



RYBA

Newsletter of the Minnesota Chapter of the American Fisheries Society

Year 2003 No. 1
February Issue

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President's Message by Brian Borkholder

President's Message
By Brian Borkholder

One measure of success in life is a permanent sign on your door that says; Gone Fishin. Anonymous

The Midwest Fisheries Conference in December gave me the opportunity to visit scenic Iowa. Why can't the NCD plan December meetings in Cancun? Anyways, at the NCD business meeting, Parent Society President Fred Harris again discussed his theme for the year: Relevancy. He has challenged the Chapters to be looking at the problem of recruitment and retention of membership. Why are so many individuals in our profession not members of the Society? Fred pointed out that non-members deprive AFS of new ideas, vision, experience, and energy, while losing out themselves by missing opportunities for professional development and learning from the experiences of others. He has asked each of us to work at making membership in AFS important and relevant to our co-workers. Allow me plug one of our continuing efforts to recruit members: We are again offering a drawing to pay the membership dues for this year for

everyone that joins the Parent Society for the first time (or again, if they have been inactive). The winner, if any, will be announced at our annual meeting in March. The ExCom has tossed around the idea of, possibly in the future, having a drawing to pay for a subscription to one of the AFS journals for a first-time Parent Society member. If anyone has additional ideas or suggestions on ways to make membership relevant to our co-workers, the ExCom would love to hear them.

While the timing is extremely poor, with looming budget deficits and other fiscal problems, Fred Harris plugged the 4th World Fisheries Congress to be held in Vancouver, B.C., in May 2004. This may be a once-in-a-lifetime opportunity to attend such a meeting so close to home. He has challenged everyone, if at all possible, to mark their calendars and try to attend. This will give us the opportunity to look at fisheries from a global perspective.

Congratulations to everyone who participates and is a member of the MN Chapter! For the second year in a row (I believe Brad Parsons' exact words were "Dynasty"), the MN Chapter has received the Most Active Chapter Award for the North Central Division. There was actually a tie this year, and the award was presented to both the Missouri and Minnesota Chapters. The list is too long for individual Thank You's, but I do appreciate the work everyone puts into the Chapter's activities. So, thank you to everyone who made this year successful!

Our Chapter doesn't win this award because of what the ExCom or Committee Chairs do. We are

successful when individuals take an active role in Chapter activities. I encourage you to look over the list of Committees and find an area that interests you. Then, get involved! John Hiebert, Missy Drake, and Tom Burri will all need help at the next annual meeting with running A/V, judging papers, registration, selling raffle tickets, taste-testing the beer, and a host of other tasks. Shannon Fisher will need help judging Science Fairs at some of the regional competitions this spring. The Chapter can always use help at the MN State Fair in September. If you come across any interesting information that other Chapter members could benefit from, forward it on to Loren Miller (RYBA) and Dave Anderson (web site). Any resolutions or issues that you think the Chapter should address? What about serving as an ExCom member? Are you interested in being a mentor to a Hutton Student through the Parent Society? What additional activities should the Chapter consider getting involved with? The Chapter needs the energy, ideas, and participation of everyone in order to continue being successful and dynamic within AFS.

Everyone should be making their plans to attend the Chapter's annual meeting in March. John has gone through a lot of effort to keep the costs as low as possible for a meeting in the Metro area, thanks to a couple of grants and sponsorships he was able to secure. Keep in mind your registration includes just about EVERYTHING, even lunches and breakfasts! We've got a lot planned for this meeting. Allow me to issue a challenge to everyone: As you are making your plans to attend, identify one co-worker who hasn't really thought about attending. Then, encourage your co-

worker to do so. Threaten them if you have to. Let John Hiebert know so that he can threaten them too! Offer to carpool and to share a room. Offer to buy them lunch on the way down. Offer to pour them a beer at the social (the beer's free, so this one won't really cost you a thing!). See you all in Chaska!

I hope everyone had a great autumn, Thanksgiving, and wonderful Holiday season! For me, hunting season just isn't long enough! Now, unfortunately, I'm out of excuses and it's time to commence thinking about the possibility of maybe considering the potential of starting to plan on beginning to work on my wife's kitchen remodeling project. Sounds like I'm truly motivated, eh? Thanks again for all of the hard work this past year! It's been a pleasure serving you and the Chapter.



Officer and Excom Reports

President Elect By John Heibert

See agenda for **The 36th Annual Meeting of the Minnesota Chapter of the American Fisheries Society March 3rd-5th, 2002 in Chaska, MN**

Committee Reports

Fundraising by Tom Burri

Annual Raffle!

At this year's annual raffle, the Fund Raising Committee has several "grand" prizes to give away! The Chapter will be offering, in addition to the usual selection of framed prints and misc. fishing stuff: a Mark Cook

Rod, a Knight Wolverine II .50 cal muzzleloader, and a custom Mathew's MQ1 Solocam bow (bow is 29" draw and 60 lb peak, but Mathew's will custom it to fit the winner). If you are unable to attend the annual meeting, but wish to support the Chapter's efforts and have a chance at some really nice prizes, please contact Tom Burri (tom.burri@dnr.state.mn.us) or Brian Borkholder (brianborkholder@fdlrez.com) to arrange to take part in the annual raffle. Thank you for supporting the Chapter's efforts. Without the annual raffle, the Chapter couldn't be as active as we are.

In these tough economic times, businesses that have in the past donated to the Chapter's raffle are finding it tougher to scrape up charitable offerings. It would be a great benefit to the Chapter if members contributed individually to the raffle. Homemade items are always a huge hit, e.g. candles, beer, crafts, carvings, lures, hand-tied flies, etc. Also, if anyone knows of any potential donors, in particular local vendors, either hit them up yourself, or let the Fund Raising Committee know. A contact name is always helpful. A request letter will be sent immediately. Thank you for your assistance, and we're looking forward to a successful annual meeting in Chaska

Webmaster By David Anderson

After Wansuk Senanan returned to Thailand, I took over her role as Chapter webmaster. Mostly I have just re-organized the content so far, but I'm always looking for new material to add, so send your submissions to me. Please check it out sometime, at www.fw.umn.edu/mnafs You'll find the Chapter newsletter (as well as past issues), contact information for officers and committee members, announcements of upcoming meetings, and a section for students. Any and all feedback is welcome. If anyone has graphic arts or web design talents, and would like to give the web site a one-time overhaul, I'd welcome that, too.

Continuing Education By Mike Duval

The Continuing Education Committee is in the initial stages of arranging a one-day course entitled "Public Involvement Techniques" to be offered in late-May or early-June. This course, facilitated by Dr. David Fulton with the University of MN Coop Unit, will explore various techniques of identifying stakeholder groups, engaging the public in natural resource issues, and managing/resolving conflict. This course will be valuable for those who are involved in setting natural resource policy, management planning, and resource advocacy. This offering should be timely for fisheries managers submitting regulation packages for this fall as well as for those seeking public input on revised management plans. Look for more information in the coming months in your email or on the Chapter website, or contact your CE Committee representatives.

Stream Classification Workshop a Huge Success!

During June and September 2002, MN AFS along with the MN DNR sponsored two workshops focusing on fluvial geomorphology and stream classification. A combination of classroom lectures and field exercises taught stream typing and its applications, as well as fundamental hydrology and hydraulics of rivers. A total of 35 people attended the June course at Whitewater State Park and 39 attended the September course in Fergus Falls, including many DNR staff, county and watershed district employees, and private consultants. Students were asked to complete course evaluation forms, and reviews for both courses were highly favorable. An overwhelming majority of students rated the class as "pretty good" to "excellent." In fact, the number one response to the question "what was least useful?" was that all of the material and exercises were useful. In addition, most students found the field exercises to be most beneficial to their understanding of the course material. Nevertheless, students from both classes indicated

that the large group and class sizes hindered their ability to practice and understand all of the techniques as well as they would have liked. Students also had several minor suggestions for improvements that will be considered for future workshops. Finally, a large number of students expressed interest in attending a stream restoration workshop that will focus on applying concepts covered in this course to proposed restoration projects.

Fishing Roundtable By Mark Hove

The annual Fishing Roundtable was shortened to one day this year due to the state budget issues. On January 11, 2003 we discussed several topics including: new legislative and DNR leaders, Mille Lacs, bag limit changes, northern pike regulations, culling, legislation, lead sinker issue, and the 'Split the DNR issue'. The following select points were presented during the meeting:

Legislative and DNR leaders • Senator Sams - 'wants to spread state budget cuts to pay for the large deficit'. Constituent input is very important to legislators. Committee chairs need to consider input from all Minnesotans. • Representative Hackberth - wants to protect dedicated funds, believes lead sinker issue is gaining increased attention, and wants constituent input. • Representative Ozment - "Our DNR employees are second to none." He wants to make sure the most important DNR projects will be accomplished and that the needed resources will be provided. • Fishing Roundtable members requested that legislators fight for dedicated funds. • Brad Moore - People will invest in conservation, not agencies. Conservation is core to MN DNR. Trust is an issue for some. The DNR will work issue by issue to resolve problems.

Mille Lacs Lake • Reached agreement that should stabilize fish harvest and local economy

Bag limit changes • Overall support was strong, some local support against

Northern pike regulations • One person thought there should be a greater harvest allowed for small northern pike. Tom Neustrom recommended Red Lake be managed as a trophy pike water.

Culling • Don't want anglers to replace fish due to high hooking mortality. Some tournament groups concerned with culling rules.

Legislation • Will ask to increase commercial fishing license fee to cover cost of program • Will ask for money to study hooking mortality in Mille Lacs • Will ask for sturgeon tagging program to control harvest

Lead sinker issue • Several people would like to get the lead out of fishing. They are interested in learning the best way to do this. • DNR would like to get lead out of the environment through education

Split the DNR • Some people would like to focus the DNR on fish, wildlife, and ecology. They would like a strong emphasis on fishing and wildlife, and make sure dedicated funds stay focused. The DNR is requesting input on problems and issues addressed by the "Split the Agency" solution.

Members of the Round Table had some interesting closing thoughts. There was near unanimous agreement that we would work together to do what was best for fish and the resources. Many wanted to proceed carefully. Change is inevitable, but change for the sake of change, is regression.

If you're interested in learning more about the 2003 meeting please contact me at Mark.Hove@fw.umn.edu or 612.624.3019.

Awards - by Missy Drake

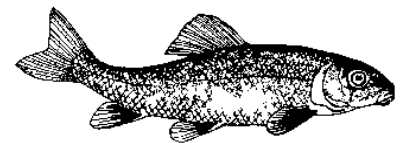
ATTENTION chapter members! It's not too late to nominate someone for an award. Do you know someone who has gone above and beyond the call of duty to accomplish the Chapter's goals? Let that person know

you appreciate their hard work. Nominate him or her for a Special Recognition Award. What about someone who has made a lifelong 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!

Did you join the Chapter prior to 1976? Or, do you know someone who has been a member for at least 25 years? If so, please let us know. These members deserve to be recognized for their long-term commitment to the Chapter.

Would you like to contribute to the Annual meeting but don't know what you can do? Why not volunteer to judge papers? It's a great way to get involved.

To nominate that special someone for an award, to let us know who has been a member for at least 25 years, or to volunteer to judge papers please contact Melissa Drake at 651-772-7966 or melissa.drake@dnr.state.mn.us.



Division Technical Committee Reports

Centrarchids – by Mike McInerny

2002 Winter Meeting Minutes

Chair Mike McInerny opened the business meeting of the CTC on Dec. 2, 2002 with 26 members in attendance.

Black bass symposium update: The symposium has been published but cannot be purchased on the website yet.

Crappie symposium update: The symposium has been published in the current issue of North American Journal of Fisheries Management (NAJFM).

Lepomis symposium update: Manuscripts must be submitted by January 17, 2003 to Steve Fischer (4 hard copies and 1 e-copy). Peer review will be completed by February 28, 2003. The deadline for final revisions is April 30, 2003.

Manuscripts will be shipped to NAJFM by May 23, 2003.

Black bass regulation survey: Forms have been distributed to the chapter representatives. Feedback from chapter representatives should go to Mike McInerney.

Summer meeting: The meeting is scheduled for July 29 and 30, 2003, at Wyalusing State Park, WI. Keith Hurley (NE) brought up a potential topic for the meeting, development of state Relative Growth Index (RGI) standards for bluegill, and small- and largemouth bass, which was extensively discussed. Don Kline (IA) suggested a more general topic, bluegill management, to increase attendance at the summer meeting, an area of concern for some members. Don's purpose in making the recommendation to have a theme was to focus the group. With a theme we then could solicit some presentations, set up a panel to discuss some aspect of the theme, and talk about some type of joint project (collect field data or put together data for RGI). A good agenda would result and hopefully boost the attendance.

Centrarchid research: Ed Braun (IN) related research results of Jerry Sweeten on the impact of suspended sediment on larval centrarchids. Though largemouth bass and bluegill larvae are relatively tolerant of sediment, 14 mm smallmouth bass can't tolerate 50 mg/l for more than several days and 10 mm smallmouth bass can't tolerate any sediment. There was a very high correlation of May-June mean flow in streams and smallmouth catch by year class. These results may account for variable smallmouth bass recruitment in streams with much suspended sediment. Anyone interested in a copy of the 319 grant report or the field

guide being developed should contact Jerry Sweeten at jsweeten@netusa1.net.

NEW BUSINESS:

New officers: Mike McInerney introduced the incoming chair, Ed Braun. Cindy Tomcko agreed to act as secretary-treasurer for a second year.

Don Kline brought up the need to update the name and address database. If it was used as a mailing list it would contact many more than just the chapter representatives. Need to get the word of the meeting in the hands of hundreds of people. (I hope the chapter representatives are forwarding CTC news to their newsletter editors or chapter mailing lists so the CTC doesn't have to maintain a large database-Ed.)

Walleye – by Todd Kolander

2002 Winter Meeting Minutes

Chair Jeff Hendrickson opened the business meeting of the Walleye Technical Committee at approximately 3:40 P.M. on Tuesday, December 3, 2002 with 42 members in attendance.

Minutes from the 2001 winter meeting: Donna Hanen Muhm (IA). Minutes from the 2001 winter meeting were approved as published in the *Mainstream*.

Financial report: Donna Hanen Muhm (IA). The sub-account of the Walleye Technical Committee had a balance of \$5,932.31 on the first of January. The WTC has received two interest payments, one of \$13.75 on January 1, 2002 and one of \$109.04 on July 31, 2002. A total of 126 walleye symposium manuals have been sold to date, providing revenue of \$1260.00. This brings the balance of the account to \$7,315.10 at the beginning of the winter 2002 meeting.

Walleye Management Symposium module publication: Tim Goeman (MN). Tim reported that five hundred copies of the module were printed, and as of this date approximately 160 have been sold. Not all of the revenue has

been transferred to the sub-account, resulting in the disparity between what has been credited to the account and what has been sold. The invoice for printing has not come in, but costs are approximated to be \$1200.00. Since that amount has been recovered in sales, the sale of the remaining 340 copies will be pure profit. Tim also stated that he has copies available for sale at this meeting.

Certificate of Appreciation: Chair Jeff Hendrickson presented Dick McWilliams (IA) with a certificate of appreciation from the Walleye Technical Committee for his fourteen years of service (from 1988 through 2002) as the WTC secretary. A very special thank you to Dick!

Walleye Tournament Synthesis update: Chair Hendrickson reported that this project is nearing completion and is very close to being published.

Walleye Yield Database: Donna Hanen Muhm (IA). Donna reported for the absent Joe Larschied (IA) that he is still working on this project and hopes to report at the summer meeting.

Team Saugeye Project: Chair Hendrickson reported that the project is completed and can be downloaded from the website. Tom Mosher (KS) was not in attendance but is to be thanked for all of his efforts.

WTC Operations Manual update: Dick McWilliams (IA) reports that he emailed out copies earlier in the year for final review and revision, and that he is unsure whether the EXCOM needs to approve it or if the WTC needs to vote on the changes. The revised copy has not yet appeared on the website.

Walleye Synopsis Update: Chair Hendrickson. A lot of ink has been devoted to discussion of this project. To summarize, membership of the WTC decided at the 2001 summer meeting to look into the possibility of updating the UNFAO publication. The goal would be to update the work, incorporating the material with the 1979 publication. Pete Colby and Nick Baccante had been working on synopsis material over the years, but there is still much information and background work to be done. The EXCOM was given the task of determining the copyright status and format of the material. Several

options of achieving the update have been suggested.

Chair Hendrickson reported that the copyright was held by the FAO, but that he still needed to speak to Pete and get permission to use their materials. More discussion ensued which centered on the need for funding. It was suggested that each state donate funds toward the project, with those states deeming this a high priority donating a greater amount. It was also suggested that it be written up as a D-J project and incorporated into a member's workload, but the consensus was that this project would take someone at least two years of constant work to complete. A further suggestion was made that perhaps it could be given to a graduate student. A graduate student would cost an estimated \$30,000 for a two-year project, and it should be kept in mind that there will be printing and binding costs incurred after project completion. It was suggested that Jim Schneider, retired Michigan State University professor would be a good candidate for the job. Jim is not only qualified to write the synopsis, but may be able to write a grant proposal to fund the project.

Chair-elect Banek asked John Pitlo (IA), Steve Newman (WI), and James Breck (MI) to serve on a subcommittee to determine if updating the walleye synopsis is feasible and what approaches are available. The committee will report on available options at the summer 2003 meeting. Peter Colby will be invited to the summer meeting to provide his input on this matter. Steve Newman (WI) will be sending out a member survey to ask members for input about the walleye synopsis, as well as other issues concerning walleye and the WTC.

State/Provincial Representatives:

Chair Hendrickson. The state/provincial list has been updated and is on the website, and was also emailed to the membership. The representatives are entrusted to keep this information updated and on the website by getting in touch with Ron Brooks (IL).

NEW BUSINESS:

2003 Chair/Chair-elect: Chair Hendrickson introduced the incoming Chair Tim Banek (MO). At this time, there is no chair-elect. Any volunteers should contact incoming chair Banek as soon as possible.

Certificate of Appreciation: Chair Banek presented past chair Jeff Hendrickson with a certificate of appreciation for his work as Chair this past year.

2003 Summer Meeting: Chair Banek suggested that the summer meeting be held in Wausau, Wisconsin either immediately before or immediately after the summer Percis III meeting. This meeting will be held in Madison, Wisconsin on July 20 –24, 2003. Steve Gilbert has several ideas for activities for the meeting, including staying at the Stoney Creek Inn. This facility would provide free meeting rooms and is easily accessible. Other possible activities include a float trip down the Wisconsin River, visiting microbreweries, and having a pig roast at an adjacent state park. Room rates at the Stoney Creek Inn are \$62.00 for a double room, with registration set at \$50.00. Wausau is approximately two hours from Madison, Wisconsin. By consensus, it was decided that the 2003 summer meeting will be held in Wausau with exact dates to be determined, but with the intent to mold it around the summer Percis III meeting if possible.

Opinion generation: Scott Gritters (IA). Scott stated that he is the MICRA gamefish chair and is planning to do an opinion generation on sauger much the same as was done on black carp. This will involve anglers and fisheries managers both. He has received EXCOM approval, and will be contacting fisheries chiefs to find a few experts to assist with this project. Some WTC committee members may be asked to assist, as there will be 28 states involved.

Technical Discussions:

Slowly cooked fish: How long can *Stizostedion* specimens remain in gill nets in summer before significant breakdown of diagnostic enzyme loci occurs? Neil Billington (AL).

Discussion topic: Are there any successes or failures of using any length base regulation on managing walleye populations? What has worked and why? Why have so many of these regulations not met the objectives set forth for them and is this the direction we need to pursue for walleye management in the future? Chair Banek suggested that walleye regulations be the main topic for the summer meeting. He further asked that each state/province plan to have a representative come prepared to present what regulations their state/province has implemented and report each regulation's efficacy.

Adjournment: Steve Gilbert made a motion for adjournment that was seconded by John Pitlo. Meeting was adjourned at 4:30 P.M.

Respectfully submitted,
Donna Hanen Muhm
Walleye Technical Committee
Secretary

Ictalurids by Dennis Topp

2002 Meeting Minutes

I. Minutes

A. Chair Greg Pitchford announced that minutes were sent via email and Ictalurids list-serve; in interest of time, asked if any members wanted minutes read? None responded.

B. Motion by John Pitlo to accept minutes, motion passed.

II. Treasurer's report, secretary Jason Vokoun reported

A. The North Central Division's Ictalurid account has \$10,496.63.

B. Most of this money was derived from the Catfish 2000 conference and resulting book sales, The Ictalurid Technical Committee is expected to hold a portion of this money for sponsoring the Second Ictalurid Symposium (Catfish 2010?)

III. Reports from State Representatives (only additional projects/activities not given in the summer electronic meeting are presented here, contact Greg Pitchford to receive the summer 2002 e-mail)

A. Iowa – Dan Kirby

i. Work beginning on culturing flatheads

ii. Possible flathead research project for streams

B. Kansas – John Reinke

i. Nothing new from summer e-mail

C. Nebraska – Mark Porath

i. Inventory of flatheads and blues in reservoirs

ii. Angler survey questions regarding catfish to occur with license sales

iii. Beginning work on state catfish management plan

D. Missouri – Greg Pitchford

i. State Catfish Management Plan well under way

ii. Continued requests from citizens for a legalized hand-fishing season in Missouri

E. North Dakota – Lynn Schlueter

i. Possible Ph.D. project dealing with Red River catfish

ii. Maybe some work on Missouri River catfish (including some flatheads)

IV. New Business

A. Ictalurid Session at Midwest Fish & Wildlife Conference in Kansas City, MO, Dec. 2003

i. Lynn Schlueter and John Reinke to take charge and organize program

1. will actively get commitments from key speakers both Midwest and Southern Division

2. will then contact Midwest fisheries program chair Paul Michaletz (Missouri Dept. Conservation) to pitch the session.

B. Journal Articles Reviewer/Catfish Directory List

i. Brought up that a list of potential ictalurid article reviewers would assist editors in spreading the reviewing duties around, some concern that a limited pool of reviewers is currently being used.

ii. Discussion suggested some members resistant to a list that essentially says these people will review articles if you ask them

iii. Suggested that a directory of Who's Who in catfish projects and management (including southern division) would serve the same purpose without overly obligating people to review papers

1. chair asked for a person to head up such a directory, no response

a. Jason Vokoun said he would help somebody

C. Nominations

i. Chair Greg Pitchford agreed to stay on one more year

ii. Secretary Jason Vokoun agreed to stay on one more year

iii. New bylaws indicate that committee needs a chair-elect

1. Lynn Schlueter nominated as chair-elect, voted into office unanimously

D. Summer Workshop

i. Two topics brought up for summer workshop, Age and Growth methods (especially otoliths), and sampling;

1. age and growth favored, want to include Southern Division

ii. Potential to have workshop in Iowa

1. Tom Boland may be able to set up in Dubuque

2. Also Rathbun Lake may be a suitable site.

iii. Chair Pitchford to contact IA DNR committee members regarding summer workshop (Pitlo, Hanson, Kirby, Kline)

V. Adjournment

Esocids by Rod Pierce

An ETC meeting was held during the December mini-midwest meeting in Iowa. Chairman Dan Isermann (SD) led discussion on several topics. Papers presented at the northern pike symposium in Minneapolis will be published in the North American Journal of Fisheries Management early in 2003. The ETC will try to make a synopsis of management activities by individual states available electronically through the North-central Division web site. Muskies Inc. is sponsoring a muskellunge symposium in Minneapolis during September 2004. AFS members are expected to make many of the presentations. Ongoing work by ETC members includes muskellunge strain studies, a study of hooking mortality using sucker rigs, and oviduct insertion of radio transmitters. The next summer ETC meeting is scheduled for 9-11 July 2003 at Kemp Environmental Station near Woodruff, Wisconsin. The station features a meeting room above a boat house with a beautiful view of Lake Tomahawk, and minimal costs to participants. The theme for the meeting will be: "The Assessment and Evaluation of Esocid Habitat". Persons interested in attending the meeting or giving a talk about their work should contact Dan Isermann at

disermann@hotmail.com or 605.688.4787.

Upcoming Events

Society for Conservation Biology 2003 Meeting

29 June - 2 July, 2003

Duluth, MN

The University of MN Sea Grant Program and Natural Resources Research Institute are sponsoring this meeting.

AFS Annual Meeting

Québec City, Canada,

August 10-14, 2003

Of Interest

MAINSTREAM on the web

MAINSTREAM is now available on the internet. This electronic newsletter is a source for summaries of AFS happenings in NA's heartland, insane editorials, and selected pieces of good humor. At the 2001 Annual Meeting the EXCOM decided to move to electronic distribution of the Mainstream. This purely electronic newsletter can be found at: <http://www.fw.umn.edu/ncdafs/mainstream.html>

New Fisheries Stream in On-line EnviroStats course

We would like to announce a new fisheries stream in the Graduate Certificate in Environmental Statistics on offer at the University of Canberra. The course is offered entirely on-line, with no requirement to attend classes on campus. As such it is of value to those who are remote from a centre of learning or who have difficulty melding their work commitments with formal classes at University.

The Fisheries Stream is a joint initiative of the University of Canberra, the WorldFish Centre (ICLARM), the Australian Centre for

International Agricultural Research (ACIAR) and the Fisheries Research and Development Corporation (FRDC) to meet the needs of fisheries workers in Australia and in the developing countries in which Australia and the WorldFish Centre have an interest. This stream builds capacity in a broad context for researchers in fisheries, and introduces researchers to application of statistical analysis and experimental design in research and resource management. It is not a course in specialized fisheries statistics. It is a general statistics course with a fisheries emphasis in worked examples, exercises and assignments. For further information, you are invited to peruse our web pages starting with <http://aerg.canberra.edu.au/envirostats/fisheries.htm> to determine if the scope of the course is appropriate for you.

On the Underside

Some thoughts.....

Save the whales. Collect the whole set.

A day without sunshine is like, night. On the other hand, you have different fingers.

I just got lost in thought. It was unfamiliar territory.

42.7 percent of all statistics are made up on the spot.

99 percent of lawyers give the rest a bad name.

You have the right to remain silent. Anything you say will be misquoted, then used against you.

I wonder how much deeper the ocean would be without sponges.

Honk if you love peace and quiet.

Remember half the people you know are below average.

Despite the cost of living, have you noticed how popular it remains?

Nothing is foolproof to a talented fool.

Atheism is a non-prophet organization.

He who laughs last thinks slowest.

Depression is merely anger without enthusiasm.

Eagles may soar, but weasels don't get sucked into jet engines.

The early bird may get the worm, but the second mouse gets the cheese.

I drive way too fast to worry about cholesterol.

I intend to live forever - so far so good.

Borrow money from a pessimist - they don't expect it back.

If Barbie is so popular, why do you have to buy her friends?

My mind is like a steel trap - rusty and illegal in 37 states.

Quantum mechanics: The dreams stuff is made of.

The only substitute for good manners is fast reflexes.

Support bacteria - they're the only culture some people have.

When everything's coming your way, you're in the wrong lane and going the wrong way.

If at first you don't succeed, destroy all evidence that you tried.

A conclusion is the place where you got tired of thinking.

Experience is something you don't get until just after you need it.

For every action there is an equal and opposite criticism.

No one is listening until you make a mistake.

Success always occurs in private and failure in full view.

To steal ideas from one person is plagiarism; to steal from many is research.

To succeed in politics, it is often necessary to rise above your principles.

Monday is an awful way to spend 1/7th of your life.

Two wrongs are only the beginning.

The sooner you fall behind the more time you'll have to catch up.

A clear conscience is usually the sign of a bad memory.

Get a new car for your spouse - it'll be a great trade!

Always try to be modest and be proud of it!

If you think nobody cares, try missing a couple of payments.

Love may be blind but marriage is a real eye-opener..

Agenda

All events will take place at the Oak Ridge Conference Center

**1 Oak Ridge Drive
Chaska, Minnesota 55318
Telephone: 952-368-3100**

Monday, March 3rd

3:00 – 7:00 p.m.	Check-in at Hotel – Oak Ridge Conference Center
5:30 – 7:00 p.m.	MNAFS Executive Committee Meeting – Room 304
5:00 – 8:00 p.m.	MNAFS Meeting Registration – Main Lobby
7:00 – 11:00 p.m.	Evening Social with beer, snacks and raffle prizes, Sponsored by MNAFS and The Fond du Lac Band of Lake Superior Chippewa – Room 308

Tuesday, March 4th

7:00 – 12:00 p.m.	Meeting Registration – Main Lobby
7:00 – 8:00 a.m.	Continental Breakfast – 3 rd Floor Beverage Center. Note hot buffet breakfast on first level is not part of package but available for \$10.
8:00 – 10:00 a.m.	Poster set up – Room 308

Plenary Session

08:15 – 08:30 a.m.	Welcome – MNAFS President – Brian Borkholder
08:30 – 09:00 a.m.	Jenny Brown - The Minnesota Chapter of the Nature Conservancy
09:00 – 09:30 a.m.	Gary Botzek - Partner Capitol Connections and former FWLA Lobbyist
09:30 – 10:00 a.m.	Dennis Anderson - Outdoor Writer for Minnesota Star and Tribune
10:00 – 10:20 a.m.	Break - 3rd Floor Beverage Center

Session I - McKnight Room Moderator – Tim Brastrup

10:20 – 10:40 a.m.	Ground Water Modeling in Karst Terrain: Hydrological Flow in Southeast Minnesota - Mary A. Williams and Bruce Vondracek - University of Minnesota
10:40 – 11:00 a.m.	Setting an Effective TMDL for Suspended Sediment – Bruce Vondracek, Julie Zimmerman and John Westra - University of Minnesota and Louisiana State University

Session I - McKnight Room (cont.)

- 11:00 – 11:20 a.m. Influence of Local and Landscape Factors on Instream Habitat and Fish Communities - Raymond M. Newman and Nathaniel A. Hemstad (presenter) – University of Minnesota
- 11:20 – 11:40 p.m. An Overview on the Effects of Riparian Forest Harvest - Eric Merten and Tracy Close, MN DNR Fisheries – Lake City and Duluth
- 11:40 – 12:00 p.m. The MFRC Timber Harvesting/Forest Management Guidelines: Where's the Beef? – Tracy Close – MNDNR Fisheries – Duluth

Session II - McKnight Room
Moderator – Tim Cross

- 10:20 – 10:40 a.m. Status of Fisheries Management in Minnesota's Portion of Lake Superior – Don Schreiner, Ted Halpern and Steve Geving (all presenting) - MNDNR Fisheries – Duluth
- 10:40 – 11:00 a.m. Leech Lake Vegetation Sampling - Pat Rivers and Harlan Fierstine - MNDNR Fisheries - Walker
- 11:00 – 11:20 a.m. Restoration of the Walleye Fisheries of the Red Lakes, Minnesota – Andrew Thompson - MNDNR Fisheries – Bemidji, Pat Brown - Red Lake Band of Chippewa Indians and Don Pereira – MNDNR Fisheries – Metro
- 11:20 – 12:00 p.m. Trophy Northern Pike on Lake of the Woods: What's the BIG Deal? Tom Heinrich - MNDNR Fisheries - Baudette

12:00 – 1:00 p.m. **Lunch in Main Dinning Room**

Session III - McKnight Room
Moderator - Paul Diedrich

- 1:00 – 1:20 p.m. Oviduct Transmitters in Northern Pike – Rod Pierce – MNDNR Fisheries – Grand Rapids
- 1:20 – 1:40 p.m. Dynamics of Pheromone-Based Stream Finding by Migratory Adult Sea Lampreys: A Telemetry Study - Lance A. Vrieze
- 1:40 – 2:00 p.m. Smallmouth Bass Movement and Habitat Use in the Upper Mississippi River, St. Cloud to Coon Rapids – Eric Altena - MNDNR Fisheries - Montrose
- 2:00 – 2:20 p.m. Sturgeon Management on the Kettle River, Based on Radio Telemetry and Tagging – John Frank - MNDNR Fisheries - Hinckley

Session IV – Room 304
Moderator – Jeff Tilma

- 1:00 – 1:20 p.m. Social and Environmental Classification of Trout Streams in Southeastern Minnesota - Jonathan Vlaming – Met Council and David Fulton – University of Minnesota
- 1:20 - 1:40 p.m. Fly vs. Worm: Exploring Differences Between Modes of Angling for Trout Fishers - Jonathan Vlaming – Met Council and David Fulton – University of Minnesota

Session IV – Room 304 (cont)

- 1:40 – 2:00 p.m. Determination of Winter Habitat of Large Brown Trout in Southeast Minnesota Streams Using Radio telemetry - Todd D. Marwitz, William C. Thorn (presenter), and Charles S. Anderson – MNDNR – Fisheries – Lake City and Metro Region
- 2:00 – 2:20 p.m. Seasonal Movements, Habitat Use, and Harvest Rates of Trophy Brown Trout in an Urban Minnesota Stream - Dan A. Wilfond and Jason B. Moeckel - MDNR Fisheries – Metro
- 2:20 – 2:40 p.m. **Break – 3rd Floor Beverage Center**

Session V – Room 304
Moderator – Karl Koller

- 2:40 – 3:00 p.m. Urban Lake Fish Management Efforts – Rick Walsh, Jim Levitt and Mark Nemeth - MNDNR Fisheries - Metro Region
- 3:00 – 3:20 p.m. Loon Lake City Park Shoreline Habitat Restoration – Heather Baird MNDNR Fisheries – Waterville
- 3:20 – 3:30 p.m. DGPS for Less – Joe Ostazeski - MNDNR - Duluth
- 3:30 – 4:30 p.m. Are You Interested in River or Stream Management? This session will focus on re-forming the Rivers and Streams Technical Committee in MNAFS – Room 304 – Karl Koller and Eric Merten

Session VI – Mc Knight Room
Moderator – Tim Goeman

- 2:40 – 3:00 p.m. Community-Level Consequences of Trout Introductions: Investigating Interactions Between Native and Nonnative Species in a Small Coldwater Stream - Julie K. H. Zimmerman and Bruce Vondracek - University of Minnesota
- 3:00 – 3:20 p.m. Age, Growth, Condition, and Mortality Rates of White Suckers in Trout Streams in SE Minnesota - Angela Rohweder and Neal Mundahl (presenter) – Winona State University.
- 3:20 – 3:40 p.m. A Hydroacoustic-GPS System to Quantify and Map Submersed Aquatic Vegetation: Evaluation of Field Sampling and GIS Mapping Techniques - Ray D. Valley and Melissa T. Drake – MNDNR - Metro
- 3:40 - 4:30 p.m. A Conversation on the Need and Use of Various Methods For Analyzing and Interpolating Spatial Data - Michael Duval and Gerold Grant - MNDNR Fisheries-Brainerd, Dan Yule – MNDNR Fisheries Grand Marais, Ray Valley – MNDNR Fisheries – Metro and Tim Cross – MNDNR Fisheries – Hutchinson.
- 4:30 – 6:00 p.m. **MNAFS Annual Business Meeting – McKnight Room**

MNAFS Poster Session with Authors – Room 308

- 6:00 – 7:30 p.m. Electrofishing: An Alternative Tool for Harvesting Walleyes From Rearing Ponds - William L. McKibbin –MNDNR Fisheries – Glenwood, Matthew C. Ward and David W. Willis - South Dakota State University
- Extent of Prey-Fish Consumption by Age-1 and Older Walleyes Stocked in Minnesota Wetlands - Matthew C. Ward, David W. Willis, Mark A. Hanson, Brian R. Herwig – South Dakota State University, Bradford G. Parsons and Jeffrey R. Reed and MNDNR Fisheries - Glenwood
- Fish Community Responses to the Establishment of a Piscivore, Northern Pike *Esox lucius*, in a Nebraska Sandhill Lake - Timothy J. DeBates, Craig P. Paukert, and David W. Willis - South Dakota State University
- Species Interactions and Sedimentation Effects on Two Trout Species in Valley Creek - Nicholas Altringer, Julie K. H. Zimmerman, and Bruce Vondracek – University of Minnesota
- 6:00 – 7:30 p.m. Informal Pre-Banquet Social and Raffle (With Beer Leftover from the Social) – Room 308
- 7:30 – 9:00 p.m. **Banquet – Main Dining Hall – Guest Speaker – Dr Mitch Kusy – Work at the Intersection of 4 Generations: *Collide or Collaborate?***
- 9:00 – 11:00 p.m. **Informal Post-Banquet Social and Raffle – Room 308**

Wednesday March 5th

- 07:00 – 8:00 a.m. Continental Breakfast – 3rd Floor Beverage Center.

Session VII - McKnight Room**Moderator – Jeff Reed**

- 08:10 – 08:30 a.m. A Population and Angler Use Assessment of Muskellunge in Shoepack Lake, Voyageurs National Park, Minnesota – Nick Frohnauer, Clay L. Pierce, Larry Kallemeyn and James Schaberl – Iowa State University, U.S. Geological Survey and Voyageurs National Park
- 08:30 – 08:50 a.m. Population Trends During 14 Years of Catch-and-Release-Only Fishing for Largemouth Bass and Northern Pike in Steiger Lake, Carver County, Minnesota - Brian Nerbonne and Taylor Polomis – MNDNR Fisheries – Metro West.
- 08:50 – 09:10 a.m. Circle Hooks; the Solution to Walleye Hooking Mortality?– Tom Jones - MNDNR Fisheries – Aitkin
- 09:10 – 09:30 a.m. Red River Sturgeon Recovery Plan – Mike Larson - MNDNR Fisheries - Baudette

Session VIII – Room 304
Moderator – David Anderson

- 08:10 – 08:30 a.m. Natural Hybridization and Its Effects on Growth Rates in Black and White Crappies - Loren Miller and Jason Roloff– University of Minnesota, Mike McInerney - MNDNR Fisheries – Hutchinson James Thomas – Breck School
- 08:30 – 08:50 a.m. Factors Affecting Catchability of Black Crappies in Trap Nets – Mike McInerney and Tim Cross – MNDNR Fisheries – Hutchinson
- 08:50 – 09:10 a.m. Influences of Hatchery Practices on the Preservation of Genetic Diversity in Lake Trout Hatchery Broodstocks Used For Restoration Efforts in the Upper Great Lakes – Kevin Page – MNDNR Fisheries Brainerd
- 09:10 – 09:30 a.m. Relative Binding Affinity of Endocrine Disrupting Chemicals to Estrogen Receptor in Two Species of Freshwater Fish. Jeff S Denny and T R Henry - US EPA - Mid-Continent Ecology Division and Experimental Toxicology Division – Duluth
- 09:30 – 10:00 a.m. **Break 3rd Floor Beverage Center**

Session IX – McKnight Room
Moderator – Bruce Vondracek

- 10:00 – 10:20 a.m. Food Habits and Growth of Walleyes Stocked as Fry Into Minnesota Wetlands - Matthew C. Ward, David W. Willis, Mark A. Hanson, Brian R. Herwig - South Dakota State University and Bradford G. Parsons and Jeffrey R. Reed – MNDNR Fisheries - Glenwood
- 10:20 – 10:40 a.m. Factors Affecting Production of Walleye Fingerlings in Natural Ponds – Peter C Jacobsen – MNDNR Fisheries – Detroit Lakes
- 10:40 – 11:00 a.m. Comparison of Aging Structures From Walleye at Mille Lacs and Ann Lakes, Minnesota - Richard E. Bruesewitz and Tom Jones – MNDNR Fisheries - Aitkin and Brian Borkholder - Fond du Lac Band of Lake Superior Chippewa
- 11:00 – 11:20 a.m. A Comparison of Statistical Procedures for Examining the Influence of Population-Specific Variation on Age Estimates - John H. Hoxmeier – MNDNR Fisheries - Lake City, D. Derek Aday - The Ohio State University and David H. Wahl - Illinois Natural History Survey
- 11:20 – 12:00 p.m. Best paper and poster awards, Poster teardown – Mc Knight Room/Room 308
- 12:00 p.m. *Adjourn – Drive home safely and see you next year!*

Registration Form

Minnesota Chapter of the American Fisheries Society Annual Meeting
March 3rd-5th, 2003 Oak Ridge Convention Center, Chaska

Name: _____

Address: _____

Phone Number: _____ E-mail Address: _____

MEETING REGISTRATION FEES

Meeting Pre-Registration (before 2/10/03): \$65 _____

Meeting Registration (after 2/10/03) \$75 _____

MNAFS Chapter Dues \$7 _____

Banquet \$25 _____

Total Enclosed _____

Please mail this form to:

Donna Dustin MNAFS Treasurer
14583 County Highway 19
Detroit Lakes MN 56501

HOTEL INFORMATION

Hotel rooms are \$90 per night, double occupancy. Reservations due by February 1, 2003.

For Hotel reservations: e-mail John Hiebert at: john.hiebert@dnr.state.mn.us

Please state in the e-mail who will be staying in the room and your smoking preference.

Remember you will pay for your room at the conference but you send your hotel reservations to John Hiebert

Candidate Bios

President-Elect: Loren Miller

I have always been interested in outdoor activities, especially hunting and fishing, but in my high school days I always heard that there were few jobs and lousy pay (sound familiar?). So I went into general biology and picked up some experience in genetics, but ended up working in a quality control lab for a few years. When I started looking at graduate school programs I found that I could combine genetics and fisheries working with Anne Kapuscinski at UMN. This led to a Master's studying genetic selection by fisheries and a Ph.D. studying loss of genetic variation within fish populations. I then wandered in the world of swine genetics for a couple of years before returning home to fish. I am now a Research Associate in the Department of Fisheries, Wildlife and Conservation Biology at the University of Minnesota where I supervise Dr. Kapuscinski's AquaGen molecular genetics laboratory. I work closely with, and am partially funded by, the MN DNR and have participated in regional, national, and international workshops related to application of genetic principles and techniques to fisheries management and conservation. I have been a MN chapter and parent society member of AFS since starting graduate school in 1989. I was one of the first student representatives to ExCom, served as the academic rep, and am currently the editor of RYBA. I have also served as the chair of the Midwest Division Genetics and Biodiversity Technical Committee.

As chapter President Elect/President, I want to enhance the visibility of our profession in the state. In these lean budgetary times, people need to know that fisheries (and broader natural resources) management and research is "good government." This is not the advocacy debate - whether or not we as scientists should promote a position on a certain natural resource debate. I'm talking about increasing the understanding that fisheries management (by agencies, academics, civic groups) is a good and necessary use of public money and that healthy ecosystems and fisheries are good for all people (economics, health, aesthetics). Lobbying at the legislature may be part of this, but it's not the focus I envision. Instead, we should increase the visibility of our profession by increased participation at science fairs and county and state fairs, by attending public meetings as representatives of the chapter rather than our workplace, and by increased contributions to media outlets. We should also increase our contacts with state and local public officials and private groups so that they come to us for information about aquatic/fisheries issues. We do a good job developing fisheries professionals and should maintain our strong efforts in continuing education and recruitment and involvement of students and non-member fisheries professionals. We need to also develop and promote the profession.

DNR Excom

David Anderson

I joined the MN AFS in 1996 as a graduate student at the University of Minnesota. After receiving a degree in fisheries, I began working for the MN DNR at the Montrose Area office in 1998. Recently I have taken over for Wansuk Senanan as the webmaster for our Chapter. I would be happy to serve as the DNR representative on the EXCOM, as well.

Eric Merten

After completing my M.S. from the University of Minnesota I spent a half-year as a temp guy with the Iowa DNR. My Minnesota career began in 1999 when I was hired as a Specialist for the Grand Rapids office. In 2001 I traded walleye controversies for trout controversies when I transferred to the Lake City office. I'm interested in taking what I've learned from those experiences and contributing to AFS.

2001-2002 Minnesota Chapter of the American Fisheries Society

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Internet: Minnesota Chapter, www.fw.umn.edu/mnafas; 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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