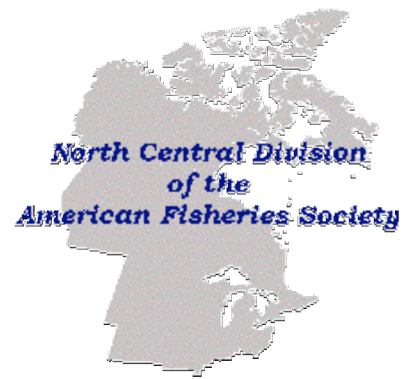


Mainstream

Fall 2002, Volume 19(2)

Dakota - Illinois - Indiana - Iowa - Kansas - Michigan - Mid-Canada -
Minnesota - Missouri - Nebraska - Northwestern Ontario - Ohio -
Southern Ontario – Wisconsin



President's Message

By Chris Guy

As many of you are aware, the Midwest Fish and Wildlife Conference was cancelled this year. It is during the Midwest Fish and Wildlife Conference that most of the business for the North Central Division (NCD) of the American Fisheries Society (AFS) occurs. Thus, the NCD governing board and technical committees decided to undertake the task of hosting a Midwest Fisheries Conference. Hosting the meeting will be the major focus of the NCD governing board and its members; for example, immediate past president Tim Goeman is the registration chair, Tom Boland is arrangements chair, Randy Schultz is program chair, and I am conference chair. As of this President's Message we only had 32 papers submitted for presentation at the meeting. We need at least 40 papers to have a successful meeting. If we don't get enough participation we will likely have to cancel the meeting. I encourage you to present technical papers or reports (like you would at your technical committee meetings) so that this meeting can be successful. Please send your abstracts to Randy Schultz at randys@wp.state.ks.us. If you ever had a doubt about what AFS can do for you, look no further. Members of the NCD understand the importance of sharing information among peers and when that opportunity was going to be lost the NCD stepped in to make sure that didn't happen. It is these types of unselfish efforts that make our profession and society a great atmosphere for fisheries professionals.

Hosting the Midwest Fisheries Conference meets

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Quote of the Issue:

"Human beings are the only creatures who are able to behave irrationally in the name of reason." Ashley Montagu, Anthropologist.

This newsletter is published twice a year. Deadlines for submission are April and September 1st. The views and opinions expressed herein are not necessarily those of the NCD.

From the website:

<http://www.fw.umn.edu/ncdafs>

Editor: Paul Radomski

**Please Vote (see pages 19-23)
Details on the Midwest
Fisheries Conference can be
found at the back of this
newsletter! DEADLINE FOR
'CALL FOR PAPERS' – SEPT 15,
REGISTRATION DEADLINE –
OCT 15)**

one of my objectives within my Plan of Work for 2002-2003 and AFS Strategic Plan MS2-Science-Based Information. I have outlined my 2002-2003 Plan of Work for AFS President Fred Harris and the NCD Governing Board. Below is my proposed 2002-2003 Plan of Work and encourage anyone to contact me regarding the plan.

2002-2003 Plan of Work North Central Division, American Fisheries Society

Membership services: AFS will provide excellent, cost-efficient services, operations and support for its members.

1. The North Central Division will host the Midwest Fisheries Conference. The Midwest Fisheries Conference will be held instead of the Midwest Fish and Wildlife Conference. The Midwest Fisheries Conference is a onetime event due to the absence of a Midwest Fish and Wildlife Conference in 2002. The Midwest Fish and Wildlife Conference will be back on schedule in 2003 and held in Kansas City, Missouri. *(Meets AFS Strategic Plan Subgoal MS 2–Science-based information)*
2. The North Central Division will continue the electronic publication of the Mainstream. Develop a list serve of NCD members so they can be notified of a new Mainstream via electronic mail. *(Meets AFS Strategic Plan Subgoal MS 3–Electronic Services and ITO 4–Electronic Information Network)*
3. The North Central Division will confirm the number of members in its Chapters that are not Parent Society members. This will assist the NCD and Parent Society in developing a plan to increase the membership of the AFS. *(Meets AFS Strategic Plan Subgoal MS 1–Professional Development and Subgoal MS 4–Diversity)*
4. The North Central Division will support the Junior Fisheries Biologist Program a budget item for 2002-2003. *(Meets AFS Strategic Plan Subgoal MS 4–Diversity)*
5. The North Central Division will continue to offer a matching travel grant to each Chapter supporting student travel to the Midwest Fisheries Conference. *(Meets AFS Strategic Plan Subgoal MS 1–Professional Development and Subgoal MS 4–Diversity)*

Information Transfer and Outreach: AFS and its members will be recognized by decision makers and natural resource professionals as an important source of science-based information about fisheries and aquatic ecosystems and their conservation, management, and sustainable development.

1. The North Central Division will assist its technical committees with publishing articles in scientific journals and developing posters promoting aquatic stewardship. *(Meets AFS Strategic Plan Subgoal ITO 2–Visibility)*

Aquatic Stewardship: AFS and its members will be leaders in promoting the sustainability and sound stewardship of fisheries resources and aquatic ecosystems.

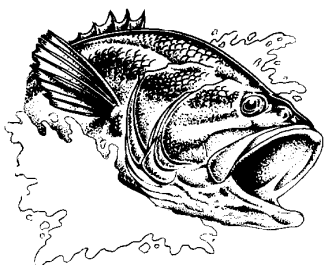
1. The North Central Division will support (in kind and monetarily) the 4th World Fisheries Congress which will be held in Vancouver, British Columbia in 2004, a new budget item for 2002-2003. *(Meets AFS Strategic Plan Subgoal AS 3–Local and Global Leadership and Subgoal MS 2–Science-based information)*
2. The North Central Division will support the development and implementation of the North American Fisheries Plan. *(Meets AFS Strategic Plan Subgoal AS 3–Local and Global Leadership)*

The Society is involved in a number of exciting projects. For example, the Hutton Junior Fisheries Biologist Program is gaining momentum and is a wonderful example of AFS trying to increase diversity and recruitment within the fisheries profession. The program is designed to educate minority high school students about the fisheries profession. The NCD will again support this program with a monetary contribution and I encourage all NCD units to support this program. The Society has been working on a project called InfoBase over the last year. The purpose of InfoBase is to put all the past issues of the AFS journals online. They now have the past 10 years online and will begin putting additional years online as funds are available. If you have an online subscription you will be able to search all issues of any AFS journal and print the article at your fingertips. The publications department in AFS has been active. Over the past year AFS has published 15 books. Executive Director Gus Rassam is committed to make AFS the premier publisher of fisheries literature. Maintaining members within AFS is becoming very important. Some recent information shows that AFS loses most of its members between the student and professional years. That is, when a student gets a job they often let their membership lapse, likely a function of their financial situation. The Society is trying to address this retention problem with a new category in the list of membership classifications. The Society now offers a Young Professional membership at the same rate (\$38) as the Student membership. I would like to see a similar program established to get more members of Chapters signed up as Parent Society members. These are only a few examples of what the Society is doing to help fisheries professionals and the resource. It is probably the most exciting time to be involved in the AFS. Executive Director Gus Rassam and the staff in Bethesda are doing an outstanding job. If you want to be involved in the NCD please give me a call or e-mail me—I assure you it will be rewarding!



Finally, I want to thank Tim Goeman, immediate past president of the NCD, for all his hard work and dedication to the NCD and AFS. Tim Goeman, Steve Fischer, Don Kline and I will work hard to make sure the NCD is progressive and moves the profession forward for the benefit of us and the fish.

Committee Reports



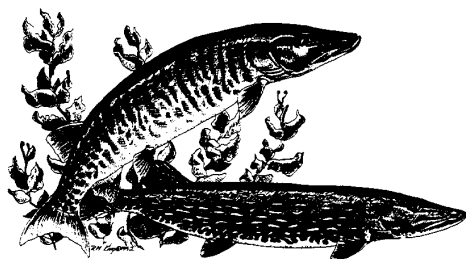
Centrarchid Technical Committee

by Mike McInerny (MN)

News on the activities of the Centrarchid Technical Committee is rather limited because, like other tech committees, we cancelled our 2002 summer meeting in lieu of the Midwest Fisheries Conference. Thus, we will have our formal business meeting at the Midwest Fisheries Conference. Topics will include but not necessarily limited to updates of state and provincial research and management of centrarchids, discussion on habitat protection or enhancement, and determining a theme for the 2003 summer meeting.

We have also conducted some business via electronic communications. Presently, Craig Paukert (formerly from SD, now in AZ), Randy Schultz (KS), and I are developing a questionnaire so that we can document the history of regulations on black basses in North America. We also have discussed comparing regulations on sunfishes and crappies in North America. Each project is in the development stage, so no preliminary findings are available. Other news includes the following. It appears that several papers presented at the Lepomis symposium will be published together in an upcoming issue of the North American Journal of Fisheries Management. Please contact Steve Fischer (MO) for the latest details. Ed Braun (IN) will take over the chairpersonship when the Midwest Fisheries Conference meeting is held. Centrarchids are very popular among Indiana anglers, so Ed's perspective will be valuable. Finally, the 2003 summer meeting will be held on July 29 and 30 at Wyalusing State Park, just south of Prairie Du Chien, WI.





Esocid Technical Committee

by Daniel Isermann (SD)

Interested persons should contact ETC chair Daniel Isermann, disermann@hotmail.com or 605.688.6121.

Genetics and Biodiversity Technical Committee

By Loren Miller (MN)

Brian Sloss (WI) recently accepted the chair position for the Genetics and Biodiversity Technical Committee. Brian recently began work at the Wisconsin Cooperative Fishery Unit as a conservation geneticist. He received his Ph.D. in fish genetics from Southern Illinois University in 2001 working for Brooks Burr and Neil Billington. His research interests range from phylogenetics to molecular ecology and basically all points in between. He hopes to re-energize the committee and start new activities soon.



Rivers and Streams Technical Committee

ANNUAL SPRING MEETING

MARCH 19 & 20, 2002

ROCK ISLAND CONSERVATION CLUB, ROCK ISLAND, ILLINOIS

Stream Classification Workgroup Update

Summary: The Stream Classification Workgroup was formed during the 2001 RSTC spring meeting to help coordinate stream classification efforts in the North Central Division. Individuals from many of the classification efforts have been discussing and sharing ideas for many years. However, the last opportunity to discuss stream classification with researchers representing several jurisdictions was held in December, 1999 at the Midwest Fish and Wildlife Conference in Chicago. As additional jurisdictions begin stream classification and aquatic GAP initiatives, we need a forum to discuss issues, collaborate, and standardize efforts. Members of the Stream Classification

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Workgroup feel strongly that this group should meet annually, perhaps in conjunction with the Midwest Fish and Wildlife Conference. Plans for a meeting in conjunction with the 2002 Midwest Fisheries meeting are underway.

Update by State:

Wisconsin

Purpose: The overall objective of this effort is to classify streams in Wisconsin and to develop/modify models that can predict stream water temperature, base flow, and biological communities using landscape and stream segment features. The products of this project will be used for allocating monitoring efforts, assessing stream status and developing biocriteria, and assessing realization of management goals. Although eventually this project may work with the USGS aquatic GAP program, at present time it is entirely funded by the state program.

Status: We have collected nearly 200 stream sites on flow discharge, water temperature, physical habitat, and fish community. The watersheds boundaries of these streams have been delineated and the landscape features within the watersheds have also been clipped out from the needed GIS layers for the model development. We are creating a statewide coldwater stream map, which will be used to test our temperature models. We are on the final stage of completing the DARCY map for Wisconsin with the help from the Michigan group. We will start stream segment classification and model development before July 2002.



Personnel: John Lyons and Li Wang (main contact person, 608.221.6335) are the persons working on the stream classification related projects. One seasonal GIS assistant is also assigned to this project.

Time Frame: Stream segment classification (TNC already has an early version of segment classification map for Wisconsin) and model development will be completed by the end of June, 2003. Stream current biological status classification, biological potential classification, biocriteria, and other final products will be completed by the end of 2005.

Missouri

Purpose: We've been working with staff from The Nature Conservancy's Freshwater Initiative (FI's) over the last five years developing a hierarchical ecological classification framework for riverine ecosystems. The result is an 8-level hierarchy which ultimately places each individual stream segment into a global ecological context. The first 6 levels of the hierarchy are essentially watershed-based units and in level 7 we jump into the "linear dimension" where valley segment types are defined and mapped. The final level of the hierarchy: habitat units, are simply too small and dynamic to map within a GIS but it is still important to recognize this level of stratification in any stream classification hierarchy. There are a few differences between our methods (MO Aquatic GAP Pilot Project) and those of the FI. We use the 1:100,000 NHD as our base layer and have

Mainstream.....page 7

modified or developed new processing tools for efficiently classifying valley segments using the NHD. We also incorporate biological data into the classification process.

Status: We have completed MO and are now working with IA, KS, NE, and SD to classify the entire MO River Basin. Several other states, like OH, ME, and FL are also using our methods to classify streams in their respective states. We have provided training to 16 states in all. The MO Dept. of Natural Resources has recently proposed using our classification for the development and enforcement of biological criteria in the state.

Personnel: Scott Sowa (573-441-2791, scott_sowa@usgs.gov) and Gust Annis (573-441-2792, gust_annis@usgs.gov) are the two lead investigators for developing the classification units in MO and the MO River Basin.

Time Frame: We anticipate completing the MO River basin in 2004 or 2005.

Michigan

Purpose: In Michigan, we are continuing work on our valley segment ecological classification system (VSEC). This is a joint effort between researchers from MDNR Fisheries Division and The University of Michigan, School of Natural Resources and Environment. The main purposes of the classification effort are directed at fisheries management applications but is also being used for a number of research projects. Uses of the system include stratification for sampling (especially for long term monitoring) and for data summarization and communication. We are in the process of working with the Michigan Department of Environmental Quality on ways in which they can use the VSEC system for their biomonitoring program. We have recently been involved in discussions with USGS regarding use of the VSEC system for aquatic gap in Michigan. Work on the GAP project will begin soon.



Status: To date, we have delineated Valley Segments for all streams in Michigan (both upper and lower peninsula) except in the smallest tributaries on the 1:100:000 RF3 hydrography layer. We have also built data tables with estimated attributes (hydrology, temperature, chemistry, slope, fish data) for each valley segment. Our current work is focusing on updating existing attribute tables with survey data (actual field measures of temperature, fish etc) and validating valley segments using these data. We are also incorporating feedback from our field biologists regarding the accuracy/utility of delineated segments. Additional work includes transferring the VSEC system to the new National Hydrography Data layer (NHD) at 1:100000 scale.

Personnel: The staff involved include: Kevin Wehrly (734.663.3554, ext 120) and Paul Seelbach (MDNR) and Mike Wiley (U of M).

Time Frame: Data should be transferred to NHD within the year, and the validation process probably will take another year.

Illinois

Purpose: The main objective of Illinois' effort is to develop an ecological classification system that provides an intermediate spatial framework between large geographic areas and stream sites. The intended uses of the classification include:

Site selection - Stream classification system will help biologists insure that monitoring stations address the variability of stream types in a river basin.

Stream restoration - By relating the success of BMPs in varying stream types, it is expected that stream conditions appropriate for these practices can be identified.

Coordination among planning groups statewide - Given a specific type of stream, a statewide classification of streams would allow the knowledge and experience learned from a planning effort in one stream to be applied to other streams in the state.

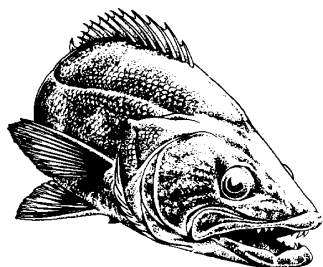
Illinois' project is jointly funded by the Illinois Department of Natural Resources and the Illinois Environmental Protection Agency. Eventually this project may lead to work with the USGS aquatic GAP program.

Status: In preparation for defining valley segments, we began generating attributes for stream segments in the 1:100,000 RF3 hydrography layer. Initial attributes include: upstream and downstream connectivity, and stream gradient and elevation. Before progressing further, we are changing our streams base layer from RF3 to the new 1:100,000 National Hydrography Data layer (NHD). In early April, we plan to train with Scott Sowa and acquire Missouri's automated processing tools for efficiently classifying valley segments using the NHD. Recently, we met with a member of the Illinois State Water Survey to discuss flow duration curves and appropriate ways of attributing hydrologic patterns. Additionally, members of the Illinois State Geological Survey are helping us apply Michigan's DARCY model to Illinois.



Personnel: Ann Holtrop (217.785.4325, ahogan@dnrmil.state.il.us) and Chad Dolan (217.557.1406, cdolan@dnrmil.state.il.us) are the lead investigators on the project.

Time Frame: A preliminary classification will be completed by February 2003.



Walleye Technical Committee

Walleye Management in North America, A Special Reprint from the North American Journal of Fisheries Management (22:973-1075)

This collection of 10 papers presented at the 2000 Midwest Fish & Wildlife Conference Walleye Management Symposium presents the latest information on the art and science of walleye management on the continent. This symposium, sponsored by the Walleye Technical Committee of the North Central Division of the American Fisheries Society, provided a follow-up forum to the 1990 symposium on walleye stocks and stocking. Topics addressed by the authors in this volume include the latest stocking evaluation techniques, environmental factors and their effects on walleye populations, advances in the use of length-based regulations for managing walleye fisheries, and the community effects of walleye stocking in north-temperate lakes.



Bound copies of this special reprint are available from the North Central Division of the American Fisheries Society for \$10 each (shipping and handling included). Supplies are limited.

Please send your order request(s) to:

Tim Goeman

DNR Regional Fisheries

or: tim.goeman@dnr.state.mn.us

1201 East Highway 2

Grand Rapids, MN 55744

Please make checks payable to: NCD-AFS (Federal Tax ID 54-0683803)

Public agencies and academic institutions can be invoiced.

Contents:

Goeman, T.J. Introduction to walleye management in North America.

Stone, C., and J. Lott. Use of a minimum length limit to manage walleye in a large Missouri River impoundment.

Lucchesi, D.O. Evaluating the contribution of stocked walleye fry and fingerlings to South Dakota populations through mass marking with oxytetracycline.

Brooks, R.C., R.C. Heidinger, R.J.H. Hoxmeier, and D. H. Wahl. Relative survival of three sizes of walleye stocked into Illinois lakes.

Mitzner, L. Walleye fry and fingerling stocking assessment at Rathbun Lake, Iowa, 1984-1999.

Schupp, D.H. What does Mt. Pinatubo have to do with walleyes?

Pitlo, J., Jr. Environmental factors affecting walleye and sauger reproduction in Pool 13, Upper Mississippi River.

Fielder, D.G. Sources of walleye recruitment in Saginaw Bay, Lake Huron.

Schneider, J.C. and R.N. Lockwood. Use of walleye stocking, antimycin treatments, and catch-and-release regulations to improve stunted bluegill lakes.

Sullivan, M. The illegal sport harvest of walleyes protected by size limits in Alberta.

Munger, C.R. 35 years of walleye management in Texas with emphasis on Meredith Reservoir.

Ictalurid Technical Committee

by Greg Pitchford

The NCD Ictalurid Technical Committee completed their first "electronic" summer meeting. The meeting consisted of reports from chapter representatives. Five state representatives reported on catfish management and research activities in their state. Topics included information on madtom monitoring, feeding channel catfish in small impoundments and movement and habitat use of stream dwelling catfish. Email addresses are included for each of the project contacts. The meeting summary can be obtained by going to the NCD website or contacting Greg Pitchford at pitchg@mail.conservation.state.mo.us.



The next meeting will be December 3rd in association with the Midwest Fisheries Conference in Bettendorf, Iowa. Meeting topics will include planning an Ictalurid session at the 2003 Midwest Conference in Kansas City and cooperating with other divisions to create a directory of people working with catfish.



Upcoming Events

Oct 7-8, 2002. WETLANDS 2002 SYMPOSIUM. IDEM, along with the EPA and the Association of State wetland Managers, is hosting a national symposium called Wetlands 2002, October 7 - 9 at the Westin Hotel, in Indianapolis, Indiana. The draft agenda of presentations is very diverse from actual wetland plant and animal species to wetland mitigation banking. The early registration deadline has passed (August 1). The registration fee is \$250 per person. More information about the symposium can be found at:

<http://www.Core4.org/wetlands>

Oct 16-18, 2002. State of the Lakes Ecosystem Conference, Cleveland, OH. See <http://www.binational.net> . Contact Forst.Christina@epa.gov , 312.886.7472.

Illinois Water 2002 November 6-7, 2002

The biennial conference addressing water issues in Illinois: Chancellor Hotel and Convention Center in Champaign, Illinois. Illinois Water 2002 is designed to engage all citizens and groups interested in water resource issues in Illinois. Attention will focus on science, technology, and policy development, while also bringing major water resource organizations and interests together under one roof to explore common ground.

**Midwest Fisheries Conference
Bettendorf, Iowa
December 3-5, 2002**

Meeting Announcement–Mark Your Calendars!

Due to the cancellation of the 2002 Midwest Fish and Wildlife Conference, the American Fisheries Society (AFS) – North Central Division (NCD) will be sponsoring a Midwest Fisheries Conference in December

Place: Isle of Capri Hotel
1777 Isle Parkway
Bettendorf, Iowa
1-800-724-5825

Web: <http://www.fw.umn.edu/ncdafs>

Contact: Chris Guy, chrisgy@ksu.edu or 785.532.6634

Registration: There will be NO onsite registration. Participation will be limited to the first 400 registrants. A registration form is at the back of this issue.

Program: The conference will begin on December 3 with mid-afternoon AFS-NCD Technical Committee meetings followed by a social. Concurrent technical presentations are being planned on December 4 and 5 (approximately 81 platform presentations and 12 poster papers), with the conference adjourning by noon on Thursday. The AFS-NCD business meeting will be held late afternoon on December 5. All this, plus social arrangements featuring the best of Iowa hospitality, all at a modest price. Plan to attend.

May 2–4, 2003. International Marine Aquarium Conference, Chicago, IL. See <http://www.theimac.org/> .Contact Dennis Gallagher, dennis2103@attbi.com , 847.882.0522.

**Percis III
The Third International Percid Fish Symposium
July 20-24, 2003
Madison, WI USA**

We invite you to attend Percis III -The Third International Percid Fish Symposium, to be held in Madison, Wisconsin, USA on July 20-24, 2003. The scientific program will include symposia on many aspects of the biology, management and aquaculture of percid fishes. A call for abstracts will be sent by email and regular mail in November, 2002. The abstract deadline will be February 1, 2003. Additional information is available at: <http://www.seagrants.wisc.edu/percis>

Aug 10–14, 200. AFS 133rd Annual Meeting, Quebec City, Quebec, Canada. Contact Betsy Fritz, bfritz@fisheries.org , 301.897.8616 x212.

**4th World Fisheries Congress
May 2-6, 2004
Vancouver, British Columbia**

The Theme of the 4th Congress is: "Reconciling Fisheries with Conservation: The Challenge of Managing Aquatic Ecosystems"

An international array of prestigious fisheries scientists will be giving keynote addresses, and chairing program sessions. In addition, the program contains over 40 sessions that address the most pressing issues in fisheries management in both freshwater and marine ecosystems, along with a special forum for interested industry representatives and non-governmental organizations. The details of the program and venue are provided as they become available on the web page (<http://www.worldfisheries2004.org>).

An expression of interest form is included on the web page to ensure you are kept current on all future announcements. We will periodically provide you with an update notice concerning any news and pertinent deadlines related to the Congress.

We will also be calling on all of the Chapters, Sections, and Divisions of the American Fisheries Society to ask assistance in putting on the Congress to ensure the international family of fisheries professionals that visit North America will experience a World Class event. This event will likely be an once-in-a-lifetime event for most of us, so please put these dates on your calendar and make plans to attend now. Contact fish2004@advance-group.com , 1.800.555.1099.

Aug 21–26, 2004. AFS 134th Annual Meeting, Madison, WI. Contact Betsy Fritz, bfritz@fisheries.org , 301.897.8616 x212

Other Fisheries Events:

A good source of these happenings can be found at: <http://www.fisheries.org/Calendar.shtml>

Chapter Reports

Kansas Chapter by Robert Friggeri

The 27th annual meeting of the Kansas Chapter of the American Fisheries Society was held at the Great Plains Nature Center in Wichita, Kansas on February 22-23, 2002. Ten oral and six poster presentations were given at the meeting. Mike Quist was selected to

receive the Best Paper Award for his presentation, "Spatial and Temporal Variation in Ichthyoplankton from Glen Elder Reservoir". Mike Quist was also selected to receive the Best Poster award for his poster, "Seasonal Variation in Condition, Growth, and Food Habits of Walleyes in a Great Plains Reservoir and Simulated Effects on an Altered Thermal Regime". A Certificate of Appreciation was presented to Mike Quist in recognition of personal contributions to the advancement and improvement of fisheries science in the professional and public interest by serving as Fund Raising Committee Chairman for the period of February 1997 to February 2002. Congratulations to Mike for his outstanding work and achievements.

Ohio Chapter by John Navarro

The Ohio Chapter held their annual summer meeting up on Lake Erie on August 30th. The main focus of this meeting was a discussion of the 1998-2003 OCAFS Strategic Plan. We decided to use the 1999-2004 AFS Strategic Plan as a guide for developing and implementing a 2002-2004 OCAFS Operational Plan. This approach will allow us to focus on a few key strategies in the OCAFS 1998-2002 OCAFS Strategic Plan that were not fully addressed, and develop a new OCAFS Strategic Plan for 2005 and beyond that would be aligned with the next AFS Strategic Plan. The two goals of the 2002-2004 Operational Plan will be Information/Outreach and Member Services. The meeting concluded with a tour of Castalia State Fish Hatchery.

Wisconsin Chapter by Steve Gilbert

This year our annual chapter meeting was held in January and the meeting featured a forum titled: The Politics and Biology of Nuisance Aquatic Species in Wisconsin. The highlight of the meeting was a panel discussion on nuisance aquatic species. Panel members included: Lieutenant Governor, Margaret Farrow; Dr. Myron Kibus, Wisconsin Dept. of Ag.; David Gollon, President WI. Aquaculture Assc; Donna Sefton, Dir. WI Association of Lakes; and Ronald Martin, WDNR Bureau of Watershed Management. Each provided their views on this important issue and discussed questions from the audience.

Our award-winning newsletter is now shipped to our membership electronically via the internet. This has dramatically cut our newsletter production and shipping costs. This allows anyone who visits our chapter website at www.fisheries.org/wiafs to read current and past newsletters.



This summer we sent a delegation to the national meeting in Baltimore to see first hand what it takes to host a meeting of this size. This meeting will be held in Madison, Wisconsin in 2004, and we will be the host chapter. The folks in Maryland did a great job hosting the meeting this year and they were very helpful in sharing information with our group. We hope everyone is looking forward to joining us in 2004 in Madtown.



Contributions

Midwest Student Conclave from Steve Fischer (MO)

Attention all fisheries students and potential fisheries students throughout the North Central Division. Are you interested in participating in a future Student Conclave? Interested in meeting students from other universities throughout the North Central Division? Looking for a chance to present your data, preliminary results, final results, or project designs? Here is your chance!

One of my plans as NCD First VP is to develop such a Student Conclave within the NCD. What I envision is arrival on a Friday afternoon, sessions / presentations on Sat, and depart on Sunday. Obviously I can't do it without some input from you! I would be most appreciative if you would take a few minutes and reply to the following questions:

- 1 - are you interested in participating in a NCD Student Conclave: Y/N
- 2 - if NO ... why not?
- 3 - If YES, when is the best time of year to hold such a function? a) Fall semester (late Sept/early Oct); b) part of Midwest Fish & Wildlife Conference (early December); c) mid-winter; or d) spring (April?).
- 4 - would you be willing to serve on a committee for the meeting?
- 5 - what is a good place to hold such a meeting? Wisconsin is the most central location (Wyalusing State Park in Prairie Du Chien is one possible option).
- 6 - what else would you like included on the agenda?

Please feel free to contact me at 573.882.9880, ext 3271 or fischsa@mail.conservations.state.mo.us . Thanks!

NCD Awards – Call for Nominations from Steve Fischer (MO)

The North Central Division of the American Fisheries Society is soliciting nominees for the three awards given annually. These awards are the Most Active Chapter Award, the Meritorious Service Award, and the Fisheries Excellence Award. All three are fully described below. Nomination forms to be completed for each award are available in PDF format from the NCD website, www.fw.umn.edu/ncdafs/awards.html ; nominations can also be made in a letter including information outlined in the description of each award. The deadline for nominations is 4 October 2002. If you have any questions, please contact

Steve Fischer (AFS-NCD President Elect and Awards Committee Chair) by phone at 573.882.9880, x-3271 or email fischsa@mdc.state.mo.us .

We can not present an award if you do not take the time to nominate one of the many deserving individuals. So please...take the time to nominate a colleague, mentor, friend, or Chapter!

Most Active Chapter

This award will be given to the North Central Division Chapter that has carried out the most active program of enhancing professionalism and fisheries science, relative to its size and the geographic distribution of its membership. Most often, members will nominate their own chapter. Nomination materials should include the number of members, names of officers, number and type of meetings, special activities, recruitment activities, and a brief (1 page) description of what makes this chapter an active and important contributor to the NCD, AFS, and fisheries profession. Additional materials of support may also be included.



Fisheries Excellence

This award will be given to a North Central Division member who has made an outstanding contribution to the fisheries profession. This contribution may be a single activity or a collection of achievements over the individual's career. Former Division members may be nominated if most of their work occurred while they were NCD members. Nominations should include the names and signatures of at least 2 nominators, a brief (1 page) biographical sketch of the nominee, a brief (1 page) narrative of significant contributions made by the nominee, and copies of any additional materials to support the application.

Meritorious Service Award

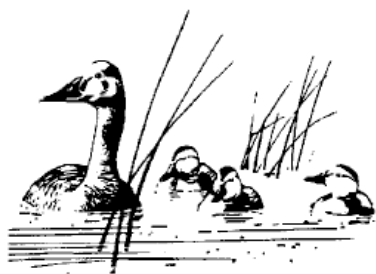
This award will recognize extraordinary service to the AFS by a NCD member. Nominations may be based on a single outstanding achievement or a variety of service activities, and may include the Chapter, Division, Section or Parent Society level. In the nomination, evidence must be presented that this service has gone beyond the routine and that it has made a genuine and lasting contribution to the betterment of the Society. Nominations should include the names and signatures of at least 2 nominators, a brief (1 page) biographical sketch, a brief (1 page) narrative of significant contributions made by the nominee, and copies of any additional materials to support the application.

Hutton Junior Fisheries Biology Program from Steve Fischer (MO)

The Hutton is an educational program for high school students designed to develop interest in a career in fisheries among groups underrepresented in the fisheries profession, including minorities and women. While the program focuses on minorities, non-minority students may also participate in the



program. Students are provided with a professional mentor and a summer-long, hands-on experience in fisheries science in either a marine or freshwater setting. A scholarship is provided to students accepted into the program. A total of 52 students were selected for 2002, with 12 working within the NCD. One of the limiting factors to the program is finding mentors to match up with students. In 2002, 94 students applied but only 52 mentors were located. Why not consider serving as a mentor in 2003? For more information, please visit the AFS homepage (www.fisheries.org/Hutton.shtml) for a Hutton Brochure (.pdf Format), a report on the Summer 2001 & 2002 Hutton Program, Information for Student Applicants, and Information for Mentor Applicants. Deadline for applications is March 2003 ... give it a thought over the winter!



Editorial

The use of fish sanctuaries by fisheries managers in Minnesota is quite common. Historically, fish sanctuaries were used even more extensively, with centrarchid spawning areas on many developed lakes posted for no fishing or no boat activity during peak spawning. The posting of no fishing zones on lakes and streams is still a common practice to protect concentrated fish populations in the spring. The use of permanent no fishing zones or fish reserves in Minnesota, like the use of marine reserves, is less common (the seasonal closures are often traditional measures that give the effect of year-to-year permanence but still allow fishing in those areas at times of the year when fish are not concentrated). Minnesota only has several permanent, year-round, fish sanctuaries or reserves scattered across the state.

Recreational fisheries managers are now giving this management tool more thought. I think this is a good thing. We have relied on bag and size limits to constrain sport anglers with mostly dubious harvest reduction results. Is it likely that our reliance on limits and gear restrictions is too limited?

Marine reserves exist and are proposed for a variety of purposes ranging from preserving critical habitats and biological diversity to protecting and restoring fisheries. Most models of marine reserves have been developed with mid-trophic level fish, like rockfish, and recognized the role of larval transport in determining the distribution and abundance of marine organisms. To be effective, a marine reserve must be large enough to protect a sufficient proportion of the population and must include relevant habitat for the protected species. Often, reserve areas and their size are chosen pragmatically with a mix of biology and sociology. Lauck et al. (1998; Ecological Applications) suggest that reserves may be the simplest and best approach to implementing the precautionary principle for a fishery. Marine work on this tool is progressing (Marine Protected Areas: Tools for Sustaining Ocean Ecosystem 2001;

National Academy Press). Freshwater reserves may be less well understood; where does the science stand?

Can reserves work for fish populations in lakes? Are movement patterns of common North American freshwater species, like walleye, broader than those of coral reef fish where reserves have proven to be an effective management tool? Will sport anglers accept greater use of reserves in Minnesota and for North American freshwater species?

Some organized recreational fishing groups (e.g., Recreational Fishing Alliance, Bass Anglers Sportsman's Society) are questioning the current application of marine reserves. They cite the need to restrict commercial harvesters. They argue that restricting those most responsible for fish declines and habitat destruction should be done first, and that recreational anglers should not be included in these regulations.

Recently, Representative Collin Peterson (D-MN) introduced H.R. 3547, the Freedom to Fish Act (see his statement on the bill below). It ensures that federal regulations promote access for recreational fishing; that recreational anglers will be involved in procedures that contemplate restrictions to angler access on federally controlled waters; and that when fishing restrictions are imposed on these waters, the restricted areas be as small as possible. The bill would also amend the Magnuson-Stevens Fishery Conservation and Management Act such that one can not establish areas closed to recreational fishing unless there is a clear indication that recreational fishermen are the cause of a specific conservation problem and that less severe conservation measures, such as gear restrictions, quotas, or closed seasons, will not adequately provide for conservation and management of the affected stocks of fish. What would Rep. Peterson say if his home state, a non-ocean state, started to use fish reserves more extensively and year-round?

Should we find out? Does anyone have any data or thoughts on freshwater no fishing reserves?

Testimony of Congressman Collin Peterson, May 23, 2002, Before the Subcommittee on Fisheries Conservation, Wildlife and Oceans Committee on Resources United States House of Representatives

"Mr. Chairman: Thank you for allowing me to testify before your important subcommittee in support of H.R. 3547, a bill that would preserve and protect the American public's freedom to fish responsibly in federal waters.

This legislation provides reasonable and responsible guidelines for the use of marine protected areas as a fishery management tool. It provides for the involvement of the public in the development of these areas and ensures that recreational fishing will only be curtailed if other fishery management measures have failed to address a specific resource decline.

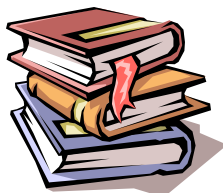
For a long time, fishermen have supported temporary closed fishing seasons to allow fish populations to grow to optimum size. However, at the end of the closed season, fishermen expect most of these areas to be reopened to allow fishermen to enjoy the benefit of their conservation efforts. Where fishermen have been involved in the development of the closed areas and where they believe a closed area will actually increase the amount of fish they can take in the future, fishermen can be expected to support and comply with the fishery conservation programs.

The present rhetoric about marine reserve differs substantially from the traditional use of closed areas to enhance fishing opportunities. Marine reserves are intended to be closed to all forms of fishing on a permanent basis, including catch and release fishing that is now being practiced by an increasing number of Americans. Moreover, the marine reserve advocates want these massive areas declared off-limits to fishing before there has been any scientific proof that permanent no-fishing zones would actually produce more fish for fish for recreational fishermen or enhance the overall fishery. To put this as simply as I can, the marine reserve movement seeks to deprive the American public of access to a public resource.

Mr. Chairman, common sense tells us that there will be more fish and probably a greater variety of fish within almost any area if the government doesn't allow any fishing to take place. However, as other witnesses will tell you, there has been very little scientific support for the proposition that closing one part of the ocean will allow the government to increase the amount of fish that can be taken from the other parts of the ocean. To the contrary, by preventing the sustainable use of fish within the closed areas, marine reserves are more likely to decrease the potential total fishery harvests when compared to conventional fishery management programs. In addition, depending on the size of the areas to be closed, there could be significant adverse environmental effects by forcing fishermen from their historic fishing grounds into other areas. In my view, permanent closed areas have a very high potential to cause permanent severe hardship to coastal communities where fishing is a major contributor to the local economy.

For these reasons, I have introduced H.R. 3547, the Freedom to Fish Act. While this act would not prevent the Federal government from adopting any permanent no-fishing zones, it would ensure that fishermen would be actively involved in the decision-making process and that no areas would become a Federal marine reserve unless traditional fishery management programs could not provide for the conservation of the resource. H.R. 3547 would also provide that each and every marine reserve would be subject to review every three years and, based on those reviews, these no-fishing zones will be reopened whenever they fail to demonstrate positive benefits for the fishing public's enjoyment of our Nation's fishery resources.

Mr. Chairman, this concludes my testimony and I would be please to answer any questions that you or any other member of the subcommittee may have."



Interesting Publications

Incorporating Uncertainty into Fishery Models. 2002. Berkson, J.M., Kline, L.L., and Orth, D.J., editors. American Fisheries Society, Symposium 27. ISBN 1-888569-31-X. This is a compilation of papers presented on a workshop. Good case histories are presented, and I found them quite informative.

Sustaining Fisheries Yields Over Evolutionary Time Scales. Conover, D.O., and Munch, S.B. 2002. Science Volume 297, July 5, 2002, pages 94-96. Does selective harvest have long-term consequences on genetics? Is the reliance on minimum size limits harmful to sport angler's interests? The research presented makes one think.

Division Business Stuff

Candidates for North Central Division Office 2002-2003

First Vice-President

Candidates:
Michael L. Brown
Melissa Drake

Michael L. Brown

Mike is an Associate Professor in the Department of Wildlife and Fisheries Sciences at South Dakota State University (SDSU), where he joined the faculty in January 1994. He received his Ph.D. (1993) and M.S. (1990) degrees in Wildlife and Fisheries Sciences from Texas A&M University (TAMU). He received his B.S. degree (1986) in Wildlife and Fisheries Management from Arkansas Tech University. Mike is actively involved with both graduate and undergraduate teaching at SDSU. He has mentored 14 graduate students at SDSU working on a variety of fish and fishery research topics.

Mike, a Certified Fisheries Professional, has been actively involved in a variety of Society activities as a member of AFS since 1986. He has served as a reviewer for all AFS journals, regularly for North American Journal of Fisheries Management, Transactions of

the American Fisheries Society, and Fisheries. At the parent society level he has recently been a member of the Board of Certification (Education Subcommittee Chair), Publications Overview, and Continuing Education committees. He was actively involved in the implementation of the re-certification procedures and development of committee work plans to accomplish objectives of the Strategic Plan. Over the last several years he also has served on the Skinner Memorial Award, Membership Concerns, Membership, Publication Awards, Continuing Education, and Time and Place committees. At the division level, he has been involved with NCD technical committees (i.e., Centrarchid, Esocid, Walleye, and Reservoir [Rip]), and previously, the Southern Division Small Impoundment and Pond Management committees. While at TAMU, Mike was President of the TAMU Chapter and Vice President of the Association of Wildlife and Fisheries Graduate Students. This past year he served as the President of the AFS Dakota Chapter and he currently serves on the Board of Appeals for the Board of Professional Certification.

Mike's primary research interests are fisheries management and fish ecology. Research conducted at TAMU focused on population genetics, fish nutrition, energy dynamics, and the development and application of condition indices. Since arriving at SDSU, his research has primarily dealt with stocking contributions, trophic ecology, and entrainment issues. He has authored or co-authored 63 peer-reviewed articles and presented or co-presented 69 papers or posters at professional meetings, primarily AFS meetings. He is currently collaborating with coeditor Chris Guy (Montana State University) in the development of a graduate-level textbook for AFS on the analysis and interpretation of freshwater fisheries data.

Why would Mike seek a leadership position in the North Central Division? There are numerous good reasons for agreeing to be nominated for a divisional position, but generally it provides the opportunity to advance the Society's goals at the regional level. Specifically, there are a number issues Mike would work on that relate to our strategic plan.

1. Mike would work to optimize communications and facilitate information transfer among chapters, agencies, and stakeholder groups – particularly science-based information items that promote resource stewardship and enhance the visibility of the NCD and the Society.
2. An associated aspect of information transfer is the development of productive outreach programs that promote conservation and sustainability of fishery resources to non-traditional publics. For example, the Hutton Junior Fisheries Biologist Program exposes high school students to AFS and the profession. Although "public understanding" was an item in the 1997-1998 Work Plan, the NCD should actively work with chapters in developing and implementing projects that further enhance our visibility and support recruitment.
3. Membership issues always require attention. Based on the 1998 NCD survey, there are still unresolved questions. (Likely, surveys should be done at five-year intervals to ensure the NCD is responding to issues in a timely fashion.) We need to expand our membership base, which can be done with some innovative thinking and recruitment incentives. An example of one such approach is the regional fisheries student conclave proposed by President-elect Steve Fisher. This event should further stimulate interest in

the profession and AFS, leading to increased student membership. Also, seven of the 30 AFS student subunits are within the NCD. The NCD should have a closer relationship with these subunits and promote development of other subunits, where appropriate, to increase student membership and participation.

4. Continuing education – lifelong learning – is another area where the NCD should play an instrumental role. We need to provide and/or support continuing education opportunities (technological and otherwise) that are crucial to our business. Furthermore, in the education vein, the NCD should expand its support of the technical committees in publishing special publications and symposia proceedings.

The NCD is a successful division, as its history illustrates. Mike would actively work to sustain that tradition by working on the above ideas and others that are critical to the NCD mission.

Melissa Drake

Melissa (Missy) is a Research Scientist with the Minnesota Department of Natural Resources in St. Paul – a position she has held since 2001. Prior to this, she was a Fisheries Biologist with the same agency since 1992. She received her BS (1989) in Fisheries and Wildlife and MS (1992) in Fisheries from Michigan State University.

Melissa's professional interests include population dynamics and modeling, growth and reproductive dynamics of bluegill, fish-based indices of biotic integrity, and coldwater stream fishes. Her current research focuses on developing a fish-based index of biotic integrity for small inland lakes in Minnesota. In addition, Melissa also spends considerable time developing computer simulation models to evaluate potential management actions on Minnesota's state fish, the walleye.

Melissa's past service to AFS includes:

Chair of Audio-Visual Committee for the 2000 Midwest Fish and Wildlife Conference
NCD Representative for the AFS Nominating Committee, 1999-2001
Chair of Outstanding Chapter Award Committee of the AFS Parent Society, 1997-98
Member of AFS Program Committee for 1998 Annual Meeting in Hartford, CT
Nominating Committee Chair of MN Chapter, 1997-2000
Awards Committee Chair of MN Chapter, 2001-present
Chair of Centrarchid Technical Committee of NCD, 1995-96
Assisted with 1995 Centrarchid Symposium at Midwest Fish and Wildlife Conference
Assisted with development of bluegill and largemouth bass posters
Organized the Centrarchid grey literature report

Additionally, Melissa became a Certified Fisheries Professional in 2000. She also received a Minnesota Chapter award for the best presentation at the annual meeting in 2002. Melissa has been a member of the Society since 1989 and a member of the Minnesota Chapter since 1992 (prior to that she belonged to the Michigan Chapter). She

Mainstream.....page 22

has authored and coauthored several publications in the North American Journal of Fisheries Management and made presentations at the Midwest Fish & Wildlife Conference and Parent Society meetings.

If elected, Melissa will focus on coordinating Chapter and NCD Standing and Technical Committee activities to help achieve the major goals of AFS – member services, information transfer and outreach, and aquatic stewardship.

The strength of the NCD has always been in its very active Chapters and Committees. As a result, Melissa feels the major duty of the Division President is to provide the necessary support to the Chapters and Committees so that they can continue to produce quality results – symposia, posters, special publications, position statements, etc. This support could occur in many different forms, ranging from representing the views of the Division membership at the Parent Society level, sponsoring continuing education courses, promoting symposia or joint projects by the technical committees, or encouraging involvement in the Hutton Junior Fisheries Biologist Program. As president, Melissa will work hard to continue the quality work and activism of the previous officers.

Secretary – Treasurer

Candidates:

Donald R. Kline

Donald R. Kline

Don graduated from Iowa State University in the fall of 1967 with a B.S. in Fish and Wildlife Biology. He works for the Iowa Department of Natural Resources, and spent his first three years there as a biologist in the Biology Section working along the Missouri River. Since 1971, he has worked as a fisheries management biologist in the Fisheries Bureau in Southeast Iowa. The job involves making surveys of ponds, lakes and streams. Don's professional interests include stream ecology, flathead catfish life history, fish habitat design and construction, fish information databases, and fish management evaluation methods. He has served as president of the Iowa Chapter two times, and served as the chapter's representative to the NCD Centrarchid Technical Committee. He is also a member of the Computer Users, Fish Management, and Fish History sections. Don enjoys reading several articles each time the Transactions or Fisheries comes to his office. He considers it important for the NCD to have accurate meeting and financial records and timely information that the officers and members can use. Don is again running for the office of secretary-treasurer because he feels that it is part of the way members can give back to the society.

Election Ballot

North Central Division American Fisheries Society 2002-2003 Officers

Please vote for one candidate for each office. Ballots must be received no later than November 15, 2002.

Send ballot to:

Tim Goeman
DNR Regional Fisheries
1201 East Highway 2
Grand Rapids, MN 55744

Or, you may also vote by e-mailing your choices to Tim Goeman at:

tim.goeman@dnr.state.mn.us

First Vice-President – vote for one:

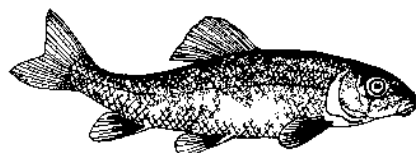
Michael L. Brown _____

Melissa Drake _____

Secretary – Treasure – vote for one:

Donald R. Kline _____

Write-in Candidates (please include name and office):



On the Underside

by Charles Anderson, Dennis Schupp, and others

Ever wonder:

Why is the man who invests all your money called a broker?

Why is the time of day with the slowest traffic called rush hour?

Why are they called apartments when they are all stuck together?

If con is the opposite of pro, is Congress the opposite of progress?

If flying is so safe, why do they call the airport the terminal?

Things you should have learned by now:

If you're too open-minded, your brains will fall out.

Age is a very high price to pay for maturity.

Artificial intelligence is no match for natural stupidity.

If you must choose between two evils, pick the one you've never tried before.

Not one shred of evidence supports the notion that life is serious.

Opportunities always look bigger going than coming.

Junk is something you've kept for years and throw away three weeks before you need it.

There is always one more imbecile than you counted on.

Someone who thinks logically provides a nice contrast to the real world.

You Know You're A Redneck When... (2001 Edition):

You take your dog for a walk and you both use the same tree.

You can entertain yourself for more than an hour with a flyswatter.

Your property has been mistaken for a recycling center.

You come back from the dump with more than you took.

You've been involved in a custody fight over a hunting dog.

You took a fishing pole to Sea World.

You wonder how service stations keep their restrooms so clean.

A tornado hits your neighborhood and does \$100,000 worth of improvement.

Contacts

(Please send changes, corrections or additions to the editor, thank you)

Division Officers (end of term is August 2003)

President Christopher Guy 406.994.3491

President-Elect Steven Fischer 573.882.9880

Past President Tim Goeman 218.327.4415

Sec.-Treasurer Don Kline 319.694.2430

cguy@montana.edu

fischsa@mail.conservations.state.mo.us

tim.geoman@dnr.state.mn.us

don.kline@dnr.state.ia.us

Division Standing and Ad hoc Committees

Archives Committee	Mark Flamming	
Auditing Committee	Dave Day	dday@dnrmail.state.il.us
Awards Committee	Steve Fischer	fischsa@mail.conservation.state.mo.us
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Membership Committee	Christopher Guy	cguy@montana.edu
Newsletter Editor	Paul Radomski	paul.radomski@dnr.state.mn.us
Nominating Committee	Tim Goeman	tim.goeman@dnr.state.mn.us
Resolution Committee	David Lonzarich	lonzard@uwec.edu
Student Affairs Committee	Patrick Hanchin	p_hanchin@hotmail.com
Web Page Committee	Don Pereira	don.pereria@dnr.state.mn.us

Technical Committee Chairs

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Esocid	Daniel Iserman	diserman@hotmail.com
Genetics and Biodiversity	Brian Sloss	
Ictalurid	Greg Pitchford	pitchg@mail.conservation.state.mo.us
Reservoir Technical	Robert Hayward	haywardr@missouri.edu
Rivers and Streams	Joel Cross	jcross@dnrmail.state.il.us
Salmonid	Mark Ebbers	mark.ebbers@dnr.state.mn.us
Walleye	Jeff Hendrickson	jhendric@state.nd.us

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Mid-Canada		
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Ohio	John Navarro	john.navarro@dnr.state.oh.us
S. Ontario		
Wisconsin	Steve Gilbert	Stephen.Gilbert@dnr.state.wi.us

Websites

American Fisheries Society	http://www.fisheries.org
North Central Division of AFS	http://www.fw.umn.edu/ncdafs
Walleye Tech. Comm.	http://ws3.coopfish.siu.edu/walleye_tech

2002 Midwest Fisheries Conference Call for Papers

Please join us for the 2002 Midwest Fisheries Conference, December 3-5, at the Isle of Capri Hotel in Bettendorf, Iowa. Visit the NCD's website for lodging, registration, and program information: <http://www.fw.umn.edu/ncdafs>

This is the first call for paper and poster abstracts. In tradition with the high quality of presentations at the Midwest, consider this an invitation to present the results of your research or management work. Also encourage colleagues to present their findings.

The Program Chair must receive abstracts for papers and posters in electronic format by September 15, 2002. Authors will be notified by October 15 of acceptance. Slides and PowerPoint Presentations are acceptable. Presenters must register as conference attendees.

Of special note: there is limited room for presentations and there will be NO onsite registration. Conference participation will be limited to the first 400 registrants.

Program Chair:
Randy Schultz
KDWP
P.O. Box 1525
Emporia, KS 66801-1525
(620) 342-0658
randys@wp.state.ks.us



**Midwest Fisheries Conference
December 3-5, 2002
Isle of Capri Hotel
Bettendorf, IA**

Registration

Name: _____

Address: _____

Phone: _____

e-mail: _____

_____ Check enclosed (\$75 payable to NCD - AFS)* or (special student rate of \$35)*
(Receipts will be available at the conference).

*The registration fee covers meeting space, refreshments and food at the evening social on December 3, the December 4 banquet, and refreshments during the breaks on December 4 and 5.

Conference attendees can arrange for lodging at the Isle of Capri Hotel at the special conference rate of \$55 (plus tax). For lodging call 800.724.5825, ask for the Midwest Fisheries Conference Group #3442072.

Registration will be limited due to the size of the conference site. On-site registration cannot be guaranteed. The conference pre-registration deadline is October 15, 2002.

Please send this form and payment for each conference attendee to:

Tim Goeman
DNR Regional Fisheries
1201 East Highway 2
Grand Rapids, MN 55744

Registration questions? Contact: tim.goeman@dnr.state.mn.us

