



The Tributary



A Newsletter of the Western Division, American Fisheries Society

Volume 27, No. 3, November 2003

"Native Fish Management: Policies, Politics and Practicalities"

Final Call for Papers for 2004 Annual Meeting

The 2004 Annual Meeting of the Western Division of the American Fisheries Society is being co-hosted by the Colorado/Wyoming and Bonneville Chapters. The 10th Annual Whirling Disease Symposium will be held in conjunction with the meeting. The meeting will be held in sunny Salt Lake City, Utah, at the Little America and Grand America Hotels from Sunday, February 29 through Thursday, March 4, 2004. The meeting's theme will be "Native Fish Management: Policies, Politics and Practicalities." The plenary session and a number of symposia sessions will focus on native fish management. Some of these symposia include Western Native Fishes, Research and Management of Western Native Inland Trout, and Coastal Cutthroat Trout. However, 20 symposia sessions, at least 4 continuing education workshops, and a poster session are being organized, so there is sure to be something for everyone at this meeting.

Detailed information related to the 2004 annual meeting can be found on the Western Division web site at http://www.wdafs.org/meet/2004/meet_2004.htm.



Little America Hotel, Salt Lake City, Utah

This site will be updated regularly and will soon contain information related to meeting registration, local accommodations, student information, continuing education, recreational activities, socials and special events, and the trade show. Check it out periodically and make plans to join us in Salt Lake City in 2004.

--The final deadline for submitting an abstract is January 10, 2004--

Submitting Abstracts for Symposia Presentations, Contributed Papers or Posters

Contributed papers and symposia presentations should be prepared as MS Word or WordPerfect files in 12 point, Times New Roman font, left justified only, and include all of the following:

1. A brief but descriptive title.
2. A list of all authors, their addresses, telephone and FAX numbers, and e-mail addresses. Presenters must be clearly identified.
3. An abstract of 200 words or less. Although a brief (< 200 word) abstract must be submitted for the bound program, extended abstracts and papers will also be accepted. These will be provided to all meeting participants on a CD.
4. If submitting a presentation, indicate the symposia session you would like to contribute to or indicate "Contributed paper".
5. Clear indication of preference for either an oral or poster presentation. For an oral presentation, indicate the presentation type – either 2x2 slides or computer presentation using an LCD projector and PowerPoint or Corel Presentations.
6. Clear indication if presenter is a student (therefore eligible for Best Student Paper Awards).

Free standing poster boards will be provided. Posters must not be more than 47" wide or 47" tall. Posters will be attached to poster board using thumb tacks. Poster set up will take place from 4-11 pm on Feb. 29 and 6 am to noon on Feb. 30.

Abstract Example

Please follow this format for abstract submission:

Title: Remnant populations of Yellowstone cutthroat trout in streams of the Bighorn National Forest, Wyoming.

Authors: W.H. Bradshaw-Presenter, Wyoming Game and Fish Department, P.O. Box 6249, Sheridan, WY, 82801, 307-672-7418 (W), 307-672-0594 (F), email: bill.bradshaw@wgf.state.wy.us; K.G. Gelwicks, Wyoming Game and Fish Department, 528 S. Adams St., Laramie, WY, 82070, 307-745-5180 (W), 307-745-8720 (F), email: Kevin.gelwicks@wgf.state.wy.us.

Abstract: This statement will be used to evaluate and prioritize selections for inclusion in the 2004 program. Problem statement, issue significance, objectives, findings, and conclusions, should be relayed in 200 words or less.

Session: Western Native Fishes or Western Inland Cutthroat Trout.

Preference: Oral presentation preferred with slides/poster session acceptable.

Student: No.

All contributions must be submitted electronically in either of two ways:

1. E-mail to david.zafft@wgf.state.wy.us with paper/poster abstract attached as an MS Word or WordPerfect file.
2. Submit on a 3.5 in diskette formatted in either MS Word or WordPerfect to:
WDAFS Program Committee
David Zafft
528 S. Adams St.
Laramie, WY 82070

We will acknowledge receipt of your submission by

(continued on page 8)

The Tributary is distributed to 3,600 WDAFS members and exists as a forum to present fisheries-related information. The editor is Mary Whalen. If you have information you would like to have included in The Tributary, please contact us at;

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Submissions for the next issue of The Tributary are due by December 30, 2003.

WDAFS on the web: <http://www.fisheries.org/wd/>

President's Message - "I follow in the footsteps of giants"

Did you ever feel like you were a small and friendly rainbow trout surrounded by scholarly Salmon??? Well, that is certainly the way I feel being the latest version of the Western Division's President. I follow the likes of Bill Bradshaw, Eric Knudsen, and Don MacDonald...all still very active and all tough acts to follow. They may think that their tour of duty is over, but not so fast, my good friends...we have much to accomplish. I plan to lean on each and every one of them in the coming year for guidance and knowledge. I hope we all understand how fortunate we are to have these gentlemen as our leaders.

In putting together my WDAFS 2003-2004 Program of Work, I found it impossible to re-invent this year's areas of focus for our fine Division. Our past leaders have laid out a nice roadmap to follow; deviation would be silly. Although I have fine tuned some areas to meet our changing needs, our Division's Executive Committee formalized and approved this program of work at our latest WDAFS ExCom Retreat in October.

I. Introduction

In 1999, the AFS Governing Board adopted the Strategic Plan of the American Fisheries Society (SP-AFS). The strategic plan was intended to guide the Society's activities over the period from 1999 thru 2004. Although the strategic plan was developed for the American Fisheries Society as a whole, all AFS units are encouraged to adapt the strategic plan to meet their needs, particularly emphasizing those sub-goals and strategies that are consistent with unit priorities. In addition, all units are encouraged to provide reports to the Governing Board that refer to progress on one or more elements of the strategic plan. With this in mind, the following draft program of work for the coming year focuses on three major goals that were articulated in the SP-AFS, including:

- Promote Aquatic Stewardship and Increase Public Perception of our Science;
- Provide Excellent Member Services, and;
- Provide Leadership in Information Transfer and Outreach.

The strategies and activities that are proposed to address the interests and needs of the members of the WDAFS are described in the following three elements of the Program of Work.

II. Aquatic Stewardship

To be more effective in the public policy arena and increase public perception of our Society, the WDAFS needs to enhance dialogue and provide leadership on key issues that are currently influencing fisheries and aquatic resources. Some of the key strategies and indicators of success for promoting effective aquatic stewardship over the coming year and beyond should include:

Strategy from SP-AFS Subgoals AS 1 and AS 2 - Efforts will highlight the importance of biodiversity, watershed management, habitat conservation and educating the public/lawmakers about fisheries sustainability and sound stewardship of aquatic ecosystems.

Indicators of Success:

- Standing and *Ad Hoc* Committees have been created to address key aquatic stewardship issues in western North America, including the Environmental Concerns Committee, Fisheries

Sustainability Committee, Riparian and Watersheds Committee, Policy Review Committee, Upper Basin Pallid Sturgeon Recovery Workgroup, Non-Native Fish Introductions Workgroup (Pike), Student Unit Formation Workgroup, and Western Native Fishes Committee;

- A Symposium on "The Use of Science in Public Policy" has been convened in conjunction with the 2004 Annual Meeting, further info pending;
- The status of native fishes in western North America is being evaluated by collating, reviewing and evaluating published data and information. Symposia on this topic will be presented at our 2004 Annual Meeting in Salt Lake City, Utah;
- The WDAFS will participate in the proposed American Fisheries Society Ad hoc committee to examine past AFS Capitol Hill efforts and future collaborations with other environmental organizations for future briefings to congressional representatives in Washington, D.C.;
- Continued support of our now annual ExCom Retreat to identify emerging issues and develop common strategies for addressing them, and;
- Support appropriate projects that advance aquatic stewardship in western North America through the WDAFS Grants Funding Program.

III. Member Services

The strength of the WDAFS is in its members. Therefore, it is incumbent upon WDAFS to meet the needs of our members if it is to maintain and enhance the relevance and future success of the organization. Some of the key strategies and indicators of success to support WDAFS members in 2003/2004 include:

Strategy from SP-AFS Subgoals MS 1, MS 2, MS 3, and MS 4: Meeting efforts will revolve around professional development opportunities and continuing education classes. The WDAFS should provide primary scientific and technical information on fisheries and aquatic resource topics from our wide array of fisheries professionals in western North America and Mexico. Continue to enhance electronic services and communications to all AFS members.

Indicators of Success:

- Student access to WDAFS and Parent Society Meetings has been enhanced by providing funding through the Western Division's Eugene Maughan Scholarship Fund, Sustainable Fisheries Foundation's William Trachtenburg Scholarship Fund and abundant opportunities have been provided for student volunteer participation and monetary compensation at the 2004 Annual Meeting;
- Communications with the Chapters has been maintained and enhanced by convening monthly conference calls;
- WDAFS Officers will make every attempt to attend the Annual Meetings of each Chapter (or meet with Chapter officers at other times) and communicate information on WDAFS activities;
- Broader involvement in WDAFS committees has been solicited through direct communications with members and other means;
- Marine scientists will be actively recruited to participate in the 2005 Annual Meeting in Anchorage, Alaska;
- Registration fees at WDAFS Annual Meetings have been established at levels that encourage non-members to join the Society;
- Mexican scientists have been actively recruited by

facilitating their participation in Annual Meetings and formation of a Mexico Chapter;

- Members have been provided with abundant opportunities to share information and refine their communication skills by presenting papers and posters at the 2004 Annual Meeting;
- Timely access to information relevant to WDAFS members has been provided through delivery of the Tributary, further development of the WDAFS Web Site, and application of the WDAFS List Server, and;
- An array of continuing education opportunities have been offered to members during the 2004 Annual Meeting.

IV. Information Transfer and Outreach

The members of WDAFS are recognized by decision-makers and natural resource professionals as essential sources of science-based information regarding the conservation, management, and sustainable development of fisheries and aquatic ecosystems. Some of the key strategies and indicators of success to facilitate information transfer and outreach include:

Strategy from SP-AFS Subgoals ITO 1 and ITO 2 - Enabling our membership to be viewed as aquatic resource professionals by employers and the public. Improve visibility and AFS image as a scientific organization and information source.

Indicators of Success:


- Partnerships with organizations that share our concern about the future of fisheries and aquatic resources in western North America have been maintained and further developed;
- The visibility of WDAFS as a scientific organization and information source has been further improved;
- The WDAFS Web Site has been further developed to provide timely access to science-based fisheries and aquatic resource management information;
- The Hutton Program has been actively supported and further developed to provide opportunities disadvantaged high school students to participate in the fisheries and aquatic ecosystem programs;
- WDAFS has participated actively in the development of public policy on key issues affecting fish, fisheries, and aquatic ecosystems in North America;
- The public has been educated about key fisheries and ecosystem management issues by preparing and disseminating WDAFS position statements and other means, and;
- Links between AFS and Stakeholder web sites have been further developed.

There you have it. As you can see, this program of work continues to be ambitious and follows our continuing focus on AFS involvement, WDAFS/Chapter inclusiveness, effective committees, and aquatic stewardship/outreach. However, we still have far to go and we need your help. The Western Division is blessed with many talented professionals, but some of you we never hear from. I encourage you to look at our WDAFS website and see where you can make a difference. Join one of our many committees and stay involved. Pursue inclusion in our Division's ExCom by becoming a Division or Chapter officer. Better yet, send me an email (tmcMahon@gf.state.az.us) with your interests and/or expertise and I'll help you find the right venue for your talents. We need you as much as you need the AFS!!!

WDAFS Committees

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Past President Don MacDonald MacDonald Environmental Services and the Sustainable Fisheries Foundation #24 - 4800 Island Highway North Nanaimo, BC V9T 1W6 Canada Phone (250) 729-9623 Fax (250) 729-9628 sff@island.net	Nominating Representative Kathryn Staley Dept. Fish and Wildlife 104 Nash Hall, Oregon State University Corvallis, OR 97331-3803 Phone (541)737-1972 Fax (541) 737-3590 kathryn_staley@orst.edu		



2003-2004 EXCOM Members (from left to right): Monica Hiner (secretary/treasurer), Joe Margraf (Vice President), Lynn Starnes (President Elect), Tom McMahon (President) and Don MacDonald (Past President).

Call for Papers & Posters Wild Trout VIII Symposium

September 20-22, 2004
Yellowstone National Park,
Old Faithful Inn

Symposium Theme: "Working Together to Ensure the Future of Wild Trout:"

The first International Wild Trout Symposium was held in 1974 and symposia are now being held at 4-year intervals. The objectives of these symposia have focused on the conservation and restoration of wild trout resources. These symposia have sought to attract fishery professionals, natural resource conservationists, non-governmental conservation groups, and other individuals interested in wild trout.

The goals of the Wild Trout VIII Symposium are to bring together a broad and diverse audience representing governmental entities, non-governmental conservation organizations, media representatives, educators, anglers, guides, and business interests associated with trout fisheries to share their viewpoints on wild trout management and related public policy, to exchange technical information, and to seek ways of cooperatively advancing the conservation of wild trout resources. To this end, the Program Committee is soliciting abstracts for presentations and posters.

The Program Committee is particularly interested in abstracts related to the following topics:

- Balancing Management of Native, Introduced, and Invasive Species. *How can we accommodate conflicting philosophies of managing for native species? What are the trade-offs between managing for native species and managing for introduced species with potentially more recreational value?*
- Watershed-scale Approaches to Enhancing Trout Habitat and Reducing Non-point Source Pollution. *What is the role of watershed associations and how are they funded? How might government help but not control? Where are the good case histories?*
- Communicating Fishery Science to the Public. *How well are agencies communicating and how might they do better? How effective is the media and what might government learn from them?*
- Regulations: Reality vs. Expectations. *How effective are regulations in protecting wild trout? How do we balance harvest with catch-and-release interests? How do anglers and guides influence regulation strategies?*

Abstracts related to other topics are welcome. Additional session topics may be added and at least one session will consist of contributed papers.

Authors are encouraged to consult the Wild Trout VIII web page (www.wildtrout8.com) for guidelines for abstract, poster, and manuscript preparation.

Abstracts must be submitted by **February 1, 2004**.

If possible, abstracts should be submitted electronically to Robert Carline; Word Perfect or MS Word files are acceptable.

Authors of presentations chosen for inclusion in the symposium are expected to submit a complete manuscript of their paper by **August 1, 2004**. All papers will be published in a symposium proceeding. Abstracts for

posters will be included in the symposium proceeding.

For additional information and inquiries, contact the Program Committee Co-chairs.

Robert Carline

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Fax: 814-863-4710
Email: rcarline@psu.edu

Jeffrey Dillon

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Fax: 208-465-8467
Email: jdillon@idfg.state.id.us

Pacific Northwest Ecosystems Then and Now: From Resource Development to Watershed-Based Management

November 1st – 3rd, 2004 - Dolce Skamania
Lodge - Stevenson, Washington

A Regional Forum for Sharing Information, Engaging in Discussions, and Furthering Partnerships Supporting Natural Resource Management in Pacific Northwest Watersheds.

Convened by the **Transboundary Group, North Pacific International Chapter-American Fisheries Society, Sustainable Fisheries Foundation**, and others.

Conference Will Include:

Plenary Sessions and Technical Sessions
Poster and Exhibit Sessions
Histories of Pacific Northwest U.S. and Canada Resource Development
Interactive Workgroup Sessions
Policy and Technical Exchanges
NPIC-AFS Raffle and Awards

Conference Objectives:

The conference will address historic and contemporary scientific, policy and legal issues regarding natural resource use and management of river basins in the Pacific Northwest United States and British Columbia, Canada. The lessons learned and information shared will support the development of more integrated, sustainable natural resource management models in the Columbia River Basin, Georgia Basin - Puget Sound, and adjacent Canada/U.S. basins. The conference will:

1. Foster a shared understanding of science and policy guiding the past two centuries of resource development in watersheds throughout the U.S. Pacific Northwest and B.C., Canada;
2. Promote a shared understanding of contemporary efforts to assess, restore, monitor and manage natural resources in watersheds throughout the U.S. Pacific Northwest and B.C. Canada;
3. Encourage a transition toward ecosystem-based management of natural resources within these basins by advancing technical and policy guidance supporting contemporary efforts;

4. Advance the prospects for sustainable use of aquatic and related natural resources; and

5. Cultivate strategic partnerships among First Nations and US Tribes, government agencies, research scientists, resource policy decision-makers, historians, change agents, and other interested parties through informative and collaborative dialogues supporting the development and implementation of watershed-based resource management plans.

2004 Western Division Chapter Meetings

The following are dates, locations and contact information for Chapter Meetings in 2004. Chapter web sites are in italics.

Alaska

2004 Meeting TBD
Molly Ahlgren, (907) 747-5255
<http://www.fisheries.org/afs-ak/>

Arizona - New Mexico

5-7 February, Safford, AZ
Doug Duncan, (520) 670-4860
<http://www.fisheries.org/aznm/>

Bonneville

29 February - 4 March, Salt Lake City, UT
Eric Wagner, (435) 752-1066
<http://www.fisheries.org/bonneville/>

California - Nevada

21-24 April, Redding, CA,
Tina Swanson, (530) 756-9021
<http://www.afs-calneva.org/>

Colorado - Wyoming

29 February - 4 March, Salt Lake City, UT
Eric Wagner, (435) 752-1066
<http://www.fisheries.org/co-wy/>

Hawaii

18 December, 2003 HI
Paul Dalzell, Paul.Dalzell@noaa.gov
<http://home.hawaii.rr.com/ikehara/afshi/index.html>

Humboldt

21-24 April, Redding, CA,
Dana R. McCanne, (707) 825-7350 ext. 3
<http://www.northcoast.com/~humbafjs/>

Idaho

14 - 16 February, Moscow, ID
Vaughn L. Paragamian, vparagam@idfg.state.id.us
<http://www.fisheries.org/idaho/>

Montana

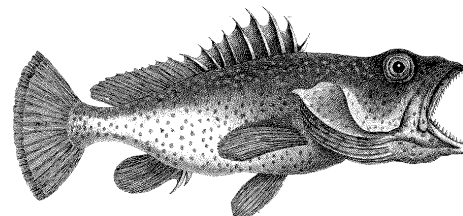
4-6 February, Whitefish, MT,
Clint Muhlfeld, (406) 751-4542
<http://www.fisheries.org/AFSmontana/>

North Pacific International

1-3 November, Stevenson, WA
John Monahan, (509) 457-7112
<http://www.fisheries.org/npic/>

Oregon

18-20 February, Sunriver, OR,
Doug Olson, (360) 696-7605
<http://oregonstate.edu/groups/orafs/index.html>



22nd Annual Salmonid Restoration Conference and 14th International Salmonid Habitat Enhancement Workshop

“Collaborative Watershed Efforts for Salmonid Recovery”

First Call for Session and Presenter Abstracts

The 22nd Annual Salmonid Restoration Conference and 14th International Salmonid Habitat Enhancement Workshop will be held in Davis, California at the Veteran's Memorial Center from **Wednesday, March 17th through Saturday, March 20th, 2004**. The Salmonid Restoration Federation will host this conference entitled “Collaborative Watershed Efforts for Salmonid Recovery” in collaboration with the American Fisheries Society-Fisheries Management Section and Trout Unlimited.

The first two days will be filled with full-day workshops and field tours. A half-day, theme related plenary session will be followed by 1½ days of technical and policy concurrent sessions. This conference focuses on a broad range of salmonid and watershed restoration topics of concern to restoration practitioners, agency scientists, and land planners and owners.

Proposals and abstracts for sessions, field tours, and workshops are encouraged and topics of interest include:

Workshops of interest:

- Fish-friendly agricultural practices
- Effectiveness and validation monitoring of restoration projects
- Urban creek restoration and water conservation efforts
- Advanced GIS analysis for watershed management
- Increasing Your Watershed and Fish Restoration Organization's Capacity: Grant-writing, Technical Assistance, and Permitting.
- Instream Flow Requirements for Salmonids

Session of interest:

- Conservation hatchery practices and research
- Opportunities for restoration through the FERC relicensing process
- Nutrient Enhancement
- In-channel and off-channel salmonid habitat enhancement projects
- Case Studies in Collaborative Restoration Programs
- Global salmon restoration and conservation efforts
- Diversion and culvert replacements, fish bypass structures
- Non-native species: direct and indirect interactions with salmonids
- Development and implementation of standards-based salmonid education programs.

Field tours of interest:

- Putah Creek restoration efforts
- Cache Creek, Yolo bypass and Wetlands: Flood control and urban runoff with fish in mind
- Village Homes and Davis, CA: suburban watershed planning
- Consumnes and Mokelumne River restoration programs
- Sacramento urban streams and American River restoration efforts

Final deadline for session abstracts and a summary of recommended presenters is October 24, 2003. Successful session proposals include presentations that address salmonid restoration from a fishery resource, physical watershed processes, or broad policy perspective. Sessions should be developed with 5 to 7 speakers, with talks lasting 25 minutes with a 5-minute question period. Presentations on projects which are completed and have a monitoring and assessment component are encouraged. Panels can be incorporated into session design. The Agenda Coordinator will work with each Session Coordinator (SC) towards confirming presenters by November 15 and soliciting speaker abstracts. SC's and speaker's conference fees are waived and they receive a commemorative conference t-shirt.

Format for submitting Session and Presentation Abstracts or Posters

Session and presentation abstracts should be prepared as MS Word or WordPerfect files in 12 point, Times New Roman font, and left justified only.

Each abstract should include:

1. Title
2. A list of all the authors, their affiliation, and contact information. Presenters must be clearly identified
3. An abstract of 500 words or less. Extended abstracts and papers will also be accepted, for distribution via the web and/or CD.
4. An indication of what concurrent session you would like to contribute to or indicate “Poster.” Include preference of presentation type- 2x2 slides or Powerpoint LCD projector
5. Indicate if the presenter is a student

All contributions, including Session and Presentation Abstracts, should be submitted electronically by email to jaisrael@ucdavis.edu and srf@northcoast.com with abstract attached as an MS Word or Wordperfect file. Receipt of your submission will be acknowledged by email and forwarded to the correct session chair. Please contact Josh Israel regarding workshops and field tours. For any additional information, please contact Josh Israel at (530) 848-9073 or jaisrael@ucdavis.edu.

Final deadline for presentation abstract submission will be December 4, 2003.

For more information contact:
Josh Israel
University of California, Davis
530-752-6351
or visit the web site of the Salmonid Restoration Federation at www.calsalmon.org

The Hutton Junior Fisheries Biology Program

The third year of the Hutton Program was a resounding success! Fifty-four high school students throughout the United States and in Puerto Rico spent an exciting summer experiencing the worklife of a fisheries biologist. Although it is a relatively new program for AFS, the Hutton is important to the future of the profession. The ultimate goal of the program is to recruit young people into a career in fisheries, particularly those groups underrepresented in the profession. These students would eventually be able to fill some of the vacancies created by a retiring workforce. The Hutton has enhanced the lives of the students and mentors it served over the past three years, and it has the potential to provide the profession with a new generation of fisheries biologists.

Mentor applicants for the 2004 Hutton Program are encouraged to apply as soon as possible. This is your chance to contribute to the development of the youth in your area and to your profession. For more information on the Hutton Program and to download 2004 mentor and student applications, visit the AFS website at <http://www.fisheries.org/Hutton.shtml>. If you need additional information, please contact Jan Lubeck at jlubeck@fisheries.org or Christine Fletcher at hutton@fisheries.org.

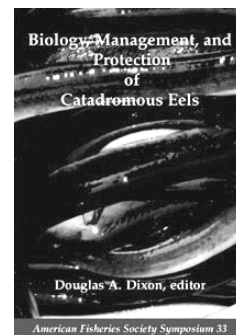
NEW Releases from AFS:

Order your copies now on these important subjects:

Biology, Management, and Protection of Catadromous Eels

Douglas A. Dixon, editor

Effective management and protection of eels are an increasing challenge to resource agency managers and operators of water resource projects, such as hydroelectric operations. The rapid evolution of technical information requires opportunities for information exchange and dialog such that management methods, protection needs, and protection measures can be effectively determined.



(continued on page 6)

Help Wanted

The **International Fisheries Section** is seeking self-motivated and enthusiastic people interested in promoting international projects and initiatives from the American Fisheries Society.

Numerous exciting opportunities exist. No experience necessary.

Send your inquiries to rmeyer@att.net or go the section web site, <http://161.55.120.140/foci/ifs/index.html> for more information.

Needed

- 1) People to run for elected office. Elections will be held in 6 months and candidates are needed for the President and Secretary-Treasurer positions.
- 2) Newsletter Editor
- 3) Chair of the Carl R. Sullivan International Member Program
- 4) International Endowment Fund Committee
- 5) Coordinate journal donations

NEW Releases from AFS (cont.)

This book will be the principal source for scientific information on catadromous eels. There is no other single source for such information; in fact, not since 1977 has a book or edited volume of technical papers including eel biology been produced.

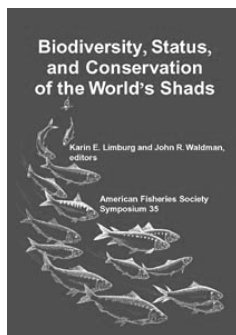
AFS Symposium 33
388 pp., hardcover, August 2003
Stock Number: 540.33
List Price: \$75
AFS Member Price: \$53
ISBN 1-888569-42-5

To order:
Online: www.fisheries.org/cgi-bin/hazel.cgi
Phone: (678) 366-1411, or
Fax: (770) 442-9742
Email: afspubs@pbd.com

Biodiversity, Status, and Conservation of the World's Shads

Karin E. Limburg and John R. Waldman, editors

As the seminal volume to address shad status, biology, and conservation, the proceedings of "SHAD 2001: A Conference on the Status and Conservation of Shads Worldwide," provides a comprehensive review of the world's shads. Shads are an entire subfamily of herrings, the Alosinae, which is composed of more than 30 species across six continents. Most shads are anadromous and face anthropogenic pressures in both the freshwater and marine environments. These include the multiple, compounding stresses of overharvesting, pollution, and habitat loss.



This title provides the most current, fundamental biological information on the group; describes the status of individual species; synthesizes global trends in shad populations; and develops conservation strategies to broaden the understanding of shads for fishery managers, researchers, and students alike.

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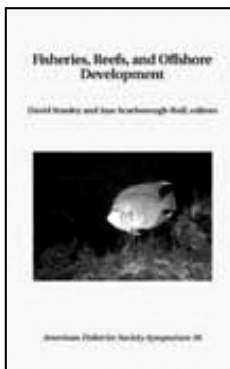
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Fisheries, Reefs, and Offshore Development

David Stanley and Ann Scarborough-Bull, editors

This volume is the proceedings of the Gulf of Mexico Fish and Fisheries meeting, focusing on the impact and effects of oil and gas development on fish and fisheries in the Gulf of Mexico. The book covers (1) an evaluation of

natural and artificial reef productivity, (2) fisheries management in the Gulf of Mexico, (3) a compilation of offshore petroleum platform assemblage research, (4) the impact of outer continental shelf (OCS) development on the marine community, (5) OCS and deepwater marine ecology, and (6) artificial reefs and fisheries management.



The volume provides new information and research and updates the 1991 AFS symposium "Fisheries and Oil Development on the Continental Shelf."

AFS Symposium 36
238 pp., paper, August 2003
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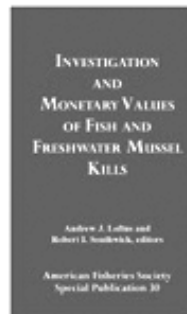
Investigation and Monetary Values of Fish and Freshwater Mussel Kills

Robert I. Southwick and Andrew J. Loftus, editors

This book is an update and expansion of the widely accepted monetary values of fish that have been published by AFS since 1975 (last updated in 1992 as Special Publication 24). This publication has been adopted as the legal basis for restitution or fines in more than half the states and has been upheld in numerous legal challenges.

In this current version, freshwater mussels are included for the first time. The publication contains comprehensive methods for assessing fish kills and freshwater mussel kill events and for assessing restitution based on replacement cost for organisms lost in the kill. Tables containing updated replacement cost values for most major fish species that are cultured and for all freshwater mussel species in the U.S. are included.

This book is a must for anyone involved with fish or freshwater mussel kills, propagation, and water pollution policy.



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Suggested Procedures for the Detection and Identification of Certain Finfish and Shellfish Pathogens, 5th Edition, 2003

Includes the USFWS/AFS-FHS Standard Procedures for Aquatic Animal Health Inspections

Originally published in loose-leaf format as the *Blue Book*, this updated, searchable CD contains both the familiar chapters of the "Suggested Procedures for the Detection and Identification of Certain Finfish and Shellfish Pathogens" and the newly revised "Standard Procedures for Aquatic Animal Health Inspections" co-authored by the U.S. Fish and Wildlife Service and the AFS Fish Health Section. This new format allows the user to easily access information and contains numerous color photographs and video clips. Published by the AFS Fish Health Section.



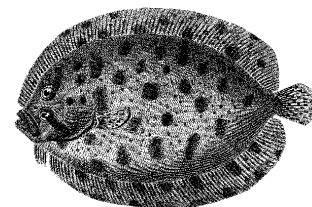
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Seeking Western Division 2004 Award Nominations

Please submit nomination statements, along with any pertinent supporting documents to Don MacDonald, MacDonald Environmental Services and the Sustainable Fisheries Foundation, #24 - 4800 Island Highway North, Nanaimo, BC V9T 1W6, Canada, or by e-mail sff-mesl@island.net by **January 31, 2004**. Here is your opportunity to help honor someone you have always admired professionally. The AFS Western Division Awards Committee is seeking nominations for awards that will be presented at our 2004 annual meeting in Salt Lake City. The Division has five awards that recognize various outstanding contributions to AFS, our profession, and fisheries research, conservation, and management. You can check out past and present award winners at: http://www.wdafs.org/committees/awards/award_winners.htm

The awards summarized below are for individual and group achievements within the Division, some of which are given to non-AFS members. Please consider a nomination within the following categories:

Award of Excellence. This is the most prestigious award offered by the Western Division and it is intended to recognize sustained professional excellence. It is given annually to an AFS member who has demonstrated outstanding achievement and exceptional competence in fishery resource applications through monumental works, new methodologies, or multiple successful contributions that benefit our resources and profession. Successful nominees have usually excelled in research or management programs at the regional, national, or international levels. Other examples include fresh, innovative approaches to improving our understanding of aquatic resources, and imaginative and successful programs in education at any level of teaching.

Award of Merit. This award is given to an AFS member(s) who has made a regionally significant and worthy contribution to our Division, our profession, or our fishery resources.

Award of Special Recognition. This award is given to an individual or to an entity making a significant contribution to the development and success of the Western Division.

Robert Borovich Conservation Achievement Award. This award is given annually to an individual who has significantly contributed to fishery conservation within the Division. The individual may be a non-member of AFS.

Conservation Achievement Award. This award is typically given to an entity (such as an agency, tribe, or organization) that has demonstrated a significant contribution to the conservation of fishery resources within the Division.

The Awards Committee needs your help in identifying qualified candidates, and we hope you will consider this an opportunity to become involved and ensure that your peers receive the recognition they deserve. Please take a moment and think about people you know whose significant contributions and accomplishments meet the Division's award criteria, and who should be recognized.

Please submit nomination statements, along with any pertinent supporting documents to Don MacDonald, MacDonald Environmental Services and the Sustainable

Fisheries Foundation, #24 - 4800 Island Highway North, Nanaimo, BC V9T 1W6, Canada, or by e-mail sff-mesl@island.net by January 31, 2004.

In addition to the awards described above, the Division also awards the **WDAFS Outstanding Chapter Award**. The name says it all. The Division winner is entered in the Society's competition for Outstanding Chapter. Our Division has been very successful in this competition. The award winner for the Division 2003 was the California/Nevada Chapter. The application for Chapter of the Year is available in Word, Wordperfect and PDF formats on the WDAFS web site (http://www.wdafs.org/committees/awards/ChapterOTY/2003/2003_chapter_of_the_year_application.htm).

Be sure to check out the announcement below about the **WDAFS Riparian Challenge Award** or on the web at <http://www.wdafs.org/committees/awards/riparian.htm>

RIPARIAN CHALLENGE

Seeking Entries for the 2004 Riparian Challenge

The Riparian, Watersheds and Habitat Committee is seeking entries for the Western Division's 2004 Riparian Challenge Award. The Forest Service, Bureau of Land Management and other conservation agencies in the states encompassed by the Western Division are invited to participate in the Riparian Challenge. Winners will receive the Western Division's Award of Excellence in Riparian Management. The purpose of the award is to:

- Encourage the Bureau of Land Management, Forest Service and other conservation agencies to strive for excellence in riparian and watershed habitat management,
- Encourage agencies to progress in on-the-ground accomplishments which when added together throughout the West, will significantly improve riparian systems,
- Recognize managers and resource specialists for their efforts in maintaining, restoring, and improving riparian and watershed ecosystems.

We hope to receive a number of quality nominations from USFS, BLM and other conservation agencies this year representing their efforts in riparian management. If you are aware of a project that should be considered, please ask the appropriate USFS, BLM or the appropriate conservation agency to submit an entry form.

Entry Format and Criteria for Evaluation

The Riparian Challenge was established as an annual event to encourage continued on-the-ground accomplishments in riparian habitat management in states encompassed by the Western Division of the American Fisheries Society. Entries must document riparian habitat management efforts where resource values will be or have been improved within a watershed. Examples of these resource values include, but are not limited to:

- Streambank stability
- Water quality
- Vegetative diversity
- Stream flows
- Subsurface water supplies
- Aquatic/fish habitat
- Terrestrial wildlife habitat
- Forage production
- Recreation/aesthetic qualities
- Education

Entries must be type written and must not exceed 4 pages of text (not including photographs and maps). Land use

plans, research projects, handbooks or technical guidelines are not eligible. These are products that are not actually on-the-ground accomplishments or achievements. Electronic submissions are strongly encouraged. If submitting hard copies, please submit **four complete copies** (including photographs). Include the following information on the first page of each entry:

- a) Agency Name
- b) Name of BLM Field Office or Resource Area or name of USFS Ranger District and National Forest
- c) Mailing Address
- d) Primary contact person
- e) Phone number
- f) E-mail address
- g) 1-3 other contacts familiar with the project and telephone numbers
- h) Project plan or name
- i) Date the plan was initiated and date project was or will be completed

Each typed entry should accurately describe the project, including background, objectives and results. Include photographs or scanned images (no slides) adequate to describe the project. Maps can also be included. The following questions should be answered within the text of each entry

- Which resource values were improved?
- Which species of wildlife will benefit from the project?
- Does the project address habitat for threatened or endangered species?
- How many stream miles and/or acres of riparian habitat were improved?
- Did the project involve an interdisciplinary process? Who was involved?
- Did the project involve multi-agency cooperation? Federal government, state government, private landowners, corporations, conservation groups, etc.

Winners will be selected in the following categories (depending on the number of submissions).

BLM

Best Resource Area or Field Office

Forest Service

Best Ranger District

Other Conservation Agencies

Best Riparian Project

Winners will be selected on the basis of total points received from the judges for all projects/plans submitted by an office. Points will be awarded based on the resource protection afforded by each project/plan. Small projects are important and valuable; a number of small projects within a field office, resource area or district can equal the point total of an extensive multi-resource cooperative management effort. The Riparian, Watersheds and Habitat Committee of the Western Division of AFS will make selections. The 2004 Awards of Excellence in Riparian Management will be presented at the Western Division's annual business meeting in Salt Lake City, Utah on March 2 at noon.

Completed entries should be submitted to the Western Division Riparian Committee Chair at the address listed below and must be received by January 9, 2004.

Hilda Sexauer

Riparian Challenge Committee Chair

PO Box 850

Pinedale, WY 82941

307-367-2147 ext 26 or 307-367-4352

hilda.sexauer@wgf.state.wy.us

Please contact Hilda if additional information is needed.

2004 Western Division Annual Meeting Final Call for Papers (continued)

e-mail and forward it to the appropriate symposia chair. For additional information, please contact Dave Zafft at (307) 745-5180 ext. 235 or david.zafft@wgf.state.wy.us.

Symposia Sessions

There are 19 symposia sessions that are being organized for the meeting. Papers that are not well suited for one of these sessions will be presented in the Contributed Papers session.

Members are encouraged to consider submitting a paper on any work that they may have done on native species to the Western Native Fishes Symposium; however, papers on the occurrence, distribution, status, or taxonomy are preferred. Some papers dealing with these topics may be submitted for other symposia (Research and Management of Western Native Inland Trout, Management of Resident Fish in the Columbia River Basin, etc.). These contributors will have the opportunity to have their papers published in the Proceedings of the Western Native Fishes Symposium by the AFS. If you have a paper that you would like to submit for this publication, but you would like to present in another session, please contact Jim Tilmant or Mark Brouder and see the Western Native Fishes Symposium announcement in this issue for details regarding manuscript preparation and submission.

Detailed descriptions of all of the symposia sessions can be found on the Western Division website at <http://www.wdafs.org/meet/2004/symposia.htm>.

Watershed Planning: Approaches, Challenges, and Strategies for Success. Don MacDonald, ssf@island.net (250-729-9623). See separate announcement in this issue.

Whirling Disease. Dave Kumlien, whirling2@mcn.net (406-585-0860). The 10th Annual Whirling Disease Symposium will be held in conjunction with the Salt Lake City meeting. The 10th Annual Whirling Disease Symposium will be held in conjunction with the Salt Lake City meeting. The goal of the session is to provide a forum in which whirling disease researchers and fisheries managers can come together to share information and experiences related to the disease. Examples of topics include: *Myxobolus cerebralis* infection in both the salmonid and oligochaete hosts, biology of the parasite, effects of ecological factors on disease severity, diagnostic methods and control options. A separate proceedings of extended abstracts will be produced for this symposium. Persons wishing to participate in this symposium should contact the Whirling Disease Foundation directly (whirling3@mcn.net).

Western Native Fishes. Jim Tilmant, jim_tilmant@nps.gov (970-225-3547) and Mark Brouder, mark_brouder@fws.gov (928-475-2554). See separate announcement in this issue.

Threats to Western Waters. Bob Pitman, bob_pitman@fws.gov, (505-248-6865 or 505-248-6471). Many aquatic invasive species threaten to spread to western waters or may already be established. The impact of invasive species on recreation, native fishes, habitats, management agencies, municipalities and local

economies is an important concern for aquatic resource managers. The linkages between pathways for species spread, management response and prevention measures and engaging stakeholders with opposing views are complex and often not well defined. Coordination across management responsibilities can improve effectiveness of agency and stakeholder response to aquatic invasive species. This symposium will describe aquatic invasive species in the west, invasive species at the door, pathways for spread, impacts to people and stakeholders, ways to prevent spread or introductions and developing coordinated responses. Some examples of cooperative efforts to address these threats include the Western Regional Panel of the Aquatic Nuisance Species Task Force (answest.fws.gov) and the 100th Meridian Initiative (www.100thMeridian.org) with increased focus on the threat of zebra mussel spread caused by Lewis & Clark re-enactment participants.

Supplementation: Measuring Effects and Predicting Outcomes. Keith Underwood, underwood@spcramer.com, (509-299-6054). Supplementation of wild populations with hatchery fish to improve wild population health is continually receiving scrutiny by scientific groups, such as the Independent Scientific Advisory Board (ISAB) of the Columbia River Basin. A primary argument of the ISAB is that supplementation is an unproven experiment. This session will focus on describing methods to measure the effect of supplementation, explore reasons for supplementation successes/failures (i.e. planning, implementation, approach to problem) and discover new model approaches capable of guiding program implementation. Information exchanged at this session will continue the discussion as to whether supplementation is a viable strategy for improving wild population abundance/health and identify a means to measure/predict supplementation outcomes.

Science in the Public Arena: The How and Why of Scientific Decision-Making. Tony Fasst, tony_fasst@r1fws.gov (503-231-6233). A facilitated group discussion moderated by Western Division President Don MacDonald will focus on an update of the AFS Best Science effort. As modeled at last year's WDAFS session, plenary speakers, parent society officers, and the audience will address issues related to the use of science and the decisions made as a result. Join us for a lively, often spirited, discussion on a topic of interest to all fishery scientists!

River Restoration in the West. Mark Holden, mholden@us.usbr.gov (801-524-3146). Riverine restoration projects have been undertaken throughout the west for decades. Early efforts focused primarily on "stream habitat improvement", often with emphasis on instream structures to provide cover or other specific habitats lacking from a stream. More recently, more holistic approaches to restoring the vital forms and functions of riverine systems have been proposed and several are being implemented. This symposium will facilitate sharing of information related to activities in the West that may guide restoration efforts in the future. Papers dealing with case histories, methods and approaches, significant projects in terms of scale and scope, and research and monitoring of implemented and ongoing projects will be considered. The symposium will also include presentations on the Provo River Restoration Project, a large-scale and comprehensive project to restore riverine/floodplain interactions and ecosystem function. A ten-mile reach of the Provo River is being restored as partial mitigation for impacts of the Central Utah Project, a large Reclamation project in Utah. Habitat restoration activities will be discussed in detail.

Reservoir Sampling and Management Strategies.

Scott Gangl, scott.gangl@wgf.state.wy.us (307-473-3415). This session is being organized to provide an environment for those who work on "flat water." Possible topics may include any related to the sampling and management of lakes and reservoirs, such as innovative sampling techniques, predator-prey interactions, regulations, bioenergetics, population dynamics, hydroacoustics, etc.

Research and Management of Western Native Inland Trout.

Kevin Meyer, kmeyer@idfg.state.id.us (208-465-8404). Much work is being performed in the western United States to preserve, protect, and manage native trout of the genus *Oncorhynchus*, and results obtained in one area or state, or with an individual species, can have broader applicability. This session is an effort to bring together current research and management of western native inland trout, including redband trout, golden trout, cutthroat trout, Gila trout, apache trout, etc. Topics will include a broad array of work on current status and management, genetics, conservation biology, extinction risk analysis, control of non-native salmonids, and hopefully a variety of other topics. It is hoped that such a session will generate some controversy, broaden our perspectives, and spur new avenues of investigation.

Management of Resident Fish in the Columbia River Basin.

David Ward, david.l.ward@state.or.us (503-657-2000 ext.402). The session will include an overview of the resident fish program, a series of technical talks concerning research on and management of resident fish such as white sturgeon, burbot, cutthroat trout and bull trout, and a panel discussion on the policies, politics and practicalities of managing resident fish in the Columbia River basin. Speakers and panelists will include state, federal, and tribal biologists from Montana, Idaho, Washington, and Oregon.

Livestock Grazing Strategies for Healthy Aquatic Ecosystems.

Don Wiley, donwiley@utah.gov, (801-491-5651). It is well documented that poor livestock grazing management can have negative impacts to aquatic ecosystems. However, recent studies regarding properly managed grazing strategies can be compatible with healthy aquatic ecosystems. In addition, aquatic habitat improvement projects have been implemented where streams have been severely degraded. Several techniques have been used to improve the overall health of aquatic ecosystems. The purpose of this symposium is to present new ideas and successful techniques that have been used across the West to improve aquatic resources. This symposium includes presentations on several topics, such as (1) how livestock grazing interacts with the hydrology and ecology of the drainage and riparian area, (2) grazing management strategies that improve the health of aquatic ecosystems and (3) recent aquatic habitat improvement projects that have improved the overall health of the riparian area, water quality, fisheries, etc. The symposium will be of interest to those engaged in management of fisheries and aquatic resources where livestock grazing has occurred or is occurring. Our ability to improve aquatic ecosystems will improve as more information is gained and shared.

Lessons for the Design of Future Salmon Habitat Restoration and Monitoring Programs.

Charlie Paulsen, cpaulsen@paulsenenvironmentalresearch.com (503-699-4115) and Ian Parnell, iparnell@essa.com, (604-733-2996). Habitat protection and restoration are cornerstones of strategies to recover endangered

(continued on page 9)

2004 Annual Meeting Final Call for Papers (continued)

fish species and rebuild fish stocks within the Columbia River Basin. Unfortunately, since there is almost no quantitative data on the effectiveness of different habitat restoration techniques, managers must make a leap of faith when investing in habitat actions. Therefore, it is critical to systematically test the implicit hypotheses that underlie habitat restoration actions. This is crucial to help scientists and program managers allocate limited funds to achieve the greatest benefit for fish populations. This symposium will bring together the results of recent analyses of past habitat actions in the Columbia River basin and elsewhere. These analyses explore the effectiveness of habitat actions that were intended to increase salmonid survival rates. Topics will include how the results can be used to design more rigorous experimental and monitoring programs for evaluating habitat actions.

Large-Scale Surveys: Providing the Scientific Foundation for Fish and Aquatic Ecosystem Management. Robert M. Hughes, Hughes.bob@epa.gov, (541-754-4516). In recent years, federal and state agencies and watershed councils have implemented statistically designed aquatic ecosystem surveys at scales ranging from the 12 western states to river basins. Data from those surveys are being used to assess regional conditions, develop biological criteria, and establish salmon harvest levels. Both Wadeable streams and non-wadeable rivers, as well as estuaries and near-coastal zones have been assessed. Results indicate greater impairment than typically assumed, as well as zones of especially high and low biological condition that can be linked with patterns in natural and anthropogenic limiting factors.

Instream Flows: Scientific Applications, Legal Considerations and Public Involvement. Tom Annear, tom.annear@wgf.state.wy.us (307-777-4555). Papers are sought that deal with the full range of instream flow quantification or administration. Topics on quantification may focus on hydrologic, biologic, geomorphic, water quality or connectivity components of the science, either singly or in combination. Topics on administration may address water laws and/or the effectiveness of state or federal instream flow laws. Public involvement papers could include examples of ways to involve the public to effectively apply instream flow recommendations, implement laws or develop new laws or policies.

Impacts of Fire Management on Fisheries. Amy Unthank, aunthank@fs.fed.us (505-842-3262). Fishes of the West are impacted by fire in many ways, primarily through changes in habitat due to post-fire impacts, including suppression and watershed improvements. Papers are invited concerning landscape scale processes of watersheds in regards to vegetative conditions, fire and aquatic species; impacts of fire and/or fire suppression on aquatic species and habitat; studies of fire risk and fire behavior in cases where fire was planned to let burn (either natural ignitions or prescribed fire); case studies of ESA consultation on suppression activities and their impacts to listed fishes; and opportunities to showcase agency cooperation on fire planning and post-fire restoration with implications for fishes and their habitat. From existing landscapes to post-fire landscapes; from upland and riparian management to channel responses; and on to post-fire impacts and the plight of western fishes, this one-day symposium will provide an opportunity to continue the

dialogue on the science and policy of fire in relation to western landscapes and the aquatic ecosystems.

Food Webs and Fish Carrying Capacity. Mark Wipfli, mwipfli@fs.fed.us (509-662-4315 ext. 224). Although much is known about the physical characteristics that regulate fish communities (large wood, sediment), relatively little is known about the importance of food and the processes that influence food resources for fishes. Some evidence suggests that food plays a key role in regulating fish communities. This symposium aims to assemble researchers in the field of fish food webs, feeding ecology and behavior, foraging theory, and carrying capacity in western North America, and will include topics such as factors affecting food abundance for fishes in freshwater food webs, interactions among multiple trophic levels that ultimately affect fishes, and efforts to determine fish carrying capacities in freshwater ecosystems. Examples of some specific topics might include the role of riparian vegetation and management on terrestrial and aquatic food resources, influence of marine subsidies, and the importance of hyporheic processes. Presentations on determining carrying capacities in aquatic ecosystems and the relative roles of food and physical habitat in regulating fish communities will also be a key part of this special session, as well as the relationship of this research to establishing restoration goals for depleted populations or for setting expectations and harvest rates for healthy populations.

Coastal Cutthroat Trout. Bob Gresswell, Robert_gresswell@usgs.gov (541-750-7410).

Contributed Papers. Dave Zafft, david.zafft@wgf.state.wy.us (307-745-5180 ext. 235).

Aquaculture. Joe Valentine, joevalentine@utah.gov (801-538-4808) and Steve Sharon, steve.sharon@wgf.state.wy.us (307-473-3407). The session chairs are interested in receiving papers related to all aspects of fish culture. Papers concerning the culture of native aquatic species are welcome. They would also like to have papers and/or posters on the culture of other aquatic species, coldwater, coolwater or warmwater varieties. These may include, but are not limited to topics such as, bioengineering, culture techniques and methods, feeding and nutrition, recirculation and water treatment systems, fish health and disease treatments, etc. If you are interested in presenting a paper or if you have any questions about the session, please contact Joe or Steve.

Adaptive Management: In Practice and in Theory. Greg Servheen, gservheen@idfg.state.id.us (208-334-3180). Connecting the theory of Adaptive Management to practical day-to-day needs of resource management is the focus of this symposium. Topics will include fish and wildlife managers discussing the use of learning or feedback to determine the effects of management and environmental changes on resources; discussion of how planning may incorporate adaptive management principals to help develop operational goals and objectives; how hydropower relicensing can and is using an adaptive approach to long term and large scale experimentation on river systems; the role and importance of modeling and prediction in adaptive management; and the limits that adaptive management theory finds in everyday fish and wildlife resource management.

Welcome to Salt Lake City!

Salt Lake City is an ideal location for an inland meeting between two annual meetings in coastal/marine areas;

San Diego (2003) and Anchorage (2005). There are 14 ski resorts within a 1-hour drive (www.skiutah.com) and February/March is ski season! All sorts of other great activities are also being organized for each day of the meeting. Whether you are interested in attending the World Cup Ski Jumping Competition, a backcountry ski trip, attending a Utah Jazz basketball game or a symphony, there will be something fun to do. Take a look at the listing of social activities in this issue and make plans now to attend this meeting and bring the family.

The meeting will be held at the Little America and Grand America Hotels, which are right across the street from one another in downtown Salt Lake City. Room rates are \$80/single room and \$120/double room. The special meeting rates will be honored from Wednesday night, February 25 through Saturday night, March 6. **Please make your reservations by January 28 by calling 1-800-553-3525 and make sure you mention the American Fisheries Society to get the reduced rate.** Southwest Airlines offers up to 10% off most fares for air travel to and from the meeting, with the convenience of Ticketless Travel. To qualify, call Southwest Airlines Group and Meetings Reservations at 1-800-453-9450 and reference I.D. Code W0234. Reservations Sales Agents are available 6:00 a.m. – 7:00 p.m. Monday-Friday, or 7:30 a.m. – 4:30 p.m. Saturday and Sunday, Mountain Standard Time.

The meeting will begin on Sunday, February 28. Dr. Joe Margraf, Western Division Vice President, will conduct a free workshop on parliamentary procedure from 2-5 pm (see announcement in this issue). The workshop will be followed by a welcoming social. Meeting registration will begin mid-afternoon and continue into the evening.

The meeting will kick off on Monday morning, March 1st with a theme related, plenary session. A student social will be held that evening. Symposia and contributed papers will follow over the next 2 ½ days.

The Western Division Business Luncheon will be held on Tuesday and the Whirling Disease Foundation is hosting a poster session social on that evening. Later that night, check out the Film Festival for a rare showing of “Chubbusters” and other bootleg fish films. A free concert featuring fishery biologists is also being organized with a jam to follow – so bring your instrument(s) along.

The Bonneville and Colorado/Wyoming Chapter Business Breakfast Meetings will be held on Wednesday morning. The two chapters will continue their traditions by organizing a banquet dinner with a raffle and auction for Wednesday evening. The Bonneville and Colorado/Wyoming Chapters are soliciting all sorts of great items for this event. A banquet ticket will be included with your meeting registration fee so please plan to attend and enjoy the fun!

On Thursday, at least three more continuing education courses will be offered to close out the meeting. All proceeds from these courses will go to support the Utah State Student Subunit, so please plan to stick around and take advantage of one of the great learning opportunities that they are organizing:

Continuing Education Opportunities in Salt Lake City

“POINT OF ORDER”- SKILLS FOR SURVIVING GENERAL ROBERT’S RULES

Sunday, February 29, 2004. 2:00-5:00 pm. This workshop is free.

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Continuing Education (continued)

Most AFS members have attended Chapter, Division or Society business meetings conducted using Parliamentary Procedure (Robert's Rules of Order). Although this meeting format might at first appear cumbersome, the application of parliamentary law is the best method yet devised to conduct official business in a minimum amount of time while providing all participants the opportunity to express opinions and accommodating questions and resulting discussion. Robert's Rules protect the rights AFS members who join together to accomplish common goals and enable them to debate and take action in a fair manner with the least amount of unproductive controversy. Whether acting as Chair or member, effective participation requires a working knowledge of the Rules. As Constitutional Consultant, Dr. Joe Margraf has served as Parliamentarian at numerous meetings of the American Fisheries Society. Joe will provide a basic understanding of Robert's Rules that will allow students to participate effectively in meetings that are conducted using Parliamentary Procedure. A mock meeting will be used to demonstrate key points. All members, particularly Division and Chapter Executive Committee members are encouraged to attend.

Dr. Joe Margraf, Past AFS Constitutional Consultant
University of Alaska at Fairbanks
P.O. Box 757020
Fairbanks, AK 99775-7020
907-474-6044
ffjfm1@uaf.edu

AQUATIC INVASIVE SPECIES THREATS TO WESTERN WATERS

Thursday, March 4, 2004. Full day. Registration is \$35 Students, \$50 AFS Parent Society Member, and \$75 AFS Nonmember.

The course will cover the following topics in the morning session, and Hazard Analysis Critical Control Point planning and techniques during the afternoon session.

- Aquatic Nuisance Species (ANS) Legislation & Funding, Tina Proctor, FWS, Western Regional Panel of the ANS Task Force
- Implementing a State ANS Management Plan, Virgil Moore, Idaho Fish & Game
- Impacts from Green Sunfish & Other Southwestern Invaders, David Hall, University of Arizona, US Forest Service
- Asian Carp, Impact & Spread, Wayne Stancil, FWS, Pierre, SD Field Office
- Whirling Disease as an Invasive Species: Spread & Impact, Billie Kerns, Montana State University
- Establishment of Invasive Species in Hawaii, Anne Brasher, USGS, Aquatic Ecologist
- Response to Threats from Lewis & Clark Anniversary Activities, Steve Phillips, Pacific States Marine Fisheries Commission
- Case History of the New Zealand Mudsnail Invasion, David Richards, EcoAnalysis, Montana State University
- Involving Recreation Groups, Bob Wiltshire, Federation of Fly Fishers
- The feasibility of HAACP training for fisheries field workers as a tool to minimize the spread of NZMS among anadromous salmonids rearing habitat in the Columbia River, B.L. Parker, Columbia River Inter-Tribal Fish Commission, 503-238-0667 (W), parb@critfc.org

- Managing Natural Resource Pathways, Steve Sharon, Wyoming Game & Fish
- Open Forum Discussion – How To Improve Response To Invasions

Bob Pitman
Aquatic Nuisance Species Coordinator
US Fish & Wildlife Service
PO Box 1306, Rm 3118
Albuquerque, NM 87103-1306
505-248-6471
bob_pitman@fws.gov

PREPARATION AND REVIEW OF PROFESSIONAL MANUSCRIPTS

Thursday, March 4, 2004. Full day. Registration is \$35 Students, \$50 AFS Parent Society Member, and \$75 AFS Nonmember.

Manuscript preparation and all the nuances that go with it are entirely overlooked in our academic training and most of us have to learn the hard way and often times avoid this important aspect of communication. The course will not only improve your own manuscript preparation, but will benefit those of you that are in the editorial or review process. This course will provide training on many important areas of manuscript preparation including: why do we publish, what is publishable, how to organize a manuscript, what to include in a manuscript, what does a journal expect of you, how to submit a manuscript, what to expect in the review process, who is your audience and where do you publish, and more.

Dr. Dave Bennett, University of Idaho and
Vaughn Paragamian, Idaho Fish and Game Department

POPULATION VIABILITY ANALYSIS

Thursday, March 4, 2004. Full day. Registration is \$35 Students, \$50 AFS Parent Society Member, and \$75 AFS Nonmember. Students are encouraged to bring a laptop computer with at least Windows 95 and Excel if possible.

Population Viability Analysis (PVA) is a modeling technique concerned with the probability that a population will exist for a specified length of time or with the minimum size a population can be expected to persist for a specified length of time. In this workshop we will discuss PVA assumptions, data required to build PVA models, the structure of PVA models, the reliability of PVA predictions, and the effect of variance of the estimates on PVA predictions. All discussions and examples will focus on fish populations and fish issues, and above all, this will be a hands-on workshop. Using Excel, each participant will build several population viability (PV) models, incorporate variance, and perform some introductory simulations (bootstrap) to further explore the effect of variance on PVA predictions. Because we will build PV models from scratch, we will not use any specific PVA software. However, understanding the assumptions and data requirements of PVA, which will be highlighted in the construction of PV models, should aid anyone using commercially available PVA software.

Mary M. Conner
Adjunct Associate Research Professor
Department of Forestry, Range, and Wildlife Sciences
Utah State University
Logan, UT 84322
Phone: 435-797-1481 (USU) or 970-217-3404 (cell)
FAX: 435-797-3796

Backcountry Skiing in the Wasatch Mountains



Enjoy skiing Utah's famous powder after the Western Division AFS Annual Meeting in Salt Lake City. Utah has some of the best backcountry skiing opportunities in the world, which are readily accessible from Salt Lake City. Experienced backcountry skiers and/or snowboarders can sign up for a full day of skiing in either the Wasatch or Uinta Mountain ranges. Individuals must be in good physical condition, and experience in backcountry skiing/snowboarding is highly preferred. Two experienced Utah backcountry skiers will lead the group through trailbreaking and different ski routes.

The date is set for March 6th (Saturday immediately after the Western Division meeting). Individuals will be charged \$50 per person, which includes lunch and snacks. A minimum of 2 individuals must sign up for the trip to proceed, with a maximum number of 6. Round-trip transportation will be provided at a cost of \$21 per person. People are encouraged to bring their own equipment, or can rent gear in the area. Those interested or who have questions are encouraged to contact Robert Al-Chokhachy at robertal@cc.usu.edu.

Draft Local Tours and Activities Schedule

Brief Summary and Estimated Costs

as of 22 October 2003

All times Mountain,

all events subject to change

Questions? Contact Matthew Andersen (801) 538-4756 or matthewandersen@utah.gov. More complete descriptions of activities can be sent by e-mail.

During the AFS Western Division meetings another option for extracurricular activities could include fishing the legendary Provo River. For more information members could go to a couple of web sites:

- wrflyfisher.com
- utahflyfishing.com
- troutbum2.com
- parkcitytroutfitters.com.

These are just a few of the many outfitters who can supply a lot of good information to guest about fishing some local waters near Salt Lake, including the Provo River.

Saturday 28 February

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at: www/skiutah.com

9 am – 2 pm classic Nordic/cross-country skiing and snowshoeing in Wasatch-Cache National Forest (escorted,

(continued on page 11)

Local Tours & Activities (continued)

10 people maximum). Transportation and forest pass \$10, equipment rentals available \$15

9 am – 4 pm Ski Jumping World Cup at Utah Olympic Park (escorted, 20 people minimum). Transportation and event ticket \$65

Shopping in Salt Lake City, Clark Planetarium (exhibits free) (on your own).

8 pm Utah Symphony Performance at Abravanel Hall (on your own, no minimum people). Transportation free, Tickets \$16-40.

Midnight Music and Laser show at Clark Planetarium (on your own). Tickets \$10

Sunday 29 February

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at: www.skiutah.com

9 am – 4 pm Nordic/cross-country skiing and snowshoeing at White Pine Touring, Park City (escorted, 10 people maximum). Transportation and track pass \$24, equipment rentals \$12 - 15

9 am – 4 pm Ski Jumping World Cup at Utah Olympic Park (escorted, 20 people minimum). Transportation and event ticket \$65

Shopping in Salt Lake City, Clark Planetarium (exhibits free) (on your own).

6 pm – 9 pm Welcoming Social at Little America Hotel

Monday 1 March

Plenary and Symposia sessions; see meeting schedule

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at: www.skiutah.com

Shopping in Salt Lake City, Clark Planetarium (exhibits free) (on your own).

12 Noon to 4 pm Ice Skating in Park City (escorted, 30 people minimum). Transportation and skate rental \$25

7 pm NBA Basketball (on your own). Detroit Pistons at Utah Jazz at Delta Center. Transportation free, tickets \$30-110

Tuesday 2 March

Symposia sessions; see meeting schedule

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at: www.skiutah.com

9 am – 4:30 pm Shopping in Park City (escorted, 30 people minimum). Transportation and tour \$45

1 pm – 5:30 pm Tubing at Snowbird (escorted, 30 people minimum). Transportation and equipment \$25

Shopping in Salt Lake City, Clark Planetarium (exhibits free) (on your own).

6 pm Poster sessions and Whirling Disease social

8 pm Musical entertainment

Wednesday 3 March

Symposia sessions; see meeting schedule

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at:

www.skiutah.com

Shopping in Salt Lake City, Clark Planetarium (exhibits free) (on your own).

9 am – 4:30 pm Shopping in Park City (escorted, 30 people minimum). Transportation and tour \$45

6 pm Social

7 pm Western Division banquet

7 pm Mormon Tabernacle Choir Rehearsal (own your own). Free

Thursday 4 March

Continuing Education Workshops; see meeting schedule

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at: www.skiutah.com

8:30 am – 1 pm Three snow races. Snowshoeing, classical Nordic/cross-country ski, and free-style (skating) Nordic ski races at White Pine touring (escorted, 20 people minimum total for all three races). Transportation and track rental \$30, equipment rental available \$12 - 15

Shopping in Salt Lake City, Clark Planetarium (exhibits free) (on your own).

9 am – 4:30 pm Shopping in Park City (escorted, 30 people minimum). Transportation and tour \$45

8:30 am – 4:30 pm Dogsledding near Midway (escorted, 4 people minimum, 16 people maximum). Transportation and dogsledding \$350 per person

8 am – 12 noon Park City Snowmobiling (escorted, 30 people minimum) Transportation and equipment \$160 per person (two-hour ride)

Friday 5 March

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at: www.skiutah.com

9 am – 4 pm Nordic/cross-country skiing and tubing at Soldier Hollow, Midway (escorted, 20 people maximum). Transportation and track pass \$25, equipment rentals available \$15

Shopping in Salt Lake City, Clark Planetarium (exhibits free) (on your own).

9 am – 4:30 pm Shopping in Park City (escorted, 30 people minimum). Transportation and tour \$45

8:30 am – 4:30 pm Dogsledding near Midway (escorted, 4 people minimum, 16 people maximum). Transportation and dogsledding \$350 per person

8 am – 12 noon Park City Snowmobiling (escorted, 30 people minimum) Transportation and equipment \$160 per person (two-hour ride)

Midnight Music and Laser show at Clark Planetarium. Tickets \$10

Saturday 6 March

7:30 am – 5:30 pm Alpine skiing (on your own, no minimum people). Transportation and lift tickets \$48 - \$89, equipment rentals available, more information at: www.skiutah.com

8 am – 6 pm Back-country skiing (escorted). Transportation \$22

9 am – 4 pm Nordic/cross-country skiing and snowshoeing at White Pine Touring, Park City (escorted, 10 people maximum). Transportation and track pass \$24, equipment rentals \$12- 15

9 am – 4:30 pm Shopping in Park City (escorted, 30 people minimum). Transportation and tour \$45

8:30 am – 4:30 pm Dogsledding near Midway (escorted, 4 people minimum, 16 people maximum). Transportation and dogsledding \$350 per person

8 am – 12 noon Park City Snowmobiling (escorted, 30 people minimum) Transportation and equipment \$160 per person (two-hour ride)

Midnight Music and Laser show at Clark Planetarium. Tickets \$10

Please see the WDAFS web site for a Trip Registration Form to sign up for activities. Remember, some activities will fill up fast and/or need to be booked well in advance of the meeting. The URL for the form is:

<http://www.wdafs.org/meet/registration.htm>

Watershed Planning: Approaches, Challenges, and Strategies for Success

To be Convened in Conjunction with: 2004 Annual Meeting of WDAFS First Call for Papers

In 2002, the Western Division-AFS (WDAFS) and its partners convened a major international conference in Spokane, WA to foster a transition toward ecosystem-based management in the Columbia River and beyond. One of the principle recommendations that emerged from the conference emphasized the need for a Healthy Basins Initiative. Development and implementation of ecosystem-based watershed plans that effectively integrate social, economic, and environmental interests within watersheds throughout western North America represents one key element of the recommended initiative.

With its interest in promoting the sound resource stewardship at the watershed level, the WDAFS is convening a symposium entitled, Watershed Planning: Approaches, Challenges, and Strategies for Success, in conjunction with its 2004 Annual Meeting. This symposium will strive to:

- Describe the goals of watershed-based planning;
- Identify the benefits associated with watershed-based planning;
- Discuss the challenges associated with the development of watershed plans;
- Highlight the approaches that have been used to develop ecosystem-based watershed plans in various jurisdictions;
- Identify the challenges associated with the implementation of such plans; and,
- Discuss the strategies that can be used to overcome these barriers and move toward ecosystem-based watershed management.

The symposium will also provide an opportunity for practitioners in this field to present case studies on watershed planning initiatives and methods for integrating multiple watershed plans into broader river basin plans. Anyone interested in presenting a paper at the symposium is requested to provide a title, list of authors (including an indication of to whom correspondence should be directed), full mailing address, phone, fax, email address, and a brief abstract to Don MacDonald (sff@island.net) no later than December 5, 2003. Abstracts should be limited to 200 words in length. All symposium presenters will be required to register for the conference (see www.wdafs.org/meet/2004/meet_2004.htm for more information).

**Western Division American Fisheries Society
and The Whirling Disease Foundation Joint Annual Meeting
February 29 – March 4, 2004
Little America Hotel, Salt Lake City, Utah
http://www.wdafs.org/meet/2004/meet_2004.htm**

PERSONAL INFORMATION

First Name: _____ Last Name: _____
 Name (as it should appear on name badge): _____
 Affiliation (as it should appear on name badge): _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 E-Mail Address: _____
 Daytime Phone: _____ AFS Member #: _____

REGISTRATION (Early registration rates apply to those received by January 30, 2004)

	EARLY REGISTRATION	LATE REGISTRATION
Member (AFS Parent Society or WD Foundation)	\$ 265.00	\$ 365.00
Non-Member (Includes 1-year membership to AFS)	\$ 350.00	\$ 450.00
1-Day (Circle One) MON TUE WED THU (Includes all social events held on that day)	\$ 175.00	\$ 175.00
Student Member (AFS Parent Society or WD Foundation)	\$ 120.00	\$ 120.00
Student Non-Member (Includes 1-year membership to AFS)	\$ 160.00	\$ 160.00
Guest (Includes evening receptions and banquet)	\$ 50.00	\$ 50.00
Retired	\$ 120.00	\$ 120.00
Bonneville Chapter Business Breakfast	\$ 5.00	----
Colorado-Wyoming Chapter Business Breakfast	\$ 5.00	----

- The Western Division Business Meeting Luncheon and Banquet are included in all registration fees.

REGISTRATION SUB-TOTAL \$ _____

CONTINUING EDUCATION (Must be received by January 30, 2004 to guarantee place)

1. "Point of Order"- Skills for Surviving General Robert's Rules

Instructor: Joe Margraf **Time:** 3 hrs (2:00-5:00 pm) **Date:** Sunday, February 29, 2004

Fee: Free \$ FREE

2. AQUATIC INVASIVE SPECIES THREATS TO WESTERN WATERS

Instructor: Bob Pitman **Time:** 8 hrs or full day **Date:** Thursday, March 4, 2004

Fee: \$35 Students, \$50 AFS Parent Society Member, \$75 AFS Nonmember \$ _____

3. PREPARATION AND REVIEW OF PROFESSIONAL MANUSCRIPTS

Instructor: Dave Bennett **Time:** 8 hrs or full day **Date:** Thursday, March 4, 2004

Fee: \$35 Students, \$50 AFS Parent Society Member, \$75 AFS Nonmember \$ _____

4. POPULATION VIABILITY ANALYSIS

Instructor: Mary Conner **Time:** 8 hrs or full day **Date:** Thursday, March 4, 2004

Fee: \$35 Students, \$50 AFS Parent Society Member, \$75 AFS Nonmember

Can you bring a laptop computer with at least Windows 95 and Excel? Yes No \$ _____

CONTINUING EDUCATION SUBTOTAL \$ _____

REGISTRATION SUBTOTAL \$ _____

TOTAL PAYMENT \$ _____

Two Ways to Register:

1. Paying by credit card: (Easiest and Best way!)
 Go online to the Western Division AFS Annual meeting site at: www.wdafs.org/meet/2004/meet_2004.htm, click on the "Registration" button and complete the registration form. You will receive an e-mail confirmation letting you know your registration has been completed as well as an electronic receipt.

2. Paying by check:
 Complete the attached form and mail to
 Steve Wolff
 WAFS 2004
 Wyoming Game and Fish Department
 5400 Bishop Blvd.
 Cheyenne, WY 82006

If you have any questions about registration or need to FAX a registration, please call Steve Wolff at (307) 777-4673 or Sheila Garl at (307) 777-4562.

Call For Videos!

Do you have any humorous fisheries videos you would like to share with the rest of your colleagues? We are looking for any videos to be part of our WDAFS Film Fest of fun fish flicks at the Salt Lake City Annual Meeting after the poster social. If you have some, please contact:

Roger Wilson
 Utah Division of Wildlife Resources
 777 SR 319, Box 5
 Heber City, Utah 84032
 (435) 649-9368 office
 (435) 503-1086 cell
 (435) 548-2285 field station
 e-mail: rogerwilson@utah.gov

**Western Native Fishes
Symposium -
Second Call for Papers**

The Native Fishes Committee of the Western Division will sponsor a "Native Western Fishes Symposium" during the 2004 annual Western Division meeting in Salt Lake City. The Native Fishes Committee has undertaken a project to summarize the scientific information available on the current status of western native freshwater fishes, exclusive of anadromous salmonids, and publish a status report. The committee hopes that this Symposium will encourage the presentation of new and recent information concerning the status of western native species. All members are encouraged to consider giving a paper on any work that they may have done on native species, although papers on the occurrence, distribution, status, or taxonomy will receive preference. Contributors will have the opportunity to have their papers published in the *Proceedings of the Western Native Fishes Symposium* by the AFS. Authors should follow general AFS guidelines for manuscript publications. These guidelines can be found at the AFS website (www.fisheries.org). Papers are to be submitted at the time of presentation to be included in the Proceedings. Related papers presented in other symposia (e.g. Research and Management of Western Native Inland Trout) may also be eligible for publication in the Proceedings. The official deadline for submissions is 10 January, 2004, but you are encouraged to contact the session organizers, Jim Tilmant (jim_tilmant@nps.gov, 970-225-3547) or Mark Brouder (mark_brouder@fws.gov, 928-475-2554), as soon as possible to reserve sufficient space. Abstracts of papers for consideration should be submitted in accordance with the meeting announcement and clearly marked "For the Native Western Fishes Symposium."

**For Local Tours and Activities Registration Form, see the WDAFS web site at:
<http://www.wdafs.org/meet/registration.htm>**