enforcing compliance with its provisions. [Boston Herald, personal communication, Assoc Press]

Native Fishery Decision. On Sept. 17, 1999, the Supreme Court of Canada upheld a lower court ruling that a 1760 treaty gave East Coast Mi'kmaq and Maliseet bands the right to sell what they catch fishing without a license. In response, Maritime Mi'kmaq people decide to begin fishing for lobster in Quebec, Nova Scotia, Prince Edward Island, and New Brunswick waters. Canadian federal fisheries officials anticipate discussing new conservation measures with Native leaders and working with non-Native commercial fishermen to cool tension and avoid any confrontation. Mi'kmaq leaders have reportedly imposed their own fishery regulations and hired an independent company to monitor lobster landings. Some non-Native commercial fishermen in Nova Scotia are threatening to start fishing weeks ahead of the official commercial season opening unless Native fishermen agree by Sept. 27 to negotiate conservation measures. On Sept. 26, 1999, more than 700 Nova Scotia non-Native commercial fishermen met in Yarmouth and decided to give the federal government another week before considering a protest fishery. On Sept. 27, 1999, federal Fisheries Minister Herb Dhaliwal notified Native fishermen that he would not let unrestrained fishing in response to the Supreme Court decision threaten conservation or public safety.

On Oct. 1, 1999, Fisheries Minister Herb Dhaliwal was expected to announce a proposed interim agreement to reduce the tensions between Native and non-Native fishermen. On Oct. 3, 1999, non-Native fishermen in 100 to 150 fishing vessels were reported to have released lobsters and cut loose or destroyed possibly as many as 3,000 Native lobster traps in Miramichi Bay, northeastern New Brunswick in coordinated pre-dawn activities. Mobs also reportedly vandalized several fish processing plants accused of accepting Native-caught lobsters. Natives are reported to have vandalized several trucks. After an all-day meeting with Fisheries Minister Herb Dhaliwal on Oct. 6, 1999, Native leaders of 35 bands agreed to ask members to consider a 30-day voluntary lobster fishing moratorium, beginning Oct. 9. Some Native leaders suggested that the Canadian federal government consider compensating Native fishermen for giving up rights recently awarded by the Supreme Court in the event the government imposes a fishing moratorium. On Oct. 7, 1999, Natives at the Burnt Church reserve declined to accept the moratorium on fishing, saying they will resume fishing as soon as they replace the lobster traps destroyed by non-Native fishermen. At least 25 of the 35 bands have agreed to abide by the moratorium. [Calgary Sun, Canadian Press, National Post, Toronto Star, Ottawa Citizen]

Russian Vessels in U.S. EEZ. On Sept. 11, 1999, personnel with the Coast Guard Cutter Morgenthau observed the Russian fishing vessel Mekhanik Bryzgalin operating illegally inside U.S. waters in the Northern Bering Sea. Coast Guard personnel boarded the vessel and, on Sept. 13, 1999, custody was transferred to the Russian Border Guard vessel Antias for prosecution under Russian law.

Shark Feeding. On Oct. 29, 1999, the FL Fish and Wildlife Conservation Commission has scheduled a fact-finding workshop on shark feeding dives in Dania Beach, FL and their effects on humans and sharks. The Commission will use the information to decide if regulation is

warranted. [Fort LauderdaleSun-Sentinel]

VMS Requirement. On Oct. 8, 1999, NMFS officials announced that the effective date for requiring vessel monitoring systems (VMS) on all Atlantic highly migratory species pelagic longline vessels would be delayed from Jan. 1, 2000 until June 1, 2000. [personal communication]

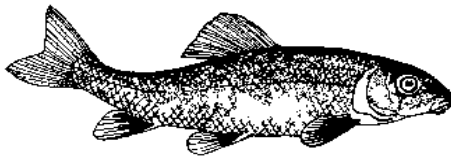
WTO and Shrimp/Turtles. On Sept. 22, 1999, U.S. officials reported to the World Trade Organization's Dispute Settlement Body on U.S. progress in implementing that Body's ruling on U.S. shrimp embargoes to protect sea turtles, as clarified by the WTO's October 1998 Appellate Body ruling. Both Pakistan and Thailand have sought U.S. assistance in using turtle protection measures by their shrimp fleet. [Reuters]

EU-Chile Fishery Dispute. On Sept. 22, 1999, Chilean and European Union officials met in Brussels, Belgium, on a dispute over transshipping Spanish swordfish in Chilean ports. Chile has resisted a Spanish request to be able to use Chilean ports for this purpose, and the European Union has threatened to file a dispute with the World Trade Organization. Additional talks are tentatively scheduled for October in Chile. [Reuters]

Red Snapper Violations. On Sept. 20, 1999, NMFS announced that 2 Pensacola, FL, companies and an individual had agreed to pay a total of \$800,000 by Dec. 31, 1999, to settle more than 100 charges of violating federal fishery regulations by purchasing red snapper during closed seasons, falsifying records, and shipping falsely labeled fish. [Assoc Press]

Floyd's Floods. On Sept. 22, 1999, NC scientists estimated that water from Hurricane Floyd flooding down the Neuse, Tar, and Roanoke Rivers of NC will close shellfishing, destroy hundreds of crab pots, and threaten the white shrimp fishery. Fishing industry officials estimated that NC commercial fishermen would suffer \$19 million in lost income and gear from Hurricanes Dennis and

Floyd. Flood waters are expected to create anoxic "dead zones" in estuaries that could last a week or more. In early October 1999, Univ. of NC scientists reported that a "dead zone" was developing in Pamlico Sound. [Raleigh News & Observer, ABC News]



On the Underside

submitted by Charles Anderson, Dennis Schupp, and others

Life not only begins at forty, it begins to show.

Just when I was getting used to yesterday, along came today.

A new business was opening and one of the owner's friends wanted to send him flowers for the occasion. They arrived at the new business site and the owner read the card, "Rest in Peace". The owner was angry and called the florist to complain. After he had told the florist of the obvious mistake and how angry he was, the florist replied, "Sir, I'm really sorry for the mistake, but rather than getting angry, you should imagine this: somewhere there is a funeral taking place today, and they have flowers with a note saying, 'Congratulations on your new location'"

background:

The self-governing Danish colony of Greenland has no closed prisons as per their long tradition. Only those people considered a danger to society are now sent to a closed prison in Denmark.

important quote:

"During the reindeer season we take the convicts out hunting - even the murderers", said Torben Thruw, head of the correctional institution in Nuuk. "Obviously, we don't take the mentally unstable", he said. "They get to go fishing"

Ancient wisdom says that when you discover you are riding a dead horse, the best strategy is to dismount. However, in organizations we often try many other strategies, including the following:

- 1) Changing riders
- 2) Buying a stronger whip
- 3) Falling back on: "This is the way we've always ridden"
- 4) Appointing a committee to study the horse
- 5) Arranging a visit to other sites to see how they ride dead horses
- 6) Increasing the standards for riding dead horses
- 7) Appointing a group to revive the dead horse
- 8) Creating a training session to improve riding skills on a dead horse
- 9) Comparing the state of dead horses in today's environment
- 10) Changing the requirements so that the horse no longer meets the standard of dead
- 11) Hiring an external consultant to show how a dead horse can be ridden
- 12) Harnessing several dead horses together to increase speed
- 13) Increasing funding to improve the horse's performance
- 14) Declaring that no horse is too dead to beat
- 15) Doing a study to see if outsourcing will reduce the cost of riding a dead

For those who take life too seriously:

1. 42.7 percent of all statistics are made up on the spot.
2. 99 percent of lawyers give the rest a bad name.
3. Remember that half the people you know are below average.
4. For every action there is an equal and opposite criticism.
5. Indecision is the key to flexibility.
6. Nostalgia isn't what it used to be.
7. The trouble with life is, you're half way through it before you realize it's a 'do it yourself' thing.
8. It's only premarital sex if you're going to get married.
9. Two wrongs don't make a right, but two Wrights made an airplane.
10. It's not the pace of life that concerns

me, it's the sudden stop at the end.

11. It's hard to make a comeback when you haven't been anywhere.
12. The mind is like a parachute, it works much better when it's open.
13. Life is sexually transmitted.
14. Rome did not create a great empire by having meetings..they did it by killing all those who opposed them.
15. Hang in there, retirement is only thirty years away!
16. Go the extra mile. It makes your boss look like an incompetent slacker.
17. A closed mouth gathers no feet.

The World's Shortest Books:

"My Plan To Find The Real Killers" by OJ Simpson

Al Gore: The Wild Years

Amelia Earhart's Guide to the Pacific Ocean

America's Most Popular Lawyers

Dr. Kevorkian's Collection of

Motivational Speeches

Easy UNIX

Ethiopian Tips on World Dominance

Everything Men Know About Women

Everything Women Know About Men

"How to Sustain a Musical Career" by Art Garfunkel

The Amish Phone Directory

Only in America...do drugstores make the sick walk all the way to the back of the store to get their prescriptions while healthy people can buy cigarettes at the front.

Only in America...can a homeless combat veteran live in a cardboard box and a draft dodger live in the White House.

Only in America...do people order double cheese burgers, large fries, and a diet coke.

Only in America...do we leave cars worth thousands of dollars in the driveway and put our useless junk in the garage.

Only in America...do we use answering machines to screen calls and then have call waiting so we won't miss a call from someone we didn't want to talk to in the first place.

Below are the of rating guidelines used by paper (and poster) judges at the Minnesota Chapter meetings. Presenters may want to keep these guidelines in mind as they prepare and deliver their presentations. These guidelines were developed with the ultimate presentation in mind, and they are something for each of us to strive for.

BEST PAPER AWARD RATING GUIDELINES

I. Organization (9 points)

A. Title (1 point)

- 1.Does it accurately describe the topic?

B. Introduction (2 points)

- 1.Does it provide adequate background?
- 2.Is the historical context for the study presented?
- 3.Is the problem to be studied clearly articulated and adequately justified?

C. Body (3 points)

- 1.Does the presentation progress in a logical order and is it well integrated?
- 2.Do the results relate to the stated purpose of the study?
- 3.Is the presentation comprehensible by audience members not engaged in that scientific specialty?

D. Conclusion (3 points)

- 1.Are the conclusions clearly stated?
- 2.Do they relate to the stated purpose of the study?
- 3.Are final details wrapped up?
- 4.Is the main idea the audience should take from the talk clear?

II. Communication with Audience (9 points)

A. Relate to Audience/Eye Contact (3 points)

- 1.Does the speaker appear confident of him/herself?
- 2.Are you confident that the speaker is an expert on his/her topic?
- 3.Is the speaker enthusiastic, interesting?
- 4.Does the speaker establish adequate eye contact with the audience during the presentation?

B. Mechanics (3 points)

1.Voice

- a. Is the speaker loud enough to be heard throughout the room?
- b. Is the rate of speech reasonable (neither too fast nor too slow)?

c. Does the speaker use proper grammar and pronunciation?

2.Does the speaker have good posture?

3.Does the speaker use gestures appropriately?

C. Appropriate Difficulty Level (3 points)

- 1.Are special terms and concepts adequately defined/described?
- 2.Does the speaker make his/her presentation understandable without being condescending?

III. Visual Aids (5 points)

A. Augment Message (2 points)

- 1.Are visual aids relevant to the points being discussed?
- 2.Do the visual aids illustrate the message, or do they become the message (replace the speaker)?
 - a. Do text slides emphasize the high points, or do they provide a script for the talk?
 - b. Do graphics draw attention away from the speaker in an inappropriate way?

B. Visibility and Clarity (3 points)

- 1.Are visuals large enough to be seen in back of room?
- 2.Are they clear enough to understand with little or no explanation?
- 3.Do they address only the point the speaker is attempting to make?
- 4.Does the speaker have backward/forward/take-away control over the visuals so that they are used most effectively and do not detract from the audience attention at critical times?

IV. Handling Questions (2 points)

A. Accurate (1 point)

- 1.Are the answers correct, based on your knowledge of the subject matter, and within the context of the presentation?
- 2.Does the speaker answer the questions that are being asked?

B. Complete (1 point)

- 1.Are the answers complete?

V. Technical Aspects (25 points)

A. Technical and Analytical Merit (15 points)

- 1.Are interpretations consistent with the results presented?
- 2.Are study limitations identified and evaluated?
- 3.What is the level of adequacy and appropriateness of study design, sampling regime, (statistical) analysis, etc. for this investigation?

B. Contribution to Science or Management (10 points)

- 1.What is the value of the study in presenting unique or innovative methods, concepts or interpretations (originality)?
- 2.To what degree does the presentation increase our understanding of:
 - a. fish population dynamics,
 - b. fish behavior,
 - c. fish culture,
 - d. the aquatic ecosystem,
 - e. the management of aquatic resources, or
 - f. fish biology/physiology/genetics?

VI. Comments (tiebreaker)

1. Write down a brief overall impression of each presentation. Comments will be used to break ties.

MINNESOTA CHAPTER OF THE AMERICAN FISHERIES SOCIETY CONTINUING EDUCATION WORKSHOP

"Getting the Word Out: Disseminating Natural Resource Information to the Public"

PRECEDING THE MN AMERICAN FISHERIES & WILDLIFE SOCIETIES 2000 ANNUAL MEETING

Who should attend: Fisheries and wildlife managers and researchers who want to communicate their work with diverse audiences. *All are welcome!*

Date and Time:

Wednesday, January 19, 2000
1:00 p.m. - 5:00 PM

Location:

Best Western Kelly Inn
St. Cloud, MN

What this workshop will entail:

• Presentations

‡ Identifying your target audience and the right tool to convey your message
C.B. Bylander, MN DNR Public Information Officer

‡ How to make your message interesting AND meaningful
Dennis Schupp, MN DNR Warmwater Research Supervisor

‡ Developing relationships with media representatives & getting your story covered
Steve Quinn and local media representative- To Be Announced

• Hands-on Activity - We'll walk through planning a sound bite. Bring examples of story ideas or the message you want to communicate.

• Panel Discussion - This time will be used to interact with presenters and to ask them questions.

.....
Registration Form Please register me for the 'Getting the Word Out' workshop.

Name _____
Address _____
Phone _____
Registration Fee: \$30

Payment Enclosed Payment processed by my agency/org. & will arrive separately

Send / fax form & payment (**please make check payable to MN Chapter of AFS**) to:

Laurie Sovell
MN Pollution Control Agency
1230 South Victory Drive
Mankato, MN 56001
507.389.1925 (voice)
507.389.5422 (fax)

FINAL CALL FOR PAPERS

33rd Annual Meeting Minnesota chapters of the American Fisheries Society & The Wildlife Society January 19-21, 2000

Our next annual meeting will be held on the banks of the Mississippi River in conjunction with The Wildlife Society at the Kelly Inn, Hwy. 23 & 4th Ave. South, St. Cloud. The event will include a mixer the evening of the 19th, a full day of presentations and banquet on the 20th, and conclude with a half-day of presentations on the 21st. Lodging reservations can be made at:

Best Western Kelly Inn

320.253.0606

Approx. \$65

Other motels around St. Cloud include: Motel 6 320.253.7070 and Super 8 Motel 320.253.5530. For more information about lodging and entertainment in St. Cloud visit <http://stcloudcvb.com/> on the web.

The program is open to contributed papers on subjects related to fisheries and wildlife resources. Presentations must be no longer than 15 minutes. Please submit a short abstract electronically as an attachment **and** within the email message to Mark.Hove@fw.umn.edu, or mail the abstract on a disk (preferably) or paper to Mark Hove at 1980 Folwell Ave., St. Paul, MN 55108 **by December 1, 1999**. Include title, author(s), institution, mailing address, phone number, e-mail address, presenter (identify if student or not), and preference for oral or poster presentation at the top of the file. Ideas and organizers for special sessions are welcome.

Watch the chapter's web site (<http://www.fw.umn.edu/mnafsf/doc/meeting.html>) for updates. For more information call Mark Hove at 612.624.3019.

To All Chapter AFS Members: Nominations for 2000 Minnesota Chapter Officers

Please complete the following form and return it by mail if you wish to nominate candidates to serve as Chapter Officers in 2000. Nominations must be received by **November 29, 1999**. You may also contact me by telephone at 651.772.7966.

Melissa Drake
Nominating Committee Chair
Minnesota DNR
1200 Warner Rd
St. Paul, MN 55106

President Elect: (this year preference will be given to those who have employment affiliation with DNR as is the Chapter policy to alternate between DNR and non-DNR for the President-Elect)

name: _____
telephone: _____
affiliation: _____

name: _____
telephone: _____
affiliation: _____

Secretary Treasurer:

name: _____
telephone: _____
affiliation: _____

name: _____
telephone: _____
affiliation: _____

Executive Committee (Excom: DNR, Federal, Academic, or Open):

name: _____
telephone: _____
affiliation: _____

name: _____
telephone: _____
affiliation: _____

There are two ways to become a member: (1) fill out this form and send it in with seven dollars, or (2) pay your Minnesota Chapter dues through the American Fisheries Society (the Chapter gets reimbursed).

1999 Dues Application

1999 MN Chapter dues-Nonstudent.....	\$7.00	_____
1999 MN Chapter dues-Student w/web RYBA	\$0.00	_____
1999 MN Chapter dues-Student w/mailed RYBA	\$7.00	_____
Total Enclosed.....		_____

Send Check (pay to the order of: Minnesota Chapter AFS) and/or this form to:

Tim Brastrup
4121 Cedardale Lane S.
Baxter, MN 56425

Name: _____

e-mail: _____

Address: _____

Phone: _____

Are you a member of AFS (parent society)? _____ yes _____ no.
Membership Number _____
(AFS membership number is located on your *Fisheries* mailing label)

Affiliation: _____
(DNR, Federal Government, Academic, EPA, Tribal, Student, Retired, DOT, DAG, PCA, or Private)

Check if you rather receive **RYBA** electronically (students w/web **RYBA** must receive the newsletter through the Chapter website; www.fw.umn.edu/mnafsf): _____

1999-2000 Minnesota Chapter of the American Fisheries Society

Chapter Officers

President	Paul Radomski	paul.radomski@dnr.state.mn.us	218.828.2246; fax 218.828.6022
President-elect	Mark Hove	Mark.Hove@fw.umn.edu	612.624.3019; fax 612.625.5299
Past President	Bruce Vondracek	bcv@finsandfur.fw.umn.edu	612.624.3421; fax 612.625.5299
Secretary-Treasurer	Tim Brastrup	tim.brastrup@dnr.state.mn.us	218.828.2552; fax 218.828.6022

Excom Members

Minnesota DNR	Jeff Reed	fishgeek@runestone.net	320.634.4573
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Open	Brian Borkholder	bribornr@fdl.cc.mn.us	218.879.3919

Committee Chairs

Standing Committees

Awards	Julie Westerlund	julie.westerlund@dnr.state.mn.us	651.772.7938
Issues	<i>open</i>	-----	-----
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Membership	Doug Kingsley	doug.kingsley@dnr.state.mn.us	218.732.4153
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Students	Carl Ruetz	cr@fw.umn.edu	612.624.3785

Special or Ad Hoc Committees

Fishing Round Table Delegate	Mark Hove	Mark.Hove@fw.umn.edu	612.624.3019
Fund Raising	Tom Burri	tom.burri@dnr.state.mn.us	218.286.5220
	Henry VanOffelen	henry.vanoffelen@dnr.state.mn.us	218.847.1579
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	Don Pereira	don.pereira@dnr.state.mn.us	651.772.7962
Historian	<i>open</i>	-----	-----
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Internet: Minnesota Chapter, www.fw.umn.edu/mnafs; North Central Division, www.fw.umn.edu/ncdafs; American Fisheries Society, www.fisheries.org. All past issues of **RYBA** can be found at the Chapter website.

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