



The Tributary



A Newsletter of the Western Division, American Fisheries Society

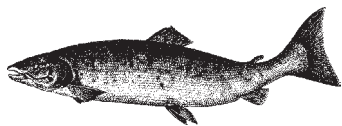
Volume 26, No. 1, March 2002

Make Plans Today to Attend the 2002 Western Division Annual Meeting

Toward Ecosystem-Based Management: Breaking Down the Barriers in the Columbia River Basin and Beyond

The 2002 Annual Meeting of the Western Division of AFS (WDAFS) will be held in Spokane, WA during **April 27 - May 1, 2002**. The conference, entitled *Toward Ecosystem-Based Management: Breaking Down the Barriers in the Columbia River Basin and Beyond*, is being convened jointly by WDAFS, North Pacific International Chapter-AFS, Transboundary Group, Lake Roosevelt Forum, and the Sustainable Fisheries Foundation. The five-day conference will bring together a diverse group of participants with an interest in ecosystem-based management, including policy makers, scientists, resource users, First Nations, tribal organizations, community groups, and concerned citizens.

This conference, which is the third in a series of transboundary meetings, is intended to provide participants with opportunities to share perspectives on ecosystem-based management, to identify the key barriers that are currently thwarting progress in this area, and to develop



innovative strategies for overcoming these barriers and moving toward ecosystem-based management of transboundary water, fish, and wildlife resources. To support these objectives, a number of integrated components have been designed into the conference program, including:

- A series of *Plenary Sessions* that will provide essential background information on ecosystem-based management and its applications, identify the key barriers that are impeding progress toward ecosystem-based management, and propose strategies for overcoming these constraints (Some of the keynote speakers will include Kai Lee, Collen Cawston, Rick Williams, Courtland Smith, Martin Goebel, Erik Karlsen, Ernie Niemi, Mark Smith, and Pete Bisson);
- A total of 14 *Symposia* and 37 *Technical Sessions* that will provide participants with opportunities to share information on a broad range of topics related to the management of water, fish, and wildlife resources.
- A series of *Poster and Exhibition Sessions* that will provide participants with less formal means of sharing information and making contacts with prospective partners;
- A number of *Workgroup Sessions* that will provide participants with opportunities to cooperatively develop solutions to some of the key challenges that are impeding progress toward ecosystem-based management of transboundary water, fish, and wildlife resources; and,
- A closing *Plenary Session* that will

summarize the results of the conference and help participants identify the next steps that need to be taken to support the transition toward ecosystem-based natural resource management.

The conference registration will also include five common luncheons, the WDAFS business meeting and breakfast, the NPIC business meeting and luncheon, five hosted socials, and a special banquet that will be co-hosted by the Columbia Basin First Nations and Tribes. Invited keynote speakers for the special events include Ken Beal, Larry Cassidy, Josh Smienk, Hon. David Anderson, Hon. Gary Locke, Hon. John Kitzhaber, Bob Lohn, Hon. John Fraser, Bill Rucklshaus, and Joe Peone. With attendance estimated to be in the order of 750 participants and an outstanding program, this is one meeting that you will not want to miss! For more information on the conference program, registration and accommodations, please visit the conference website (www.sff.bc.ca).

WDAFS Business Meeting and Breakfast

The WDAFS Annual Business meeting will be held at 7-9 AM, Tuesday, April 30. The meeting highlight will be a keynote address by AFS President Ken Beal. The necessary business for the annual meeting includes voting on two by-law changes described elsewhere in this newsletter. Some WDAFS awards will also be presented at the breakfast. A buffet breakfast, included in your registration, will be served beginning at 6:50 AM.

(continued on page 3)

The Tributary is distributed to 3,711 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 June 1, 2002.

President's Message

AFS Involvement – Why Should I???

If you are like me, the first questions you may have asked when considering joining AFS were



“what’s in it for me?” and “what do I get for my dues?” In fact, the list of direct benefits is actually quite impressive, including timely communication via the monthly *Fisheries* magazine,

networking with other professionals, organizational support for aquatic resources and the fisheries profession, access to leading fisheries literature, and much more (see www.fisheries.org for a complete list of benefits).

But this message is about somewhat less tangible benefits. That is, the benefits that occur from *giving* to AFS. This idea might best be captured by paraphrasing John F. Kennedy, *ask not what AFS can do for you, but what you can do for AFS*. I like this ecocentric, rather than egocentric, approach because it encourages me to examine how, as in ecosystems, my actions are connected to the world community. A focus on giving through AFS participation also benefits and promotes the things I believe in that promote healthy marine and aquatic resources.

For one current example, I often find myself complaining that fisheries and aquatic resources are being overused or impacted by other, non-fisheries “development” activities and that regulatory agencies don’t do enough to prevent the destruction. This year, because AFS has earned outstanding professional credibility, our organization is being asked to provide input to a presidential Ocean Policy Commission tasked with reviewing U.S. marine resource status and institutional impediments to improved management for sustainability. This is a prime opportunity to influence important issues because AFS members are preparing testimony for regional Commission hearings.

Not all opportunities occur at the scale of the Ocean Policy Commission example. Nor do they need to for your AFS contributions to be meaningful. As long as you believe in the AFS mission,

“to improve the conservation and sustainability of fishery resources and aquatic ecosystems by advancing fisheries and aquatic science and promoting the development of fisheries professionals”,

then almost any contribution that supports AFS is meaningful. That means even mundane tasks, like helping to staple chapter newsletters, are gifts of your time and energy that ultimately promote sustainability of fisheries and aquatic resources. You may not agree with all of the activities or positions taken by AFS, but, because AFS interests are so incredibly diverse, you will likely find a cause or activity you can support. So, what are the things you can give, large or small?

AFS Membership

You support the AFS mission simply by joining and maintaining your membership. If you are early in your professional career, you can also view the dues payment as a good investment in your future. The financial situation for many of us crustaceans improves as we progress professionally, making it easier to maintain the basic dues *and* either give a gift membership to a student or new employee (half-price, by the way) or contribute to a special program or scholarship fund. Encouraging students and young professionals to join and participate in AFS is an important component of professional mentoring that simultaneously promotes the AFS mission.

Volunteering

There are unlimited opportunities to volunteer your services in AFS. Help is needed at the individual, chapter, division, parent, and section levels. Consider how you would most enjoy being of service and then call the person who seems to be in charge (see WDAFS Committee list in this newsletter). Some great examples of service opportunities include helping to organize and implement an annual meeting, judging student papers and posters, or working on a subunit web page. Another simple and easy way to give your time is to honor professional excellence in AFS by nominating someone you admire for an AFS award. If you believe you are ready, let current leaders know that you would be willing to be nominated for office in your chapter, division, or section. By the way, a simple thing you can do right now is review the candidate profiles in this newsletter and vote for whomever you believe will make the best new leaders for WDAFS.

Committees

The committee structure provides an excellent vehicle for AFS involvement. Most committees would benefit from additional members. Consider joining a committee that is doing what interests you. For example, why not bring your biggest pet peeve about misuse of fisheries or

aquatic resources to the Environmental Concerns Committee of your chapter or the Western Division? Then volunteer to establish a subcommittee that brings other professionals together to find solutions on that issue. With the credibility of AFS behind you, your involvement can make a difference. Many chapters and the Western Division have special topic committees that offer a great connection to disciplines you may already be focusing on as part of your job, or that you simply have an interest in.

Annual Meetings

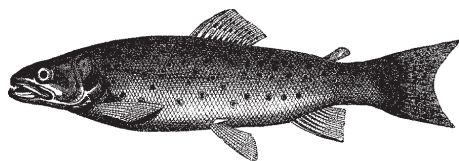
Annual chapter, division, and parent society meetings are the highlight of the AFS year and there are so many ways we can each participate. One timely example is the upcoming WDAFS annual meeting in Spokane April 26 – May 1. Don MacDonald and his Program Planning Committee have prepared a fantastic meeting with over 50 sessions that provide topics of interest to everyone. Now that most of the plans for Spokane are in place, you can support WDAFS by registering and coming to the meeting. Plan to attend the Western Division annual business breakfast 7 – 9 AM Tuesday, April 30 (get there early for a great *free* breakfast). If you are interested in expanding your AFS involvement at the Division level, come to the WDAFS Executive Committee meeting, 5-8 PM, Sunday, April 28. It’s also not too early to volunteer for the 2003 WDAFS meeting, planned for April in San Diego (see the announcement in this newsletter for Program and Local Arrangements committee contact information).

We all have busy lives with diverse interests. Each one of us must make personal decisions about allocating our time among family, professional, recreational, and spiritual activities. It’s often difficult to decide how to spend precious time but I’ll never forget the words of my AFS friend and mentor, Ken Hashagen, when I asked him how he found time to get so much done. He said, “it’s way better than watching TV.” So, while I find myself continually drawn toward the easy chair and zoning out with another *Sienfeld* rerun, the times when I choose to give that half-hour to AFS turn out to be personally fulfilling. AFS needs your help. Please make a decision today to contact me or other leaders to volunteer your services. Some of the less tangible benefits you may receive are the satisfaction of a job well done, new and lasting friendships, and the knowledge that maybe you helped conserve and restore aquatic and marine ecosystems just a little.

2002 WDAFS Annual Meeting (cont.)

AFS Leadership Principles Training in Spokane

AFS Leadership Training, presented by AFS Past President Carl Burger will be featured for 8-10 AM Sunday morning, April 28 at the WDAFS annual meeting in Spokane. Carl has an excellent way of presenting the concepts of leadership principles and compliments his own experiences by inviting other speakers who also have a wealth of leadership guidance. If you are interested in developing your AFS and other professional leadership skills, you won't want to miss this exceptional opportunity.

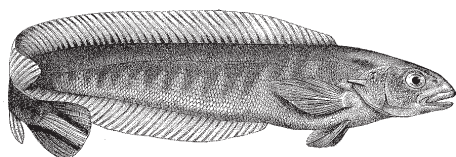


Chapter News

Cal-Neva Chapter's 36th Annual Meeting to be Held in North Lake Tahoe

by David Manning, *Cal-Neva Time & Place Committee Chair*

The next Cal-Neva Chapter Annual Meeting will be held April 18-20, 2002 at the Granlibakken Resort and Conference Center in Lake Tahoe, California. Nestled in a valley 1½ miles from Tahoe City, Granlibakken offers a first rate facility in a beautiful mountain setting. The theme of this year's conference is "Human Impacts on Aquatic Resources" and will feature symposia and technical sessions on topics including fish passage, native and invasive species management, fire management, reservoir research, conservation genetics, aquaculture, and watershed restoration. Please visit the Chapter website at www.afs-calneva.org to view the meeting program, registration form, and lodging information. If you plan to attend, please contact the Granlibakken Resort at (530) 583-4242 and reference the Cal-Neva American Fisheries Society to get our conference rates.



2002 AFS Annual Conference Baltimore, Maryland, August 18-22, 2002

The American Fisheries Society (AFS) will convene its 132nd Annual Meeting at the Baltimore Civic Center in downtown Baltimore, Maryland, 18-22 August 2002. The meeting's theme is "2002: Turning the Tide - Forging Partnerships to Enhance Fisheries." The theme addresses the future of our aquatic resources and society through Partnership, Diversity, Professionalism and Visibility. Nearly all fisheries across North America are faced with threats to population sustainability. Can we work together as fisheries science professionals to help sustain valuable fisheries resources and rescue some of our native fish populations? In many ways, scientists, managers, educators, and politicians must deal with common problems such as human population growth and global climate change. So, come join us for this premiere conference.

For more information, see the AFS web site at: <http://www.fisheries.org/annual2002/>

AMERICAN FISHERIES SOCIETY



"TURNING THE TIDE"

132nd Annual Meeting
Baltimore, Maryland • August 18-22, 2002



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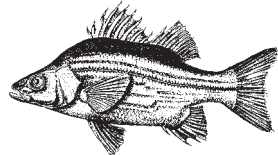
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Western Division Hats Still Available

Western Division hats sporting our beautiful logo were unveiled at the 2001 annual meeting in Phoenix, went like hotcakes, and became the fashion *de jour*. These hats will again be sold at the 2002 annual meeting in Spokane, but in the meantime, you can order yours for the unbelievably low price of only \$12.00. These stylish, comfortable, functional, and very classy hats are suitable for fishing, golfing, walking, report writing, or just about anything else you can think of, so be sure to order yours now. Send \$12.00 to Bill Bradshaw, c/o WGFD, P.O. Box 6249, Sheridan, WY, 82801 to receive your very own. Call (307-672-7418) or email (Bill.Bradshaw@wgf.state.wy.us) for more information.



Two Proposed Western Division By-Law Changes

There are two proposed changes to the Western Division By-laws. Existing by-laws may only be modified after 30 days advance notice to all members, and a 2/3-majority approval at the annual business meeting (Spokane), including an opportunity for voting by mail for those unable to vote at the annual meeting.

Please review the two proposals below and prepare to vote at the annual business meeting in Spokane. If you have specific comments or would like to vote by mail, please do so by mail to:

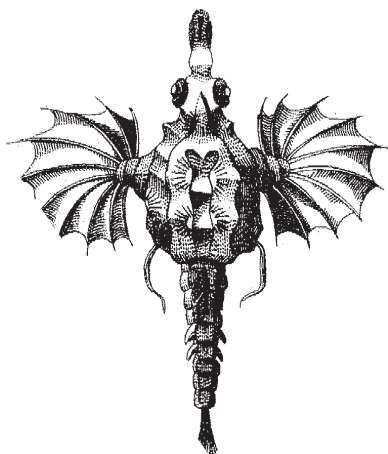
Bill Bradshaw, WDAFS Past President
c/o WGFD
P.O. Box 6249
Sheridan, WY 82801

To be received by April 20, 2002.

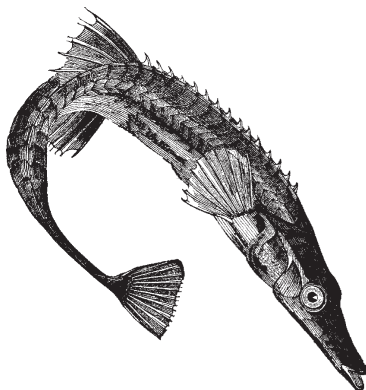
Pending membership approval in Spokane, and then AFS Governing Board approval in Baltimore, the changes will become effective at the conclusion of the annual AFS business meeting next August.

By-Law Change 1. Proposal To Create A Grants Funding and Investment Committee

Division members unanimously approved a proposal to establish a fund promoting the long-term sustainability of our grants program at the



2001 business meeting in Phoenix last August. Background and procedural information about the proposal were presented in Phoenix and are posted on the Division website (www.fisheries.org/wd/committee/grants/grants.htm) and the complete text of the motion as introduced and approved is reproduced below:



“Establish a Western Division Grants Fund with an initial infusion of \$50,000 from Western Division cash reserves. Pursue a fund target of \$100,000 through investments, donations, periodic contributions from the Division, or other means and begin using interest from the Grants Fund to support the Grants Program upon attaining this target. Develop criteria for evaluating proposals and identify areas of emphasis for using these grant funds.”

The proposal adopted in Phoenix represents a long-term commitment, and the intent to institutionalize this effort was discussed at the business meeting. At that time it was made clear that a change in Division bylaws would be pursued to accomplish this. Namely, the Grants Funding Committee is currently an ad hoc committee, appointed by the President each year. This proposed by-law addition would make the committee permanent by creating a new standing committee. Consequently, the following addition to Division bylaws under “Section IX: Division Standing Committees” is proposed for membership consideration at the 2002 annual business meeting.

Proposed addition to Section IX of Western Division bylaws:

J. A Grants Funding and Investment Committee responsible for making investment recommendations to the Western Division Executive Committee, quarterly (minimum) review of existing Grants Fund investments with recommendations as appropriate, establishment and review of grant solicitation and funding criteria, and implementing programs to increase and maintain the base funding for the Grants Program endowment. The committee consists of a Chair appointed by the President and at least 4 Division members. Grants Funding and Investment Committee activities may be accomplished

through ad hoc subcommittees appointed by the Committee Chair or at the direction of the President.

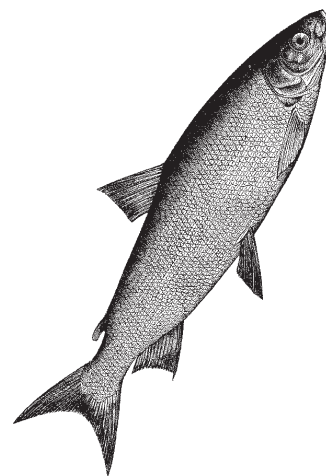
By-Law Change 2. Proposal to allow electronic voting.

Electronic balloting, either on the web or by e-mail, may be a more efficient and less expensive method for annual elections. Several AFS subunits have successfully instituted electronic balloting, using on-line methods. Section VII of the current Western Division By-laws states:

“Election of officers and the Division Representative to the Society Nominating Committee shall be by mail ballot. The procedure for the conduct of the mail ballot shall be determined by the Executive Committee and executed by the Secretary.”

To clearly allow electronic balloting, the proposed modifications to Section VII would be as follows (changes in bold or strike-through):

“Election of officers and the Division Representative to the Society Nominating Committee shall be by mail, **e-mail, and/or on-line ballot, with appropriate provisions for equal access to balloting.** The procedure for the conduct of the ~~mail~~ ballot shall be determined by the Executive Committee and executed by the Secretary.”



Thanks to the Tributary Team:

Bill Bradshaw
Jeff Cederholm
Steve Hendricks
Eric Knudsen
Don MacDonald
Dave Manning
Tom McMahon
Yvonne Muirhead
Gary Thiede
Mary Whalen

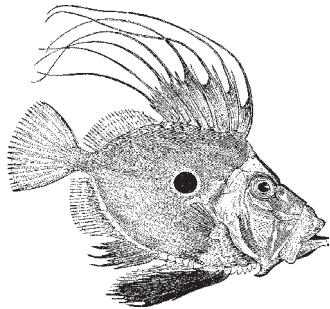
WDAFS Candidate Profiles - Vote today with the enclosed ballot

Vice President

Christopher J. Keleher

Greetings fellow Western Division AFS members. I am honored by the nomination for Vice President and truly appreciate this opportunity.

By way of background, I had what I consider the good fortune of being raised on a 20-acre farm in the dairy country of western New York State. The headwaters of the Cattaraugus Creek, a tributary to Lake Erie, bordered the back of my parent's property. Through my teenage years, I spent much of my time on the banks of this stream, using trout fishing as an excuse to witness the wonders of the natural world, and developing the passion that would lead me into a profession and through my career. It was this



passion that guided me through an undergraduate degree in biology at the State University of New York, College at Brockport (1983), where I was involved with fishery research on Lake Ontario and its tributaries. This was followed by eight years as a research assistant for Cornell University where I participated in evaluating mitigation techniques for Adirondack Mountain fish communities and ecosystems impacted by acid deposition. My master's work at the University of Wyoming (1993) applied Geographic Information System technology to analyzing potential impacts of global warming on Rocky Mountain salmonid distributions.

My tenure in the beautiful State of Utah began as a fishery biologist in the southeastern part of the state in 1993. Within a year, however, opportunity presented itself through a seniority-based agency restructuring and I was working as a native aquatic species biologist along the heavily populated Wasatch Front. In this position, I gained experience with sensitive aquatic species and the issues surrounding their conservation and recovery. I accepted my current position as Senior Staff Fisheries Biologist for the Central Utah Water Conservancy District in

1998. At this time, my professional focus is on developing collaborative approaches to the conservation and recovery of native species while considering and incorporating the needs of an increasing human population.

I joined the American Fisheries Society in 1984 and have held membership in the New York, Colorado/Wyoming, and Bonneville Chapters. While a graduate student, I served as Secretary and Vice President of the University of Wyoming Student subunit. In 1997, I was presented with a citation for the most significant paper in the 'Transactions of the American Fisheries Society' for a publication resulting from my graduate work. I served on the Bonneville Chapter Executive Committee for four years, and as President in 2000. I organized the plenary session and served as Program Committee Chair for the Bonneville Chapter annual meeting in 1999, and have been recognized with two merit awards from the Chapter. I served as chair of the Endangered Species Committee for the parent society in 2001 and continue on that committee as vice-chair this year. I have organized and moderated sessions at Chapter and Division meetings and presented papers at Chapter, Division, and parent society meetings. Perhaps my most satisfying achievement as an AFS member, however, came at last year's annual meeting in Phoenix when I arrived victorious at the Spawning Run finish line - an encouraging event for one trudging through the sobering realities of middle-life.

The Western Division is composed of remarkable professionals that provide a representation of the diversity within our profession. As members of AFS, we have the "responsibility to serve and manage aquatic resources for the benefit of those resources and of the public . . . (Standard for Professional Conduct, Adopted by the Governing Board, August 1997)." Our aquatic resources have been hammered, in no small part due to past mistakes of our own profession. Many of the threats to our aquatic resources are common throughout the west, and beyond. I would encourage the Division to focus the expertise of our membership in areas where we, as professionals, have influence and opportunity to improve the degraded condition of our aquatic resources. In areas where our membership's influence is limited, I would encourage the Division to collaborate with those entities that have influence, such that aquatic resources are given due consideration and opportunities for their enhancement can be pursued.

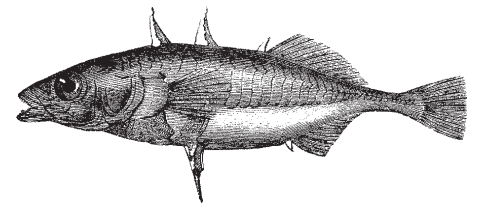
Recent Division EXCOMs have made great strides toward improving communication between the Chapters and the Division. As a

member of the EXCOM, I would continue to pursue mechanisms to facilitate communication within the Division, and also seek opportunities to open lines of communication with outside parties to promote the Division as an information resource, and our membership as leaders in the protection of our aquatic resources.

Lynn Starnes

Lynn Starnes is currently the Assistant Regional Director for Fisheries in the Southwest Region (Region 2) of the Fish and Wildlife Service (Service). Located in Albuquerque, the field stations that she supervises in Arizona, New Mexico, Texas and Oklahoma deal with a variety of issues revolving around habitat modification, operation of hatcheries, restoration of native species, control of invasive species and water. An important aspect of this position is working with people from state and Federal agencies, environmental organizations and fishing organizations. Currently, she is involved in planning efforts with the Sportfishing and Boating Partnership Council and within the Service to determine the national future and outlook for the Fisheries Program in the Service.

Lynn has served a variety of roles within the American Fisheries Society and has been a member since 1975. She is currently finishing a three year term on the Time and Place Committee for AFS. She has served on the Common Names of Invertebrates Committee since its inception. She served the Western Division as Secretary Treasurer. In the past, she has served as Raffle Committee chair and served as co-chair/chair of the Environmental Concerns Committee. She served as Chair of the International Fisheries Committee and was involved in the International Fisheries Conference in Athens Greece. She is a

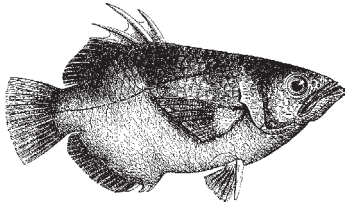


member of the Fish Administrators, Native Peoples Fisheries, Water Quality, and other sections.

Lynn started her career by teaching science in The Gambia in West Africa (1972-4). She returned to complete a M.S. in Aquatic Ecology from the University of Tennessee in 1976 while working part-time at the Tennessee Valley Authority. She worked there in a variety of

Candidate Profiles (cont.)

programs including stream impacts from mining and projects experimenting with reclamation techniques. While working for the Tennessee Valley Authority, she completed a number of reports, peer-reviewed papers and book chapters related to her research. In 1984 she transferred to the U. S. Fish and Wildlife Service in Washington D. C. Her work experience encompassed every fishery program handled by



the Service. Highlights included implementation of regulations related to marine mammals, involvement in legislation and program to recover Atlantic striped bass, and legislation related to Pacific salmon. After DC, she moved to Denver to become Assistant Regional Director for Fisheries and Federal Aid from 1989 to 1991. In 1992 she moved to Albuquerque and has filled several positions.

The Western Division has been a leader in the American Fisheries Society for as long as I have been associated with it and I would like to see its outstanding accomplishments continue. There are areas where we can make improvements/changes:

- I would like to see a western fishes "Summit", involving as many societies related to native fishes as we can gather, to see if we can concentrate our collective efforts on the recovery of several western species. A few groups that come to mind include the Desert Fishes Council, American Rivers, Trout Unlimited, and the Federation of Fly Fishers.

- I will work with existing committees and chapters to identify issues of concern to the Society at this level. The Society needs to address many of our issues sooner and more aggressively. I would help to coordinate the development of position papers.

- An aspect of rapidly elevating issues is enhancing open and creative communication at all levels of the Society.

- Aquatic Nuisance Species are the threat of the present and the future. Current legislation needs to be strengthened so that involved agencies can mount "Rapid Response Teams" similar to that mounted to fight forest fires. The Western Division can play a major role in shaping how

this Nation deals with invasive species.

- If elected, I would like to spend the year of my presidency dedicated to developing "partnerships" on behalf of the Western Division. While this may be an overused term in some circles, I think that we have not come close to fulfilling the potential of partnerships when focused on any given watershed or issue. Local landowners can be part of the solution to any issue. While it takes time to get Federal and State agencies empowered to deal with a specific problem, we can garner the collective will of our partners on an issue that is the highest priority of the Western Division in the time frame that I would be an officer!

Nominating Representative

Steve Wolff

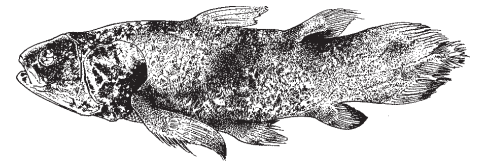
Steve Wolff currently serves as the Aquatic Habitat Program Manager for the Wyoming Game and Fish Department. He holds an M.S. in Water Resources and a B.S. in Fisheries, both from the University of Wyoming. The majority of his career has been spent with the Wyoming Water Research Center as a research associate, and with the Wyoming Game and Fish Department as an aquatic biologist. Steve has also worked throughout the western United States conducting instream flow assessments and aquatic habitat evaluations for private consulting firms.

Steve has been a member of the American Fisheries Society since 1980, a life member since 1990, and is a Certified Fisheries Scientist. He has served a variety of roles in the AFS community, and currently serves on the AFS Board of Professional Certification. Steve has been on the Board of Directors for the Wyoming Riparian Association since 1996, just recently completed a tenure on the Western Governors Association TMDL Committee, and currently serves on the National Partnerships Whirling Disease Steering Committee.

Steve was awarded Employee of the Year 2000 by the Office of the Director of the Wyoming Game and Fish Department, and currently is involved with the Department's Leadership Development Program. His current professional interests are focused on the restoration of watershed systems to benefit native aquatic species.

Kathryn Staley

Kathryn B. Staley is the fishery biologist for the Wildlife Habitat Management Institute of the USDA Natural Resources Conservation Service.



She is also a member of the faculty in the Department of Fisheries and Wildlife at Oregon State University. Kathryn's responsibilities for the Institute include development of conservation standards for NRCS that protect, improve, or restore aquatic and riparian habitats on non-federal lands. She is also overseeing the development of a National Biological Resources Handbook for NRCS. She collaborates in research on the role of agricultural drainage systems on aquatic species in the Willamette Valley and the effects of floodplain and riparian restoration actions on fish populations and habitat in large rivers. She is currently co-editing a book on the *Ecology and Management of Wood in World Rivers*, to be published by AFS this year. Prior to joining the Institute at OSU, Kathryn worked as a fish biologist for the US Forest Service for 7 years. From 1984 to 1990, she was a research assistant at Northern Arizona University where she studied the spawning behavior of Atlantic salmon in Newfoundland, and feeding ecology of Lee's Ferry rainbow trout in the Colorado River.

Kathryn is a member of the Oregon Chapter of AFS where she chaired the Education and Outreach Committee from 1997 to 2000. She is currently the Chair of national AFS's Endangered Species Committee.

She received her graduate degree at Oregon State University in 1984 from the Department of Zoology where she studied smolt physiology of coho salmon.



Abstracts of Interest

Pacific Salmon and Wildlife: Ecological Contexts, Relationships, and Implications for Management

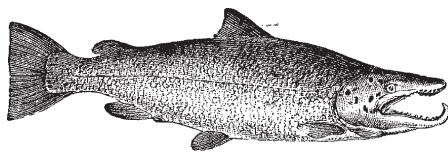
Cederholm, C. J., and 13 coauthors. 2000. *Pacific Salmon and Wildlife: Ecological Contexts, Relationships, and Implications for Management. Special Edition Technical Report, Prepared for D. H. Johnson and T. A. O'Neil (Managing directors), Wildlife-Habitat Relationships in Oregon and Washington. Washington Department of Fish and Wildlife, Olympia, Washington.*

Details of this report can be viewed on the Washington Department of Fish and Wildlife web page: <http://www.wa.gov/wdfw/hab/salmonwild/>

Abstract

There are seven indigenous salmon and trout of the genus *Oncorhynchus* in Washington and Oregon (Chinook, coho, chum, sockeye, and pink salmon, and steelhead and cutthroat trout), for this paper we will collectively call them salmon. Their habitat extends from the smallest inland streams to the vast North Pacific Ocean, an area of freshwater, estuarine, and ocean habitats in excess of 4 million km². Due to past commercial fisheries, habitat loss, hatchery problems, and more recently a changing ocean environment, salmon populations have shown substantial decline over the past several decades. Many salmon stocks in Washington and Oregon are now listed as either threatened or endangered, under the Federal Endangered Species Act.

Early in the 1900's and up until relatively recently, commercial fishing permanently diverted massive quantities of nutrients away from Washington and Oregon rivers, and their respective fish and wildlife inhabitants. Recent calculations indicate that only 3 percent of the marine-derived biomass once delivered by anadromous salmon to the rivers of Puget Sound, the Washington Coast, Columbia River, and the Oregon Coast is currently reaching



those streams. There have also been many other losses of salmon habitat during this period caused by: river channel clearing and channelization, log driving and splash damming, extensive land clearing, major water diversions, livestock grazing, mining runoff pollution, logging road associated erosion and removal of the old growth forest, filling and diking of wetlands and estuaries, hydroelectric dam development, urban runoff, water and sediment

contamination with toxicant, and recently recognized human induced oligotrophication of waterways. Overfishing and habitat degradation, together with a background of a changing ocean environment, have cumulatively reduced stock resilience. A century of hatchery programs have failed to rebuild the wild runs, and in many cases, likely contributed to their further declines. Modern salmon management techniques have become highly sophisticated, however, they have not been able to keep pace with the salmon population declines.

The life history of anadromous salmon covers time spent in freshwater, estuaries, and the ocean. Freshwater habitats are mainly used for spawning, incubation and juvenile rearing; estuaries are where juveniles put on critical rapid growth and make important osmoregulatory adjustments as they transition between fresh and saline waters; and the ocean is where significant feeding results in most of the body mass of the returning adults. Throughout their life salmon feed on a wide variety of prey organisms, including many kinds of freshwater and marine invertebrates and fishes; and at the same time, are fed upon by a wide variety of invertebrate and vertebrate predators and scavengers.

Juvenile salmon are known to feed directly on salmon carcass flesh, salmon eggs, and aquatic macroinvertebrates that may have previously fed on salmon carcasses. Research has uncovered significant contributions of nutrient from spawning salmon to the collector-gatherer macroinvertebrate community. Caddisflies, stoneflies, and midges are involved in processing the microbially conditioned salmon carcass flesh. Increase in aquatic macroinvertebrate density from the introduction of salmon carcasses stimulates feeding by early life stages of select salmon species. Other stages of the salmon life cycle also contribute to the macroinvertebrate food base, such as some stonefly nymphs, when they scavenge dead pink and chum salmon embryos and alevins within the gravelbed.

A recent study of consumption of salmon by vertebrate wildlife found 137 species of birds, mammals, amphibians, and reptiles were predators or scavengers of salmon at one or more stages of the salmon life. Of this group of wildlife species, 9 species had a *Strong-Consistent* relationship, 58 a *Recurrent* relationship, 25 an *Indirect* relationship, and 65 had a *Rare* relationship (the tally is more than 138 because 19 species have more than one type of relationship with salmon). These species were further examined as to the life cycle stage of salmon to which they were linked. The five salmon life stages, and the number of wildlife species associated with each (in parenthesis) were: Incubation (23); Freshwater Rearing (49); Saltwater (63); Spawning (16); and Carcasses (83) (this tally of wildlife species totals more than 137 because 66 species of wildlife are associated with salmon at several life stages).

Salmon act as an ecological vector, important in the transport of energy and nutrients between the ocean, estuaries, and freshwater environments. The flow of nutrients back upstream via spawning salmon and the ability of watersheds to retain them plays a vital role in determining the overall productivity of salmon runs. As a seasonal resource, salmon directly affect the ecology of many aquatic and terrestrial consumers, and indirectly affect the entire food web. The challenge for salmon, wildlife, and land managers is to recognize and account for the importance of salmon not only as a commodity resource to be harvested for human consumption, but also for their crucial role in supporting overall ecosystem health. It is also important that naïve view of wildlife as only consumers of salmon be abandoned. Many species of wildlife for which hard earned environmental laws and significant conservation efforts have been established (e.g., grizzly bears, bald eagles, river otters, killer whales, beaver), play key roles in providing for the health and sustainability of the ecosystems upon which salmon depend. As the health of salmon populations improves, increases in the populations of many of the associated wildlife species would be expected. Salmon and wildlife are important co-dependent components of regional biodiversity, and deserve far greater joint considerations in land management planning, fishery management strategies, and ecological studies than they have received in the past.

Other related articles:

- Cederholm, C. J., and N. P. Peterson. 1985. The retention of coho salmon (*Oncorhynchus kisutch*) carcasses by organic debris in small streams. *Canadian Journal of Fisheries and Aquatic Sciences* 42:1222-1225.
- Cederholm, C. J., D. B. Houston, D. L. Cole, and W. J. Scarlett. 1989. Fate of coho salmon (*Oncorhynchus kisutch*) carcasses in spawning streams. *Canadian Journal of Fisheries and Aquatic Sciences* 46:1347-1355.
- Cederholm, C. J., R. E. Bilby, P. A. Bisson, T. W. Bumstead, B. R. Fransen, W. J. Scarlett, and J. W. Ward. 1997. Response of juvenile coho salmon and steelhead to placement of large woody debris in a coastal Washington stream. *North American Journal of Fisheries Management* 17:947-963.
- Cederholm, C. J., M. D. Kunze, T. Murota, A. Sibatani. 1999. Pacific salmon carcasses: Essential contributions of nutrients and energy for aquatic and terrestrial ecosystems. *Fisheries* 24(10):6-15.

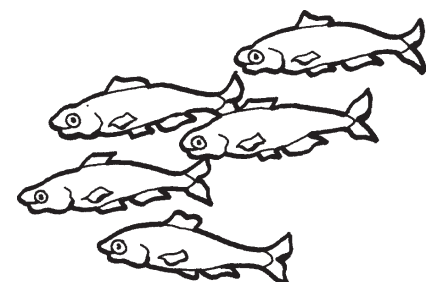
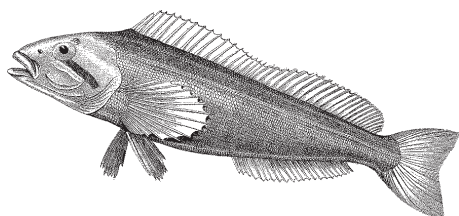


Photo Highlights of the 2001 Western Division AFS Annual Business Breakfast



WDAFS President Bill Bradshaw gives his "State of the Division" speech. Note the handsome WDAFS hat.



2001 WDAFS Officers. Left to right: Eric Knudsen, President-Elect; Don McDonald, Vice President; Bill Bradshaw, President; Ed Cheslak, Secretary/Treasurer; and Ken Hashagen, Past-President.



Allen Bingham (l) receives the Award of Special Recognition from Ken Hashagen for outstanding work on the WDAFS web site.



Head table dignitaries listened to the discussion on the WDAFS Grants Funding Program. Left to right: Don McDonald, Vice President, WDAFS; Ken Hashagen, Past-President, WDAFS; Ed Cheslak, Secretary/Treasurer, WDAFS; Ken Beal, President-Elect, AFS; Carl Burger, President, AFS; Christine Moffit, Past-President, AFS; and Gus Rassam, Executive Director, AFS.



Ken Hashagen (r) receives his much-deserved Past-President's plaque from Bill Bradshaw.

Highlights of the Western Division 2nd Annual Executive Committee Retreat

The WDAFS 2nd Annual Executive Committee Retreat was held December 3-4, 2001 at the Alderwood Inn, Portland, Oregon. In addition to those pictured below, AFS Past President Carl Burger, WDAFS President-Elect Don MacDonald, Oregon Chapter President Tony Faast, and Greater Portland Chapter President Sean Meegan attended the retreat.

By the retreat's end, all agreed it was very worthwhile and should be continued in future years. Having a day and a half devoted to WDAFS business allows more concentrated focus on important WDAFS issues than was previously allowed by having only one Executive Committee meeting held for a few hours at the annual WDAFS meeting. The expanded time at the retreat allowed the EXCOM to deal with the following issues.

Secretary/Treasurer Report - Monica Hiner reported our balances as of December were: Savings \$41,844.18; Checking \$3,233.86; 6-months term deposits of \$12,816.68, \$12,738.06, and \$11,943.20. We discussed differences between our annual budget and actual spending, with focus on costs incurred from the printing of the Tributary and manufacturing of logo hats that are currently being sold by the Division.

WDAFS Committees - Eric Knudsen reported that all current committees had chair assignments. Several committees, such as Environmental Concerns and Policy Review currently have no issues to work on. The Riparian Committee is being revitalized under new Chair Dave Zafft. The committee annually hosts the

Riparian Challenge Awards, which recognize the USFS and BLM for riparian habitat management successes. Dave's goals as committee chair include the formation of a more complete committee; broadening the Riparian Challenge Award to include other agencies; and emphasizing riparian issues at an upcoming (possibly 2004) WDAFS meeting.

It was suggested that several new ad hoc committees be formed within the WDAFS: 1) An Electronic Communications committee; 2) A Hutton committee; and 3) A Newsletter committee. Allen Bingham (current WDAFS webmaster) agreed to serve as the chair of the Electronic Communications committee for one year. These duties will entail much of what he is already doing, but he will also invite web people from WDAFS Chapters to be part of this committee and assist in the duties of maintaining the WDAFS website, upgrading the web features to resemble the Parent Society's page, and developing a WDAFS list server.

Upcoming 2002 Annual Meeting

Don MacDonald presented plans and arrangements for the 2002 annual meeting to be held April 27th - May 1st in Spokane, Washington and we will co-convene with NPIC, Sustainable Fisheries Foundation, the Transboundary Group, and the Lake Roosevelt Forum. We are anticipating 750+ attendants. The overall meeting budget is \$220,000-250,000 and approximately \$100,000 has already been raised from sponsors. New costs for the Western Division include the WDAFS business meeting (breakfast) and WDAFS Executive Committee meeting (supper).

2003 Annual Meeting

The 2003 WDAFS will be co-convened with the California-Nevada Chapter and the location will

most likely be San Diego, California. Target dates for the meeting are April 20-24th. Tom and Dave Manning are visiting the Hyatt in San Diego (across from Sea World) in December and will report in January. This meeting will have a strong marine focus. In an attempt to increase involvement from Fisheries Professionals in Mexico, it would be ideal to establish a scholarship fund to support travel to the meeting.

2004 Annual Meeting and World Fisheries Congress Meeting

Four options were identified regarding the convening of the annual WDAFS meeting in 2004 in conjunction with the World Fisheries Congress. There was concern that if the meetings (WDAFS and WFC) were separate, Western Division members may only be able to attend one meeting and may choose either the WDAFS or Parent Society meeting and miss the opportunity to attend an international fisheries meeting such as the WFC. However, if we do co-convene, some expressed concern that the Division would be "lost in the shuffle". One way to avoid this would be to co-convene with a strong presence. It was suggested that we co-convene and sponsor a ½ day session featuring the "Best of the West"—papers selected during the Chapter Meetings and WDAFS Annual meetings that represented the best science and research in the Western Division.

After much discussion, it was decided to make a specific proposal to the World Fisheries Congress stating that the WDAFS would fundraise for the WDAFS sponsored session. The Division would raise up to \$30,000, keeping the first \$10,000. The theme of the session would be the "Best of the West". In addition, the WDAFS would hold a separate annual meeting in the fall of 2004 covering freshwater fisheries issues not covered in the WFC (marine focused) and held in an inland western state (WY, UT, or NM).

2005 Annual Meeting

The Alaska Chapter won the bid to co-convene in September 2005 with the Parent Society in Anchorage. Eric will put a motion before the Governing Board at the mid-term meeting to propose the Western Division co-convene with the parent Society and Alaska Chapter and that WDAFS would secure 10% of the net proceeds (which is standard for Chapters that co-convene with the Parent Society).

Grants Funding Program

Bill Bradshaw talked about the overall structure of the Program, which can be broken up into several parts: 1) setting up the fund (Subcommittee: Henry Booke, Ed Cheslak, Pete



Left to right, Steve Elle, President, Idaho Chapter; Tom McMahon, Vice President, WDAFS; Dave Cowley, President, Arizona - New Mexico Chapter; Larry Brown, President, California - Nevada Chapter; Eric Knudsen, President, WDAFS; Dave Zafft, Secretary/Treasurer, Colorado - Wyoming Chapter; Eric Wagner, Vice President, Bonneville Chapter; Bill Bradshaw, Past President, WDAFS; and Monica Hiner, Secretary/Treasurer, WDAFS.

Highlights of the Retreat (continued)

Bisson, Monica Hiner, Roy Waley), 2) developing funding criteria, 3) soliciting for donations, and 4) reviewing applications and awarding approved grants. Monica talked briefly about the status of the fund, which is currently being set up through Charles Schwab (a recommendation from Henry). Then, Bill talked more in depth about the Funding Criteria Subcommittee. It was agreed that the committee should not accept applications from outside the Division, and Don suggested that we develop a strategic plan for implementing funding criteria. There were also discussions about which type of projects should be given priority and whether the Division would receive royalties from grants that were used to fund publications. It was decided that priority should be given to projects with high visibility that are related to the Society's strategic plan. Bill has drafted a funding criteria document and will revise it to include comments made by the Executive Committee and send it to Eric for final approval. It was also decided that grants should be reviewed annually (deadline Oct. 31), perhaps at the annual retreat, and a decision made by December 31 for the next year's recipients. A process for making investment decisions was briefly discussed whereby Investment Subcommittee recommendations would be forwarded to the Division President and Secretary/Treasurer, for their final approval and decision. This process is essentially that followed by the Northeast Division for their investment decisions. No action was taken on this issue pending submittal of a more formal written proposal for EXCOM consideration.

Newsletter

The Executive Committee discussed in great lengths how the newsletter should be distributed—snail mail vs. electronic format. We discussed the cost of printing and distributing the newsletter, which costs approximately \$1000 to print the newsletter, \$350 to print the ballots, and between \$600 and \$1600 to mail depending on the mail class (bulk vs. first class). We discussed the possibility of emailing the ballots to decrease costs and increase member participation. We decided to mail out ballots this year and include questions regarding distributing ballots and future newsletters to determine the preference of WDAFS members. However, it was agreed by the EXCOM members that it is important to mail out at least one issue of the Tributary annually.

WDAFS Hats and Logo

Our new WDAFS hats have been selling quite well! After calculating the cost of the hats (initial plus shipping them around to different Chapters), it was decided that we should begin charging \$12

instead of \$10 so the Division can break even. Bill is checking on copyrighting our logo design for future hats, shirts, etc. The original goal of increasing WDAFS visibility has been met.

Establishment of Fundraising Committee

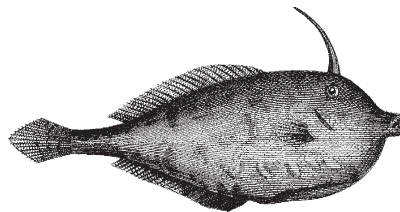
Detailed examination of the budget revealed an anticipated cash flow shortfall of approximately \$15,000 if the Division remained on the anticipated trajectory. David Cowley agreed to chair a new Fundraising Committee whose focus will be to raise money for our annual business meeting (breakfast) and executive committee meeting, those costs being the primary reason for the shortfall. Other members of the committee include Steve Elle, Monica Hiner, Don MacDonald, and Bill Bradshaw.

Ocean Policy Commission Regional Hearings

President Bush's Ocean Policy Commission hearings will be conducted on the national and regional level. The parent society has responded and is looking for individuals to assist in delivering our position as well as providing a regional response to regional issues. It was suggested that an ad hoc committee be created that would coordinate with the parent society but represent views of the Western Division. One suggestion was that a representative from each state would serve on the committee and represent AFS at regional hearings.

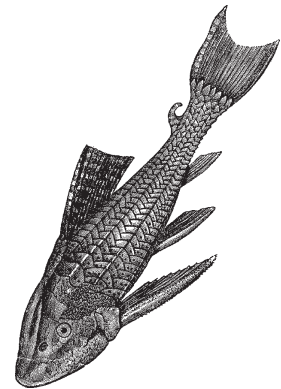
Freshwater Fishing Hall of Fame—Jerry Bouck

Jerry Bouck, a previous Western Division President (1976-77) and 40-year member of AFS, visited the meeting to inform the EXCOM about the National Freshwater Fishing Hall of Fame. The non-profit organization (based in Hayward, Wisconsin) keeps records, sets rules, and presents awards to outdoor writers, fishing guides, persons having regional impacts on fisheries, and annually adds three people to the Hall of Fame for national/international work in fisheries. Jerry visited us because the Hall of Fame rarely receives nominations from the northwest and would like increased visibility for their organization through WDAFS.



2003 WDAFS Annual Meeting in San Diego, California

We are pleased to announce that plans for the 2003 Annual Meeting of the AFS's Western Division are well underway. The meeting dates are set - April 14th to 17th, 2003 in beautiful, sunny San Diego, California. This meeting is being co-hosted and co-convened with AFS's Cal-Neva Chapter and the local arrangements are coming together quite nicely (thanks to Dave Manning, Local Arrangements Chair). The host hotel is the spacious Hyatt Islandia Hotel on Mission Bay, right next to Sea World. We are also making plans to have our major social at the Scripps Institute Birch Aquarium – what a great place!! This meeting location presents the unique opportunity to provide a forum for various marine and estuarine fisheries investigations and International (Mexico and Pacific Rim) fisheries management symposia and contributed papers. The first call for papers will be out soon, but if you have any questions about the Program or scheduling, please call (602-789-3216) or email (tcmahon@gf.state.az.us) Tom McMahon, Program Co-Chair.



Outstanding Student Paper Award

The American Fisheries Society/Sea Grant recently awarded Pete McHugh with the "Outstanding Student Paper" award for his talk given at the AFS Annual Meeting in Phoenix, Arizona, 2001. The title of Pete's paper was 'A model-based approach to assessing the potential response of selected Snake River spring/summer chinook salmon populations to spawning and rearing habitat improvements.' Pete is a Master's candidate at Utah State University, Logan, UT. His advisor is Phaedra Budy, Assistant Coop Leader, Utah Cooperative Fish and Wildlife Research Unit, Department of Fisheries and Wildlife.

Registration Form for WDAFS meeting Spokane, April 27 – May 1, 2002

Please Note: Registration fees include admission to all sessions, lunches and refreshments on the five days and the banquet.

Name: _____
 Organization: _____
 Address: _____
 City: _____ Prov./State: _____ Postal/Zip Code: _____
 Phone: (____) _____ Fax: (____) _____
 E-mail: _____

Regular Registration (After Feb. 28/02)

Canadian Funds

- ~ Individual \$425.00
- ~ Student \$275.00
- ~ Extra Banquet Tickets \$40.00

U.S. Funds

- ~ Individual \$275.00
- ~ Student \$175.00
- ~ Extra Banquet Tickets \$25.00

Exhibitor Registration (does not include admission to sessions, lunches, or banquet)

Canadian Funds

- ~ Table (6' x 2') \$195.00
- ~ Booth (8' x 10') \$450.00

U.S. Funds

- ~ Table (6' x 2') \$125.00
- ~ Booth (8' x 10') \$295.00

Method of Payment

- ~ Cheque
- ~ Money Order
- ~ Visa

Cheque or money order in the amount of \$ _____ enclosed.

Visa Acct. No. _____

Amount _____ Signature _____

Call for Volunteers

- ~ Yes, I would like to help coordinate conference registration.
- ~ Yes, I would like to help coordinate audiovisual equipment.
- ~ Yes, I would like to help with security
- ~ Yes, I would like to help with conference organization in Spokane.

Students volunteering to help with registration and/or audiovisual equipment during sessions, can have their registration fees waived if they work for a total of four 4-hour blocks of time (total commitment is 16 hrs).

Please mail or fax this form to:
 Sustainable Fisheries Foundation
 #24 - 4800 Island Highway North
 Nanaimo, British Columbia, V9T 1W6
 Phone: (250) 729-9623 Fax: (250) 729-9628

Attention Students – Come to Spokane WDAFS

The WDAFS meeting in Spokane is a great opportunity for students to network and learn more about fisheries. Students volunteering to help with registration, security, conference organization, and/or audiovisual equipment during sessions, can have their **registration fees and accommodations waived if they work for a total of four 4-hour blocks of time (total commitment is 16 hrs)**. Please note that volunteers working the full 16 hours will be sleeping four to a room. To volunteer, contact Don MacDonald at 250-729-9625 or sff@island.net. Students not volunteering to assist at the meeting will still benefit from reduced registration fees.

Student Accommodations

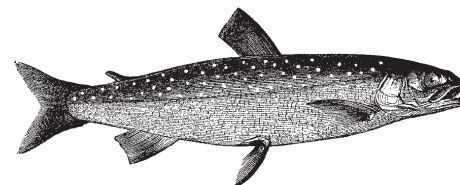
Room blocks have been reserved at the DoubleTree Hotel for conference delegates. In addition, the Travelodge, located a short distance from the Spokane Conference Center and the DoubleTree Hotel, offers room rates of \$69.95 per night. When making your reservations at the Travelodge, please let them know that you are attending the *Towards Ecosystem-Based Management* conference and would like the conference rate.

DoubleTree Hotel City Center

322 North Spokane Falls Court
 Spokane, WA 92201
 Phone: 509-455-9600
 Fax: 509-455-6285
 Single/Double: \$99 + Taxes (US)

Travelodge

W. 33 Spokane Falls Blvd.
 Spokane, WA 99201
 Phone: 509-623-9727
 Fax: 509-623-9737
 Single/Double: \$69.95 + Taxes (US)



New WDAFS Committee for Cutthroat Trout

The Western Division has been awarded a Wildlife Conservation and Restoration Project grant from Montana Fish, Wildlife & Parks to support the development of a Cutthroat Trout Conservation Documentary video. Bruce May of the US Forest Service has agreed to serve as chair of a new WDAFS committee that will oversee what is hoped to develop into a multi-state project benefiting cutthroat trout throughout the interior West. Bruce and others have developed much of the required scripting. The \$25,000 grant will support video development. Once completed, this excellent video will increase awareness of the conservation needs for cutthroat trout and hopefully generate increased support for their restoration and sustainability. We are actively seeking an AFS committee member from each state to work with Bruce to complete this partnership effort. If you are interested in helping with this project, please contact Bruce May (see committee chair info elsewhere).

Monica Hiner, WDAFS Secretary
P.O. Box 614
Klamath, CA 95548

Monica Hiner, WDAFS Secretary
P.O. Box 614
Klamath, CA 95548

Please vote for one Candidate for Vice-President and one Candidate for Society Nominating Representative, and return ballot to Monica Hiner by April 20, 2002.

Vice-President

- Chris Keleher
- Lynn Starnes.....
- Write-in: _____

Society Nominating Representative

- Kathryn Staley.....
- Steve Wolff.....
- Write-in: _____