



## Fisheries Management Section

November 2009

## President's Message

RON ESSIG

With our first snow predicted tonight here in Massachusetts as I write this in mid-October, I'm wondering where fall went. Anyway, a cold evening provides a good opportunity to fill you in on some Fisheries Management Section (FMS) business from our meeting on August 30 in conjunction with the AFS meeting in Nashville. I also want to share some Governing Board (GB) happenings from Nashville and afterwards.

**FMS Business** – Please scan the minutes from our meeting later in this newsletter. Hopefully, they will give you an appreciation of the variety of projects that the FMS is involved in. These range from annual awards recognition to book projects. We were fortunate to have two guest speakers briefly address the membership. Ian Dolben, Chair of the Institute of Fisheries Management, talked about several fisheries issues in the United Kingdom. Ron Regan, Resource Director of the Association of Fish and Wildlife Agencies, provided updates on current legislation, in particular the reauthorization of the fuels tax transfer provisions of Sport Fish Restoration. We had productive discussions on: requested support for an on-line standard sampling database, a contribution to the Hutton endowment fund, and potential involvement in a large rivers symposium at the AFS 2010 meeting in Pittsburgh.

Subsequent to the meeting, the FMS EXCOM approved a \$500 donation to the Hutton endowment fund, deferring consideration of a continuing line item amount for the next business meeting.

**GB Retreat** – This August 28 gathering focused on future directions for AFS journals. A free-wheeling discussion ranged from having a commercial publishing house take over journal production to moving all journals to the open access format. This was important discussion because

**“...a good opportunity to fill you in on some Fisheries Management Section (FMS) business from our meeting on August 30 in conjunction with the AFS meeting in Nashville”**

journal subscriptions account for about one-third of AFS revenues. The Publication Oversight Committee will consider input from the retreat and will provide recommendations to the GB for consideration at their mid-year meeting in March 2010.

**GB Meeting** – The GB picked up on the publications theme from the retreat at their meeting the next day. A motion to move from printed journals to on-line journals only was defeated because it was thought to be too sudden and there was no sense of member reaction. The other major action was approval of a budget for the coming year that would require dipping into cash reserves.

**GB Follow-up Actions** - Executive Director Gus Rassam provided better financial information after the Nashville meeting. Based on that, in early October the GB approved several actions with financial implications; to increase individual print subscriptions of TAFS and NAJFM from \$43/year to \$55/year and of NAJA and JAAH from \$38/year to \$45/year; to increase dues from \$76/year to \$80/year for regular members, from \$38/year to \$40/year for young professionals and retired members, and from \$19/year to \$20/year for students; to give Life members the option of either continuing to receive printed journals or to receiving online journals plus Fisheries InfoBase. Gus believes that these combined actions represent significant strides toward a balanced 2010 AFS budget. In closing, I think that FMS made an excellent investment by providing \$500 toward Quinton Phelps' travel to the GB retreat and meetings through this program. He and three other mentees had several insightful thoughts on the events that transpired. I believe that the experience helped solidify these mentees' desires for future AFS unit leadership positions. Feel free to contact me at [ron\\_essig@fws.gov](mailto:ron_essig@fws.gov) if you have any questions on the information that I've shared above.

Ron Essig

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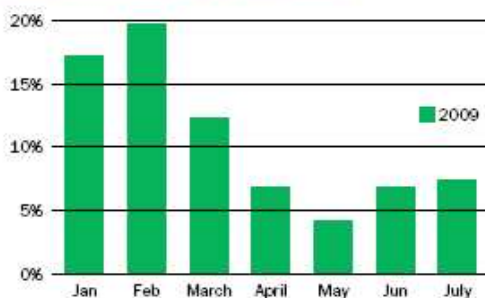
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## Despite Economy, Fishing License Sales Are Up

*Sales increase mirrors recreational fishing's heyday in the 1960s and 1970s*

The American Sportfishing Association (ASA) and the Recreational Boating & Fishing Foundation (RBFF) will publish a quarterly fishing license sales index to track trends that impact the industry and recreational fishing community. "Not since the 1970s have we seen a single-year increase in fishing license sales like we've seen so far in 2009," said ASA President and CEO Mike Nussman. "Understanding how the needle moves in terms of sportfishing participation is important not just for the industry, but also for the entire outdoor recreation community. This new license metric will provide everyone with important sales and participation information." "Our recent research shows that fishing is the number one gateway activity for introducing children and their families to the outdoors," said RBFF President and CEO Frank Peterson. "We believe that national campaigns, such as Take Me Fishing™, and state-based sportfishing marketing and direct mail also are having a positive effect." As of Sept. 1, 2009, state fish and wildlife agencies reported a 7.7 percent increase in the number of licenses sold year-to-date compared to the same months last year (January through July). The same states also saw a 7 percent increase in the number of licenses sold in July 2009 compared with July 2008. According to Southwick Associates, the firm analyzing the data, fishing license sales increased at a faster rate in the first quarter of 2009 compared to the second quarter. Increases of 20 percent or more were common in the first quarter. A larger volume of sales, however, occurred in the second quarter—the peak period for license sales nationally—and had a greater effect on the year-to-date sales trend than first quarter license sales. After standardizing the July index to contain the same states as previous months, license sales increased nearly a full percentage point over May and June sales. In general, more fishing licenses are sold during the second quarter (April, May and June) than any other time of the year. "Reasons for the 2009 license sales increases range from a slow economy, which may allow people more time to engage in outdoor activities, to recreational fishing being a lower-cost alternative to other forms of recreation," said Peterson. "When the index moves by just a tenth of a point, 40,000 anglers have entered or quit sportfishing. Considering the typical angler spends \$176 a year on fishing tackle alone and contributes more than \$40 annually to conservation via license dollars and excise taxes, a small change in the index represents big changes on the ground," said Nussman. Ultimately, anglers and other sportsmen and women, are the most significant funding source for conservation and recreation in the United States. Through the purchase of fishing licenses and special excise taxes on gear and motorboat fuel, hundreds of millions of anglers' dollars each year are collected or funneled to states for conservation and recreation. In 2008, \$720 million of these excise taxes were distributed for fisheries management and recreational boating enhancement. In addition, fishing license sales generated \$600 million in revenue for state fish and wildlife agencies. State fish and wildlife agencies reporting license sales numbers include Florida, Indiana, Kansas, Louisiana, Minnesota, North Carolina, New Jersey, New York, Oregon, Texas and Utah. They were selected for their ability to provide consistent license sales data to illustrate both a national and regional perspective. As more states expand their data-reporting capacities, the number of reporting states will increase. For more information about the sportfishing industry contact ASA at 703-519-9691. For more information about angling and boating participation, contact RBFF at 703-519-0013. For more information about recreational fishing data and statistics, contact Southwick Associates at 904-277-9765.

**Percentage Change in the Number of Licenses Sold Year-to-Date in 2009 Compared to the Same Months in the Previous Year**



### The License Sales Index

- The license sales index is a timely metric of fishing license sales. It is not an exact measure of all fishing license sales nationally.
- Results are based on a weighted average of trends among participating states. States with larger angler populations have a greater impact on the results than smaller states.
- Because of confidentiality considerations extended to participating states, license sales trends are not available on a per-state basis.
- This report is the first in a series of planned fishing license sales indices. Future indices will be released quarterly.

## Fisheries Management Section of the American Fisheries Society –Annual Business Meeting

BRIAN GRAEB– Secretary Treasurer

Sunday August 30, 2009, 3:00 PM, Nashville, TN  
67 people present (at least 42 members)

Welcome and Announcements (Ron Essig)

- Call to Order 3:00 p.m.; Quorum present.

Acknowledgement of current and previous officers (several in attendance)

Bill Franzin- Summary of Governing Board Meeting.

- Recognized current activities in publishing AFS books (many supported by FMS)
    - o AFS has a budget deficit
- Currently exploring ways to cut costs and increase revenue

Approval of minutes from 2008 Annual Meeting (Ottawa)

No discussion, minutes approved

Review and Approval of FY 2008 Financial Report (Brian Graeb)

Current balance of about \$31,656

Many obligations (up to \$5,500) pending

No discussion, report approved

### OLD BUSINESS

FMS/FAS Exchange program with the Institute of Fisheries Management (Ian Dolben, IFM).

Discussed current issues in UK.

Agency focus on improving water quality and fish passage

Working on addressing salmon declines.

Eel, shad, and lamprey management plans (stocking, fish passage, and water quality).

Pressure to increase hydropower, concerns over fish resources.

Budgetary problems (similar to most agencies)

Association of Fish and Wildlife Agencies (Ron Regan)

Biologists/lobbyist working on many issues

Wallop/Breaux re-authorization

Angling and Boating alliance to serve as umbrella for several groups

National Fish Habitat Action Plan. Hopeful will pass this year

Aquaculture drugs

Rotenone

Urban and Community Fisheries Management Committee (Tom Lang)

Lots of activity

Started Blog on FMS homepage

FMS Newsletter (Quinton Phelps)

Getting caught up, published to reports in the last 9 months

FMS Webpage (Fred Janssen)

Nothing new to report

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Governing Board Mentoring Program (Ron Essig)

We sponsored Quinton Phelps (FMS newsletter editor and PhD student at Southern Illinois University)

Book Projects and Sponsored Symposia

*Standard Methods for Sampling North American Freshwater Fishes* – Scott Bonar reported that this book was recently published. It was initially supported with \$10K from FMS in 2004, and 7 percent royalties will come back to the FMS.

*Inland Fisheries Management in North America, Third Edition* – Mike Quist reported that most of the 13 chapters have been reviewed. It is possible that only \$2K will be needed for graphics of the \$5K approved by FMS in 2007.

*Biology and Management of Walleye and Sauger in North America* – Brian Graeb reported on progress on this project supported with \$5K from FMS in 2007

*Balancing Fisheries Management and Water Uses for Impounded Systems* - \$5K was provided by FMS in 2006 for the fourth national reservoir symposium held in 2007 in Atlanta. This book published in January 2009 is a product of that effort.

*Inland Striped Bass/Hybrid Striped Bass Management* – Brian McRae reported that this symposium of about 40 papers to be held the next several days at AFS 2009 was planned to be published as an AFS book. FMS provided \$500 in 2009 for this symposium.

*Second International Catfish Symposium* – Tom Lang announced that this symposium supported by \$5K from FMS in 2008 would be held in June 2010 in St Louis. The symposium website is [catfish2010.org](http://catfish2010.org)

FMS Awards (Dirk Miller)

Hall of Excellence inductees (plaques will hang in the FMS Hall of Excellence at the Ak-sar-ben Aquarium in Gretna, NE)

**Dr. Wayne Tody** received the sections highest honor. Dr. Tody devoted his entire career to Michigan, beginning with the Game Division in 1946, then later the Fisheries Division, Institute for Fisheries Research. He was a key figure in introducing salmon to the Great Lakes. Dr. Tody represented the perfect blend of science, leadership, and political prowess, which he used to produce breathtaking change, particularly for the Great Lakes, but also for the state, agency, and profession to which he devoted his life.

**Dennis Unkenholz** also was inducted into the FMS Hall of Excellence. Dennis worked for the South Dakota Department of Game, Fish and Parks for 36 years, retiring in 2007 as the Chief of Fisheries. He played a key role in the establishment and operation of the Missouri River Natural Resources Committee, which provides science-based management recommendations and technical assistance to state and federal agencies. Dennis was active in AFS at the chapter and national level and encouraged SDGFP fisheries staff to be involved in AFS and to stay current in the profession.

**Mr. Scott Van Horn** also was inducted into the FMS Hall of Excellence. Scott began working for the North Carolina Wildlife Resources Commission (NCWRC) in 1975. He worked as a special projects biologist and research coordinator before implementing the Aquatic diversity program into the NCWRC's Division of Inland Fisheries. Scott has selflessly volunteered his time, talents and energy to the AFS throughout his distinguished 32-year career. An AFS member since 1972 and a member of the NC AFS Chapter since its inception, he served as its first President and was instrumental in the Chapter's formation.

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Award of Excellence: **Dr. David Bennett** in recognition of his career accomplishments and dedication to fishery resources through teaching and research.

Award of Merit: **Larry Kolz** was recognized for his contributions to the theory and practice of electrofishing as means to sample fish.

Conservation Achievement Award: **Project SHARE** was recognized for their accomplishments opening up miles of previously inaccessible habitat for anadromous fishes through partnerships with private landowners, blueberry producers, the forest and paper industries, state and federal agencies, and academia.

#### New Business

On-line standard sampling database – Scott Bonar introduced the idea of this database to follow up on the recent book publication. Members provided feedback on this potential project and its anticipated \$10K cost. No action was taken pending provision of further information.

Contribution to Hutton Endowment Fund – Cindy Williams asked that FMS contribute to this effort in the form of a percentage of proceeds from book projects. It was decided that the EXCOM should act on this.

Large rivers symposium at AFS 2010 – At least three AFS Divisions are interested in organizing such a symposium at the Pittsburgh meeting. No one disagreed that this would be worthwhile for future FMS involvement.

FMS bylaws revisions – There was recognition that FMS bylaws need to be revised to allow electronic voting. Ron Essig will take the lead on this.

Motion to adjourn made by Mike Allen, Steve Filipek 2<sup>nd</sup>, Motion passed. Meeting adjourned at 5:00 p.m.



## AFS Fisheries Management Section 2008 Awards

### AFS Fisheries Management Section 2009 Awards

The AFS Fisheries Management Section (FMS) recognized five outstanding fisheries professionals and one organization with awards in 2009. Project SHARE (Salmon Habitat and River Enhancement) was given the Conservation Achievement Award. The Award of Merit was given to Mr. Larry Kolz and the Award of Excellence to Dr. David Bennett. Mr. Scott Van Horn, Mr. Dennis Unkenholz and Dr. Wayne Tody were inducted into the Fisheries Management Hall of Excellence. Congratulations to the winners!

The National Fisheries Management Hall of Excellence (HOE) was established in 1992 and its stated objectives are to: 1) to recognize fisheries management professionals who have made outstanding contributions to the advancement of fisheries management; 2) to provide a site where the contributions of those honored can be displayed and viewed by the public and other fisheries professionals; 3) to emphasize the accomplishment, dedication, and principles of those honored in the HOE; and 4) to describe the fisheries management profession. The Hall is located at the AK-SAR-BEN Aquarium in Gretna, Nebraska where plaques of inductees are prominently displayed. Selection to the HOE is the highest honor given by the Fisheries Management Section.

The Award of Excellence is given for inspirational leadership in the fishery profession and substantial achievements for AFS and the fisheries resource. The recipients must have effectively communicated their work at the national and/or international level. This award is given for cumulative accomplishments rather than a singular effort. The Award of Merit recognizes a singular accomplishment of an individual or group acting as a team or committee for contributions in fisheries management and research. The award can be given for outstanding leadership, administration, or project-related accomplishment in any aspect of the fisheries profession. The Conservation Achievement Award recognizes any significant action, program, or initiative by a nonmember individual, non-governmental organization, or state (provincial), local, or federal agency that contributes substantially to fishery conservation or fishery science.

## **Fish Management Hall of Excellence 2009 Awards**

Dr. Tody devoted his entire career to Michigan, beginning with the Game Division in 1946, then later the Fisheries Division, Institute for Fisheries Research. Dr. Tody was appointed Deputy Director of the Department of Natural Resources in 1976. Dr. Wayne Tody's exemplary career pioneered many of the practices and concepts we take for granted today. The scale and scope of his accomplishments are not only impressive but reflect an era of great growth in our profession and science. Dr. Tody represented the perfect blend of science, leadership, and political prowess, which he used to produce breathtaking change, particularly for the Great Lakes, but also for the state, agency, and profession to which he devoted his life.

Dennis started with the South Dakota Department of Game, Fish and Parks (SDGFP) in 1971. His vision and understanding of the need for long-term data sets continues as the foundation of Missouri River reservoir management in South Dakota. In 1997, he was promoted to Chief of Fisheries, a position he held until retiring in 2007. During his illustrious 36 year career he was a leader and a mentor to many. Dennis was the consummate professional. The people and fisheries resources of the State of South Dakota and the Missouri River basin benefited from his willingness to share his knowledge and appreciation of everything around him.

Mr. Scott Van Horn began working for the North Carolina Wildlife Resources Commission (NCWRC) in 1975. Scott's vision to increase collaborative opportunities with conservation partners continues to enhance the understanding of aquatic ecosystems and bridge gaps in science. Scott has selflessly volunteered his time, talents and energy to the AFS throughout his distinguished 32-year career. Scott has a unique ability to communicate complex issues to members of the angling public and biologists alike. His approach and philosophy towards research, management and policy will help guide the NCWRC's fisheries program for years to come.



## 2009 Award Recipients

The 2009 winner of the Award of Excellence is Dr. David Bennett. He was recognized for career accomplishments and dedication to fishery resources through teaching and research. He has been a Professor at the University of Idaho since 1975, where he taught fish ecology and fisheries management courses. Most of Dr. Bennett's research has focused on ecology and management of resident fishes and how they interact with native anadromous and resident salmonids. Much of this work has been on population ecology and identifying limiting factors and has focused on applied research problems. His research has been widely published in major scientific journals and he has given numerous presentations at International, regional and state scientific meetings. Dr. Bennett has served on numerous AFS committees at all levels and served as Associate Editor for The North American Journal of Fisheries Management. Dr. Bennett has also earned numerous awards for research, teaching and advising at the University of Idaho and recently was awarded the Lifetime Achievement Award by the Idaho Chapter.

Larry Kolz received the Award of Merit. He was recognized for his contributions to the theory and practice of electrofishing as means to sample fish. Larry has been deeply involved in transferring the theoretical foundation and concepts of electrofishing to practitioners. He is the author of the electrical sessions for the UFWS course "Principles and Techniques of Electrofishing". Larry also was an advisor for the development of two computer-based electrofishing training modules used for certification of field personnel. Since 1980, Larry has presented over 60 electrofishing workshops in the U.S., Canada, and Australia with over 1,800 research personnel in attendance. Larry's "Power Transfer Theory" was independently and experimentally substantiated in 2003. The verification of this theory influenced the emerging concept of standardization, which is now viewed as essential when using electrofishing to monitor fish assemblages in waters having different conductivities. Larry's research productivity in electrofishing has continued after retirement and he has recently focused on electrofishing fleet standardization. He is co-author of the electrofishing chapter in the upcoming 3rd edition of Fisheries Techniques, published by the American Fisheries Society (AFS).

The 2009 winner of the Conservation Achievement Award is Project SHARE (Salmon Habitat and River Enhancement). Project SHARE was recognized for their accomplishments opening up miles of previously inaccessible habitat for anadromous fishes through partnerships with private landowners, blueberry producers, the forest and paper industries, state and federal agencies, and academia. Project SHARE has brought diverse, divergent interests together to achieve an unusually high level of on-the-ground habitat conservation and a multitude of success stories in reconnecting and restoring essential habitat for listed Atlantic salmon and brook trout in ME. SHARE leveraged partnerships with private landowners, blueberry producers, the forest and paper industries, state and federal agencies, and academia to resolve numerous fish passage blocks that opened miles of previously inaccessible habitat for anadromous fishes. SHARE motivated and mobilized a cadre of professionals, volunteers and private landowners to focus support on habitat restoration in Maine. SHARE's abilities to attract substantial funding support from USDA NRCS (see above) is testament to this organization's leadership and its ability to assess, measure and communicate habitat restoration needs to funding agencies for fisheries

# Capitol Hill Briefings

## AFS President Don Jackson

Each spring AFS has the opportunity to have briefing sessions on Capitol Hill with congressional staff members to address important and timely issues related to fisheries. There are 3 issues that have been advanced to me in this regard:

1. Alternative energy
2. Mining
3. Hatcheries

I would entertain proposals from governing board members (or others in AFS) to develop any one of these issues as the subject material for the 2010 briefing session. In this regard, I welcome your inquiries either via email or telephone call (662-325-7493) to discuss particular emphasis in the above-mentioned topics that have been brought to my attention.

A proposal should include (1) a statement of intent for leadership in terms of identifying and recruiting key persons to make the presentations to congressional staff and (2) a willingness to address the issue in the context of a symposium during the 2010 Annual Meeting in Pittsburgh or via a separate Topic Oriented Meeting (TOM) that would be scheduled at a different time and place. Proposals at this juncture need only be in abstract form (no more than 1-page).

I would appreciate receiving your proposals by 1 December 2009. Please copy to AFS Executive Director Gus Rassam [grassam@fisheries.org](mailto:grassam@fisheries.org). This is an incredibly important opportunity for AFS to help establish the framework and foundation for responsible stewardship of fisheries resources in the future.

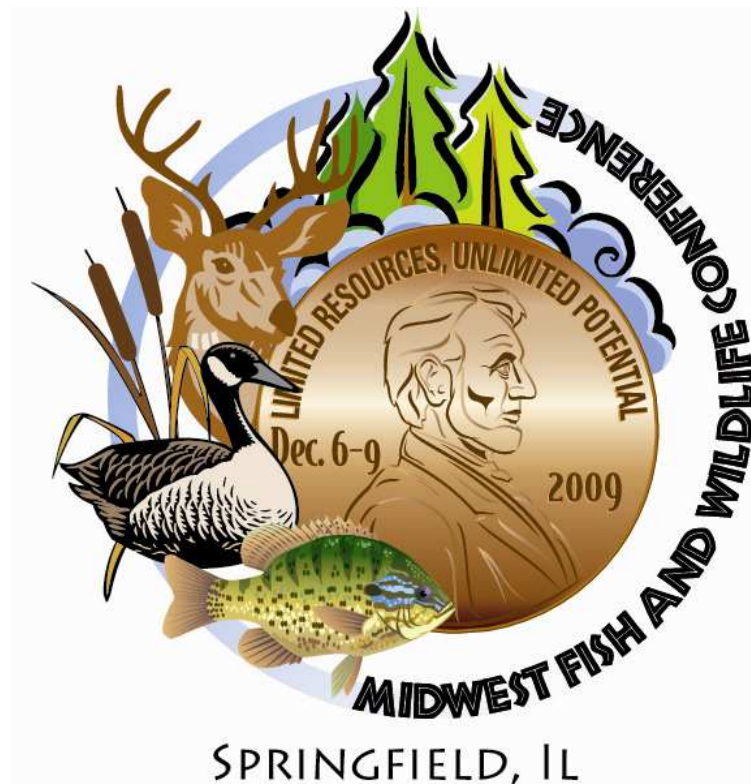
Thank you for your commitment to leadership in AFS and in your specific professional arena. I look forward to hearing from you.

Sincerely,  
Don Jackson  
AFS President

## MIDWEST FISH AND WILDLIFE CONFERENCE

The Midwest Steering committee invites you to the Land of Lincoln and home of the 2009 Midwest Fish and Wildlife Conference! December 6-9, 2009 marks the 70th year that natural resource professionals in the Midwest will meet to share new research, management experiences, and valuable insight on fish and wildlife issues.

We are expecting tremendous interest in the 2009 conference due to the location, the excellent plenary speakers, and the content of the workshops and breakout sessions. The Hilton is located in the heart of downtown Springfield, which is rich in Abraham Lincoln history. In addition to discussing fish and wildlife issues, conference attendees will experience Lincoln's story as never told before. Our welcome social will be held at the prestigious Abraham Lincoln Presidential Museum and while in town, you'll walk the same streets Lincoln and his family walked 165 years ago. We encourage you to browse our website (<http://www.dnr.state.il.us/midwest/>) and to contact us with any questions. Register (by November 6, 2009) and reserve your room early (by November 16, 2009) to ensure the best rates. We look forward to seeing you in Springfield in December!



## Advanced FAST at the Midwest Fish and Wildlife Conference

Time: December 6th 2009; 8:00 AM – 5:00 PM

Contact: Angela C. Grier , Indiana Department of Natural Resources, (260) 244-6805, [agrier@dnr.IN.gov](mailto:agrier@dnr.IN.gov)

Instructor: Dr. Steve Sammons – Auburn University

Attendance: minimum 10 – maximum 25

Cost: \$100

Location: Hilton

Overview: The purpose of this short course is to provide registrants with advanced training in the use of the FAST software. Registrants will be expected to have the FAST 3.0 version installed on laptop computers and bring hard copies of Chapters 9 and 10 (Largemouth bass from Lake Eufaula and striped bass from the Chesapeake Bay examples). Registrants should have a basic working knowledge of FAST and be familiar with computations to estimate growth, mortality, and recruitment. During the eight-hour short course, simulation modeling of specific fisheries will be conducted and discussed.

Detailed Description of Session Topics:

Case histories of fisheries that have been published will be covered and additional course notes provided. Agenda topics will include:

- 1) Computation of yield and spawning potential ratio of the channel catfish in the upper Mississippi River: Use of biological references points.
- 2) Impact of largemouth bass virus and changes in growth and survival on production of largemouth bass greater than 20 inches.
- 3) Evaluation of low harvest rates on production of trophy peacock bass in the Rio Negro River, Brazil.
- 4) Effectiveness of harvest restrictions of riverine sunfish fisheries in Georgia.
- 5) Length and slot limit evaluations for primary catch-and-release tournament fisheries on Lake Eufaula, Alabama: Use of size-specific differences in mortality rates.
- 6) Evaluation of recruitment overfishing for striped bass in the Chesapeake Bay: Use of the customized recruitment and fishing mortality utilities.

## **Design, implementation, and analysis of studies to evaluate instream restoration practices at the Midwest Fish and Conference**

Time: December 6th 2009; 1:00 PM – 5:00 PM (tentative)

Contact: Steve Pescitelli, Illinois Department of Natural Resources, (630) 553-0164, [Steve.pescitelli@illinois.gov](mailto:Steve.pescitelli@illinois.gov); Leslie Dorworth, Purdue University Calumet, (219) 989-2726, [dorworth@calumet.purdue.edu](mailto:dorworth@calumet.purdue.edu)

Instructors: Dr. Robert Fischer, University of Alabama, Birmingham and Dr. Luther Aadland, Minnesota Department of Natural Resources

Attendance: minimum 40 – maximum 60

Cost: \$75

Location: Hilton

Overview: Stream restoration has become a very prominent activity in recent years, not only through agency driven efforts but also by private entities as part of commercial development for mitigation. While many different techniques for instream restoration have emerged, critical evaluation of these practices is often lacking or inadequate. Determining the biotic response to these instream modifications is necessary in order to identify the most effective approaches and to provide opportunity for improvements, especially in terms cost benefit analysis. Many funding agencies recognize this problem and have begun including monitoring as part of restoration grants. It is important, therefore, that biologists and managers have proper training in the evaluating biotic response to instream restoration practices. This training should include adequate study design as well as data analysis and reporting. The Sunday workshop will provide the needed training, while the symposium will be a venue to present case studies related to evaluation of biotic response, including fish, macroinvertebrates, and mussels.

## ROTENONE MANUAL AND PISCICIDE CLASS

As a condition of reregistration by the U.S. Environmental Protection Agency (EPA) for rotenone products, the Fish Management Chemicals Subcommittee (FMCS) of AFS has completed a draft of the *Rotenone SOP Manual*. It is available as a series of PDFs on the AFS website that can be downloaded at <http://www.fisheries.org/proofs/rotenone/sop.html>. The *Rotenone SOP Manual* provides guidance on preparing for and applying rotenone for managing fish populations by public agencies. The manual is meant to be used in conjunction with labels that are being rewritten for clarification and to reflect the changes requested by EPA. The manual is not labeling but is to provide guidance in complying with the revised rotenone labels. The manual contains background information on rotenone, training, safety, project planning procedures and standard operating procedures for rotenone treatments. The *Rotenone SOP Manual* was sent to the EPA and nine peer reviewers in state and Federal fish and wildlife agencies in mid-August. We have asked for the reviews to be completed no later than October 5, 2009. Our hope is to have a completed document by the end of 2009.

AFS has begun planning for another piscicide class *Planning and Executing Successful Rotenone & Antimycin Projects*. The piscicide class will likely be held in May 2010 in Logan, Utah. The class is being revised to reflect the changes in rotenone use and the new the *Rotenone SOP Manual*. An announcement for the class will be posted on the AFS website in January 2010.

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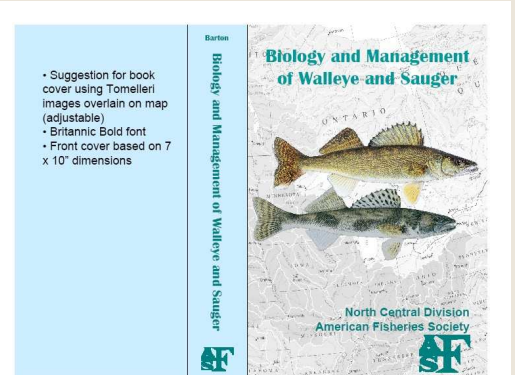
## Walleye Book

For those that are not aware of the project, the Walleye Technical Committee (WTC) is producing a book entitled "The Biology and Management of Walleye and Sauger" that will be published by the American Fisheries Society Books Department. Dr. Bruce Barton, the managing editor, has been working diligently over the past 1.5 years with a collection of great authors and editors. First drafts for most chapters have been submitted and are the process of being reviewed.

Although it is unlikely that we will meet our self-imposed Dec 31, 2009 deadline for completing the manuscript, we believe that a good product arriving a little late will be superior to an on-time product that was rushed through. Thanks to all who have contributed towards this project, especially the Fisheries Management Section who made a considerable contribution

towards the production of this book.

- Patrick Hanchin



## Training Available!!!!!!

### Using Acoustic Tags to Track Fish

4-5 February 2010, Seattle, WA USA

This short course addresses all aspects of tracking fish movement (and other aquatic life, such as eel, shrimp, crab) with acoustic tags, including three-dimensional tracking with sub-meter resolution. Acoustic tags are effective for estimating survival, monitoring migration patterns, and observing behavior. This course includes a variety of applications and course manual is included. \$300.00 USD per student



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### Using Hydroacoustics for Fisheries Assessment

11-12 February 2010, Seattle, WA USA

The hydroacoustic short course covers mobile and fixed-location survey techniques, and subjects include basic hydroacoustic theory, deployment logistics, data collection and processing, as well as typical results. Hydroacoustics are effective tools for enumeration, detecting presence/absence, revealing abundance and distribution, as well as trajectory patterns. Split-beam, single-beam, and multi-beam frequency techniques are discussed in detail.

**AFS FISHERIES MANAGEMENT SECTION**

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