



Newsletter of the Minnesota Chapter of the American Fisheries Society

Year 2005 No. 3
September Issue

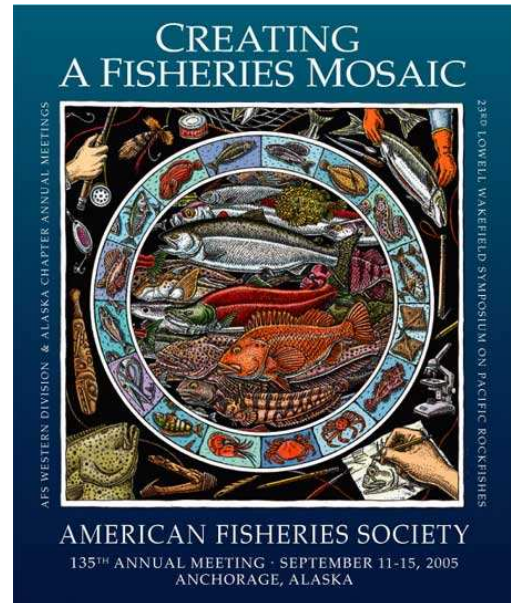
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**Message from Crossopterygei
By Tim Brastrup, President**

It was hard to come back from the AFS Parent Society Annual Meeting but alas, there are more pressing issues to dive into and there is more work to for the chapter. You may have read the notes from the meeting that were posted on our web site. It was unmistakably the

greatest learning opportunity I have had since the late 60's. Virtually every presentation was information packed and the presenters were of high caliber. I cannot say enough positive about the conference and I am grateful to have been given the opportunity. As with all things good though, it seems inevitable that something questionable will catch the eye.



During a vacation to Alaska 15 years ago our friends who live in Eagle River took us for a tour. We observed a pristine lake in the vicinity named Fireweed Lake. What we observed was that there were no homes on the lake, and the dominant fish species was (stocked) rainbow trout. It was truly a breathtaking gem of a resource. We took that same tour the other day and found the lake's shoreland to be crowded with homes on narrow lots, 20 to 30 foot setbacks, lush green grass lawns and rip rap. Fishing for rainbow trout has not been very good since the illicit introduction of northern pike. I guess the wilderness is not immune to



some of the characteristics of lakeshore development occurring in the lower 48.

On to the business of the chapter. There have been some important environmental issues lately that the Excom weighed in on. A letter was sent to **Governor Pawlenty** and the **Commissioner of the**

MNPCA regarding the mercury emissions issue. The chapter encouraged the governor and the MNPCA to adopt a shorter timeline and

RYBA editor: Donna Dustin

The Chapter publishes **RYBA** four times yearly (February, May, September, and December). Past issues can be found at the Chapter website: www.mnafs.org.

Please direct comments or submissions to: donna.dustin@gmail.com

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

stricter emissions standards for industry's larger mercury emissions polluters. In another issue, Rice Lake was inadvertently drained following a ditch cleanout project. In heads up environmental review, **Henry VanOffelen** warned of the potential of draining the lake if the project was conducted. The FWLA joined the MCEA in a partnership with the DNR Division of Waters in a suit against the local municipality. The outcome was a court-ordered restoration of the outlet to allow the lake to refill. Though the chapter did not write a letter of support, the Excom had discussions and since we are a member of the FWLA, we decided to let them represent us in the effort to effect the refilling of the lake.

The Excom will be considering the preparation of a letter of support for a district judge's court decision to uphold the provisions of the **Clean Water Act**. Two municipalities in the Twin Cities experiencing rapid growth proposed to build new wastewater treatment plants that would discharge effluent to the Mississippi River. A suit was filed against the municipalities saying that the river is an impaired resource and that it follows that the Clean Water Act prohibits that activity. The district judge upheld the act but the MNPCA has filed suit against the court. The MCEA is requesting our chapter to write a letter of support to uphold the court's original decision.



The Coastal Trail, Anchorage

In another potential Excom action, the U.S. Fish and Wildlife Service has announced the availability of a draft EA and draft economic analysis relating to the proposed rule to add all forms (diploid and triploid) of live black carp gametes, and viable eggs to the list of injurious fish under the Lacey Act. **Michael Hoff**, USFWS, is soliciting comments on the Federal Draft EA.

Henry VanOffelen, President-Elect, has been busy organizing the joint **2006 Annual MNAFS Chapter meeting** with representatives from **Minnesota Chapters of The Wildlife Society, Society of American Foresters, and the Society for Conservation Biology**. Henry has the details in a review document sent to Excom members. In essence, the meeting will be a joint meeting with the above mentioned organizations and will be held at **Cragun's Resort** near Brainerd, MN, from **Tuesday, February 28, 2006 through Thursday, March 2, 2006**. It looks to be a very interesting meeting with both a similar format as in previous years as well as some notable changes that are meant to maximize the benefit of having four organizations presenting jointly. It promises to be an excellent meeting.

The University of Minnesota campus now has a **MNAFS Student Subunit**. Their bylaws have been reviewed and adopted by the Parent Society. Mark Hove worked very hard on the chapter subunit and had broad support from the Excom. The new subunit will provide a better access to chapter involvement, in keeping with the Long Range Plan.

Finally, the Excom is currently searching for an Academic Excom Member to replace the outgoing representative, **Julie Zimmerman**. Julie received her Doctorate and is leaving to pursue a postdoc position at the USGS Conte Anadromous Fish Research Lab in Massachusetts. We are all grateful for her fine work on the Excom and wish her the best in her career.

Faithfully submitted by Tim Brastrup.

Officer Reports

President-Elect
Henry VanOffelen

2006 Annual Meeting

Plans for the 2006 Annual Meetings continue to move forward. As you may remember, we will have a joint meeting with the **Society of American Foresters, The Wildlife Society, and the Society for Conservation Biology**. The meeting will be held at **Cragun's in Brainerd from Tuesday February 28 through Thursday March 2**. The meeting theme is likely to be "**Sustainable NR management: Beyond Monitoring**". The meeting will kickoff with a poolside social on Tuesday evening and invited speakers on Wednesday morning. We are currently seeking speakers who can speak to the topic of sustaining natural resources into the future. We also will seek speakers who can provide case studies of integrated natural resource management efforts in North America. The meeting format will be similar to past years. Final conference schedule details and speakers should be lined up by the end of this year. A call for papers will be presented in the next newsletter. Tom and Brian are actively working to pursue raffle items. *Please send any suggestions for speakers and topics to Henry VanOffelen at vanoff@lakesnet.net.*

Shallow lakes conference

MN AFS is co-sponsoring the **Shallow Lakes Forum III on April 5-6**. The conference will be a full day on Wednesday and a half day on Thursday. Planning efforts for the conference are underway and details should be available in the next newsletter. If you have questions or comments related to the planning of this conference, please contact **Henry VanOffelen at vanoff@lakesnet.net**.

Secretary-Treasurer
Pat Rivers

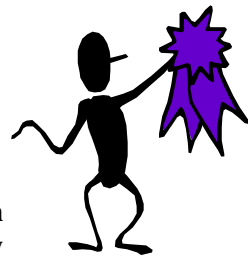
The minutes from the May EXCOM meeting are available on the website: www.mnafs.org.

Committee Reports

Awards
By John Hiebert

ATTENTION CHAPTER MEMBERS!

Do you know someone who has gone above and beyond the call of duty to accomplish the Chapter's goals? Let that person know how much you appreciate their hard work by nominating him or her for a Special Recognition Award. What about someone who has made a life-long commitment to Minnesota's fisheries? Nominate him or her for the prestigious Award of Excellence. There are a lot of people out there working hard to make the world a better place for fish - don't let their efforts go unnoticed!



To nominate someone for an award or to volunteer to judge papers or posters please contact **John Hiebert at 651-296-2548 or john.hiebert@dnr.state.mn.us**.

The **Special Recognitions Awards** can only be given to Chapter members (Appendix C of Procedures Manual). It is given in recognition of special service to the Chapter, such as outgoing officers or committee chairs or members who provide a special service to the Chapter. Chapter members who contribute to advancement of the goals of the Chapter through their participation in resource related projects are also eligible for Special Recognition Awards.

Each Special Recognition Award nomination must include (Procedures Manual Appendix C-4):

1. The name, address, email, and phone number of the nominator.
2. The name, address, email, and phone number of the nominee.
3. The nominee's current position.
4. A short statement of why the nomination is being made. If the nomination is to recognize service to the Chapter, the service provided must be described. If the nomination is for a special project, the nature of the project and the nominee's role must be described.
5. Although not required, supporting materials and names of other people familiar with the nominee's accomplishments may provide useful information for determining award eligibility.

The **Award of Excellence** may be presented to any individual or group, regardless of membership in the AFS, in recognition of years of dedicated service to the fishery profession or in recognition of an outstanding effort to further the goals of the AFS and the Chapter. At the 2005 Annual Chapter Meeting, Ira Adelman was presented with the **Award of Excellence** for his work in fisheries education and curriculum and for his leadership role in the chapter and in the parent society. Ira has supported many students who have attended and presented at our annual meetings and has guided our Chapter, and others, through his vision of "Science to Influence Outcomes."

The criteria on which the **Award of Excellence** is based include the following:

1. Is the accomplishment or professional service truly above and beyond the call of duty?
2. What is the extent of the impact the nominee has had?
3. Is the impact exceptional, given the position and location of the individual?
4. How well do the accomplishments of the nominee match the goals of the AFS and the Chapter?

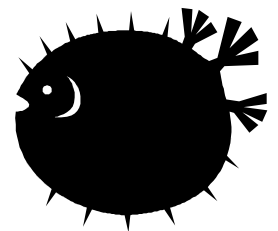
Each Award of Excellence nomination must include (Procedures Manual Appendix C-4):

1. The name, address, email, and phone number of the nominator.
2. The name, address, email, and phone number of the nominee.
3. The nominee's current position.
4. Nomination statement - indicate how and why the nominee is worthy of the award. Describe the impact or significant contribution the individual has made in one or two pages.
5. Supporting documentation - other material may be included to document the nominee defense.
6. List the name, title, address, and telephone number of two other people who are familiar with the nominee's accomplishments.

Issues

Loren Miller

Our most recent activity was sending a letter to Gov. Pawlenty and the MPCA Commissioner concerning **mercury standards for Minnesota**. We supported a timely implementation of mercury reduction standards. Some are apparently questioning a cozy relationship between industry and the MPCA as industry tries to delay implementation. We noted the impact of mercury on human health, and because of its association with fish, possible impact on fishing-based tourism. Other issues have been acted on through FWLA.



Membership

Calub Shavlik

As of August 2005 (prior to the Parent Society annual meeting), we are currently at 213 members of which 53 were non-paying students. Previous 2004 members were contacted to renew their membership for 2005 if they have not done so.

Of the 2005 total, 119 chapter members are parent society members. However, 21 members are parent society and chapter members but not recognized by the parent society because they paid their dues separately. If you want to know if your colleagues or friends are chapter members and/or parent society members, contact me for inquiries. If you or someone you know wants to join, refer to the chapter website (www.mnafs.org/membershipinfo.htm) or **Calub Shavlik** (calub.shavlik@dnr.state.mn.us) for instructions.

Nominations

Greg Busacker

This is a good time to submit your nominations for Chapter Officers in the next election. The "Open and Academic" categories will be voted on for 2006 in the EXCOM. We are looking for a DNR nomination for President Elect. Send your choices to **Greg Busacker** at greg.busacker@dot.state.mn.us or call at 651-284-3759.



FWLA

Bruce Vondracek

I attended the FWLA meeting in place of both Don and Loren on Tuesday, 27 September. In a nutshell the main issues discussed were that FWLA will participate in the organization of a rally to be held at the Capitol on 22 April 2006, modeled after the successful wetlands and waterfowl rally held earlier this year. FWLA may develop a super board with Minnesota Outdoor Heritage Association (MOHA). The advantage is that MOHA is an organizing group with the ability to solicit funds that FWLA cannot. FWLA can lobby at the Capitol, whereas MOHA is restricted in the amount of lobbying it can do.

Of interest, FWLA will celebrate its 20th anniversary next year.

Website

Donna Dustin

I have been making some changes to the website, most notably I have added a Discussion Forum which will be replacing the Yahoo!Group MNAFS as the place to discuss and share information about most any Minnesota fish issue that folks want to share. For starters I have set up two topic areas: Legislative Issues and Breaking News, I can add more as the need arises. I'm still working on getting our logo on the Discussion page. Anyone can post new topics or reply to existing ones, but you do have to register first (instructions are included in the Welcome topic). Look for the link to the Discussion forum from our home page www.mnafs.org!

I have also set up an e-mail list for official announcements, such as Annual Meeting Information and Newsletter posting. You may take yourself off this list if you wish, but you will not receive any of the normal chapter communications if you do.

NCD Centrarchid Technical Committee

Cindy Tomcko

Chair Keith Hurley opened the Centrarchid Technical Committee summer meeting at Wyalusing State Park, Prairie du Chien, WI, on July 19, 2005. with a Centrarchid Bioenergetics workshop taught by Dr. Rob Hayward and his PhD student, Przymeslav Bajer. They covered their bioenergetic models for crappie, bluegill, largemouth and smallmouth bass, yellow perch, and Eurasian perch. They discussed the positives and pitfalls of using bioenergetic models. They also presented work on important sources of bias in the model and how to address bias.

Presentations by six members were made on July 20, 2005 following the completion of the bioenergetics workshop. Keith Koupal, NE, studied crappie recruitment and entrainment in Sherman reservoir, an aging reservoir with no aquatic shoreline vegetation, algal blooms, a changing fish community, and angler use problems. Crappie were marked with elastomer tags, which caused 0% mortality and had 100% retention. Keith found no relationship between larval and adult crappie densities, that adult crappie were most abundant in coves, and that crappies were being lost from the reservoir to irrigation canals.

Chris Chizinski, PhD at TX Tech, is trying to understand variation in bluegill growth potential, what factors contribute to increased early growth and reproductive investment and decreased age-at-maturity and ultimate length. Under severe food limitation, survival of stunted bluegill increases until stunted fish dominate the population size structure. He is using zebrafish as laboratory test animals, evaluating bioenergetic changes as he varies size at maturity and prey energy density. He'll then compare lab results to those from fish populations sampled in the field and develop a model based on his findings.

Ed Braun, IN, evaluated the quality largemouth bass population in one of the few of 800 natural lakes in the state with no shoreline development. Shad are present in the lake but it had no fishing pressure until opened to the public fishing in 1993, with an 18 in. size limit on bass. Fishing pressure increased 125% by 1999 and 40% of anglers were targeting bass in 2002. Bass CPUE and PSD increased, while RSD-18 and numbers, based on two population estimates, decreased. The size distribution shifted to large individuals due to a large year class recruiting to the fishery. Young bass grew well from 1993-05 but adult growth was depressed. Adults may be food-limited: few shad were sampled in 2005. In 1996, a 12 in. limit and a bag of 6 was instituted, which decreased exploitation in 1996 from 38% to 23% in 2002. Bluegill anglers were unhappy with changes in their fishery.

Jeff Jolley, NE is modeling bluegill recruitment, other biological variables, and climate in the shallow Sandhill lakes with considerable macrophyte coverage. Bluegill larval abundance peaks in early Aug and mid to late August whereas yellow perch peaked in mid May. In 2005, yellow perch again peaked in mid May but at much lower bluegill abundances. The results will be used to identify and supplement management actions for optimal bluegill recruitment.

Cindy Tomcko, MN, wants to find out if shoreline development is having negative effects on fish populations. She will examine the relationship between bluegill population dynamics and submerged aquatic vegetation. She has estimated bluegill mortality, both total and natural, age at maturity, and production. To characterize the aquatic plant community, she used estimates of plant species richness and floristic quality indices (FQI). The largest correlations she found were between natural mortality and FQI, -0.41, tR, a maturity estimate developed by He and Stewart and FQI, 0.31, and between MEI, and FQI, -0.59. She has one more plant community index to calculate, which will estimate value to fish of the sampled plant community.

Keith Hurley, NE, summarized a published paper by Mark Porath and himself on whether bluegill growth

rates were affected by waterbody type, presence of gizzard shad, and management actions, such as supplemental feeding and fishing regulations. They found that young bluegill grew faster in Sandhill lakes and older bluegill grew faster in mine pit lakes, compared to growth in reservoirs and small ponds. In mine pits, supplemental feeding increased the growth of age 2 bluegill, while shad decreased growth of age 2 and 3 bluegill. In reservoirs, shad decreased growth of age 3 and 4 bluegill.

Business Meeting Summary:

Black bass database: Mike McInerny has finished revising it and has submitted it to Fisheries.

Grey literature list: Cindy Tomcko revised the previous list, produced in the early 1990s. The new list will be available on the CTC website.

CTC website/email list serve: Keith has been instrumental in setting up the CTC website. All members are on the list serve. As the NCD website will be changing its address, Keith will look into moving CTC to the NCD website. The new NCD webmaster is Joe Hennessy.

2005 annual meeting: We will hold our annual meeting at the 66th AFS Midwest Fish and Wildlife Conference in Grand Rapids, MI.

2006 summer meeting: Members agreed the summer meeting is a useful forum for the informal exchange of ideas. Keith suggested maximizing the opportunities for casual conversation about centrarchids next summer by hosting a float trip down the river. The fun never stops! We are attempting to schedule next year's summer meeting in July at Wyalusing State Park.

Nomination/election of 2006 CTC chairperson: Cindy Tomcko agreed to serve as chairman and was elected unanimously. Cindy is a research biologist for Minnesota Department of Natural Resources' Fisheries Division.

NCD Ictalurid Technical Committee

Dennis Topp

Chairman Lynn Schlueter (North Dakota) is planning a conference call to discuss the Cat-A-Thon (management and techniques meeting) and Cats-In-Ten (a major symposium). No date has been set for this meeting, yet.

The Catfish Management Technical Committee of the Southern Division has some great information on their newly developed website.

The address for their main page is:

<http://www.sdafs.org/catfish/>

From that page, from the "events" link, they have included handouts from the 2005 Southern Division AFS catfish otolith aging workshop. The handouts cover channel catfish otolith extraction, preparation, and interpretation. The 2002 paper by Buckmeir et al., titled "Validation of Otoliths and Pectoral Spines for Estimating Ages of Channel Catfish," is also linked from the main page of the website.

The Southern Division Catfish Technical Committee is also planning a catfish symposium for the 2006 Spring Meeting of Southern Division AFS which will be held in San Antonio, TX February 8-12, 2006

<http://www.sdafs.org/meetings/2006/>

Abstracts for the symposium are due December 1st. Contact Kevin Sullivan if you're interested in participating. Kevin's email address is: Kevin.Sullivan@mdc.mo.gov

Continuing Education Opportunity

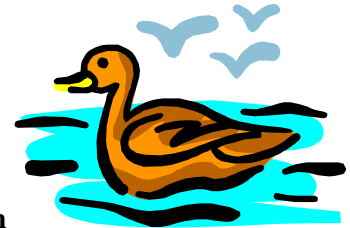
Advanced Fisheries Ecology Workshop. The Minnesota Chapter is planning a 1.5 day course on January 12-13, 2006 in Duluth MN. We are excited to have the distinguished scholar **Dr. John Magnuson** (Professor Emeritus UW-Madison) instruct the course.

The course will focus on basic ecological forces (i.e., invasive species, cumulative impacts, and global climate change) shaping north temperate fish communities with emphasis on strategies for long-term solutions to problems. This course should have broad appeal to all involved in aquatic resource management.

Class size is limited to 43 people and we expect it to fill up fast, so sign up early. Contact **Ray Valley ray.valley@dnr.state.mn.us or 651-793-6539** to see if there are seats left, or visit **www.mnafs.org** for more details.

Of Interest

Minnesota Conservation Federation Meeting Brian Nerbonne



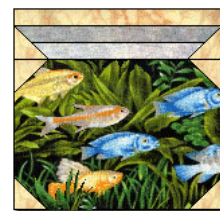
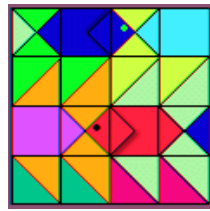
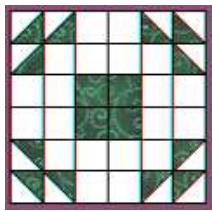
On Sept. 10 I attended the Annual Assembly of the **Minnesota Conservation Federation (MCF)** on behalf of the Minnesota Chapter of AFS (MNAFS). Our chapter joined MCF as an associate member beginning in 2005. MCF is the Minnesota Affiliate of the National Wildlife Federation, with a mission of having "a proactive effect on sound conservation policy". To this end they retain **Gary Botzek** (formerly of the Fish and Wildlife Legislative Alliance) as a lobbyist at the state capital. They also publish two educational magazines (Minnesota Out of Doors and magazine for kids called Walk on the Wildside). Many of the attendees at the annual meeting represented sportsmens clubs from across the state. The Wildlife Society is also an affiliate member of this organization.

At the meeting membership considered resolutions that will guide advocacy in the coming year. Resolution passed were: 1) clarification of language regarding buffers along ditches, 2) support for LCMR reorganization to include representation of hunting, fishing, and outdoor interests, 3) advocating for additional funding sources for LCMR, 4) support for generating a 50 year vision for conservation in Minnesota, 5) a call for the restoration of 3 million acres of wetlands in the next 10 years, 6) requiring 100% landowner approval for licensing of wetlands for private aquaculture use and reducing permit length to 3 years, 7) support for full funding of the Clean Water Legacy Act, and 8) implimentation of the Emergency Wetlands Loan Act to use future duck stamp dollars to purchase land now. Membership also voted to become a Friend of the Court in the lawsuit regarding the draining of Rice Lake by the Rice Creek Watershed District.

I found our participation with this organization to be worthwhile. They have the potential to be heard at the legislature via Gary Botsek, and their educational materials are of high quality. Through our participation hopefully they can bring forward more issues that are of concern to MNAFS.

New Book Available Luther Aadland

The book, "Historical Changes in Large River Fish Assemblages of the Americas" has finally been published. I have a chapter that I coauthored with 3 Canadians (Bill Franzin, Ken Stewart, and Patrick Nelson) and another yankee (Todd Koel) on the Red River Basin. Many others contributed data. Thanks to all who helped. The basin map was changed in the final edit and several dams were left out...I wish it was that easy to get rid of them. The book is 69\$ (\$48 for AFS members) and can be ordered at; <http://www.fisheries.org/html/publications/catbooks/x54045.shtml>



Something Fishy - Quilt Challenge Ginny Snarski and Linda Erickson-Eastwood

President **Tim Brastrup** issues the following challenge to all members. Submit a block for the construction of a quilt and get a free raffle ticket. Don't let the fact that you don't sew stop you. He encourages you to seek help from your spouse, relatives, friends, or strangers for making the blocks.

Yes. This is the same request that was in the last *Ryba* which didn't get a very good response. So, here are some more specifics: Submit a 100% cotton block with a fish, fisheries, or a habitat theme that is 12.5 x 12.5 unfinished (this will allow 1/4 inch seams for sewing into the quilt). **Sign up to create a block by contacting Linda Eastwood (651/296-0791) or Ginny Snarski (vsnarski@cpinternet.com or 218/525-5037) by October 20** . Finished blocks will need to be sent by November 30 to Linda Eastwood at: MN DNR, Division of Fish and Wildlife, 500 Lafayette Rd., St. Paul, MN 55155.

We know that fisheries folks can be very creative and we're positive you or one of your loved ones could come up with a design(s) or two. Blocks can be traditional pieced, appliqued, embroidered using plain or patterned fabric (some very nice fish/aquatic patterned fabrics exist) or contain a printed picture. Use an existing pattern or one you have designed – the choice is yours. Some suggested ideas by our president include: stream electrofishing = crossed electrodes; trawling = picture of a trawl; Habitat Restoration = picture of bulrush, cattails and upland plant; Research = Greek symbol for Pisces; Water Quality = Erlenmeyer flask; Fish Stocking = a trout going into the water; Hatchery Operation = Meehan Jar; Hatchery Production = walleye fry; Exotic Species Monitoring = zebra mussel; Special/Experimental Regulations = fish on a measuring board, etc.

We encourage you to accept this challenge and sign up to design and donate a block or two for a unique quilt that, I'm sure, any self-respecting fisheries professional would be happy to win and will be a unique keepsake. *But it won't happen if we don't get enough people to step forward and contribute to its creation.*

Recent Publications by Chapter Members

Thanks to **Brad Parsons** for compiling this list. Did he miss anyone? Please send your citations for recent work to Brad at **brad.parsons@dnr.state.mn.us**

- Boody, G., B. Vondracek, D. A. Andow, M. Krinke, J. Westra, J. Zimmerman, and P. Welle. 2005. Multifunctional agriculture in the United States. *Bioscience* 55:27-38.
- Valley, R. D., M. T. Drake, and C. S. Anderson. 2005. Evaluation of alternative interpolation techniques for the mapping of remotely-sensed submersed vegetation abundance. *Aquatic Botany* 81:13-25.
- McInerny, M. C., and T. K. Cross. 2005. An evaluation of mark-recapture estimates of black crappie population size determined by trap-netting during spring and fall in Minnesota lakes. *North American Journal of Fisheries Management* 25:475-490.
- Isermann, D. A., and C. T. Knight. 2005. Potential effects of jaw tag loss on exploitation estimates for Lake Erie walleyes. *North American Journal of Fisheries Management* 25:557-562.
- Parsons, B. G., and J. R. Reed. 2005. Movement of black crappies and bluegills among interconnected lakes in Minnesota. *North American Journal of Fisheries Management* 25:689-695.
- Jones, T. S. 2005. The influence of circle hooks on the capture efficiency and injury rate of walleyes. 2005. *North American Journal of Fisheries Management* 25:725-731.
- Jacobson, P. C. 2005. Experimental analysis of a reduced daily bluegill limit in Minnesota. *North American Journal of Fisheries Management* 25:203-210.
- Tomcko, C. M., and R. B. Pierce. 2005. Bluegill recruitment, growth, population size structure, and associated factors in Minnesota lakes. *North American Journal of Fisheries Management* 25:171-179.
- Isermann, D. A., and C. S. Vandergoot. 2005. Predicting walleye total length from head and mandible measurements. *North American Journal of Fisheries Management* 25:316-321.
- Page, K. S., G. C. Grant, P. Radomski, T. S. Jones, and R. E. Bruesewitz. 2004. Fish total length measurement error from recreational anglers: causes and contribution to noncompliance for the Mille Lacs walleye fishery. *North American Journal of Fisheries Management* 24:939-951.
- Logsdon, D. E., B. J. Pittman, and G. C. Barnard. 2004. Oxytetracycline marking of newly hatched walleye fry. *North American Journal of Fisheries Management* 24:1071-1077.
- Negus, M. T., and F. T. Tureson. 2004. Retention and nonlethal external detection of calcein marks in Rainbow trout and Chinook salmon. *North American Journal of Fisheries Management* 24:741-747.
- Page, K. S., K. T. Scribner, D. Bast, M. E. Holey, and M. K. Burnham-Curtis. 2005. Genetic evaluation of a Great Lakes lake trout hatchery program. *Transactions of the American Fisheries Society* 134:872-891.
- Pierce, R. B., and C. M. Tomcko. 2005. Density and biomass of native northern pike populations in relation to basin-scale characteristics of north-central Minnesota lakes. *Transactions of the American Fisheries Society* 134:231-241.
- Radomski, P., J. R. Bence, and T. J. Quinn II. 2005. Comparison of virtual population analysis and statistical kill-at-age analysis for a recreational, kill-dominated fishery. *Canadian Journal of Fisheries and Aquatic Sciences* 62:436-452.

Wisenden, B. D., J. Klitzke, R. Nelson, D. Friedl, and P. C. Jacobson. 2004. Predator-recognition training of hatchery-reared walleye (*Stizostedion vitreum*) and a field test of a training method using yellow perch (*Perca flavescens*). Canadian Journal of Fisheries and Aquatic Sciences 61:2144-2150.

Dieterman, D. J., W. C. Thorn, and C. S. Anderson. 2004. Application of a bioenergetics model for brown trout to evaluate growth in southeast Minnesota streams. Minnesota Department of Natural Resources, Section of Fisheries Investigational Report 513, St. Paul.

Parsons, B. G., J. R. Reed, H. G. Fullhart, and V. A. Snook. 2004. Factors affecting black crappie recruitment in four west-central Minnesota lakes. Minnesota Department of Natural Resources, Section of Fisheries Investigational Report 514, St. Paul.

Caught My Eye

Just some stuff I saw...

Donna Dustin

Our own **Peter Sorenson** and colleagues have been all over the science news this week with some exiting new research on Sea Lampreys. Read all about it at:

<http://www.sciencedaily.com/releases/2005/10/051003081824.htm>

While you're surfing the web, check out this cool site. **Ray Troll** is the creator of the Fisheries Mosaic poster shown on page 1, and he has done lots of other extremely creative fish work:

www.trollart.com

A few selections are reproduced below.

TROLLART
TROLLART.COM



Sabre Tooth Salmon



Upcoming Events

2005

**25th Annual Symposium of the North American Lake Society: Lake Effects: People/Water
Exploring the Relationship**

Nov 9-11, 2005 — Madison, WI

See www.nalms.org

Contact Carol Winge, winge@nalms.org, 608/233-2836.

**66th Annual Midwest Fish and Wildlife Conference: Bridges to Understanding: Linking
Multiple Perspectives**

Dec 11-14, 2005—Grand Rapids, Michigan.

See www.midwestfishandwildlife.com.

2006

Annual Meeting of the Minnesota Chapter of the American Fisheries Society

Feb 28-March 2, 2006 — Cragun's Resort, Brainerd, MN

See www.mnafs.org

Shallow Lakes Forum III

Apr 5-6, 2006

Contact Henry VanOffelen, vanoff@lakesnet.net

**International Conference on Rivers and Civilization: Multidisciplinary Perspectives on Major
River Basins**

Jun 25-28, 2006 --- La Crosse, WI

See www.rivers2006.org/

Contact James Wiener, wieners.jame@uwlax.edu, 608/785-6454

Eighth International Conference on Mercury as a Global Pollutant

Aug 6-11, 2006 --- Madison WI.

See www.mercury2006.org

Contact James Wiener, wieners.jame@uwlax.edu, 608/785-6454

American Fisheries Society 136th Annual Meeting

Sep 10-14, 2006 --- Lake Placid, NY

Contact Betsy Fritz, bfritz@fisheries.org, 301/897-8616, ext. 212

**Minnesota Chapter of the American Fisheries Society
Current Officers and Committee Members May 2005**

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