



RYBA

Newsletter of the Minnesota Chapter of the American Fisheries Society

Year 2005 No. 1 February Issue

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President's Message

by Loren Miller

Long-Range Plan and short-term actions

Two initiatives of my rapidly dwindling term were to complete an updated Long-Range Plan for the chapter and to maintain (increase) our advocacy for aquatic resources, and specifically to increase membership communication and action in the policy/legislation arena. This report is an update and a plea in these areas.

Prior to the upcoming Chapter meeting we will be distributing the draft Long-Range Plan that Jim Levitt (appointed to help with the revision) and I have been

working on, with input from Excom meetings. The process really began with input from members at last year's meeting in St. Cloud. Soon it will be your turn again. Look over the plan and responds with your suggestions, questions, or statements of disgust. It's a plan for all of us, not the few doing the actual writing. Please send your comments and be prepared to vote on the final plan at the annual business meeting. If you're not going to the meeting, this is your chance to provide input.

As the legislative session kicks off, the chapter needs to be proactive on policy issues and be prepared to respond rapidly to events at the capital. Don Pereira and I recently attended a meeting of the Fish and Wildlife Legislative Alliance, a lobbying group for natural resources of which we are members. At the meeting, we discussed the key issues to promote during the session. At this point, the issues include CREP and WMA funding, dedicated natural resource funding (sales tax idea), LCMR restructuring, shooting range protection, and wetlands/shallow lakes/impaired waters initiatives. If you see things we should be addressing, contact Don or me and we can bring it to the group.

On a related note, I am making another pitch for everyone to join our Yahoo discussion group. Because many of us may have limitations on the use of work e-mail addresses when addressing advocacy issues, we have established a web-based group to exchange information <http://groups.yahoo.com/group/MNAFS>. It's easy to use and you can choose whether to receive e-mails or simply check the message board for new posts. I recently posted additional information about the FWLA meeting on the site. Sign up and read it.

The final request is that you attend the upcoming Annual Meeting and get your registration in soon so we can relieve Tim of some of the headache of meeting planning.

RYBA editor: David Anderson
The Chapter publishes **RYBA** four times yearly (February, May, September, and December). Past issues can be found at the Chapter website: www.fw.umn.edu/mnafs
Please direct comments or submissions to:
david.anderson@dnr.state.mn.us

The views and opinions expressed herein are not necessarily those of the Minnesota Chapter.

Officer Reports

President Elect Tim Brastrup

Annual Meeting - The annual chapter meeting will be held at the Sawmill Inn in Grand Rapids, MN, from March 14 – 16, 2005. We will once again be joined by the Minnesota Chapter of the Society for Conservation Biology. The meeting will follow our typical format: Monday evening - registration and social; Tuesday - plenary, presentations, business meeting, and banquet; Wednesday - half-day of presentations. A detailed schedule can be found starting on page 9. Abstracts for papers and posters will be available soon on the Chapter website.

Registration - fees are \$35 if postmarked by **February 14**, and \$45 thereafter. The banquet will cost an additional \$20 for regular members and \$10 for students. A registration form can be found on the Chapter website: <http://www.fw.umn.edu/mnaf/2005meeting.htm>.

Lodging - Rooms at the Sawmill Inn will be \$67 for double occupancy, and \$57 for a single, if reserved by March 1. Call 800-235-6455 or 218-326-8501 to make your reservation, and mention that you are part of the AFS group. The Sawmill Inn will have a breakfast buffet set up Tuesday and Wednesday in their dining room. The cost will be \$5.95 to \$6.95. There will also be a vegetarian choice at both the lunch (provided with registration) and at the banquet. The Sawmill Inn is located on the west side of US Hwy 169 (Pokegama Avenue) on the south side of Grand Rapids.

Presenters - Eric Altena will once again be coordinating the audiovisual equipment for the presentations at the annual meeting. He will contact presenters with instructions for submitting PowerPoint files prior to the meeting. If you have special equipment or software requirements, please contact Eric.Altena@dnr.state.mn.us

Moderators and Paper Judges – We will need moderators for each of the sessions. If interested, contact Tim.Brastrup@dnr.state.mn.us. We can always use more people to judge papers – contact John Hiebert at 651-296-2548 or by e-mail: John.Hiebert@dnr.state.mn.us.

Committee Reports

Fund Raising for the 2005 Meeting Brian Borkholder

Businesses have been less generous with donations for our raffle than in the past. So it's more important than ever for Chapter members to contribute items for our fundraising efforts. Craft items that members or their spouses have made are excellent raffle items. The framed print shown here is just one item that has been donated for this year's meeting. Bring your donations to the meeting, and Brian or Tom Burri will be happy to help you. No matter how large or small your donation, every bit helps support the Chapter's goals.



"Face Off" by Larry Topple – one of many reasons to bring your disposable income to the raffle this year!

Nominations

Greg Busacker

Prior to the annual Chapter meeting in March, we will hold elections for Chapter President, Secretary/Treasurer, and two other Excom seats: Federal and DNR. This year, we have two nominees for each position (brief biographical statements can be found starting on page 5). Greg Busacker will send ballots by e-mail to Chapter members during the first week of February. Contact Greg if you don't receive one. Election results will be announced at the Chapter business meeting.

Rivers and Streams Technical Committee

Karl Koller

Annual Meeting - All interested parties are welcome to attend the Chapter's Rivers and Stream Committee meeting at the MN Chapter's annual meeting in Grand Rapids. We will meet in the Bicentennial Room on Tuesday March 15 from 2 - 4 pm. An agenda has not yet been set for the meeting so please send any topics you would like to see discussed to Karl Koller (Karl.Koller@dnr.state.mn.us) or Eric Merten (Eric.Merten@dnr.state.mn.us). Additionally, as the MN representative to the North Central Division's Rivers and Streams Technical Committee, I would like to get feedback from you on stream and river projects being completed throughout the state for a report to be presented this March at the RSTC annual meeting. Please e-mail this information to me or bring it to the meeting. Thank you, and we look forward to seeing all of you and hearing your ideas.

Awards

John Hiebert

Attention Chapter Members! Do you know someone who has gone beyond the call of duty to accomplish the Chapter's goals? Let that person know how much you appreciate their hard work by nominating them for a Special Recognition Award. Currently we only have a few nominations for Special Recognition; if you know of another worthy candidate, please nominate them prior to the March meeting. What about someone who has made a life-long commitment to Minnesota's fisheries? Nominate them for the prestigious Award of Excellence. There are many people out there working hard to make the world a better place for fish - don't let their efforts go unnoticed!

Attention Students! Do you want to learn how to give a better presentation? If so, volunteer to judge papers at the upcoming Chapter meeting. It is a great learning experience and a great way to get involved. All chapter members are eligible to judge papers. To nominate someone for an award or to volunteer to judge papers please contact John Hiebert at 651-296-2548 or john.hiebert@dnr.state.mn.us.

Science Fairs

Brian Nerbonne

I am looking for someone to represent the Chapter in judging papers at the Rochester Science Fair. The science fair is March 3, 4, and 5. You would need to judge papers for a few hours (I believe on the evening of March 4), and have the option of returning on the 5th for the awards ceremony. I am also looking for help with the Twin Cities Science Fair, in Minneapolis on February 25, and the State Science Fair, in St. Paul on April 4. If you are interested, contact me at (651) 772-7965, or email brian.nerbonne@dnr.state.mn.us.

Fish and Wildlife Legislative Alliance (FWLA)

Loren Miller

Don Pereira and Loren Miller attended the recent FWLA meeting during which we discussed legislative priorities. The main items were deemed to be:

Bonding issues - CREP and WMAs
Dedicated funding
LCMR restructuring
Shooting range protection
Wetlands/shallow lakes/impaired waters

Comments:

CREP - The sticking point on CREP is permanent easements. There still seems to be sentiment in FWLA that we wouldn't back a proposal without the permanent option. The risk is that we get no CREP at all.

Dedicated funding - Don mentioned MNAFS sentiment (also that of the lobbyist last year) that this may never go anywhere so we might focus on other specific funding opportunities. The current push will be 1/8% for fish and wildlife (perhaps waters) without caring what else gets attached as long as our 1/8 remains. President Lance Ness said that there is unlikely to be much activity on it this year because the push would be for a vote in the 2006 elections.

Impaired waters - this is pushed by MEP and our approach is to not endorse it, but also not to come out specifically against it. There were two main concerns about it: 1) the financing comes from homes and business but agriculture is not tapped, and 2) the main coalition includes no 'rods and guns' organizations (they are included in a broader coalition of participants).

Shooting ranges - doesn't seem to relate to MNAFS but the range 'protection' bill includes a no-development buffer zone. Proponents suggest that this may set the precedent for buffers around WMAs, AQAs, parks, etc.

And related, Mark Hove provided info the DNR sent about Rules revisions concerning restitution value for fish and wildlife, natural preservation, invasive species, and aquatic plants and nuisances (related to black fly treatment). These will be in the State Register January 31.

Upcoming Events

MN AFS Annual Meeting
March 14-16, 2005
Grand Rapids, MN
See Page 2 for more details

Shallow Lakes Forum
March 30-31, 2005
Alexandria, MN
www.shallowlakes.info

Chapter President Candidates

Andy Edwards

About the time that I vacated my open Ex-com position, I was asked if I would consider running for Chapter President Elect. I seem to vaguely recall agreeing. Since Greg just contacted me to see if I was still willing to run, I can only assume that either I managed to nominate myself, or that someone has nominated me. Should the latter prove to be true, I hope that it is a sign of confidence, not an attempt to elevate me to a position in which I am open to long overdue paybacks and revenge!

Joking aside, I appreciate the opportunity to further my involvement with the chapter. I enjoyed my term serving on the Excom. We are fortunate to have a large, active group of fisheries professionals that are willing to participate in the chapter and attend meetings to share their work. I don't see a need to re-invent the chapter or push for any major change in direction. However, I would like to see us continue to try to bring in additional members and involvement from folks that may not have fisheries in their position description. There are a number of people out there, like myself, that deal with more than just fish. Recruiting from outside the fold would not only mean bringing in more membership dollars, but also new perspectives. Managing fisheries today requires that we look beyond the water or creels to issues like shoreline/watershed development, stream crossings, contaminant sources, and funding to name just a few from a very large list. We also need to get buy in from the angling and non-angling public. Let's face it, many of today's changes, or at least calls for change, are the result of vocal resource users. I'm okay with that because in most cases I would argue we're managing the fishery for the users, not the fish themselves. My experiences in the field and at meetings have led me to believe that frustration levels are high; resource users that don't understand our techniques and goals, and among fisheries professionals at the lack of public support. We need to fix that. To be effective, we need to enhance our credibility, and I think that simply by increasing our interaction with "outsiders" we could go a long way toward doing exactly that. I don't know how many times I've stopped our shocking boat at the dock of a disgruntled bystander and 10 minutes later left with the feeling that we had very likely turned a potential complaint into a satisfied, intrigued supporter. I've also been to a number of meetings where we discover that two groups or agencies have been working on the same, or related, issues without a clue that the other had been as well. These are some of the people we need to reach out to.

Enough soap box rambling. Bottom line, I would like to continue the chapter's excellent history, bring in others to help us in that effort, and look for ways to let others know about it. Oh, if I'm elected, you can guarantee that I'll continue to inject my humor in all proceedings. I may be the only one that appreciates it, but just chalk it up to the president's prerogative. Hope to see you in March!

Henry VanOffelen

I grew up in the suburbs of Chicago and fondly remember spending many days fishing a local creek and catching sunfish, bullheads, and the occasional large goldfish. Family vacations throughout the Midwest furthered my interest in fishing and the outdoors to the point that I decided to pursue a career in fisheries. I attended the University of Minnesota for an undergraduate degree. Undergraduate work with trout and genetics led to graduate studies at Cornell University where I was fortunate to have the opportunity to study performance of brook trout strains in the Adirondacks and earn a Master's degree. A career in fisheries began with MN DNR in 1990. Over the course of 12 years with DNR, I worked as a fisheries specialist at Hinckley, an assistant research biologist at Detroit Lakes, the 1837 treaty biologist, and Red River fisheries specialist. Work and experiences in these positions helped me grow as a resource professional and gain a more comprehensive understanding of fisheries science and management and their interactions with public policy development. Since 2002, I have worked as the natural resource scientist for the Minnesota Center for Environmental Advocacy. My work with this non-profit environmental advocacy group has provided opportunities to bridge the gap between science and policy. With MCEA, I have developed natural resource assessments for watershed district plans, worked with Red River basin technical and policy groups, promoted natural resource friendly flood damage reduction projects in the Red River basin, reviewed and commented on Environmental Assessment worksheets, and testified in support for the new CREP program. My current work includes continuation of past efforts in the Red River Basin, changing the EQB mandatory categories for environmental review, gaining support for the new impaired waters bill, and updating the state's shoreland laws and rules.

Secretary/Treasurer Candidates

Mike McInerny

Greg Busacker asked me if I would run for Secretary-Treasurer of our Chapter. I do not know who is more off his rocker, Greg for asking or me for saying yes! Anyway, Greg asked me to provide a 'bio' of myself so here goes. I have been a fisheries professional since 1981 with stints in Colorado, North Carolina, and here in Minnesota. I became a member of the American Fisheries Society in 1978 and joined the Minnesota Chapter in 1989. I represented our Chapter on the short-lived North Central Division's Reservoir Technical Committee. I also represented our Chapter on the Division's Centrarchid Technical Committee (CTC) for several years, and chaired this committee for one year. Now, I am chairing our Chapter's Procedures Manual Committee. Although this last assignment sounds rather dull, it was very rewarding because it allowed me to become much more familiar with the internal workings of our Chapter. I also believe this last role prepares me quite well for taking on the task of Secretary-Treasurer, if elected.

Federal Excom Candidates

Scott Yess

I attended Henry Sibley High School in West St. Paul, graduating in 1977. Started studying fisheries at Vermillion CC and received an AA degree in 1979, after which I transferred to the University of Wisconsin at Stevens which I received a B.S. in Fisheries and a chemistry minor in 1981. My next stint was with Peace Corps working as a Fish Culture Extension Agent from 1981-83 in Zaire, Africa. I worked with 20-30 farmers on tilapia culture techniques.

My first position with Fish and Wildlife Service was at a rainbow trout hatchery in Willow Beach, Arizona. We also handled a few bonytail chub and razorback suckers. After a 14-month position at the hatchery, I took the Project Leader position at Parker Fishery Assistance Office conducting fishery management work on the Lower Colorado River from 1985-90. Since 1990 I have been the Assistant Project Leader for the LaCrosse Fishery Resources Office. At LaCrosse FRO we primarily conduct fishery management duties on federal and tribal waters but also work on several projects with federal, state and local partners. Key projects involve lake sturgeon, paddlefish, native mussels, exotic species and fish passage.

Interests: Fishing, scuba diving, hunting, canoe camping, basketball, tennis and travel.

Pat Rivers

I received a B.S. in Fisheries and Wildlife (1994) and a M.S. in Fisheries (1998) from the University of Minnesota, Twin Cities. I started working for the Lake City Area Office of the DNR Section of Fisheries in 1998 working on trout streams. In 2001, I became the large lake specialist for Leech Lake, working in the Walker Area Fisheries Office. My wife, Erika, recently accepted a position with the MNDNR working in Bemidji as the Region I Information Officer. We have two children, Wyatt (3) and Kiera (1).

I have been the North Central Division Salmonid Technical Committee Representative since 1998. Last year, I dabbled in fund raising for the annual meeting and enjoyed the experience. The STC has been more or less inactive for some time, so I am looking to become more involved in MNAFS and why I chose to run for Treasurer.

Chantel Cook

(bio not available)

DNR Excom Candidates

Edie Evarts

Edie Evarts, DNR, Park Rapids Area Fisheries I first joined AFS as a Tidewater Chapter member when in graduate school at University of Maryland. My early career included work on the Chesapeake Bay and inland on Vermont trout streams. My first appointment at MN DNR was a temporary position in Duluth, followed by four years in Baudette. Now I'm "down south" in Park Rapids and eager to be a more active AFS member. I've been most involved in our Chapter as a paper or poster judge for our annual meetings and in awarding NW Regional Science Fair awards. The DNR Excom position will be a good start for increasing my contribution to the Chapter. There is no doubt that the demands on Fisheries professional are changing - AFS gives us the chance to step back from our daily routine, look at where the change is headed, and develop effective strategies for making solid science based decisions so that we are a guiding part of that change.

Brian Nerbonne

In the 6 years I have worked for the People of Minnesota and the DNR, I have interned in the Central Office, worked in fisheries management in both out-state and metro offices, and am currently the Trout Stream Habitat Specialist for the Central Region. This breadth of experience has given me a taste of issues that are present throughout the DNR, and will help me to represent department concerns as an Excom member. My present position often allows me to work in a rather political arena, dealing with developers, city councils, and other agencies to hopefully guide development toward minimizing impacts to natural resources. I hope that the Minnesota Chapter of AFS will continue to move toward a similar role, providing issue papers, comment, or testimony on pressing issues related to aquatic resources in addition to the excellent professional development that the society has always provided. I look forward to the opportunity to further serve the society I have been a part for the past 13 years since I was an undergrad.

Opinion

“Where are the Scientists?” by Daniel S. Greenberg

Submitted by Tracy Close

“A nasty paradox of our time is that science has never mattered more in the life of the nation but scientists have never mattered less. On the Washington scene today, they are virtually ineffective, if present at all, in the venues that count. And for these failings, science is largely to blame. It’s by choice that the savants are absent from the fray. Oh, yes, scientists discourse on public issues to the converted in their journals and at their conferences. But as a force in national politics, as an influence over a scientifically untutored public, as a bloc that politicians must respect, scientists in America today rank low on the potency scale. Perhaps the most assured way for them to get into the White House these days is as tourists. When the health lobbies seek an impact on Congress and public sympathy, they put entertainment stars in the witness chair, a la Michael J. Fox for Parkinson’s disease and Mary Tyler Moore for diabetes. There’s no scientist or physician today who counts with politics or the public. The president’s science adviser, little known and rarely heard from in Washington, is a political outsider—not to mention a Democrat—several circles distant from the shark-filled inner circle of the White House. All of the behemoth issues, and many minor ones, on today’s political agenda are packed with complex scientific content: Bio-terrorism, nuclear proliferation, climate change, energy, AIDS, SARS, flu, stem cells, missile defense, genetic modification, and so on. Yet the people who know most about the scientific and technical cores of these issues are, at most, bit players in the decision-making processes. Their absence is not solely attributable to the fact-averse administration that now runs the government, though scientists have receded even further under this regime. Even under the science-friendly Carter and Clinton administrations, scientists were minor figures in governmental affairs. The tip-off is that science advice at the presidential level is so little regarded that often many post-inaugural months elapse before a presidential science adviser arrives on board—9 nine months in the case of George W. Bush, with similar delays occurring under Reagan, Carter, and Bush I. (Clinton named his science adviser on Inauguration Day.) The security clearance process is cited as a delaying factor, and it is. But the presidential posts that are recognized as politically important, the national security and economic advisers, for example, are quickly filled. A new post-election report from the National Academy of Sciences echoes the Academy’s previous pleas for presidential recognition of the importance of sound science advice, at the outset of an administration, to identify “the best candidates for key S&T appointments and to provide advice in the event of a crisis.” The report

acknowledges that similar recommendations after the 2000 election went unheeded. Why the neglect of science? The answer is not simply that politicians get all the science advice they care for—which is not very much. (After all, Congress did abolish its own scientifically oriented in-house think tank, the Office of Technology Assessment.) Rather, despite their persistent grousing, mainly in private, about the follies of scientifically illiterate politicians, scientists have no stomach for electoral political combat. Taking the lobbying route, and shunning the ballot box, they focus on maximizing federal money and minimizing federal regulation, goals that are relentlessly pursued by a flock of affluent Washington-based scientific and higher-education organizations. Count among them the Association of American Medical Colleges, the Association of American Universities, the Federation of American Societies for Experimental Biology, and the American Association for the Advancement of Science. At the drop of a budget line, they're at the barricades; otherwise they are comfortably recumbent.

Washington's highest ranking science advisory committee, the President's Council of Advisors on Science and Technology, is a model of invisibility, while the National Science Board, which presides over the National Science Foundation, is unmoored from reality. Though unemployment is pervasive in many fields of science, among the Board's latest feats is a clarion call to produce more Ph.D. scientists. When it comes to wading into real politics—i.e., supporting friends and opposing foes—science, unlike other professions and interests, shuns the battlefield. Physicians, lawyers, real-estate agents, pharmacists, gun owners, and others regularly and diligently pursue their interests through elective politics. Not so scientists. In their occasional declarations on the scientific-political issues of our time, they tend to be polite, non-partisan, apolitical—and ineffective, as with mealy-mouthed pronouncements on restricted stem-cell research, post 9/11 visa barriers for foreign students, and tip-toeing responses to climate-change deniers. In that same report calling for prompt appointment of a presidential science adviser, the National Academy of Sciences expresses concern about "the politicization of S&T decision making and advice" and urges purity in these matters. It is doubtful that Karl Rove will be swayed. The most direct and constant opposition to the Bush Administration's depredations against scientific values has come from a quasi-scientific organization, the Union of Concerned Scientists, a public-interest organization group that heretofore has concentrated on environmental issues. But didn't scientists organize for collective participation in the recent presidential election? Yes—in a fashion that illustrates their touching political naïveté. Their mobilization, on behalf of John Kerry, bore the bland, unrevealing title "Scientists and Engineers for Change." It ran a web site, sponsored speakers in quite a few states, issued statements, and came and went virtually unnoticed by the news media—which is what counts in elections. In 1964, the nuclear saber rattling of presidential candidate Barry Goldwater brought out a massive nationwide mobilization under the banner of Scientists and Engineers for Johnson-Humphrey, strongly backed by the leadership of the scientific community. But the morning after election day, second thoughts prevailed about the wisdom of going political, and later efforts to repeat that performance were quelled by the chieftains of science. Science's aloofness from political involvement is based on two contentions: First, that partisan involvement could erode Congressional support for science budgets, and, second, that scientists cannot constitute a single political interest group because they differ among themselves in their politics and values. Both wrong. The political base for science support is strong because almost every Congressional district now wants a slice of R&D spending, and political unanimity is not present in the aforementioned vocations that vigorously take part in politics—nor should it be expected in science. Politicians pay careful attention to the National Rifle Association, not because it is wise, but because it is well-organized and determined to achieve its goals. They can safely ignore science and scientists because there's no risk in doing so. Count up all the scientists, associated workers, their families and friends, and there's the potential for a lot of money and votes—unfulfilled, unfortunately."

Daniel S. Greenberg, a long-time science reporter in Washington, is the author of "Science, Money, and Politics: Political Triumph and Ethical Erosion" (University of Chicago Press, 2001), and "The Politics of Pure Science" (1967, new edition by the University of Chicago Press, 2003). He is currently a Guest Scholar at the Brookings Institution, where he is working on a book about the impact of commercialization on academic health research, under a Health Policy Investigator grant from the Robert Wood Johnson Foundation. He can be contacted at: DanielG523@aol.com.

Meeting Program
Joint Annual Meeting of the Minnesota Chapters of the American Fisheries Society and the Society for Conservation Biology

March 14-16, 2005 – Sawmill Inn, Grand Rapids, Minnesota

Monday, March 14 *(U = Upstairs) (D = Downstairs)*

- 1:00 – 5:00 p.m. MN DNR Research Quarterly – Sawmain (U)
 3:00 p.m. – Check-in at Hotel – Sawmill Inn
 5:30 – 7:00 p.m. MN AFS Executive Committee Meeting – Blandin A & B (U)
 5:00 – 8:00 p.m. MN AFS Meeting Registration – Lobby of Sawmill Inn
 7:00 – 9:00 p.m. Evening Social with beer, snacks and raffle – Sawmain (U)
 (May continue in the Hospitality Room)
 7:00 – 9:00 p.m. Poster set up – Sawmain (U)

Tuesday, March 15

- 7:00 – 10:00 a.m. Meeting Registration – Lobby of Sawmill Inn
 8:00 – 10:00 a.m. Poster Set up – Sawmain (U)

Plenary Session – Sawhall (D)

- 8:15 – 8:25 a.m. Welcome - MNAFS President Loren Miller, MNSCB President Mike Rentz
 8:25 – 8:35 a.m. Welcome – AFS Parent Society Past President Ira Adelman
 8:35 – 8:45 a.m. Welcome – Northcentral Division President – Bradford Parsons
 8:45 – 9:15 a.m. Gender and angling motivations, ethics, and behaviors – David C. Fulton, MN
 Cooperative Fish and Wildlife Research Unit, UMN
 9:15 – 9:45 a.m. Gender and angling motivations, ethics, and behaviors – Susan A. Schroeder – MN
 Cooperative Fish and Wildlife Research Unit, UMN
 9:45 – 10:00 a.m. Break

Joint Session – Sawhall (D)

- 10:00 – 10:20 a.m. Interactions between trout and sculpin: effects of native versus nonnative trout on
 sculpin growth and diet – J Zimmerman and B Vondracek – University of Minnesota
 10:20 – 10:40 a.m. SCB
 10:40 – 11:00 a.m. Optimal stocking densities of walleye fingerlings in Minnesota Lakes – P Jacobson –
 MNDNR
 11:00 – 11:20 a.m. SCB
 11:20 – 11:40 a.m. Historical changes in abundance of floating-leaf and emergent vegetation in
 Minnesota lakes – P Radomski – MNDNR
 11:40 – 12:00 p.m. SCB
 12:00 – 1:00 p.m. **Lunch (provided) - Poolside**

Concurrent Session 1A – Sawhall (D)

- 1:00 – 1:20 p.m. Angler compliance with size limit regulations in Minnesota as related to regulation awareness – K Page - MNDNR
- 1:20 – 1:40 p.m. Evaluation of fifteen-inch minimum length limit regulations for walleye on two Minnesota lakes – D Iserman - MNDNR
- 1:40 – 2:00 p.m. Microsatellite-based genetic monitoring in Lake Superior brook trout *Salvelinus fontinalis* hatchery strains: implications for broodstock management and rehabilitation efforts – A Cooper - UMN
- 2:00 – 2:20 p.m. Validation and application of a fish-based index of biotic integrity for small central Minnesota lakes – M Drake - MNDNR

Concurrent Session 1B – Blandin A & B (U)

- 1:00 – 1:20 p.m. SCB
- 1:20 – 1:40 p.m. SCB
- 1:40 – 2:00 p.m. SCB
- 2:00 – 2:20 p.m. SCB
- 2:20 – 2:40 p.m. Break

Concurrent Session 2A – Blandin A & B (U)

- 2:40 – 3:00 p.m. Potential effects and costs of sinkhole buffers in southeastern Minnesota: Conservation in karst – A Petersen and B Vondracek
- 3:00 – 3:20 p.m. Exposure to estrogenic compounds released by the St. Paul Metro Sewage Treatment Plant impairs the competitive Behavior and reproductive success of adult male fathead Minnows – D Marinovic, B Hogarth, and P Sorensen - UMN
- 3:20 – 3:40 p.m. Patterns of variability in submersed vegetation abundance: results from hydroacoustic surveys over three years in four Minnesota lakes – R Valley and M Drake - MNDNR
- 3:40 – 4:00 p.m. Effects of riparian forest harvest on instream habitat and fish assemblages in northern Minnesota – N Schlessler , R Newman, B Vondracek, and D Atuke - UMN
- 4:00 – 4:20 p.m. Natural resource assessments for watershed district plans in the Red River basin – H VanOffelen - MCEA

Concurrent Session 2B – Red Room (U)

- 2:40 – 3:00 p.m. SCB
- 3:00 – 3:20 p.m. SCB
- 3:20 – 3:40 p.m. SCB
- 3:40 – 4:00 p.m. SCB
- 4:00 – 4:20 p.m. SCB

Concurrent Session 2C – Sawhall (D)

- 2:40 – 3:00 p.m. Application of a bioenergetics model for brown trout to growth in southeast Minnesota streams – D Dieterman, W Thorn, and C Anderson - MNDNR
- 3:00 – 3:20 p.m. Development and use of standard size-based mortality caps for northern pike, yellow perch and walleye – C Jarnot, D Cloutman, and N Phelps - BSU

(Concurrent Session 2C - continued)

- 3:20 – 3:40 p.m. Integrity of aquatic assemblages in the Whitewater River Drainage, southeastern Minnesota – N Mundahl - WSU
- 3:40 – 4:00 p.m. Expulsion of miniature radio transmitters along with eggs of northern pike and muskellunge – A new method for locating critical spawning habitat – R Pierce, J Younk, and C Tomcko MNDNR
- 4:00 – 4:20 p.m. Population assessment of lake sturgeon in the Rainy River/Lake of the Woods – J Stewig - MNDNR
- 4:20 – 4:40 p.m. An examination of Minnesota's muskellunge waters – J Younk and D Pereira - MNDNR
- 2:00 – 4:00 p.m. **MNAFS Rivers and Streams Committee Meeting - Bicentennial Room (U)**
- 4:45 – 5:45 p.m. **Business Meetings**
MNAFS Annual Business Meeting – Sawhall (D)
MNSCB Annual Business Meeting – Blandin A & B (U)
- 5:30 – 7:30 p.m. **Poster Session with Authors – Sawmain (U)**
Beer and Snacks available
Poster titles and authors listed below
- 7:30 – 9:30 p.m. **Banquet – Sawmain (U)**
Guest Speaker: ?
- 9:30 - ? p.m. **Raffle (and finish off any extra beer/snacks)**

Wednesday March 16**Concurrent Session 3A – Symposium: Fish Biology and Ecology – Sawhall (D)**
Moderator – Peter Sorensen

08:00 – 10:00 a.m. (*Presentation order to be determined.*)

Fine, J., Univ. Minnesota – The sea lamprey migratory pheromone is a mixture of three sulfated steroids that function as a blend.

Mensingher, A., Univ. Minnesota – Detection of free swimming prey via the mechanosensory lateral line.

Porterfield, J., St. Olaf College – Potential introgression of mitochondrial DNA between two species of darters (Percidae) in Tennessee.

Sisler, S., Univ. Minnesota – Behavioral evidence that common carp use an aggregation pheromone which might be useful in its control.

Wiseden, B., Moorhead State U. – Predator recognition as a tool to enhance survival of hatchery-reared walleye.

Concurrent Session 3B – Blandin A & B (U)

8:00 – 8:20 a.m. SCB
8:20 – 8:40 a.m. SCB
8:40 – 9:00 a.m. SCB
9:00 – 9:20 a.m. SCB
9:20 – 9:40 a.m. SCB
9:40 – 10:00 a.m. SCB

10:00 – 10:20 a.m. Break

Concurrent Session 4A – Sawhall (D)

10:20 – 10:40 a.m. Microsporidian and myxosporidian parasites in skeletal muscle of fishes of northern Minnesota: emerging zoonoses or no big deal? – D Cloutman - BSU
10:40 – 11:00 a.m. Infection rate of heterosporis sp. in yellow perch, *perca flavescens*, from Leech Lake Minnesota – N Hodgins and D Cloutman - BSU
11:00 – 11:20 a.m. Character suites suggest punctuated evolution of herbivorous morphologies in minnows (Teleostei: Cyprinidae) – N Gidmark - UMN
11:20 – 11:40 a.m. Effects of temperature and oxygen on the growth and survival of the endangered Topeka shiner – J Koehle and I Adelman UMN
11:40 – 12:00 p.m. Nutrient excretion by fathead minnows and its potential to sustain algal primary production in shallow lakes – K Zimmer and B Herwig - UST

Concurrent Session 4B – Blandin A & B (U)

10:20 – 10:40 a.m. A growing concern: double-crested cormorants on Leech Lake – P Rivers - MNDNR
10:40 – 11:00 a.m. Black and white crappie hybridization in Minnesota lakes – J Roloff, L Miller, M McInerney, and M Lew - UMN
11:00 – 11:20 a.m. AFS
11:20 – 11:40 a.m. AFS

12:00 p.m. Awards and Adjourn – Sawhall (D)

Drive Home Safely and see you next year!

Posters

Cochran, Jennifer. Crevice spawning behavior of spotfin shiner (*Cyprinella spiloptera*) in relation to woody snags in Pool 6 of the Upper Mississippi River. St. Mary's University.

Gorman, Matt, Kyle Zimmer, Brian Herwig, and Mark Hanson. Fish species versus watershed use as drivers of algal abundance in shallow lakes. University of St. Thomas

Haustein, Mitch, Kyle Zimmer, Brian Herwig, and Mark Hanson. Effects of variable fish communities on aquatic invertebrates in Minnesota wetlands. University of St. Thomas.

Hornbach, Daniel J., and Mark C. Hove. Long-term population dynamics of unionoid mussels in the St. Croix River, Minnesota and Wisconsin, U.S.A. Macalester College.

Hoverson, Darrin, Patrick Gruenes, Jeffrey Reed, and Bradford Parsons. Evaluation of manual removal of fathead minnow as a wetland management tool. St. Cloud State University.

Konsti, Melissa, Michelle Verant, Kyle Zimmer, Todd Call, and Malcolm Butler. Post-treatment assessment of the fish community in Lake Christina. North Dakota State University.

Meerbeek, Jonathan R., and Phillip W. Bettoli. Mass-marking rainbow trout and brown trout fingerlings with oxytetracycline. Tennessee Cooperative Fishery Research Unit.

Mueller, Robert J. The use of geographic information science to improve the accuracy and speed of bathymetry mapping. University of Minnesota.

Panke, Brendon. Has climate change affected the spawning chronology of the lake sturgeon (*Acipenser fulvescens*)? St. Mary's University.

Schlesser, Nicholas J., Dickson M. Atuke, Raymond M. Newman, and Bruce Vondracek. Effects of riparian forest harvest on instream habitat and fish assemblages in northern Minnesota. University of Minnesota.

Twaiats, Benjamin, Jared Fine, Allen Mensinger, and Peter Sorensen. Electrophysiological recording supports a possible role for water-borne bile acids in home stream recognition by anadromous rainbow trout (*Oncorhynchus mykiss Kamloops*). University of Minnesota.

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