



The Tributary



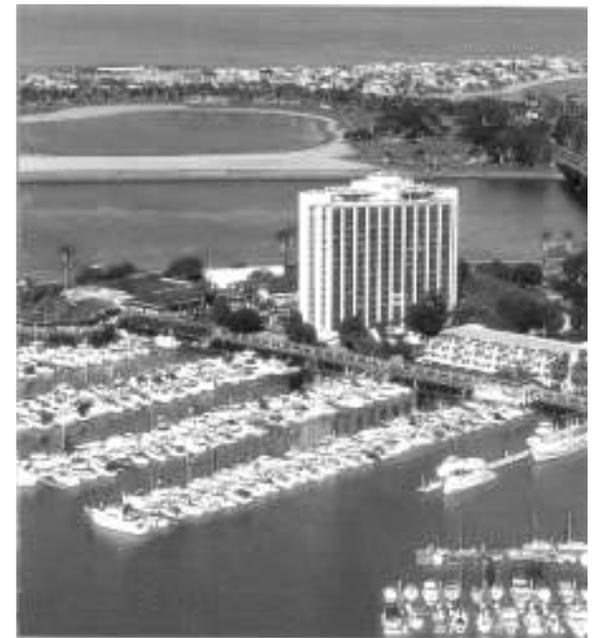
A Newsletter of the Western Division, American Fisheries Society

Volume 27, No. 1, February 2003

Welcome to the 2003 Western Division & Cal-Neva AFS Annual Meeting in San Diego

Accommodations in San Diego

The Western Division and Cal-Neva Chapter are proud to provide lodging for this year's annual meeting at the Hyatt Regency Islandia Hotel and Marina (www.islandia.hyatt.com, 1441 Quivira Rd., San Diego, CA 92109). *We've secured every room in the hotel's tower from the night of Sunday April, 13 to Thursday April, 17*



Hyatt Regency Islandia, San Diego, California

at the discounted groups rates of \$99 and \$129 per night. San Diego is a fantastic vacation destination and the Hyatt has generously extended these rates for two days before and after the meeting. Please enjoy the conference and perhaps a long weekend at this beautiful waterfront resort! Here are some important details:

- Call the Hyatt at 619-224-1234 before March 14 and mention the "American Fisheries Society" to receive the discount rates.
- Government Per Diem Rate rooms at \$99/night single and \$124/night double occupancy are available on a *First-Come-First-Served* Basis.

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for contributed papers and posters have been coming in rapidly through mid-January. Program Co-Chairs Tom McMahon and Mark Brouder, deserve special credit for setting up an excellent program. So far, there seems to be something of interest for everybody associated with the aquatic sciences, freshwater as well as marine. The extra strong marine sessions and participation from Mexican fisheries professionals will make this meeting unique in many ways.

We have also incorporated a number of opportunities for you to relax and network with your colleagues throughout the meeting. On Monday, the day is full of opportunities for upgrading your skills with an array of Continuing Education classes including Carl Burger's Leadership Training Course. We are pleased to announce that the inaugural meeting of the California Estuarine Research Society will be held at the Hubbs Sea World Research Institute's Auditorium near the Hyatt Islandia on Monday. The day will end with the AFS "Welcome to San Diego" social at the Hyatt.

On Tuesday, we will begin the day with our Plenary Session entitled, *Global Fisheries Sustainability: Challenges and Prospects for North American Fisheries and Beyond?* which will feature Carl Burger, Past President of AFS, Gilbert Parent, Canada's Ambassador for the Environment, Dr. Salvador Contreras Balderas, Universidad de Nuevo Leon-retired, and Dr. Bill Hammond, Florida Gulf Coast University. A number of symposia and technical sessions, as well as the Exhibit Show and Posters, will follow the Plenary Session.

On Wednesday, the day will begin with the Grunion Run, followed by a full day of symposia and technical sessions. The WDAFS Business Luncheon is scheduled for this day, so mark it on your calendar because you don't want to miss it. The day will end at the world renowned Scripps

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Dear WDAFS Members,

The Western Division and California-Nevada Chapter of AFS invite you to attend the Joint Annual Meeting of WDAFS and the Cal-Neva Chapter, which will be held April 14-17, 2003 in San Diego, California. This year's meeting will be at the beautiful Hyatt Islandia Hotel, located on Mission Bay, right across the street from Sea World. The location for this meeting provides the perfect backdrop for an exciting meeting on lake, stream, estuarine, and marine issues. We believe that this will be one of the best meetings that WDAFS and Cal-Neva have ever hosted and will provide a great opportunity for information exchange and building new partnerships. We are very excited about the incredible response we have received from our Mexican colleagues, and we have planned a number of activities that highlight international fisheries, professionalism, and AFS throughout western North America.

The Cal-Neva Chapter is pleased to provide the local arrangements for the 2003 WDAFS and Cal-Neva Annual Meeting. Many of the Cal-Neva Chapter members had a taste of hosting the parent AFS Meeting in Monterey in 1997 and the WDAFS meeting in Sacramento in 1993. We are confident in Local Arrangements Chair Dave Manning and his committee members' expertise for providing us with an exciting location and well-organized meeting, lodging, arrangements, and entertainment. Because of the high rewards of hosting meetings such as these, Chapter members are ready to take our turn and serve AFS again.

We are very pleased with the way the program is coming together. There are 21 symposia scheduled and abstracts

The Tributary is distributed to 3,741 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 30, 2003.

President's Message

WDAFS's Role in Ecosystem-Based Management

People throughout the West and elsewhere in North America share a common desire to have our aquatic resources managed in a manner that assures the long-term integrity of freshwater ecosystems, including the



humans that depend on these resources. This overwhelming concern over the fate of our aquatic resources has given rise to a plethora of legislation and initiatives by the federal, tribal, state, and provincial governments, which share the authority to manage aquatic resources. Yet, in spite of our best efforts, we have not succeeded, and are unlikely to, until

these disparate efforts are effectively integrated into an ecosystem-based framework that encompasses all of the jurisdictions that share these resources. Implementation of such an approach requires the development of an integrated set of policies and practices that place human activities in an ecosystem context, instead of the external resources or environments with which they interact. That is, the preferred approach is one that views aquatic ecosystems and people as inextricably linked and recognizes that decisions affecting the well-being of our aquatic resources will also influence our economy, culture, and communities - both now and in the future.

The ecosystem approach is not a new concept and does not hinge on any one program, definition, or action. The Canadian Council of Ministers of the Environment (CCME) has defined the ecosystem approach as a geographically comprehensive approach to environmental planning and management that recognizes the interrelated nature of environmental media and that humans are key components of ecological systems. It places equal emphasis on concerns related to the environment, the economy, and the community. This approach recognizes that it is human activities, rather than the ecosystem itself, that must be managed. Adopting the ecosystem approach means viewing the basic components of the ecosystem (i.e., air, water, land, and biota) and its functions in a broad context - one that effectively integrates environmental, social, and economic interests into a decision-making framework that embraces the concept of sustainability. In turn, this expanded view of the ecosystem helps shape the planning, research, and management decisions that are made collectively by government agencies, First Nations/Tribes, industry, and other stakeholders.

The CCME has developed a framework for ecosystem-based management based on the lessons learned from a number of ecosystem initiatives. This framework describes a four-step process to support informed decision-making. The first step in the process involves the identification and assessment of the key issues and collation of the existing ecosystem knowledge base, with a focus on ecosystem science, socioeconomic information, historical resource use patterns, and traditional knowledge. In the second step of the process, stakeholders utilize the common knowledge base to support the formulation of a common vision for the future of the ecosystem. In turn, this long-term vision forms the development of ecosystem goals and more specific ecosystem objectives that clearly articulate

societal values relative to the management of natural resources (i.e., through consultation with competing users of ecosystem resources). The third step is to select a suite of ecosystem health indicators that provide information on the status of the ecosystem as a whole and can be used to track progress toward the ecosystem goals and objectives. As salmon are keystone species in many ecosystems throughout their range, the key indicators of ecosystem health are likely to provide information that is directly relevant for assessing the status of salmon populations. Such indicators are supported by metrics, which identify the variables that need to be measured to assess the status of each indicator, and targets, which define the acceptable ranges for each metric. In the final step of the process, the data gaps and information requirements that are identified during steps one through three are addressed through the design and implementation of directed research and monitoring programs. Implementation of these four basic steps provides the information and guidance needed to make informed decisions regarding the management of natural resources.

This framework is intended to support sound management decisions that help to protect, maintain, restore, and enhance ecosystem health. To be effective, however, decision-making processes must be accessible to all stakeholders, including communities of place (i.e., encompassing the residents within a watershed, including individual First Nations, community stewardship groups, and the public) and communities of interest (i.e., encompassing those groups with a legitimate interest in the watershed, including government agencies, First nations, industry, non-government organizations, and others). Indeed, full implementation of ecosystem-based management necessitates the development of cooperative decision-making processes, in which all interested stakeholders participate as partners. The keys to the success of such processes will include fostering effective communication among participants regarding resource management issues and interests, conducting broadly-based consultations with stakeholders to encourage participation, developing creative, consensus-based solutions to the challenges that we are facing, and building collaborative management strategies that engage all interested stakeholders. The development of water use plans and watershed management plans represent two important vehicles for sharing authority, responsibility, and accountability for decision-making among the partners. Importantly, these processes provide a basis for clearly describing the actions that should be taken to achieve the ecosystem goals and objectives, and for identifying the participants who are responsible for implementing each of those initiatives.

As a Division, we can play a number of important roles in the ecosystem-based management process. Consistent with the goals that have been established in our strategic plan, WDAFS has developed a work plan that focusses on promoting aquatic stewardship; providing leadership in information transfer and outreach; and, providing excellent member services (please see October, 2002 edition of the *Tributary* for more information).

Importantly, the priorities that have been established in the work plan are likely to directly support the ecosystem-based management process. First, WDAFS members have their fingers on the pulse of aquatic resource management issues throughout the West and, as a result, are well positioned to identify and assess key issues that have the potential to influence fisheries sustainability. And, no group is better prepared to share science-based information with stakeholders!! Together, these two

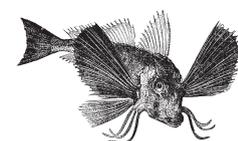
roles support ecosystem-based management by providing stakeholders with the information that they need to develop broad, consensus-based goals and objectives that clearly articulate societal values for natural resource management. With AFS's reputation as an impartial, science-based organization, we are well positioned to help facilitate this step in the process by helping to organize and empower local watershed groups who broadly represent the interest groups within drainage basins. WDAFS members can also provide important input on the selection of ecosystem health indicators (and associated metrics and targets) that will provide stakeholders with a means of tracking progress towards the goals and objectives that were established in the second stage of the process. Finally, WDAFS needs to play a larger role in helping to open decision-making processes to all stakeholders, including communities of place and communities of interest. We can do this by fostering communication among participants, enabling and promoting consultation, advocating shared decision-making, and building collaborative management strategies that engage all stakeholders.

Finally, we, as a Division and as a Society must play a leadership role in strengthening the linkage between decision-making authority and accountability. Without this final step, key management decisions will continue to be made with the short-term vision in mind. When I recently re-read John Steinbeck's (1954) *Sweet Thursday*, I was taken by these lines.

“When the war came to Monterey and to Cannery Row everyone fought it more or less, in one way or another. When hostilities ceased everyone had his wounds. The canneries themselves fought the war by getting the limit taken off fish and catching them all. It was done for patriotic reasons, but that didn't bring the fish back. As with the oysters in *Alice*, ‘They'd eaten every one’ It was the same noble impulse that stripped the forests of the West and right now is pumping water out of California's earth faster than it can rain back in. When the desert comes, people will be sad; just as Cannery Row was sad when all the pilchards were caught and canned and eaten. The pearl-gray canneries of corrugated iron were silent and a pacing watchman was their only life. The street that once roared with trucks was quiet and empty”

We don't have to look very hard within the geographic area of the Western Division for numerous contemporary examples of this short-sighted management approach - drilling in the Arctic National Wildlife Refuge in Alaska, coal bed methane extraction in Wyoming and Montana, water-intensive agriculture in the Klamath Basin, etc. The Environmental Concerns Committee and the Fisheries Sustainability Committee have been established to enable us, as a Division, to effectively address key aquatic resource management issues, such as these, in the West. If you haven't done so already, I invite you to join one or both of these important committees. By working together, we truly can make a difference.

Don MacDonald
President
Western Division American Fisheries Society



2003 Western Division Chapter Meetings

The following are dates, locations and contact information for Chapter Meetings in 2003. Chapter web sites are in italics.

Alaska

3-6 November, Fairbanks, AK,
Tim Joyce (907) 424-4747
http://www.fisheries.org/afs-ak/

Arizona - New Mexico

6-8 February, Gallup, NM,
http://leopold.nmsu.edu/nmcws/Default.htm
http://www.fisheries.org/aznm/

Bonneville

4-6 March, Grand Junction, CO,
Eric Wagner, (435) 752-1066
http://www.fisheries.org/bonneville/

California - Nevada

14-17 April, San Diego, CA,
David Manning, (707) 547-1988
http://www.afs-calneva.org/

Colorado - Wyoming

4-6 March, Grand Junction, CO,
Eric Wagner, (435) 752-1066
http://www.fisheries.org/co-wy/

Hawaii

25 January, Maui, HI,
Dwayne Meadows (808) 879-4921
http://home.hawaii.rr.com/ikehara/afshi/index.html

Humboldt

18-19 March, Arcata, CA,
Dana R. McCanne, (707) 825-7350 ext. 3
http://www.northcoast.com/~humbafsf/

Idaho

27 February - 1 March, Boise, ID,
Vaughn L. Paragamian, vparagam@idfg.state.id.us
http://www.fisheries.org/idaho/

Montana

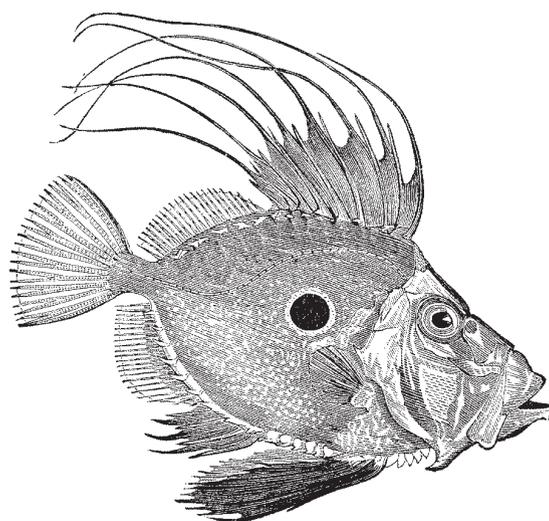
12-14 February, Great Falls, MT,
Steven Leathe, (409) 454-5855
http://www.fisheries.org/AFSmontana/

North Pacific International

(See article on page 15)
4-5 April, Vancouver, British Columbia
Westin Bayshore Hotel
http://www.fisheries.org/npic/

Oregon

26-28 February, Eugene, OR,
Dave Ward, (503) 657-2000 ext. 402
http://oregonstate.edu/groups/orafs/index.html



**Vote for your next
Vice President, see page 14!**

WDAFS Committees

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Bull Trout Committee Shelley Spalding 360-753-7762 shelley_spalding@fws.gov	Cutthroat Trout Conservation Documentary Committee Ken McDonald, Co-Chair kmcDonald@state.mt.us Bruce May, Co-Chair 406-587-6707 bmay01@fs.fed.us	Electronic Communications Committee Mary Whalen 907-786-3496 mary_whalen@usgs.gov
Environmental Concerns Committee open	Eugene Maughan Scholarship Committee Robert Greswell 541-750-7410 Robert_Gresswell@usgs.gov	Grants Funding and Investment Committee Bill Bradshaw 307-672-7418 Bill.Bradshaw@wgf.state.wy.us
Investment Sub-Committee Henry Boone 541-745-9091 hnbooke@juno.com	Hutton Committee Casey L. Harthorn, Co-Chair 505-522-9796 CHarthorn@state.nm.us Cindy Williams, Co-Chair 406-247-7719 cwilliams@gp.usbr.gov	Local Arrangements Committee Dave Manning 707-547-1988 dmanning@scwa.ca.gov
Membership Committee Lynn Starnes 505-248-6620 Lynn_Starnes@fws.gov	Newsletter Committee Chair Mary Whalen 907-786-3496 mary_whalen@usgs.gov	Nominating Committee Eric Knudsen 907-786-3842 Eric_Knudsen@usgs.gov
Policy Review Committee Jeff Barrett, Co-Chair 707-764-4408 barrett@scopac.com Scott Haskell, Co-Chair 612-625-0280 haske003@umn.edu	Program Committee Tom McMahan, Co-Chair 602-789-3216 tmcMahon@gf.state.az.us Casey L. Harthorn, Co-Chair 505-522-9796 CHarthorn@state.nm.us	Riparian and Watersheds Committee Dave Zafft 307-745-5180 david.zafft@wgf.state.wy.us
Sustainable Fisheries Committee Michael F. McGowan 415-338-3514 mcgowan@sfsu.edu	Time and Place Committee Dave Lentz 916-358-2831 Dlentz@dfg.ca.gov	Western Native Fishes Committee Lynn Starnes 505-248-6620 Lynn_Starnes@fws.gov Jim Tilmant 970-225-3547 jim_tilmant@nps.gov

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Riparian, Watersheds and Habitat Committee Progress Report

The Riparian, Watersheds and Habitat Committee revised the entry format for the 2003 Riparian Challenge. The entry format was more clearly defined and nominations were limited to 4 pages of text. The committee solicited nominations for the 2003 Riparian Challenge. Letters were sent to the USDA Forest Service and Bureau of Land Management in mid-October 2002 and all information related to the Riparian Challenge has been updated on the Division website. The deadline for nominations was February 3, 2003. The Riparian Challenge Subcommittee will then judge the nominations and select award winners. Winners will receive the Western Division's Award of Excellence in Riparian Management at the annual business meeting in San Diego.

The committee also reviewed the history of the Riparian Challenge and continued work on a Committee History and Procedures Manual. The manual will be completed by the time of the 2003 annual business meeting. A topic that has routinely come up over the years has been how to recognize exceptional riparian management projects that are conducted by entities other than the USFS or BLM.

Since the inception of the Riparian Challenge, the BLM and USFS have been eligible for up to three awards each, depending on the number of entries. BLM awards included Best Resource Area, Best District and Best State. Similarly, USFS awards included Best Ranger District, Best National Forest and Best Region. Many years ago, the Riparian Challenge nomination consisted of a short form that was sent to all the BLM and USFS offices. Participants simply filled in the blanks on the nomination form and returned it to the Riparian Committee. As a result, large numbers of nominations were received and many awards were routinely given. In an effort to allow more detailed descriptions of the projects, the nomination form was later abandoned in favor of a more detailed report describing each project. Over the years, these reports grew to many pages and the number of applications subsequently began to dwindle. It has been a number of years since either agency received more than one award. However, other entities have continued to express interest in nominating projects.

Following discussions at the 2003 Western Division Excom Retreat and with representatives of the USFS and BLM, the committee has decided to revise the Riparian Challenge after 2003. Beginning in 2004, three awards will be presented. One award will be given to recognize the best riparian habitat management project submitted by the USFS. A second award will recognize the best BLM project. Beginning in 2004, a third award will be presented to the best project submitted by any entity other than the USFS or BLM. This award will be open to private consulting firms, state agencies, conservation organizations and any other groups that would like to nominate a riparian habitat project for the award. The judging criteria will be revised again in 2003 and will emphasize watershed scale projects and holistic habitat management.

As a result of these modifications:

- The number of potential awards will be reduced from six to three.
- The BLM and USFS will each retain an award to recognize the best project conducted by each agency.
- A third award category will be available to recognize other agencies or organizations.

Nominations will continue to be solicited from the USFS and BLM at least three months prior to the application deadline. Announcements for the Riparian Challenge will continue to be posted in the Division newsletter and on the web site.

The Riparian, Watersheds and Habitat Committee will also arrange a symposia session for the 2004 Western Division meeting in Salt Lake City. Don Wiley, President of the Bonneville Chapter, is the session chair. The committee will also begin work on a continuing education workshop for the 2004 meeting.

In 2003, the committee was asked to represent AFS on the Society for Range Management's (SRM) Range Environmental Assessment Program (REAP) task force. The goal of the REAP initiative is to provide ranchers with a mechanism to promote voluntary environmental stewardship and self-regulation. The tool would identify the environmental shortcomings of the operations of participating ranchers and provide opportunities for them to correct problems before violating federal laws, thereby reducing the need for federal oversight and regulation.

The SRM REAP task force had their first meeting in Flagstaff, Arizona in August 2002. One of the issues identified at this meeting was who to involve on the task force. The group realized that specialists in other natural resource fields were needed. They decided to invite representatives from each of the following organizations to join the task force: American Fisheries Society, Wildlife Society, Grazing Land Committee of the National Association of Conservation Districts, and the California Rangeland Watershed Program. The group also decided that the National Cattleman's Beef Association (NCBA) must "buy into" REAP in order for it to succeed.

The second REAP meeting was held in Denver, Colorado in October 2002. Mathew Varner (District Fishery Biologist, BLM, Winnemucca Field Office) and Steve Wolff (Aquatic Habitat Supervisor, Wyoming Game and Fish Department, Cheyenne) attended as representatives of the Western Division of AFS. The task force discussed and revised the goals and objectives of REAP. Some of the objectives identified were to: 1) Promote voluntary environmental stewardship, 2) Improve public perception of rangeland utilization, 3) Move agriculture toward self-regulation, and 4) Sustain rangeland environments through ecosystem stewardship, while maintaining or improving economically viable rangeland operations.

The plan is for independent assessment teams to evaluate ranching operations. The task force identified the variables that the teams would evaluate. These included things like soil stability, water quality, riparian vegetation, wetlands, etc. The task force then discussed who the REAP assessors should be and the necessary qualifications.

The REAP can't succeed without the support of NCBA. However, NCBA participants explained that several groups wanted their support for similar programs and that they had to decide which to support. They decided to support to no one at this time and to review all of the programs, prior to making a decision at their annual meeting in late December 2003. The REAP task force decided to assemble the information necessary for the NCBA to evaluate the REAP proposal.

A third meeting of the REAP task force will be held in conjunction with the National Meeting of SRM in Casper, Wyoming in February 2003. Dave Zafft will attend the REAP meeting as the AFS representative.

Submitted by Dave Zafft
Riparian, Watersheds and Habitat Committee

Lake Davis Pike Statement of the California-Nevada Chapter AFS at the Lake Davis Coalition Meeting (January 13, 2003)

My name is Chuck Knutson, current President of the California-Nevada Chapter of the American Fisheries Society. I am here representing the views of the Executive Committee of our Chapter, which has approximately 500 active members from the fishery science profession, including employees in Federal, State, and local governments, academia, and private consulting firms. Our Chapter is the one of the largest in North America and has been in existence since 1963, and is part of a larger parent society, the American Fisheries Society, which has approximately 10,000 members across North America and has been in existence since 1870. I brought along some AFS brochures for those who are interested in finding out more about our organization.

In a letter dated February 23, 2000, to Robert Hight, Director of the CDFG, signed by then Chapter President Mike Meinz, our Chapter stated that the objective of the plan entitled, "Managing Northern Pike at Lake Davis: A Plan for Y2000", should be eradication of northern pike from Lake Davis and its tributaries rather than containment and control. The risk of northern pike spreading to other waters and causing irreversible harm to California's natural resources, including sport and commercial fisheries, and threatened and endangered native species, was thought to be too high. Our Chapter offered its expertise in assisting the CDFG in any future re-drafting of the Y2000 Plan.

In a letter dated April 8, 2002, to Diana Jacobs, Special Advisor to the Director of CDFG, then Chapter President Larry Brown commended the Department for its efforts in working with and gaining the trust of the Lake Davis community. The Chapter continued to believe that the near-term goal should be complete eradication of northern pike from Lake Davis as soon as possible by any acceptable means, because anything less would put the multi-million dollar restoration effort in the Sacramento-San Joaquin Delta system and other nearby waters at unacceptable risk should pike escape Lake Davis. The Chapter expressed the belief that a well-planned chemical treatment would provide the best chance for eradicating the pike but would certainly be willing to support other methods with a high probability of success. The Chapter stated its interest in helping the CDFG by attending a Lake Davis Steering Committee meeting, providing technical review on the development and application of new tools that the CDFG might use in its efforts, and continuing a dialogue with the Department so that the Chapter may stay apprised of future and ongoing efforts related to the Lake Davis situation and the Department may stay apprised of any changes in the Chapter's position.

In a letter dated September 24, 2002, to Fran Roudebush, Chair of the Lake Davis Steering Committee, current President Chapter Chuck Knutson thanked the Committee for a productive meeting that Chapter member Dr. Dave Vanicek and he had with the Steering Committee on July 22, 2002. The Chapter expressed a desire at that time to review and provide recommendations on future updates of the Y2000 Plan and attend any meetings that the Committee may have with CDFG Director Hight in the future. As the possible list of Plan alternatives to eradicate pike had become smaller, the Chapter recommended that serious consideration again be given to conducting another chemical treatment of Lake Davis, with full cooperation of all parties involved, using the best technology currently available (including new rotenone formulations from

(continued on page 5)

Lake Davis Pike Statement (continued)

Scandinavia), and eliminating any reasonable threats to public health.

The California-Nevada Chapter of AFS is here tonight to reaffirm our commitment to help eradicate northern pike from Lake Davis as soon as possible to remove the risk of their spread to other waters of the State. We are willing to work with the CDFG and the Lake Davis Steering Committee to achieve this goal and recommend at this time that the feasibility of another chemical treatment of the lake be investigated in conjunction with complete or partial draining of the Lake.

Chuck Knutson, President
California-Nevada Chapter, AFS

The Hutton Program

The Hutton Program is alive and well in the Western Division of AFS (WDAFS). While a relatively new program to AFS, its importance is immense, potentially affecting each and every one of us in the profession. The ultimate goal of the Hutton Program is to recruit young people into a fisheries career. These recruits would ultimately be able to fill the vacancies created by the retiring workforce that currently dominates the fisheries community. Those young folks you recruit today, may one day be your legacy to the profession. To assist in meeting the goals of the Hutton Program, we (Casey Harthorn and Cindy Williams) were selected at the WDAFS annual meeting in Spokane, WA to be co-chairs of the Hutton Program, but we need your help too.

Thus far we have developed and implemented the procedures for initiating the Hutton Program throughout the WDAFS. Shortly after the holidays, chapter presidents throughout the WDAFS will be receiving a package, explaining the overall purpose and goals (the Big Picture) of the Hutton Program. Accompanying this package will be a letter asking each Chapter within the WDAFS to select a Hutton representative and to forward these names to us (see contact information below). As co-chairs, we will actively support these representatives by keeping them informed and assisting them in ensuring the future needs of the profession are met.

Mentors and students are needed to fulfill our Hutton Program Mission. Nominations will occur at the Chapter level. This is our opportunity to assist in the development of our young people and our profession. If you are interested in becoming a mentor, know of a student that is interested in the program, need additional information, want to become more involved, or are selected to represent your Chapter, please contact Cindy at cwilliams@gp.usbr.gov or Casey at charthorn@state.nm.us. (More Hutton information at <http://www.fisheries.org/Hutton>)

Large Scale Coal Bed Methane Development In The West

Coal Bed Methane (CBM) is simply methane gas contained in underground coal reserves. It exists in the cracks of coal deposits along with water that must be pumped out, or "produced" to change the hydrostatic pressure, which allows the gas to be recovered. Large amounts of gas and water are produced during production, and the environmental impacts of full-scale development over large areas are significant.

Annual natural gas consumption in the U.S. is now about 21 trillion cubic feet (tcf) per year, and developing CBM

reserves in the Rocky Mountains of the western United States and Canada is a major element of U.S. energy policy. Large scale CBM production is in progress or pending in New Mexico, Colorado, Wyoming, Montana, Alberta, and British Columbia. It is estimated that development in the Powder River Basin of Wyoming will yield an estimated 25 tcf of gas over the 7-20 year project life, and the North American Institute website (www.northamericaninstitute.org) links to articles (search on coal bed methane) suggesting Canadian CBM reserves of 19.5 tcf are recoverable.

None of these states or provinces alone possesses sufficient reserves to satisfy short-term demand, and the long-term benefit of full-scale development in light of environmental effects is a debatable issue for many. Development plans in the Powder River Basin of Wyoming illustrate the scale and issues associated with CBM extraction. At full-scale development, this project will be the largest mineral development project ever approved by BLM. Information compiled by the Powder River Basin Resource Council (PRBC, www.powderriverbasin.org), is not only fascinating, but indicates the potential scale of development. According to the PRBC, the proposal for 51,444 wells will result in:

- 17,000 miles of new roads
- 20,000 miles of new pipelines and 5,300 miles of above-ground power lines
- Over 200,000 acres of soil that will be stripped bare of vegetation.
- Depending on the alternative, 500 to 1,200 surface discharge facilities for the water.
- Between 1,800 and 4,000 infiltration waste pits to handle produced water.
- The disposal of 1.4 trillion gallons of water over the project's life – over 4 million acre feet; enough water for 16 million people or all the residents of Wyoming for 30 years.

Surface disturbance and impacts to landowners and agriculture operations have received most attention, but water quality issues have generally centered on irrigation impacts, and not stream systems and their biota. Produced water quality varies between and within regional coal formations, water quality of ambient or receiving waters is often quite different than produced water, and relevant information about potentially affected aquatic ecosystems is sparse. Consequently, there is a complex and wide range of poorly understood, and generally unpredictable, potential aquatic resource impacts that remain unaddressed. Aquatic issues center around water quantity, quality, point of discharge, surface and groundwater impacts, and relationships between produced and receiving waters and their biota.

Entire ecosystems in multiple states and provinces may ultimately be affected by CBM development, but aquatic concerns have generally not been integrated into agency



Truck-mounted drill rig used by gas developers for shallow drilling of coal-beds in the Powder River Basin.

processes. The Western Division can and should help rectify this situation by coordinating expert reviews of the issues and documents related to CBM development, and elevating important aquatic issues into the process. This issue is currently being reviewed by the WDAFS Environmental Concerns Committee.



Marine Ecological Reserves Research Program - Results Available on CD-ROM

La Jolla-November 6, 2002

Results of the first program dedicated exclusively to research and development of baseline information on marine reserves in California are available on CD-ROM from the California Sea Grant College Program.

In 1996, the Fish and Game Commission selected California Sea Grant to design and administer a competitive, peer-reviewed research program at four new reserves: Punta Gorda, Big Creek, Vandenberg, and Big Sycamore Canyon. The studies were conducted from 1997-2001.

The goal of the Marine Ecological Reserves Research Program (MERRP) was to steer the development of proposals into a cohesive effort addressing the concept of marine reserves, and provide solid baseline studies of these reserves. Proposals were reviewed rigorously, according to scientific criteria, and with the assistance of advisory committees designed to address the utility of the proposed work from a local perspective. The research represented the beginning of a unique collaboration by investigators from a number of universities throughout the state, the California Department of Fish and Game, and the National Marine Fisheries Service.

Robert C. Hight, Director of the California Department of Fish and Game, stated: "The goal of this program has been to learn more about how marine reserves might best be used as a management tool to benefit California's marine life, and provide a mechanism to conduct top-quality research that will ultimately allow Californians to make better decisions about marine resources." He went on to add, "This program, administered by California Sea Grant, has provided the Department of Fish and Game with an extraordinary opportunity to build productive relationships with marine scientists throughout California's universities."

Requests for CD-ROM of results should be directed by email to gfrederick@ucsd.edu, or by calling 858.534.4446.

The California Sea Grant College Program is the largest of a national network of 31 university-based programs, dedicated to the protection and sustainable use of the nation's coastal, ocean, and Great Lakes resources. This network is a partnership of participating coastal states, private industry, and the National Sea Grant College Program, National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce.

Ron Remmick

May 19, 1950 - December 5, 2002

Ron Remmick, Regional Fisheries Supervisor for the Wyoming Game and Fish, died Thursday, December 5th, 2002 in Salt Lake City, Utah. He had been battling a rare form of cancer since January.

Ron was born May 19, 1950 in Denver, Colorado, the oldest son of Max Remmick and Janet Graham. On May 29, 1970 he married Trudy K. Deist. After serving four years in the Air Force, he graduated from Colorado State University in 1976, the first Remmick to ever earn a bachelor's degree.

Ron began his G&F career as a summer fisheries biologist in Green River in 1970 and at Pinedale during the summer of 1975. The following summer he worked at the Auburn Hatchery before starting his permanent service at the Speas Rearing Station in Casper as a fish culturist in May, 1977. He was promoted to his Pinedale fish biologist position in November 1978. Much of his work there focused on native cutthroat and wilderness fisheries management. In 1996 Ron was promoted to Regional Fisheries Supervisor for the Green River region. Two years later he assumed leadership of the Pinedale fisheries crew while continuing to supervise the Green River region, overseeing 2 crews with over 100 miles between the offices. His responsibilities continued to focus on native cutthroat management in the Green River and Bear River drainages, as well as recreational fisheries management in the man-made reservoirs of the region such as Flaming Gorge.



Over his 25-year G&F career, Ron became a recognized authority on the management of Colorado River and Bonneville cutthroat trout. He worked to promote public education about native cutthroat trout. Wyoming's popular "Cutt-Slam Program," for which anglers are recognized after catching all four subspecies of cutthroat trout in their native range, was Ron's brainchild. As a maturing, but never aging, fisheries biologist, he delighted in teaching school children about fish, fisheries, and how aquatic systems worked. His efforts helped youngsters understand that lake and stream systems must be treated well and used with respect.

Ron had been a member of the American Fisheries Society since 1979 and served on various committees, including chairing a Western Division committee that produced an audio slide show on Riparian Management in Western Streams. In addition to serving as Secretary-Treasurer, Vice-President and President for the Colorado/Wyoming Chapter, he also served as Western Division Representative for the Fisheries Management Section. Ron presented papers at Western Division, Colorado-Wyoming Chapter, and "Wild Trout" meetings. He established the Colorado-Wyoming Chapter website and served as their webmaster for several years.

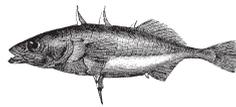
His computer skills and knack for communicating high tech know-how and information was legendary, because

he spoke plain English, not computer-speak. The hard work he did over the last 15 years truly changed the way G&F manages and manipulates fisheries data. He developed computer systems that people could use and understand and was always available to help the beginning or advanced user with computer problems.

Ron's fisheries expertise and co-worker respect were reflected in the many awards he garnered over the years, among which were the 1987 Fish Division Employee of the Year Award and the 1989 Peer Recognition Award. In 1998 he was recognized with Trout Unlimited's "Professional Trout Conservationist" Award, and in 2002 was presented with the Western Division American Fisheries Society Award of Merit.

Ron was a wonderful colleague, fisheries biologist, quintessential supervisor, mentor, professional, and friend. He was helpful to all. He worked, taught, and mentored as he lived, with kindness, patience, and appreciation for those he sought to help or anyone who asked his advice. He was an avid reader and loved music. In his spare time he enjoyed fishing, hiking, computer programming, cross-country skiing, bicycling, hunting, and all of the great outdoors. In addition to his wife Trudy, he is survived by his mother, Janet Graham of Sun City, Arizona; one brother, Clay Remmick of Craig, Colorado; two sisters, Karen and Mike Bartleson of Arvada, Colorado and Cheryl Remmick of Arvada, Colorado; and two step-brothers, Chet Graham of Kiowa, Colorado and Craig Graham of Littleton, Colorado. He was preceded in death by his father and grandparents.

Funeral services were held at Our Savior's Lutheran Church in Pinedale on Monday, December 9, 2002. Under blue skies and sunshine, Ron was laid to rest at the Pinedale Cemetery, on a hill overlooking the waters of the Green River Valley he loved.



Management of Western Native Fishes: Policies, Politics and Practicalities

2004 Annual Meeting of the Western Division of the American Fisheries Society February-March, 2004 Salt Lake City, Utah

The Bonneville and Colorado/Wyoming chapters of AFS will co-host the 2004 Western Division Annual Meeting in Salt Lake City in late February or early March. The Bonneville Chapter is making local arrangements and the Colorado/Wyoming Chapter is assisting with the program.

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). Salt Lake City is easily reached and nine ski resorts are within an hour's drive. February/March is ski season!

The meeting will bring together a diversity of fisheries professionals to explore the complex issue of managing native fishes in the western United States. We will discuss the policies affecting fisheries management and hope to understand the continuing and growing conflicts between science and politics. We will discuss the value of

potentially unattainable goals vs. those that are practical. The Program Committee will strive, as always, to provide a forum for all topics of interest to the Western Division.

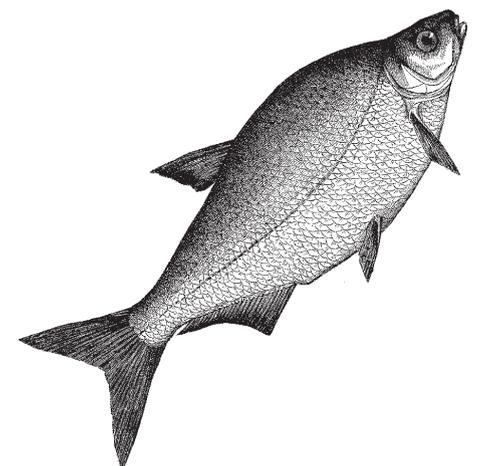
A half-day, theme related, plenary session will launch the meeting. Symposia and contributed papers will follow over the next 2 ½ days. The following sessions are being organized for the meeting:

- Status of Western Native Fishes.** Jim Tilmant, jim_tilmant@nps.gov (970-225-3547) and Mark Brouder, mark_brouder@fws.gov (928-475-2554). This will be the second phase of the Division's Status of Western Native Fishes Project. The session is intended to facilitate the compilation of unpublished information on the status of western fishes. Fisheries professionals are encouraged to compile and present unpublished data and information on the distribution and abundance of inland fishes.
- Native Inland Western Trout.** Kevin Meyer, kmeyer@idfg.state.id.us (208-465-8404).
- Reservoir Sampling and Management Strategies.** Scott Gangl, scott.gangl@wgf.state.wy.us (307-473-3415).
- Instream Flows: Scientific Applications, Legal Considerations and Public Involvement.** Tom Annear, tom.annear@wgf.state.wy.us (307-777-4555).
- Aquaculture.** Joe Valentine, joevalentine@utah.gov (801-538-4808).
- Riparian Habitat Management.** Don Wiley, donwiley@utah.gov (801-491-5651).
- Subbasin Watershed Planning.** Don MacDonald, ssf@island.net (250-729-9623).
- Adaptive Management.** Greg Servheen, gservheen@idfg.state.id.us (208-334-3180).
- Science in the Public Arena.** Tony Fasst, tony_fasst@fws.gov (503-231-6128).
- Whirling Disease.** George Schissler, george.schissler@state.co.us (970-472-4412).

If you are interested in assisting with the organization of one of these sessions or contributing a paper, please contact the session chair listed above.

Other suggested sessions include Anadromous Salmonids, Fisheries Issues in the Klamath River Basin, Aquatic Education, and Aquatic Nuisance Species. If you are interested in one of these sessions or if you have an idea of your own, we will need your help to make it happen. Please contact Lynn Starnes, lynn_starnes@fws.gov (505-248-6620) or Dave Zafft, david.zafft@wgf.state.wy.us (307-745-5180 ext. 235) if you are willing to assist with the program. If you are willing to help out with meeting arrangements, contact Eric Wagner, ericwagner@utah.gov (435-752-1066 ext. 22) or Tom Pettengill, tompettengill@utah.gov (801-538-4814).

We look forward to seeing you in Salt Lake City!



1st Call for Papers
Aquatic Resources in
Arid Lands Conference
April 30 – May 2, 2003

Aquatic Resources in Arid Lands Conference

April 30, 2003 – May 2, 2003

New Mexico State University – Corbett Center Ballrooms

REGISTRATION FORM

(Please print or type.)

Name: _____
 Address: _____
 City, State: _____ Zip: _____
 Phone: _____ Email: _____

Early Registration (Forms received no later than April 1):

- (1) General Registration: \$75.00
 a. Admits one (1) to the conference
 b. Includes lunches on April 30th and May 1, 2003
 c. Includes one (1) ticket to the Fiesta
- (2) Student Registration (must have ID) \$50.00
 a. Admits one (1) to the conference
 b. Includes lunches on April 30th and May 1, 2003
 c. Includes one (1) ticket to the Fiesta

Late Registration after April 1 (No student discounts): \$100.00

- (3) Fiesta Night (held on evening of May 1)
 Please indicate if you will join us for great food and entertainment. Yes _____ No _____
- (4) Workshop held on Friday morning
 I will attend the Workshop Yes _____ No _____

TOTAL ENCLOSED _____

Make checks payable to NSMU Arid Lands Conference and mail to:
 Aquatic Resources in Arid Lands Conference
 CES Extension Plant Sciences
 PO Box 30003 MSC 3AE
 Las Cruces, NM 88003

In lands across the globe, human settlements began and they continue to grow in proximity to water. Humans, like all other living forms on Earth, need water for our physiological function. But more than that, our social infrastructure depends on a reliable source of water. We use water to do many things that further perpetuate our success as a species. We use it to grow food, to carry away our wastes, to manufacture goods, to extract natural resources, and to construct roads and homes. As burgeoning human populations place greater demands on water supplies, society will be faced with increasingly difficult choices for management of associated aquatic resources.

The College of Agriculture and Home Economics at New Mexico State University will host a conference that will explore water issues from social and ecological perspectives. This conference will bring together experts in sustainable water use, aquatic habitat management, and native species conservation. Subject categories for the conference include:

- Water and Global Human Welfare
- Climatic Variation
- Sustainable development for drought conditions
- Water and endangered species
- Aquatic biota of arid lands
- Genetics and Sustainable populations
- Riparian zones and stream limnology
- Aquatic biota as indicators of environmental conditions

The conference will also include a workshop on the last day. In the wake of the recent introduction of legislation requiring the application of “sound science” in programs for endangered species recovery, participants will have the opportunity to help craft a policy statement for managing aquatic resources using sound science. Seating is limited, so please indicate on your registration form if you are interested in attending the workshop.

Poster Presentation Format

1. See below for details on abstract format and submittal dates for posters
2. Note - Poster display space is available in two sizes, 48” x 48” and 48” by 98”.

Abstract Format for all Papers and Posters

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

1. The subject category of the paper or poster (see bulleted list above).
2. A brief but descriptive title.
3. A list of all authors, their addresses, telephone numbers, and e-mail addresses.
4. An abstract of 250 words or less.
5. Clear indication of preference for a poster or a peer-reviewed paper for the conference proceedings or both.

ABSTRACT EXAMPLE (Please follow this format for abstract submission)

Subject: Water and Endangered Species
 Title: Water Requirements for Pelagic-Spawning Minnows

Authors: D. E. Cowley, Department of Fishery & Wildlife Sciences, New Mexico State University, Box 30003, MSC 4901, Las Cruces, NM 88003-8003, 505-646-1346(W); M. D. Hatch, U. S. Bureau of Reclamation, 505 Marquette NW, Suite 1313, Albuquerque, NM 87102-2162, 505-248-5903 (W).

Abstract: This statement will be used to evaluate and prioritize selections for inclusion in the conference poster session and/or the conference proceedings. Problem statement, issue significance, objectives, findings, and conclusions should be relayed in 250 words or less.

Preference: peer-reviewed conference proceedings only

Submitting Contributions

All program contributions must be submitted as a printed copy by mail to:
 Aquatic Resources Conference-Program Committee
 Department of Fishery and Wildlife Sciences
 New Mexico State University
 Box 30003, MSC 4901
 Las Cruces, NM 88003-8003

Abstracts will also be accepted for consideration from authors unable to attend the conference. Acceptance of submitted abstracts and publication of papers will be determined by peer review.

Final deadline for submitting all abstracts is March 7.

2003. All Accepted Papers Must Be Submitted by August 1, 2003.

For more information, visit <http://leopold.nmsu.edu/dcowley/default.htm>

ACCOMODATIONS

Listed below are some of the lodging accommodations in Las Cruces. Those indicated with an asterisk have a university group rate. To receive these rates, reservations must be made by **April 7** and you need to ask for the “AQUATIC RESOURCES IN ARID LANDS” group rate.

Holiday Inn*	Sleep Inn*
\$55.00 Single	\$62.00 Single
\$55.00 Double	\$62.00 Double-Quad
(505) 526-4411	(505) 522-1700
(Required code : 2-AQU)	
	Hampton Inn
Holiday Inn Express	(505) 526-8311
(505) 527-9947	
(505) 522-4300	Hilton Las Cruces
	(800) 445-8667
Best Western Mesilla Valley Inn	
(800) 327-3314	Las Quinta Inns
(505) 524-8603	(800) 531-5900
	(505) 524-0331
Comfort Suites	
\$68.00 Single	Super 8 Motel
\$68.00 Double-Quad	(505) 523-8695
(505) 522-1300	

2003 WDAFS & Cal-Neva Annual Meeting in San Diego - April 14-17!

Welcome Message (continued)

Institution Birch Aquarium in La Jolla, where we will have plenty of food and drink, the raf e, and aquarium tours.

The last day of the meeting is filled with technical sessions and symposia, with the Cal-Neva Business Meeting being held at lunch. We encourage you all to stay for a full day of great sessions and conclude the meeting with our "Outmigration" social.

We hope that you will plan to stay an extra day in San Diego to take in some of the many attractions that San Diego has to offer. We have scheduled scuba diving and ocean fishing charters on Friday, April 18th, departing from the doorstep of the hotel. With the current presence of an El Nino along the equator of the Central Pacific Ocean, we are optimistic that some of warmer water species, such as yellowtail, white sea bass, barracuda, and maybe even tuna, will be available to AFS anglers. So by all means, please sign up for one of these trips! As you can see, the meeting is jammed with events and opportunities for you to learn and exchange information in a relaxed setting.

We urge you to register for the meeting as soon as possible. It is also important to reserve a room at the Hyatt Islandia because space at the lowest rate is limited. We have negotiated the best rates possible for this event and they are very reasonable for San Diego in the springtime (\$99 government and \$129). This meeting represents an outstanding opportunity to share technical information, network with colleagues, expand your skills as a fisheries practitioner, and have a ton of fun in the sun. Bring your friends and families along to enjoy the local offerings! Please check our website often at www.fisheries.org/wd to receive conference updates and [register now!](#) See you in April!

Sincerely,

Don MacDonald
President
Western Division

Chuck Knutson
President
California-Nevada Chapter

Accommodations in San Diego (continued)

Make a reservation now if you want these rates!

- There is no difference between the \$99 and \$129 rooms. The \$129 rate applies to both single and double occupancy – you won't find a better rate at a premium San Diego hotel. Please help the Division and Chapter by taking a \$129 room if your organization does not require per diem rates or if the \$99 rooms are booked when you call. The Hyatt gives us substantial discounts on meeting fees if we book the entire facility.
- We expect very high attendance – in the likely event the Hyatt is full *we've reserved a block of overflow rooms at the Dana Inn (www.danainn.com) located on the water across the street from the Hyatt.* Call 619-222-6440 and mention the American Fisheries Society to get the special \$129 discount rate.
- *Students! AFS will pay for your lodging if you help out during the meeting!* Contact Student Affairs Coordinator Fred Feyrer before you make any lodging arrangements at ffeyrer@water.ca.gov or (916) 227-2552 for details

Please Contact the Hyatt Islandia sales office at 619-221-7461 or *Dave Manning (Western Division Annual Meeting Local Arrangements Chair)* at 707-547-1988, dmanning@scwa.ca.gov if you need further assistance.

Socials & Special Events

International Reception – Monday Evening

A special reception will honor Mexican and other international colleagues, enhance new friendships, and renew old ones. The reception will be open to all international registrants to enjoy refreshments with AFS leadership, those interested in international fisheries and their guests.

*Monday, April 14...5:30pm-7:00pm
Hyatt Penthouse (18th Floor)*

Welcome to San Diego Social - Monday Evening

Ease the stress of traveling, relax after a day of continuing education classes, meet old friends, and network with other professionals at the welcoming social. Enjoy cocktails and tray passed hors d'oeuvres while overlooking Mission Bay at the Hyatt's beautiful Islandia Restaurant.

*Monday, April 14...7:00pm-9:00pm
Islandia Restaurant - Hyatt Islandia*

Exhibitors Show & Poster Social – Tuesday Evening

The Exhibit Show and Poster Social will feature lively entertainment and refreshments from 5:30 until 7:30 p.m, Tuesday evening. The authors will attend their posters from 5:30 p.m. to 7:30, and commercial exhibitors and trade show representatives will be on hand to answer questions, provide demonstrations and sell their wares. Come and check out the displays, posters and join in the fun!

*Tuesday, April 15...5:30pm-7:30pm
Mission Ballroom - Hyatt Islandia*

Scripps Birch Aquarium Reception and Dinner – Wednesday Evening

Set atop the bluffs overlooking La Jolla Cove, the setting for Scripps Birch Aquarium can only be described as stunning. Scripps extends its reputation as a world class marine science institution to what is accurately described as one of the west coast's premier aquariums. AFS has exclusive use of the facility on Wednesday evening – come enjoy excellent cuisine and beverages while touring the aquarium's displays. All costs for this special event are included in your registration - so board a charter bus on Wednesday and head over to Scripps!

Please take advantage of the provided bus service for the 20 minute drive to La Jolla. Buses will begin departing from the Hyatt's main entrance in front of the lobby at 5:30 pm. Continuous shuttle service to and from the site will be available throughout the evening but plan to arrive early to enjoy passed hors d'oeuvres at sunset on the tidepool plaza. This is a casual indoor / outdoor event – please dress accordingly. To maximize your enjoyment of the exhibits we have decided against having a traditional banquet. Unique stations with delicious international and domestic foods will be located throughout the facility. The aquarium's bookstore will also be open so come prepared to buy some hard to find texts.

*Wednesday, April 16...6:00 pm-10:00pm
(Buses begin departing at 5:30 pm)
Birch Aquarium - Scripps Institution*

Outmigration Social – Thursday Night

Reward yourself for attending the entire conference, bid farewell to colleagues, or kick-off a relaxing weekend in San Diego by enjoying refreshments at the Outmigration social.

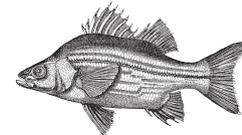
*Thursday, April 17...5:30pm-7:30pm
Mission Ballroom*

Dive Trip

Join your AFS colleagues on a chartered dive trip off of San Diego's coast to finish up the week of annual meeting activities. We will join the *Lois Ann* and her crew for a full day of diving on Friday April 18. The boat will depart from the dock at Seaforth Landing near the Hyatt for an hour-and-a-half trip to the Coronado Islands (looking out for *Mola mola* and California yingfish along the way). The Coronados, in Mexican waters 20 miles from Mission Bay, are known for 50 foot visibility and dives in the 10-65' depth range. Don't miss this opportunity to dive with your friends and the local marine life in some of the bluest water off of San Diego. Trip includes: steel-80 tank and three air fills, weight belt, lunch and snack. Bring the rest of gear or rent it locally.

To reserve your spot we must receive your deposit check for \$60 by March 1, 2003. Checks should be made payable to "Lois Ann Dive Charters" and sent to Tricia Parker c/o USFWS, Red Bluff FWO, 10950 Tyler Road, Red Bluff, CA. The total cost of the trip will be \$100 maximum, depending upon the number of divers, with the balance due on the day of the trip. A full boat is 20 divers.

For more information on the trip, contact Tricia Parker at Tricia_Parker@r1.fws.gov or Chris Wilkinson at cdw@water.ca.gov. Check out the Lois Ann's website at <http://www.loisann.com> or see underwater photos of the Coronados at <http://www.dayoscuba.com/sd101599.htm>.



Overnight Sport Fishing Charter to San Clemente Island

There will be a sport fishing charter on the vessel *M/V Cortez* (<http://www.boatcortez.com>) leaving the night of April 17th and returning the evening of April 18th. We plan to fish beautiful San Clemente Island, located 55 miles west of San Diego. Spring fishing at the island usually consists of excellent kelp bass fishing (many 2-5 pound fish) with an opportunity for yellowtail and white seabass. The boat will leave at 8:00 pm on the 17th so we are at the island in time to try and catch squid. If squid is available, the chance of catching yellowtail or white seabass is greatly enhanced. The boat will return between 8:00 and 10:00 pm on the 18th.

The Cortez is located at Seaforth Sportfishing, about ¼ miles from the Hyatt Islandia. Tackle is available for rent (\$15.00) and a one-day license is \$7.10. For those with annual licenses purchased in northern California, you'll need to buy an Ocean Enhancement stamp for \$2.65 since they probably didn't include it on your license.

The cost of the trip is \$110.00 and includes your bunk, live bait, and crew tip. The trip is limited to 18 and your spot is reserved when I receive a check for the full cost of the charter. The galley will be open for breakfast and lunch with the possibility of remaining open for dinner if we are out late. You can have your fish filleted on the boat as we return from the island. I have chartered the Cortez for many years and always enjoyed fishing on the vessel. If you have any questions, please contact me at:

Steve Crooke
(562) 342-7195
scrooke@dfg.ca.gov

2003 WDAFS & Cal-Neva Annual Meeting in San Diego - April 14-17!

Tentative Program-at-a-Glance

(Schedule subject to updates and revisions)

Event Coordination Functions (all in the host hotel - Hyatt Regency)

	<u>Day</u>	<u>Timeframe</u>
Registration	Monday, Tuesday, Wednesday Thursday	7:30am-6:00pm 7:30-10:00am
WD/Cal-Neva Bus. Office	Monday through Thursday	7:30am-5:00pm
Audio/Visual Preview Room	Monday & Tuesday Wednesday & Thursday	8:00am-5:00pm 7:30am-5:00pm
Commercial Exhibits/Trade Show & Poster Sessions		
Set-up	Monday Tuesday	1:00-5:00pm 8:00-11:00am
Open	Tuesday Wednesday Thursday	11:30am-5:30pm 8:00am-5:00pm 8:00-11:00am
Teardown	Thursday	11:30am-3:00pm

Sunday, April 13, 2003 Western Native Fishes Meeting 8:00am-5:00pm

Monday, April 14, 2003

<u>Symposia, Events, & Socials</u>	<u>Timeframe</u>
Volunteer (student) Training	8:00-10:00am
California Estuarine Research Society (CAERS) Meeting	8:30am-4:30pm
Continuing Education Classes (3)	8:30am-5:00pm
Western Division ExCom Luncheon	10:00am-2:00pm
AFS Leadership Training	2:00-5:00pm
International Members Reception	5:30-7:00pm
“Welcome to San Diego” Social	7:00-9:00pm

Tuesday, April 15, 2003

<u>Symposia, Events, & Socials</u>	<u>Timeframe</u>
Pre-Plenary Session Coffee Break	7:45-8:15am
Plenary Session - “Global Sustainability: Challenges and Prospects for North American Fisheries and Beyond”	8:15-11:15am
Mexican Fish Biologists Meeting	11:30am-1:00pm
Boxed Lunches by the Pool – U-Buy	11:30am-1:00pm
Plenary Speakers Luncheon (w/ Team WDAFS2003)	11:30am-1:00pm
Symposia – Status and Trends of Aquatic Resources in the Sea of Cortez & Mexican Fisheries Sessions	1:00-5:10pm
Symposia - Large-scale Wild Fish Tagging and Marking Projects	1:00-5:10pm
Symposia - Klamath River Fish Kill	1:00-5:10pm
Symposia – Ecology, Conservation & Management of Grand Canyon Fishes	1:00-5:10pm
Contributed – Ecology & Management of Salmonids	1:00-5:00pm
Symposia - Large-scale Watershed Health Monitoring	1:00-5:10pm
Symposia - Biology & Mgmt. of Native/Exotic Fish, Amphibians & Aquatic Reptiles in Coastal S. Calif. & N. Baja Calif.	1:00-5:10pm
Afternoon Sessions Break	2:50-3:10pm
Student Job Fair	5:15-6:30pm
Comm. Exhibits/Trade Show & Poster Social	5:30-7:30pm
- Students need to be at their Posters for Judging/Discussion	6:30-7:30pm
- Fish Fashion Show	6:00-6:30pm
Student & Faculty Social	8:00-9:30pm

Wednesday, April 16, 2003

<u>Symposia, Events, and Socials</u>	<u>Timeframe</u>
“Grunion Run” – 5K Fun-Run	6:00-7:30am
Symposia – Mexican Fisheries	8:00-11:10am & 2:00-5:10pm
Symposia - Use of Science in Public Policy Arena	8:00-10:50am
Symposia - Ocean Ecology of Pacific Salmon	8:00-10:50am & 2:20-5:10pm
Symposia – An Unique Ecosystem: The Salton Sea, A Saline Lake in a Desert Environment	8:00-11:10am
Symposia - Determining the Number of Salmon Historically Present and Implications on Management and Recovery	2:00-5:10pm

Symposia – Emerging Theory, Experience and Issues Related to Fire and Fire Management and Aquatic Ecosystems	8:00-11:10am & 2:20-5:10pm
Symposia - Biology & Mgmt. of Native/Exotic Fish, Amphibians & Aquatic Reptiles in Coastal Southern California & Northern Baja California	8:00-11:10am & 2:20-3:30pm
Morning Sessions Break	9:30-9:50am
WDAFS Business Luncheon	11:30am-1:45pm
Contributed – Aquatic Habitat Restoration and Management	2:20-5:10pm
Afternoon Sessions Break	3:30-3:50pm
Contributed – Exotic Fish Species	3:50-5:10pm
“Birch Aquarium at Scripps” Social	6:00-10:00pm

Thursday, April 17, 2003

<u>Symposia, Events, and Socials</u>	<u>Timeframe</u>
Symposia – Mexican Fisheries	8:00-11:30am
Symposia – Interactions of Hatchery and Wild Fishes in Marine and Estuarine Environments	8:00-11:30am
Symposia – Identifying and Overcoming Impediments to Fish Passage	8:00-11:30am & 1:20-4:50pm
Symposia – Biology, Ecology, & Management of Sharks of the Pacific Coast of Mexico and the United States	8:00-11:30am & 1:20-4:50pm
Contributed – Ecology and Management of Marine Fishes and Habitats	8:00-11:30am
Symposia – The Role of Natural History Collections in Endangered Species Management	8:00-11:30am
Symposia – Guidelines for Decision Making & Technical Applications for Captive Breeding Programs	8:00-11:30am & 1:20-4:50pm
Morning Sessions Break	9:30-9:50am
Boxed Lunches by the Pool – U-Buy	11:30am-1:00pm
Cal-Neva Chapter Business Luncheon	11:45am-1:15pm
Contributed – Ecology & Management of Freshwater Fishes	1:20-4:50pm
Contributed – Western Native Trout	1:20-4:50pm
Symposia – <i>Oncorhynchus</i> at Their Southern Extremes	1:20-4:50pm
Symposia – Reservoir Management in the Arid West	1:20-4:50pm
Afternoon Sessions Break	3:10-3:30pm
“Outmigration” Social	5:30-7:30pm

Annual Meeting Raffle

The Western Division of your American Fisheries Society is hosting its annual meeting in San Diego, California on April 14 – 17, 2003. The raffle promises to be the best ever. We plan to have individual barrels associated with each prize so tickets can be placed for those items you want to be drawn for! Because many of the attendees are outdoor folks, anything that relates to the enjoyment of those pursuits are listed as prizes. These include hunting / fishing trips, outdoor equipment and gear, airline travel to various destinations, and artwork (paintings, prints, sculptures). Finally, we plan on having a Novara Ponderosa Mountain Bike and a Dagger Blackwater canoe as 2 grand prizes. Remember, proceeds go toward sponsoring fisheries students that are attending/presenting at the annual meeting.

Grunion Run 5K Run/Walk

Come join us for the grunion run on Wednesday morning, April 16, from 6:00 to 7:30 a.m. This event will be a 5k run/walk near the hotel with scenic views of Mission Bay. Everyone who signs up will receive a beautiful t-shirt commemorating the event, and prizes will be awarded to the first male and female contestants crossing the finish line. Whether you're interested in trying for first place, or just want to start your Wednesday morning getting some casual exercise with your fellow fishheads, sign up and come on out! Contact Amy Harris at amyh@scwa.ca.gov with any questions.

Participants should sign up on the registration form for the meeting or at the registration desk before the day of the event. The cost is \$12, including the Grunion Run 2003 T-shirt. Please meet outside the main lobby of the hotel at 6:00 a.m. on Wednesday, April 16. See you there!

See Meeting Registration Form on the Back Page!



2003 WDAFS & Cal-Neva Annual Meeting in San Diego - April 14-17 (continued)

Attention All Division, Chapter and Future Leaders...

Our Division/Cal-Neva Annual Meeting has the great distinction of being the site of the Spring 2003 American Fisheries Society (AFS) Leadership Principles Workshop. This extremely valuable workshop is scheduled from 2:00 to 5:00pm on Monday, April 14th at the Hyatt's Islands "A". Please adjust your calendars now and plan on attending. And the best part is...it's FREE!!

Leadership training, especially as it pertains to your AFS business, is critically important to achieving success. This workshop's goal is to enhance your leadership skills to give you the tools (literally and figuratively) that you will need to be an effective leader, both within and beyond AFS.

The agenda includes top-notch presentations from AFS Past President Carl Burger on "Leadership from an Officers Perspective" and AFS President Fred Harris on "AFS Ethics and Policies". Other speakers will include AFS Executive Director Gus Rassam, AFS 1st Vice-

President Barb Knuth, and AFS's former Constitutional Consultant Joe Margraf. These leaders will guide you through discussions on team-building, strategic planning, visioning, delegation, and other traits of effective leaders.

Please pass this announcement around and be sure to take advantage of this rare opportunity. For further information, contact Tom McMahon at 602-789-3216 or email tcmahon@gf.state.az.us.

Continuing Education Workshops

Workshop #1: Biological Assessments: Expediting Section 7 Consultations

Preparing an adequate Biological Assessment (BA) is a key to expediting Section 7 Endangered Species Act consultations with the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service. NMFS personnel will discuss what information is required and recommended and why, with the goal of better and faster opinions. Topics will include:

- writing complete project descriptions
- assessing direct, indirect, and cumulative effects
- making effects determinations
- the ESA/NEPA and the ESA/EFH interface

Date: Monday, April 14, 2003, 8:00 AM to 5:00 PM
 Fee: \$60, AFS members; \$75 non-members
 Enrollment: 18 minimum, 30 maximum
 Instructor: Penny Ruvelas, NMFS

Workshop #2: Biotelemetry Systems: Theoretical and Practical Considerations

This course will examine biotelemetry from both a theoretical and practical perspective. The goal of the workshop is to impart a good understanding of benefits and tradeoffs which must be made during the study design phase of a project. This will permit researchers employing biotelemetry to make informed decisions during the selection of system components, helping to ensure the ultimate success of their projects. The ultimate goal of the workshop is not to turn biologists into engineers, but to impart an awareness and appreciation of methods and techniques which can be readily employed to maximize system performance.

Date: Monday, April 14, 2003, 8:00 AM to 5:00 PM
 Fee: \$80, AFS members; \$100 non-members
 Enrollment: 18 minimum, 24 maximum
 Instructor: Mitchell M. Sisak, Applied Biometrics Inc.

Workshop #3: Conflict Resolution Skills for Natural Resource Professionals

There is no shortage of conflict that natural resource professionals are asked to deal with. Natural resource issues elicit strong passions because decision making materially affects people's lives or there are radically different core values involved. People also have different conflict management styles that often make matters worse. Because resource professionals are usually involved in the early stages of a conflict they are well placed to apply conflict resolution skills before matters escalate to higher, often highly adversarial levels. Drawing on basic mediation techniques professionals can diagnose the causes of conflict and move a developing resource dispute from a "me-against-you" to an "us-against-the-problem" dialog. This workshop introduces conflict resolution skills that natural resource professionals can use to manage conflict.

Date: Monday, April 14, 2003, 8:00 AM to 5:00 PM
 Fee: \$80, AFS members; \$100 non-members
 Enrollment: 18 minimum, 30 maximum
 Instructor: Michael E. Fraidenburg, Dynamic Solutions Group, LLC

Workshop #4: AFS Leadership Principles Workshop

This workshop targets AFS Division and Chapter leaders and those interested in AFS leadership. Leadership training, especially as it pertains to AFS business, is critically important to achieving success. This workshop's goal is to enhance your leadership skills to give you the tools (literally and figuratively) that you will need to be an effective leader, both within and beyond AFS.

Date: Monday, April 14, 2003, 2:00 to 5:00 PM
 Fee: Free, but please complete the enrollment form
 Instructors: Carl Burger, Fred Harris, and others.

2003 Continuing Education Workshop Enrollment

Name _____
 Organization _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____ Fax _____ E-mail _____

	AFS member	Non-member	
Workshop #1 (Biological Assessment)	\$60	\$75	_____
Workshop #2 (Telemetry)	\$80	\$100	_____
Workshop #3 (Conflict Resolution)	\$80	\$100	_____
Workshop #4 (AFS Leadership)			Free _____

Total Fees PAYABLE TO CAL-NEVA CHAPTER AFS
501(C)3 Organization Federal Tax ID #23-7226673

We accept payment by check, money order, MasterCard or Visa.

Visa or MasterCard Payment

Print Name (from card): _____

Card#: _____ Expiration Date: _____

Signature: _____

Zip Code from Card Billing Address (for verification): _____

Deadline for Enrollment for all workshops is April 1, 2003. If minimum enrollment is not met by April 1, a workshop may be cancelled. If there is space available, you can enroll up to the date of the workshops, April 14, 2003, on-site (Registration will be open at 7:15 AM).

Mail Enrollment Form to:

Kathy Hieb
 c/o CDFG
 4001 N. Wilson Way
 Stockton, CA 95205

For more information, please contact Kathy Hieb at khieb@delta.dfg.ca.gov or (209) 942-6078. Prefer email inquiries.

REFUNDS: Cancellations prior to April 1, 2003, will be refunded the full enrollment fee minus a \$20 administrative fee. NO REFUNDS after April 1, 2003

2003 Plenary Session – “Global Sustainability: Challenges and Prospects for North American Fisheries and Beyond?”

This commencement event for our 2003 Annual Meeting will be held on Tuesday, April 15th beginning at 8:15am sharp. We will convene this session in the Hyatt's Regency Ballroom and it will be one of the most informative and interesting professional fisheries presentations that we have had the pleasure of putting together.

The title of this year's Plenary Session is “**Global Sustainability: Challenges and Prospects for North American Fisheries and Beyond?**”. Although the title is short, the subject is long, complex, and reaches across international borders and waters. By just looking at the names and subjects that our distinguished guest presenters will talk to us about, you can begin to imagine just how very special this morning will be:

- **Carl Burger** (U.S. Fish and Wildlife Service – Maine, USA...and our past President, WDAFS & AFS) – “A Global Perspective on Sustaining Fisheries in the 21st Century: Transitioning Beyond existing Paradigms to an Integrated, Ecosystem Approach”;
- **Ambassador Gilbert Parent** (Canadian Ambassador for the Environment) – “Managing Marine Fisheries in a Changing Climate: Approaches for Achieving Fisheries Sustainability”;
- **Dr. Salvador Contreras-Balderas** – “Status and Opportunities for Sustainable Fisheries in Mexico”; and
- **Bill Hammond** (Florida Gulf Coast University – Florida, USA) – “Challenges and Prospects for Fisheries Sustainability in the United States”.

CAERS Announces First Meeting

The newly formed California Estuarine Research Society (CAERS) will hold its inaugural meeting on Monday, April 14, 2003, at the Hubbs Sea World Conference Room in San Diego CA. The meeting will be held in conjunction with the annual meeting of the Western Division and California-Nevada Chapter of the American Fisheries Society (AFS), April 14-17, at the Hyatt-Islandia Hotel. There will be a CAERS mixer late in the afternoon of 14th. The AFS sessions begin on the 15th.

Registration - Registration for both meetings will be handled by AFS. Fees for the CAERS meeting are as follows: \$40 for members, \$20 for students, and \$55 for non-members. More information about the 2003 AFS conference can be found at the AFS Western Division (<http://www.fisheries.org/wd/meet/2003/meet2003.htm>) or CAL-NEVA Chapter (<http://www.afs-calneva.org>) websites.

Theme - The theme of the one-day CAERS session, chaired by Wim Kimmerer of the Romberg Tiburon Center for Environmental Studies and President-elect of CAERS, is: “**Natural and restored estuaries and marshes: how important are they to Pacific coast invertebrates and fishes?**”

Much of the literature demonstrating that marshes are important rearing

habitat for fishes and invertebrates comes from Atlantic and Gulf coast estuaries. Pacific coast estuaries are less well endowed with tidal marshes than their counterparts in the east, and use of these marshes by fish and invertebrates is less well known. Several key questions about use of these habitats in Pacific estuaries may be addressed in this session: 1) To what extent do fishes and invertebrates use marsh and other shallow habitat for rearing or other life cycle phases; 2) Are marshes and shallow estuaries essential habitat for some species; and 3) at what point in the restoration trajectory do restored and natural marshes provide similar habitat value for fishes and invertebrates?

The CAERS Executive/Program Committee (*Fred Nichols - past president, Randy Brown - president, Wim Kimmerer - president elect, Fred Feyrer - secretary-treasurer and John Largier and Steve Weisburg - members at large*) anticipates filling much of the day with papers addressing the above theme, but will accommodate contributed papers on other estuarine topics, as time is available. Student papers are encouraged. There will be a brief business meeting just before the CAERS social.

Information for Students Planning on Attending the Annual Meeting

Career and Job Fair

Just starting out? Looking for a change? Want to know what it is like to work in a different state in a different type of job? Come join us for the Career/Job fair. We will have representatives from State and Federal Agencies, Tribes, Consultants, Education, NGOs, and Fishing guides ready to tell you what it is like to work in their sector. Get inside information on how to get a job at their organization. Many groups have job openings for both entry and senior-level positions. Representatives will be available to discuss active jobs with potential applicants. If you ever wondered about a job or career, come and ask. We will disclose all.

Interested in exhibiting in the fair? Email jbaldrige@entrix.com with Job Fair in the comment line.

Judging and Awards

AIFRB Agrees to Judge Student Papers and Posters at the Annual Meeting

Once again, the American Institute of Fishery Research Biologists (AIFRB), Northern California District, will be judging the student papers and student posters for the 2003 Annual Meeting of the Western Division of the American Fisheries Society and the California/Nevada Chapter - AFS. This year, the Southern California District of the AIFRB also will be assisting in the judging. All senior authors who are bona fide students and are presenting a paper during a symposia from Tuesday, April 15th (1:00 pm) through Thursday, April 17th (4:50 pm) are eligible to win big bucks for Best Student Paper and for Runner-up Best Student Paper. Best Student Poster and Runner-up Best Student Poster will also be judged, but the senior author must be a

student. In order to qualify, the senior author (or a junior author) must be present during the official poster judging session. We will need from all symposia leaders, a listing of all student presenters, the student's academic institution, and the time of their presentation, as soon as the information is available, but at least two weeks prior to the meeting. In addition, anyone who is interested in helping to conduct the student judging, please let me know as soon as possible. Please send me your name, and if you already know, the times or the symposia you are available to judge.

Symposia leaders, please email their student presenter list; and willing judges, please email your name and times/ symposia you are available to judge to: Tom Keegan, Director - AIFRB, Northern California District of AIFRB (TKeegan@ecorpconsulting.com)

Volunteer Opportunities

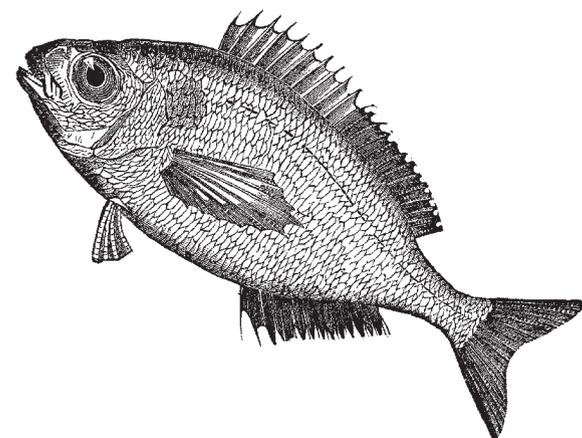
Students may volunteer to reduce or waive registration fees. Reimbursement will be one day of free registration for each 2 hours of volunteer work. So for example, you would have to work 8 volunteer hours to waive all registration fees. Volunteer work includes operating av equipment during sessions, assisting at the registration desk, assembling and dismantling poster boards, assisting at the registration desk, and other activities.

Student Lodging

A number of rooms will be available at the Dana Inn for student lodging. The Dana Inn is located across the street from the Hyatt Islandia. AFS has secured several rooms which will be made available to students free of charge. Students who are volunteering at the conference will get first priority for the free lodging. The free rooms can accommodate up to four people and room sharing will be required. Once all of these rooms are completely filled, there will be additional rooms (which can also accommodate up to four people) available for a special student rate of \$99 per night. The free lodging and special rates will only be available on Sunday through Wednesday April 13th-17th.

If you are interested in either volunteering or student lodging contact Fred Feyrer (ffeyrer@water.ca.gov or 916-227-2552) with the following information:

- (1) Name, email, and phone number (or any other means to contact you)
- (2) How many hours you would like to volunteer, and the times which you either can not or wish to not to do volunteer work
- (3) If you are interested in student lodging, which days you need a room.



For more information on the Annual Meeting, please see the WDAFS web site at: <http://www.fisheries.org/wd>

Mexican Involvement in the Western Division and Cal/Neva Chapter AFS Annual Meeting

Mexican Involvement in the American Fisheries Society (AFS) Western Division and Cal/Neva Chapter Annual Meeting, San Diego, April 14-17, 2003

The mission of the American Fisheries Society (AFS) is 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. Mexico is considered to be within the geographic boundaries of the Western Division, American Fisheries Society (WDAFS). The WDAFS and the AFS International Fisheries Section (IFS) have supported the AFS "Bridge to Mexico" program over the past several years with assistance of dedicated members from Mexico. To increase opportunities, we recently awarded 30 annual AFS/IFS memberships to Mexican fisheries scientists, managers, or students. AFS offers a variety of professional opportunities that could benefit existing and future partnerships and interactions. Further more, increased Mexican participation can strengthen the diversity within AFS, WDAFS, IFS, the Cal/Neva Chapter and other subunits. AFS wants to promote activities at the upcoming WDAFS and Cal-Neva Chapter Annual Meeting in San Diego that will enhance opportunities for Mexican fisheries professionals to participate in AFS and to explore collaborations for similar AFS activities and meetings in Mexico.

Activities to promote Mexican involvement are planned in the following areas.

Mexican Contributions to San Diego Program

Please consider contributing to the Program. A number of the program sessions will be of interest to Mexican colleagues. For example, sessions are planned on

- Mexican Fisheries Overview
- Status and Trends of Aquatic Resources in the Sea of Cortez: Taking Stock Sixty Years After Ricketts and Steinbeck
- Biology and Management of Native and Exotic Freshwater Fish, Amphibians, and Aquatic Reptiles in Coastal Southern California and northern Baja California
- Biology, Ecology, and Management of Sharks of the Pacific Coast of Mexico and the United States
- And many others that will be of interest (see Program)

You are encouraged to submit abstracts for proposed symposia sessions, contributed paper sessions, or posters. The deadline was January 17th – see final call for papers at <http://www.fisheries.org/wd/>

International Reception

A special reception is being planned to honor Mexican and other international colleagues, enhance new friendships, and renew old ones. The reception is tentatively scheduled for Monday evening, preceding the larger Welcoming Social and will be open to all international registrants to enjoy refreshments with AFS leadership and their guests.

Mexican AFS Conclave

A number of Mexican AFS members have indicated an interest in establishing a Mexican AFS chapter or chapters. This meeting will be designed to facilitate that process by bringing together Mexican fisheries professionals in attendance at San Diego, with a few key AFS leaders, for deliberations on the best strategy for establishing a chapter

or chapters. This will also be an opportunity to explore possible activities in Mexico, such as holding an AFS in Mexico. This conclave is tentatively scheduled to follow the Mexican Fisheries Symposium.

Meeting Travel Support

Recognizing that travel and registration costs may be a barrier to attendance by Mexican colleagues, a special "travel scholarship" program is available to provide partial financial support. The purpose of the scholarship is to defray transportation, lodging, meals, and meeting registration costs. Applicants are expected to contribute to the costs and seek all possible funding sources. Scholarships will be limited and adjusted to individual needs.

Individuals should submit a request listing the following information:

- Name, address, and all contact information
- Affiliation
- Professional or Student status (if student, have you volunteered to work at the meeting?)
- Indicate whether you have or will present a paper or poster (identify proposed session and paper title)
- Total estimated costs (including travel, lodging, meals, and Mexican Professional OR Student meeting registration fee)
- Funding amount requested (US dollars)

Submit your requests, preferably by e-mail, to be received by February 15, 2003. Notification of awards will be made by March 1, 2003. Submit to eric_knudsen@usgs.gov or mail to

Dr. Eric Knudsen
USGS, Alaska Science Center
1011 E. Tudor Rd.
Anchorage, AK 99503 USA

Mexican Fisheries Students

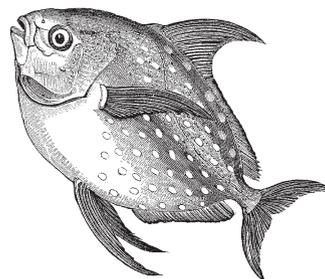
We encourage students to apply for the travel support described above. Mexican fisheries students should also be aware of additional reduced rates or waivers for meeting registration and lodging assistance if you volunteer to assist at the meeting (Contact Fred Feyrer at ffeyrer@water.ca.gov or (916) 227-2552 to volunteer and to arrange lodging opportunities).

For further information on any of the activities described above, please contact

Dr. Eric Knudsen,
eric_knudsen@usgs.gov,
907-786-3842,
FAX 907-786-3636

Mr. Glen Contreras,
gcontreras@fs.fed.us,
703-605-5286,
FAX 703-605-0279

Dr. Salvador Lluch-Cota,
slluch@cibnor.mx



Participación de México en la Reunión Anual de American Fisheries Society (AFS) Western Division y Cal/Neva en la Ciudad de San Diego, California. Abril 14-17, 2003

La misión de American Fisheries Society (AFS por sus siglas en inglés), es el de conservar los recursos pesqueros y ecosistemas acuáticos por medio de las ciencias marinas y el avance científico en pesquerías; Así también el de promover el desarrollo de profesionistas en la rama. México, por su situación geográfica es considerado dentro del Area de Western Division de American Fisheries Society (WDAFS por sus siglas en inglés). La WDAFS e International Fisheries Section (IFS) de American Fisheries Society a apoyado el Programa de AFS en su "relación con México" durante los últimos años con la asistencia y dedicación de miembros-participantes de México. Para incrementar estas oportunidades, recientemente se premiaron en el 30^{avo} anual de AFS/IFS a participantes-miembros Mexicanos, Científicos en Pesquerías, Gerentes Generales de Plantas, Profesionistas y estudiantas. AFS ofrece una variedad de oportunidades a profesionales que pueden beneficiar en el presente y el futuro de esta interacción. Además, el aumento de la participación mexicana puede fortalecer la diversidad en su conjunto con AFS, WDAFS, IFS, la Representación de Cal/Neva y otras Divisiones. AFS quiere promover la participación de México en la Reunión Anual en San Diego, con WDAFS y Cal/Neva que aumentaran las oportunidades a Profesionistas mexicanos en Pesquerías para participar en AFS y aumentar la colaboración con su similar AFS en actividades y reuniones en México.

Actividades para promocionar la Participación de México estan planeadas en las siguientes Areas:

Contribución mexicana a el Programa de AFS:

Agradesco si usted contribuye a este Programa. El número de Programas-Sesiones va a ser de interés para nuestros colegas Mexicanos. Por ejemplo, sesiones planeadas en:

- Visualización de la Pesca en México.
- Estado y abundancia de los Recursos acuaticos en el Mar de Cortéz: Tomando en Pesca un stock de 60 años después de Ricketts y Steinbeck.
- Biología y Manejo de peces exóticos y nativos de agua dulce, anfibios y Reptiteles acuaticos en las costas del Sur de California y Norte de Baja California.
- Biología, Ecología y Manejo de Tiburones en las Costas del Pacífico Mexicano y Estados Unidos.
- Y muchas otras ponencias que serán de interes (ver Programa).

Usted puede someter o presentar Abstractos o Resúmenes para este Simposium de

Sesiones o contribuir en la presentacion de documentos o posters-panfletos. El día último para presentar documentos es Enero 17, 2003. (ver última llamada de recibo de documentación en): <http://www.fisheries.org/wd/>

Recepción Internacional

Esta planeada una Recepción especial en Honor a nuestros Colegas Mexicanos y otros Colegas Internacionales, todo esto para introducir nuevas amistades y reanudar antiguas amistades. La Recepción esta tentativamente programada para el 14 de abril, lunes por la noche, posteriormente se dará la bienvenida social y la abierta para el registro

(continued on page 13)

internacional. Así mismo se disfrutara un refrigerio con integrantes de American Fisheries Society y nuestros Invitados.

Conclave de México en AFS

Un gran número de Colegas Mexicanos miembros-participantes de AFS han expresado un gran interés en establecer una División Mexicana en AFS. Esta Reunión esta designada para facilitar el proceso de acercamiento de todo Profesionista Mexicano en el Area de Pesquerías que atienda dicha Reunión en San Diego, Ca. y en conjunto con representantes de AFS; Como resultado se espera realizar una buena estrategia para establecer una División de Divisiones. Además habrá la oportunidad de concluir posibles actividades en México, como una Representación de AFS en México. Esta Conclave esta tentativamente programada para los siguientes Simposiums de Pesquerías en México.

Apoyo de el Viaje-Reunión

Reconocemos que los costos del viaje y registro pueden ser una barrera para asistir a esta Reunión por parte de nuestros Colegas Mexicanos, quiero comentarles que existe un Programa "travel scholarship", Programa disponible para proveer soporte financiero. El proposito de esta beca es de sufragar costos de transportación, alojamiento, comidas y costos de registro de la reunion. Esta beca es limitada y sera ajustada a las necesidades individuales.

Usted pueden someter una solicitud enlistando la siguiente información:

Nombre, dirección, y toda información para contacto posterior.

Afiliación.

Status Profesional o estudiante (si es estudiante, puede trabajar de voluntario durante la Reunión?).

Indique cuando ud. puede presentar la documentación o posters (Titulo de la documentación que presentará durante la Sesión). Indique el Total del Costo estimado (incluya transportación, alojamiento, alimentos y Registro de Reunión, incluyendo si es Profesionista o estudiante Mexicano).

Requisición del Costo Total (En Dolares Americanos).

Favor de someter su solicitud preferentemente por correo electrónico, antes del día 15 de Febrero del 2003. Notificación de premiación sera el 1 de Marzo del 2003.

Su solicitud deberá ser enviada a la siguiente Dirección:

E-mail: eric_knudsen@usgs.gov

Dr. Eric Knudsen

USGS Alaska Science Center

1011 E. Tudor Rd.

Anchorage, Alaska 99503

USA

A los estudiantes mexicanos en el Area de Pesquerías

Alentamos a todo estudiante mexicano a aplicar a este programa de "travel scholarship", descrito anteriormente. Se les comunica a todo estudiante mexicano en pesquerías que se les reducirá sus cuotas de registro y asistencia en hospedaje, si usted participa como Voluntario en esta Reunión. Favor de contactarse con el Sr. Fred Feyrer a la siguiente dirección: ffeyrer@water.ca.gov or (916) 227-2552 para ser voluntario y arreglos de alojamiento.

Para asistencia de Información de alguna actividad descrita anteriormente, favor de contactarse con:

Dr. Eric Knudsen,
eric_knudsen@usgs.gov
Tel. (001)-(907)-786-3842
Fax. (001)-(907)-786-3636

Mr. Glen Contreras,
gcontreras@fs.fed.us
Tel. (001)-(703)-605-5286
Fax. (001)-(703)-605-0279

Dr. Salvador Lluch-Cota,
sluch@cibnor.mx

California Concludes That Federal Irrigation Withdrawals and Low Flows Were Primary Cause of Klamath Salmon Kill

From the Pacific Coast Federation of Fishermen's Associations Northwest Regional Office

Redding, CA -- The California Department of Fish and Game (DFG) released a report today finding that excessive federal water diversions from the Klamath River were the primary cause of a massive fish kill in the Klamath River in September and October 2002. The report confirms what Tribal biologists, fisheries scientists and commercial fishermen have been saying all along -- that massive amounts of water taken out of the Klamath River by the Bureau of Reclamation to irrigate the federally subsidized Klamath Irrigation Project are systematically dewatering the lower Klamath River and rapidly killing off one of the most valuable salmon fisheries in the west coast, causing enormous economic losses to coastal and fishing-dependent communities.

The 63-page report, "September 2002 Klamath River Fish Kill: Preliminary Analysis of Contributing Factors," states among other conclusions: "The DFG concludes that low flows and other flow related factors (e.g., fish passage and fish density) caused the 2002 fish kill on the lower Klamath River. Furthermore, of the conditions that can cause or exacerbate a fish kill, flow is the only factor that can be controlled to any degree. Flow is regulated by upstream reservoirs operated by the USBR [U.S. Bureau of Reclamation] on both the Klamath and Trinity Rivers." (Pg. 54)

"September 2002 was unique compared to other low flow years when adult fish kills did not occur in the Klamath River basin. September flow releases from Iron Gate Dam in 2002 (provisional data) were the lowest on record when returning numbers of fall Chinook salmon were at average or above average levels." (Pg. 54)

"When looking at the longer period of record since 1951, higher average September flows than in 2002 occurred in 92% of the years." (Pg. 54) Nor were unusually high water temperatures nor any toxic chemical spills occurring at that time that would have helped explain the fish kill, as was initially claimed by upper basin interests in an attempt to deny low flows as a cause:

"Water temperatures in the Klamath River were not unusually high during September 2002 when compared to historic data.. Sampling of the lower Klamath River in September 2002 confirmed that no toxic substances were present at concentrations to have caused the fish kill." (Pg. 57)

"The September 2002 fish kill was caused by a combination

of high densities of adult fish in the lower Klamath River (due to low flows and possibly inadequate fish passage) and warm water temperature conditions which are typical for this time of year. (Pg. 57)

The report also makes it very plain that the low flow conditions established by the Bureau of Reclamation with the concurrence of the National Marine Fisheries Service (NMFS) in its 2002-2012 Biological Opinion are very likely to result in additional fish kills in the future:

"There is a substantial risk for future fish kills on the Klamath River considering that pathogens are always present, temperatures are normally at levels that can cause disease, and under the 2002 BO [Biological Opinion] flow prescription, a moderate sized run of salmon and steelhead can generate high enough densities in the lower Klamath River to result in a major fish kill." (Pg. 57)

Over 33,000 adult salmon, including hundreds of federally protected coho, died before they could spawn when officials with the federal Bureau of Reclamation diverted too much of the Klamath River to upstream farmers. The DFG concluded that sheer lack of water in the river caused lethal conditions and overcrowding for salmon.

"The DFG concludes that low flows restricted fish passage and increased fish density thereby causing the 2002 fish kill on the Lower Klamath River." (DFG Cover Letter 1/3/03 conveying the Report to Dave Sabo, US Bureau of Reclamation) The returning fish then crowded together in a few "thermal refugia," spots where cooler tributaries brought colder water into the river. Naturally occurring infectious bacteria and parasites that are normally under control when water is cooler and fish are less stressed then swept through the stressed and densely concentrated fish like wildfire in a classic epidemic pattern, killing nearly all and seriously weakening the rest before any could get to spawning grounds. It was not until water temperatures were reduced and more water was flushed down the river by federal agencies on an emergency basis that the fish could begin moving upriver to spawning grounds, by which time losses were already very high. Roughly 25 percent of the entire year's Chinook spawners died in the immediate fish kill, with much of the remainder weakened.



Dead fish on the mainstem Klamath River

WDAFS Candidate Profiles - Vote today with the enclosed ballot!

Vice President

Bob Hughes

Professional Background: I received an A.B. (Biology & Psychology, 1967) and an M.Sc. (Resource Planning & Conservation, 1973), both from the University of Michigan. In 1979, I obtained my Ph.D. (Fisheries) from Oregon State University. From 1977-1980 I was an assistant professor at Western Michigan University, teaching stream ecology and field biology and conducting research. I was employed one year each by the University of Illinois and the U.S. Environmental Protection Agency. Since 1982, I have worked as a regional aquatic ecologist for the U.S. Environmental Protection Agency lab's contractor in Corvallis, OR. My research has focused on developing and testing field survey methods and bioindicators, using reference streams and ecoregions to help estimate potential conditions in fish assemblages, and conducting bioassessments. During that time, I studied streams and rivers in the 12 conterminous western United States, and Canadian & New England lakes. I am a Courtesy Associate Professor of Fisheries at Oregon State University, and served as a Technical Advisor on dissolved oxygen and biocriteria for the Oregon Department of Environmental Quality. I was sponsored to present my research results on fish assemblages in Sweden, Brazil, Poland, and France, and have 76 peer-reviewed publications. I am North American Benthological Society Science & Policy Committee Co-chair (2002-2003) and Conservation & Environmental Issues Student Award Chair (2002-2003).

AFS Experience: I served as Oregon Chapter President-Elect (1993-1994), President (1994-1995), Past-President (1995-1996), and Legislative Committee Co-chair (1995-1996). My major accomplishments in the Oregon Chapter included developing a sound budget while employing part-time legislative and executive assistants, rewriting executive committee and annual meeting handbooks, completing a chapter ethics statement, and introducing a unanimously-passed resolution favoring the breaching of four dams on the lower Snake River. I was Program Chair for the 1996 Western Division annual meeting in Eugene, OR. My focus at that meeting was documenting the status and trends in biodiversity of western fishes. At the national level, I was Nominating Committee Chair (1999); Water Quality Section President-Elect (1997-1999), President (1999-2001), Past-President & Newsletter Editor (2001-2003); Governing Board Member (1999-2001); and Associate Editor of the North American Journal of Fisheries Management (2001-2003). My major accomplishments in the Water Quality Section were updating the bylaws, helping develop a budget, beginning electronic mailing of the Section newsletter, and helping convince the Governing Board to initiate a fund for attendance by international members at our annual meetings. I have chaired six symposia at national meetings and given 19 presentations at local, division, or national meetings.

AFS Western Division Goals: I endorse improved communication among Division Officers, Committee Chairs, and Chapter Presidents through use of periodic conference calls, a mid-year meeting, and emails. I advocate a Division position on issues affecting multiple states and provinces, including reviews of such proposed policies as the AFS dam removal position statement, the USEPA's proposed rules defining waters unregulated by the Clean Water Act, federal water project subsidies, Endangered Species Act amendments, and marine and

anadromous fisheries management. I support increased communication with Division members through a web page, electronic mailing of The Tributary, and informative and exciting annual meetings. Also, I favor greater linkages with other aquatic scientists, fishery students, non-USA members, and young fishery professionals by subsidizing selected presentations at our annual meetings.

Joe Margraf

Background – I am Leader of the U.S. Geological Survey Alaska Cooperative Fish and Wildlife Research Unit at the University of Alaska Fairbanks. I graduated from Cornell University with a B.S. degree in fisheries science and Texas A&M University with M.S. and Ph.D. degrees in fisheries science. My professional interests are in the broad area of fisheries ecology, with experience in marine, estuarine, and freshwater systems. I have been in the Cooperative Research Unit program since 1980, starting with the Unit at Ohio State University, then at West Virginia University and University of Maryland Eastern Shore.

AFS Involvement & Vision – I am a life member of AFS, having joined the Society in 1972. I have chaired and served on numerous committees and held several elected offices, including President of the Texas A&M Chapter, Secretary-Treasurer and President of the Ohio Chapter, founding President of the West Virginia Chapter, and Secretary-Treasurer and President of the Education Section. For the last six years I served as the Society's Constitutional Consultant (and parliamentarian). In addition to my duties as CC, I have been part of the AFS Leadership Training Team, presenting at the Parent Society annual meetings and all of the Divisions' annual meetings a segment on running an effective business meeting and Robert's Rules of Order. Perhaps my greatest accomplishment while serving as CC was the drafting of the new AFS Constitution and Rules, which were ratified at the Annual Meeting in Phoenix. I am also a Fellow in the American Institute of Fisheries Research Biologists, presently serving on the membership committee and as the Northern Alaska District Director.

My six-year tenure as CC has given me a great deal of insight as to how AFS functions at the Parent Society level and the issues facing AFS and fisheries in general. Your representation in AFS at this level comes from your President and Vice President as voting members of the Governing Board and Management Committee. How effective these individuals can be is largely dependent on their understanding of how the AFS system works and an historical perspective of how the organization has arrived at its current state.

Having served as president of three different chapters, I am also aware of and sensitive to the importance of local problems, which almost always include issues such as recruitment and retention of members, travel to meetings, funding of special projects, continuing education and training for current professionals, appropriate and effective advocacy of fisheries issues, to name a few. Satisfactory solutions to these common problems can be enhanced by effective and regular communication among the chapters and with the Division.

I want to thank the Western Division Nominating Committee for the honor of being nominated for the position of Vice President. As a relative newcomer to the Division, I am especially honored by the confidence they have placed in me. If elected I will do my best to serve the members of the Western Division and to be an effective advocate for the myriad of important issues facing the Division and its fisheries resources.

Letter to WDAFS President from the Bonneville Chapter Concerning Fire Suppression Issues



January 22, 2003

Dear Mr. MacDonald

The American Fisheries Society (AFS), formed in 1870 is the oldest and largest nongovernmental organization devoted to promoting the sustainability and sound stewardship of fisheries resources and aquatic ecosystems. The Bonneville Chapter AFS represents about 130 professionals in the state of Utah working to manage, protect and enhance aquatic resources. Membership includes representation from state, local and federal agencies; academia; and the private sector.

The Executive Committee of the Bonneville Chapter has reviewed with interest recent fire suppression methods, fire planning, and use of prescribed fire and impacts on aquatic resources in summer of 2002 in Utah. As the mission of the American Fisheries Society is to promote the "conservation, development, and wise use of aquatic resources," we feel it is appropriate for the AFS to address these concerns and provide constructive information and proposals to land management agencies that use and suppress fire.

Of the issues raised in Utah this year, the one of probably greatest national importance is the potential spread of Aquatic Nuisance Species (ANS), such as whirling disease, exotic aquatic weeds (Eurasian milfoil), zebra mussels, New Zealand mudsnails, exotic zooplankton, and potentially many others. Fire suppression activities in Utah during 2002 included cross-drainage movement of water through helicopters and fire engines. It is also noted that equipment used to fight fires can be quickly moved across large distances, including state boundaries. This poses a major risk for disease and ANS transfers. We understand that similar concerns were raised on the Hayman Fire in Colorado during 2002. In addition, there has been similar issues raised with the potential spread of noxious weeds from fire suppression over the past decade, but this review has not been expanded to include ANS.

Economic and biological consequences of ANS transfers can be huge. For example, zebra mussels reportedly cause billions of dollars of damage annually within the Mississippi River drainage. Locally, two state fish hatcheries have been closed in Utah as a result of whirling disease. Given the large and costly control efforts being expended by some government agencies in regard to ANS, it is disconcerting to see water and equipment transfers by other agencies occurring without consideration of this threat.

With such large environmental consequences at stake, we question how National Environmental Policy Act (NEPA) processes have been applied to such activities. Apparently, ANS and aquatic resources have been

Bonneville Chapter letter (cont.)

overlooked. Understandably, fires occur as emergencies, but universal precautions should be used for standardized plans and processes. Outside review of fire suppression activities by other concerned agencies and by the public would be beneficial in addressing problems, increasing communication, and coordinating activities.

In addition, a serious fish kill in Utah resulted from the deliberate use of managed fire. A prescribed fire was allowed to burn for approximately 6 weeks in late spring, during the worst drought on record in southern Utah. In late May and early June, high winds (seasonably common) led to the fire escaping the prescription designated area. The fire burned over several watersheds. Immediate fire effects killed most of the cutthroat trout in three headwater streams. If pro-active efforts had not been underway to recover native cutthroat trout, one unique genetic stock would have been entirely lost. Rain storms following the fire washed ash down the watershed into the valley stream killing trout, mountain suckers, speckled dace, mottled sculpin, and leatherside chubs (a state sensitive species) in over 37 miles of stream and river. This may be the largest accidental fish kill ever recorded in Utah. In addition, other Utah wild fires during 2002 led to the probable extirpation of two native trout populations (approximately 17 stream miles) and a fish kill from dropping fire retardant directly into a stream.

With regard to wildfire suppression, use of retardants, and the planning and use of prescribed fire, we feel there is a need for increased coordination of fire incident teams with aquatic experts, including both inter- and intra-agency personnel. Short term and long-term benefits and impacts should be given more review in regard to aquatic resources. Fire suppression, in some cases, should be given high priority to protect unique or economically important fisheries. Consequences of prescribed burns escaping designated areas should be reviewed under NEPA, and alternatives to the use of fire near aquatic resources given higher consideration for management applications. Use of less toxic fire retardants should be encouraged, at least near aquatic resources. Finally, resource advisors need to be competent and educated in regard to aquatic resource values and ANS issues.

We understand that in some cases there are positive and beneficial effects from fires. We are aware of research which has shown minimal negative effects from fire in large interconnected aquatic systems where fish populations can move and re-colonize following localized fires. We must recognize that not all fires fit these scenarios, however, and that there are differences between the southwest and northwest portions of North America.

We appreciate the Western Division's consideration of these issues. If the Western Division is supportive of comments and issues raised in this letter, we recommend working with the Environmental Concerns Committee to determine who the letter should be sent to. The Bonneville Chapter Executive Committee recommends that copies of this letter be sent to Congressional Delegates. If we can provide additional information or clarification regarding our comments, please do not hesitate to contact me.

Sincerely,
Don E. Wiley
President

Bonneville Chapter of the American Fisheries Society
1115 N. Main
Springville, UT 84660

WDAFS Fire Suppression Concerns Subcommittee

The Bonneville Chapter of the American Fisheries Society recently sent a letter to the Western Division of the AFS asking for the Division's consideration of aquatic issues regarding fire suppression methods, fire planning, and the use of prescribed fire. This was driven, in part, by several serious and potential impacts from fire during the summer of 2002. To help the Western Division determine whether these issues relate just to the Bonneville Chapter or include other Chapters in the Division, we are asking for other Chapter's input on whether they have faced similar concerns. Examples of problems cited by the BCAFS were: 1) the potential spread of ANS such as whirling disease, weeds, snails, etc. due to fire suppression activities transporting potentially infected water without decontamination, and whether the spread of ANS has been considered by fire personnel in your area or covered under NEPA documents, 2) impacts to aquatic resources from prescribed burns, including whether NEPA analysis was done and if it was inadequate to fully disclose potential effects or protect the aquatic resources, 3) examples of extirpations of important fish populations due to wild fire and whether suppression activities considered aquatic resource values, 4) fish kills resulting from the introduction of fire retardant or other fire chemicals into the water, and 5) inadequate coordination of fire personnel and aquatic specialists and managers and potentially inadequate aquatic skills by fire incident team resource advisors. The Western Division EXCOM has authorized a subcommittee of the Environmental Concerns committee to address these issues. If you have experienced similar fire concerns, please send a short synopsis and contact information to Jim Whelan at jwhelan@fs.fed.us for synthesis.

New Book Release from AFS

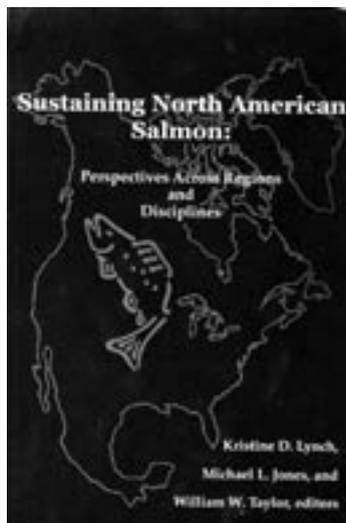
Sustaining North American Salmon: Perspectives Across Regions and Disciplines

U.S. and Canadian fisheries professionals from multiple disciplines examine the history, current knowledge, and research needs of fisheries stakeholders, managers, and policy makers regarding salmon ecology, policy, and management in North America. This book offers a greater understanding of the complexity and repercussions of salmon management, currently a controversial issue between Canada and the United States. Information needs from biological, social, and economic perspectives are identified, enabling managers and policy makers to develop an action agenda to acquire and utilize this information.

This excellent reference for the management of salmon presents a synthesis of the history, ecology, sociology, economics, politics/institutions, and the future of one of the most economically and culturally significant fishes in America.

413 pp., paper,
November 2002
Stock #: 550.39
List price: \$69
AFS member price:
\$48

ISBN# 1-888569-40-9



To order:

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2003 Annual General Meeting North Pacific International Chapter AFS

“Are Environmental Regulations Resulting in Effective Ecosystem Management?”

April 4-5, 2003

Westin Bayshore Resort and Marina

Coal Harbour, Vancouver, British Columbia

This year's Annual General Meeting (AGM) will bring together researchers, managers, students and concerned individuals from within academia, First Nations, government and the private sector, which share concerns for ecosystem-based planning and management in the varied aquatic environments of the North Pacific region. Our chapter and its AGM foster the common goals of sustainable fisheries and preservation of biodiversity among different political arenas. Our strength within AFS comes from our trans-boundary nature, as well as our ability to recognise shared issues and together develop unique solutions.

We will focus on lessons learned from the U.S. Endangered Species Act (ESA), and the changing face of the comparative Canada Species At Risk Act (SARA). Attendees will have a unique opportunity to address a panel of key U.S. and Canada officials with questions about the current application of the bodies of law designed to protect and recover our respective and shared fish and wildlife populations. Other features of the 2003 AGM include promotion and continuation of strong student chapter activities and the AFS Professional Certification Drive.

Program Overview

- Two Plenary Sessions, the first of which will emphasize the interest of the Western Division and the North Pacific International Chapter of the AFS to move toward ecosystem-based management, and address trans-boundary issues in this context. The second will introduce the successes and challenges of implementing ESA and developing SARA.
- Three concurrent Technical Sessions.
- A Poster Session.
- An Invited Panel (including Bill Ruckelhaus, Bob Lohn, and Rod Sando), that will provide participants with opportunities to cooperatively develop solutions to key challenges impeding progress toward ecosystem-based management of trans-boundary water, fish, and wildlife.

Important Date(s)

- 5 March, 2003 Deadline for Abstracts, Registration & Guaranteed on-site accommodations
- 4-5 April, 2003 Annual General Meeting underway at Westin Bayshore, Vancouver, BC

SEE OUR WEBSITE FOR COMPLETE DETAILS:

<http://www.fisheries.org/npic/>

For general information contact:

Paul O'Connor at 604.609.0425;

or by email at pablo_oconnor@yahoo.com.

For registration questions:

contact Rob Nielsen at 206.438.2252;

or by email at robert_nielsen@urscorp.com.



4th World Fisheries Congress

Vancouver, BC, Canada 2004

Vancouver Welcomes the World.

The American Fisheries Society has reached out to the world's fisheries professionals by hosting the Fourth World Fisheries Congress in Vancouver, Canada, May 2 to 6, 2004.

How do we reconcile the human use of aquatic resources with the conservation of ecosystems? We are challenged with managing fisheries without causing unacceptable losses of biomass, species, diversity, habitats and ecosystem function. To achieve this goal, the Fourth World Fisheries Congress shall examine fresh, interdisciplinary ways to evaluate and maintain the economic and social benefits of healthy fisheries, in the face of global climate change, human population trends, competing habitat

demands, and the expressed desire for a future world of aquatic ecosystems endowed with natural diversity and resilience. These are the major challenges facing the management of aquatic ecosystems at the opening of the 21st Century.

The Congress theme, "Reconciling Fisheries with Conservation, the Challenge of Managing Aquatic Ecosystems", is in accord with the goals, purposes and objectives of AFS and of the series of World Fisheries Congresses held every four years since 1992. The fourth congress in 2004 aims, first, to systematize and explore the issues that underpin the reconciliation of fisheries with conservation, and, secondly, to promote scientific advice, cooperation and partnership among the world's fisheries scientists, managers, the fishing industry, and conservation movement in

achieving this vital goal.

An international array of prestigious fisheries scientists will provide keynote addresses, and chair program sessions. A program of over 40 concurrent sessions will address the most pressing issues in fisheries management in both freshwater and marine ecosystems. In addition, a special forum for interested scientists, industry representatives and non-governmental organizations will address the theme. The details of the program and venue are provided as they become available on the web page, and we will endeavour to keep you informed through "Fisheries" as well, with feature articles on key aspects of the Congress.

The Fourth World Fisheries Congress is destined to be an historical contribution to fisheries science and management, culminating in a strong statement on the task of harmonizing fisheries and conservation. An expression of interest form is included on the web page www.worldfisheries2004.org by which we will ensure you are kept current on all future announcements.

We look forward to seeing you in Vancouver in 2004.

Bruce Ward and Dana Schmidt, Congress Co-chairs

Carl Sullivan Achievement Award Committee Seeking Nominations

The Carl Sullivan Achievement Award Committee is seeking nominations. The award is given annually to an individual or organization, professional or non-professional, for outstanding contributions to the conservation of fishery resources. Criteria for the award are:

1. The recipient must have made a substantial conservation contribution with a high probability of focusing the attention of the fisheries community on the continuing need to use our aquatic resources wisely. The contribution may be single or life-long, focused on broad, site-specific, or geographically extensive accomplishments.
2. The recipient's contribution will likely become widely known in the aquatic science community because it will effect substantive beneficial changes in the understanding and management or use of fishery resources.
3. The recipient's contribution may be in any area of aquatic conservation including management, education, public service, research, or leadership that effects a positive change benefiting fishery resources.

A good nomination typically consists of a strong nomination letter, a CV if the nominee is an individual or some printed material if it is an organization, and at least one additional letter supporting the nomination. Please send your nominations to me (address below) ASAP, but by no later than April 15, 2003. Please think of a deserving individual or organization and submit a nomination.

Thank you,
Ira Adelman
President Elect
Department Fish, Wildlife, & Conservation Biology
University of Minnesota
1980 Folwell Avenue
Saint Paul, MN 55108-6124
ira@finsandfur.fw.umn.edu

REGISTRATION FORM



2003 Joint Annual Meeting Western Division & California/Nevada Chapter, AFS & California Estuarine Research Society April 14-17, 2003



Hyatt-Islandia Hotel - 1441 Quivira Road - San Diego, California 92109, (619) 224-1234

See www.fisheries.org/wd for information about Lodging, Fishing/Dive Trips and Continuing Education Classes

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____ E-mail _____

Guest Name(s) for social, and/or luncheon _____

AFS Parent Society Member # _____

Registration Fees	AFS Western Division & Cal-Neva	CAERS**	
Member	\$265 Late fee \$335	\$40	_____
Non-Member*	\$325 Late fee \$395	\$50	_____
Mexican Professionals	2000 Pesos		_____
Retired AFS Member	\$125		_____
Student	\$ 95	\$20	_____
Daily	\$150		_____
Guest	\$125		_____
Continuing Education Class	See separate registration form		_____
Grunion 5K Run	\$ 12		_____
T-shirt size	XXL ___ XL ___ L ___ M ___		_____
Voluntary Contribution to Student Assistance Fund			_____

*Membership included with non-membership registration fee
** CAERS Registration fee required to attend CAERS annual meeting on April 14th

TOTAL REGISTRATION PAYABLE TO CAL-NEVA CHAPTER AFS _____

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Early Registrations must be submitted by March 14, 2003, and late registrations from Mar 15th to April 7th. After April 7th registration will be ON-SITE ONLY.

Mail Registration Form to:
WDAFS/Cal-Neva Annual Meeting
ATTN: Judy Urrutia Or Fax (530) 846-3795
PO Box 872
Gridley, Ca 95948

REFUNDS: Cancellations in writing prior to March 14, 2003, will be refunded minus a \$20 admin fee.

NO REFUNDS AFTER MARCH 14, 2003