

The Tributary

A Newsletter of the Western Division of the American Fisheries Society

Volume 31, No. 1, January 2007



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The Golden Gate Awaits AFS in 2007

David Manning, AFS 2007 Meeting General Chair



The Cal-Neva Chapter and Western Division are excited to host the 137th Annual Meeting of the American Fisheries Society in San Francisco on September 2-6, 2007. We will welcome more than 2,000 national and international colleagues to the beautifully appointed downtown Marriott located at Mission and 4th Street in the financial district. Adjacent to Yerba Buena Gardens and only blocks from Union Square, the Embarcadero, and China Town, this modern 1,500 room hotel has more than 100,000 square feet of meeting space that can accommodate every session, symposium, and function during this busy four-day conference.

Equally exciting is our gala offsite social event to be held Wednesday September 5 on the San Francisco Maritime National Park's Hyde Street Pier. Located at the western end of Fisherman's Wharf below Ghirardelli Square, the site offers impressive views of the Golden Gate Bridge, Alcatraz, and allows attendees private access to historic merchant and passenger vessels.

Thanks to the overwhelming enthusiasm of our Committee dubbed "Team AFS in SF 2007", we're well on our way to creating the Society's most spectacular national gathering to date. Program Co-Chairs Larry Brown and Eric Wagner anticipate that AFS President Jennifer Nielsen's theme, "*Thinking down stream and down current: Addressing uncertainty and unintended consequences in fish and fisheries,*" will generate a full program of up to 21 concurrent daily sessions and symposia. For more information, view the "Annual Meeting 2007" pages on the AFS Web site (<http://www.fisheries.org>).

Please join me in thanking the more than 30 dedicated volunteers from over a dozen agencies, institutions, and organizations that have been working for the past six months on every aspect of conference planning. We had a contingent of 14 planning committee members in Lake Placid to proudly unveil the 2007 Annual Meeting Poster. Thanks to Rene Reyes, Tina Swanson, and graphic artist Rad Smith of Garcia and Associates for their amazing work on this project!

President's message

Bob Hughes, Western Division AFS President

Greetings Fellow Western Division Members,

In my first letter to you all, I outline what I intend to accomplish in my year as your President, with the able assistance of your Chapter Presidents and Western Division Committees. In short, I intend to continue on the path so carefully envisioned by preceding Presidents, Executive Committees, and Western Division Committees. These include the following six major projects:

1. Attain and maintain sufficient principle in our investment fund to support our grant and scholarship program on the earned interest. I believe we are one to two years from a level sufficient to withstand market fluctuations, thanks to the able direction of Henry Booke and Bill Bradshaw. This fund is also now open to Chapter co-investments.
2. Complete the organization and storage of our Division Archives, as a result of the excellent librarian skills of Venice Beske. Did you know that our archives consist of nearly 60,000 pages (30 boxes) of materials, beginning with 1948 when the Western Division was chartered? We are considering two types of permanent storage: paper storage at the D.C. Booth Hatchery facility in Spearfish, SD, and scanning the documents for subsequent storage and searching through a link on our website.
3. Burn and distribute an additional set of DVDs of our Cutthroat Trout Conservation Documentary. This will be completed this year under the enthusiastic direction of Kajsa Stromberg and Ken McDonald. If you have not seen this DVD, you should obtain a copy and share it with your local schools and PBS TV stations. Send an email to kstromberg@montana.edu for more info.

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Western Division AFS Officers



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(President's Message, continued from Page 2)

4. Finish the Western Native Fish Project, chaired by Jim Tilmant and Lynn Starnes, and conducted through a contract with Garcia and Associates with Leanne Roulson serving as Senior Scientist on the project. The goal is to provide a digital database listing species, distributions, and native/non-native status of indigenous fish species in the area represented by the WDAFS (including British Columbia and Mexico). An interactive website link and a journal article describing the database are planned.
5. Publish in *Fisheries* the results of last spring's survey of bull trout biologists, and aid completion of the USFWS' draft recovery plan. These projects are led by Robert Al-Chokhachy, Wade Fredenberg, and Shelley Spalding. This federally threatened char includes both robust and extirpated populations in the Pacific Northwest, so we have ample opportunities to demonstrate what environmental conditions work for it and which do not.
6. Last, but not least, co-host the AFS Parent Society, California-Nevada Chapter, and Western Division joint annual meeting in San Francisco. This effort is energetically led by Dave Manning, Larry Brown, Eric Wagner, Jean Baldridge, Kathy Hieb, and an enthusiastic cast of committee chairs and committee members. Check out the continually developing website at <http://www.fisheries.org/sf/> for information and updates, and plan to attend an exciting, entertaining, and highly educational event. Note that Dave has contracted for 1,200 rooms at the downtown Marriott (which is where the meeting will be held) at the government per diem rate of \$140, but we are planning on 2,000 registrants. So if you plan to attend, you may want to reserve a reasonably-priced hotel room before they disappear.

These six projects are excellent examples of what we can accomplish as WDAFS members working in concert. If you would like to help with any of them, or if you have ideas for different projects of similar scope, please contact the committee chair or me.

Bob Hughes

Membership Alert!

 Please ensure that your AFS membership is in effect and that AFS has your most current contact information. Over the past year, the Parent Society has developed an entirely new Web site and an electronic system for membership payments. With this transition, there is a chance your membership renewal might fail. If you do not receive *Fisheries* monthly or regular emails, contact Eva Przgodzki (eprzygod@fisheries.org), Gus Rassam (grassam@fisheries.org), your Chapter President, or Bob Hughes (hughes.bob@epa.gov). In addition, on its initial test last summer, the Parent Society found a 30% error rate in our email addresses. Remember to update your email address with AFS when it changes, and remember that a single erroneous keystroke will mean we cannot communicate with you via email.

AFS in San Francisco 2007: How You Can Help

David Manning, AFS 2007 Meeting General Chair, Cal-Neva President-Elect

The New York Chapter's performance in Lake Placid will be a hard act to follow but the Cal-Neva/Western Division planning committee is up to the task. Attendance at AFS National Meetings is on the rise and more than 1,900 members (including nearly 400 students) made the journey to the Adirondack Mountains for a week of stimulating sessions and Oktoberfest hospitality.

The turning fall leaves and chilly northeastern nights greeted unsuspecting Californians that shivered through the outdoor welcoming social but a local brew termed "Ubu" seemed to warm most evenings. The Lake Placid organizing committee had anticipated that a new convention center would be ready in time for the conference. Although it did not materialize, they compensated by transforming the historic Olympic venues around town into conference facilities. These arrangements necessitated some walking, okay, a lot of walking, between venues but the quaint surroundings compensated for the long hikes.

Our San Francisco meeting will have a distinctly different flavor but the location also presents unique challenges. The large, beautifully appointed, and thoroughly modern Downtown San Francisco Marriott will contain our entire conference and eliminate long journeys between sessions. However, the convenience of this stunning location is not without cost. We've secured an unprecedented low rate of \$140 single or double occupancy for 1,200 hotel rooms per night during the conference but pricing for all other services in San Francisco is second only to Manhattan and the San Francisco Meeting will be the society's costliest to date.

<http://www.fisheries.org>



Members of "Team AFS in SF 2007" who attended the 2006 AFS Annual Meeting in Lake Placid (from left): David Manning, Tom Keegan, Josh Fuller, Lourdes Rugge, Pete LaCivita, Larry Brown, Lenny Grimaldo, Mike Meinz

To help offset these costs and enhance the meetings niceties, we've formed a stellar Fundraising Committee headed by Entrix Vice-President Jean Baldridge. Jean, Betsy Fritz, Bob Hughes, Mike Meinz, Ted Frink, Mike Shane, and Tom Keegan have been contacting their personal networks of potential donors but we are asking the membership to help us solicit additional private, agency, and institutional sponsors. Previous AFS National Meeting planning committees have found that donors often don't respond to bulk form letters and most support has been garnered by organizations giving to personal contacts. We're confident that many Western Division members have made these personal connections throughout their careers and can help us appeal to potential benefactors.

If you know of potential donors, please contact me at dmanning@scwa.ca.gov or (707) 547-1988 and I'll put you in contact with our stalwart fundraisers. AFS offers a wide array of benefits for meeting sponsors and we expect 2,000-3,000 attendees in San Francisco!

Awards Time!

It's time to submit Western Division Award Nominations for the 2007 Meeting in San Francisco. The Awards committee for the Western Division is soliciting nominations for awards to be bestowed at our Annual Business Meeting in San Francisco in September 2007. This is the time to nominate and honor individuals or groups who have demonstrated outstanding contributions to the American Fisheries Society, to our profession, and to fisheries research, conservation and management. This is your opportunity to nominate and honor someone you have professionally admired and ensure that your peers receive the recognition they deserve. Please take a moment and think about people you know that meet the award criteria and should be recognized for their significant contributions and accomplishments. You can view past and present award recipients on the WDAFS web site – http://www.wdafs.org/committees/awards/award_winners.

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

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

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

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

Robert Borovich Conservation Achievement Award. This award is given annually to an individual (AFS member or non-member) who has significantly contributed to fishery conservation within the Division.

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

In addition to the awards described above, the Division also awards the **WDAFS Outstanding Chapter Award** and the **WDAFS Riparian Challenge Awards**.

Please contact Past President, Joe Margraf, Awards Committee Chair with your nominations. Joe can be reached via email at joe.margraf@uaf.edu, phone at (907) 474-6044, or mail at P.O. Box 757020, Fairbanks, AK 99775-7020.



WESTERN DIVISION AMERICAN FISHERIES SOCIETY

EUGENE MAUGHAN GRADUATE STUDENT SCHOLARSHIP

2007 Application Procedures

The Western Division is pleased to announce that applications for its graduate-level student scholarships are now being solicited. This scholarship program provides up to \$3,000 annually in scholarships to masters or doctoral students in the general area of fisheries science with one to three awards to individual students. Beginning in 2002, the Sustainable Fisheries Foundation established the William Trachtenberg Memorial Scholarship Fund, which augments the Western Division scholarship program. This fund provides up to \$600 annually to a graduate-level student conducting studies on fisheries sustainability. Applications for the Western Division scholarship program will automatically be considered for the Sustainable Fisheries Foundation scholarship program as well. An award committee of five fisheries scientists from the Western Division will make the decision regarding the award of scholarships from both programs. Selection criteria include demonstration of:

1. Excellent scholarship as evidenced by grades in rigorous course work during the last 60 hours as an undergraduate and during graduate studies.
2. Potential for future contributions to the fisheries profession through management, research, or teaching.
3. Significant progress toward attaining a graduate degree in fisheries science with a defined thesis or dissertation project.

The 2007 scholarships will be awarded at the Annual Meeting of the Western Division AFS in San Francisco, California, September 2-6, 2007.

APPLICATION CRITERIA AND PROCESS

1. Applicants must be a member of the American Fisheries Society or have submitted 2005 membership materials by the time of application. *Your AFS Member number should be placed on application.*
2. Applicants must have completed one semester or two quarters in a graduate degree program at a university within the geographic boundaries of the Western Division.
3. Applicants must have a major field of study that is related to fisheries or aquatic science.
4. Applicants must submit an application package that contains **five (5)** copies of each of the following:

A. A letter to the award committee that includes (three separate items):

1. A brief description of the student's degree program and the anticipated date of completion.
2. A statement of the applicant's career goals and reasons for applying for the scholarship (up to 200 words).
3. A statement of the academic and professional activities and contributions to AFS and the fisheries science profession (up to 200 words).

B. Copies of undergraduate and graduate transcripts, *and* GRE scores.

C. A one-page abstract outlining the goals, objectives, design, methods and expected outcome from the thesis or dissertation project. *Continued next page...*

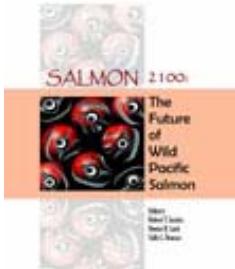
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D. Letters of reference from two faculty members (one must be the graduate students advisor) familiar with the student's background and abilities. Letters may be sent separately by individual providing the reference.

The application package should be sent (postmarked) no later than May 25, 2007 to:

Bob Gresswell
Western Division Scholarship Award Committee
USGS-NRMSC
1648 S. 7th Avenue
Bozeman, MT 59717
406-994-7085
bgresswell@usgs.gov

New book! *Salmon 2100: The Future of Wild Pacific Salmon*



The American Fisheries Society has just published a provocative new book, *Salmon 2100: The Future of Wild Pacific Salmon*. The book, the product of a 4-year international project, features the policy recommendations of 33 senior salmon scientists, policy analysts, and wild salmon advocates about how to save runs of wild salmon in the United States and Canada.

Throughout California, Oregon, Washington, Idaho, and southern British Columbia, all wild salmon runs have declined or disappeared since 1850. Billions of dollars have been spent in failed attempts to reverse the long-term decline, and each year, hundreds of millions more continue to be spent in various restoration programs. Fisheries biologists and other scientists continue to help craft restoration plans, but a fast, easy fix has remained tantalizingly out of reach. How can nearly everyone be in favor of restoring wild salmon, as opinion surveys indicate, and we devote considerable effort and resources in their recovery, but the long-term prognosis for a sustainable future appears to be so grim?

The primary goal of the book is to identify practical options that have a high probability of maintaining significant, sustainable populations of wild salmon. While the participants' conclusions were both grim and hopeful, they were unanimous in their opinion that present efforts to preserve wild salmon runs would fail. Yet they all felt that wild salmon could be saved – with the right strategy. The book does not advocate any particular policy, but provides decision makers and the public with a diverse set of policy prescriptions that have reasonable prospects of success.

"Some of the policy options are radical and surely would be difficult to implement – especially those requiring changes in the Endangered Species Act," said Robert T. Lackey, a senior fisheries biologist with EPA and a professor at Oregon State University and one of the editors of the book. "But it is important to remember that there are policy options that have a good chance of restoring wild salmon runs to significant, sustainable levels through 2100 and beyond." Lackey added; "Ultimately it is the public that will decide. We have provided scientifically sound policy options that would likely be successful."

The book may be ordered on-line for \$39.00 from the American Fisheries Society at www.fisheries.org.

Know of a good leader looking for a new challenge?

The Western Division is soliciting candidates for Vice President for 2007-8. The Vice President will ascend to President-elect in 2008, President in 2009, and Past President in 2010. The terms of office run from September to September, coinciding with the Parent Society Officer-year. Duties of these offices are as follows. The **Vice President** assumes the duties of the President-Elect if the President-Elect is absent, unable to act or assumes the Presidency; coordinates the activities of the Division standing and technical committees and serves as liaison between the committees and the Executive Committee; ensures that committee products concerning advocacy and policy follow a review and action pathway through the Policy Review Committee, Environmental Concerns Committee, and/or the Executive Committee in accordance with the Division Advocacy Procedures and the Bylaws; serves as Chair of the Membership Committee and as a member of the Program Committee. The **President-Elect** assumes the duties of the President if the President is absent or unable to act; serves as Co-Chair of the Program Committee; prepares and presents a detailed budget for the next fiscal year for review by the Division's Executive Committee and membership approval at the annual meeting; and serves as a member of the Society's Governing Board. The **President** presides at all meetings; serves as

Chair of the Executive Committee; serves as a member of the Society's Governing Board; appoints committee chairs and performs other functions as authorized; and presents reports of Division activities at the annual meeting of the Division, at meetings of the Society's Governing Board, and at annual meetings of the Society.

The **Past President** serves as Chair of the Division Nominating Committee and the Division Awards Committee and as a member of the Policy Review Committee.

AFS Division leadership can be extremely rewarding through the prestige associated with holding office, the contacts and interactions with other professional leaders, and the satisfaction associated with contributing in a positive manner to the profession and the resource. The time commitment is real, but modest, especially for the Vice President, President-elect, and Past President. With exception of monthly conference calls (about an hour long), one or two face-to-face Executive Committee meetings per year (one or two days long), and the mid-year and annual Governing Board meetings for the Society (two days each for the President-elect and President), most of the work can be accomplished on your own schedule (a few hours per month). Please contact Past President, Joe Margraf, Chair of the Nominating Committee, if you are interested in running or would like to nominate someone for office, or if you simply have questions about the commitments associated with the office. Joe can be reached via email at joe.margraf@uaf.edu, phone at (907) 474-6044, or mail at P.O. Box 757020, Fairbanks, AK 99775-7020.





OREGON CHAPTER Highlights and Updates

Mike Reed, Chapter President

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Oregon Chapter Annual Meeting 2007

"Big Fish and Big Dams: Complexities, Controversies, and Opportunities"

The 2007 Oregon Chapter AFS Annual Meeting will be held *February 27-March 2*, at the *Hilton Hotel, Eugene, Oregon*.

The 2007 Annual Meeting theme addresses the multitude of fish conservation and management issues associated with Oregon's large dams: new and ongoing efforts to reintroduce native fish over impassable dams, dam removal, new fish ladders, improved fish ladders, and complex species interactions resulting from new or improved passage. Eugene will be a fine location to host this Annual Meeting, as numerous efforts (including Eugene Water and Electric Board hydroproject relicensing efforts in the McKenzie) are underway to improve connectivity within Oregon's river basins.

Workshops (February 27-28):

- **Reintroducing Native Fish Species:** the art and science of designing and implementing fish translocation projects
- **Spring Chinook Angling and Conservation Workshop:** featuring famous Northwest guides providing educational and informative presentations and hands-on demonstrations of spring Chinook angling gear and techniques and group discussion on the sportfishers' role in fish conservation and management
- **Finding Funds for Fish: Grant Writing Techniques:** how to fund fish projects in the age of diminishing budgets

Plenary Speakers:

- **February 28 - Virgil Moore, Director, Oregon Department of Fish and Wildlife.** Virgil will join us for his first Oregon Chapter Annual Meeting in his new ODFW leadership role. Virgil has been a strong supporter of AFS during his previous career at Idaho Department of Fish and Game.
- **March 1 - Phil Pister, Executive Secretary, Desert Fishes Council.** Phil studied wildlife conservation and zoology under Starker Leopold at UC Berkeley, and spent 38 years as a fish biologist with California Department of Fish and Game. Phil has shown exceptional leadership in the struggle to preserve and protect desert fish populations throughout the southwestern US and Mexico. Phil is an excellent speaker, and challenges his audiences to practice a strong environmental ethic.

Technical Sessions (February 28-March 2): Technical sessions will run concurrently Wednesday afternoon, Thursday morning and afternoon and Friday morning.

 **The Oregon Chapter will host the 2008 Annual Meeting of the Western Division**
Where: Doubletree Hotel, Portland – Lloyd Center
When: Sunday, May 4 – Thursday, May 8, 2008

Oregon Chapter Highlights:

- The Oregon Chapter offered comments on the Draft Environmental Impact Statement for the hydropower relicensing of the lower four dams on the Klamath River. Our comments are on record and will allow us to provide comments on the final EIS due in April. At the Western Division AFS annual retreat, it was decided the WDAFS ExCom and the California-Nevada Chapter would provide comments that would be included in the Oregon Chapter's final comments in April.
- The Chapter chose to adopt an electronic registration process for the 2007 annual meeting. We are currently contracting to Oregon State University for the service.
- We also have a new web master – Mike Colvin – who has recently updated our website. Check it out at www.orafs.org.
- After much debate over the pros and cons of employing a legislative liaison, the Executive Committee chose instead to budget \$1,000 towards the Chapter's six External Committees to improve their ability to help the ExCom identify and address issues of concern. These committees include: Fish Culture, Education and Outreach, Freshwater Habitat, Legislative, Marine Habitat and Ecology, and Natural Production.
- Our administrative assistant, Loretta Brenner, has decided to move to teaching full time after 10 years of service to the Chapter. Danielle Warner has taken her place. We are looking forward to her attention to our quarterly newsletters, annual meeting registration and other Chapter matters.
- Finally, the President (Mike Reed) presented a check for \$1,000 to the Oregon State University Fish and Wildlife Club's educational opportunities. The Chapter has proudly supported this subunit as well as student scholarships every year for as long as I can remember.

Bonneville Chapter Spawn Creek Restoration Project: Using Stream Restoration to Improve Fish Health and Minimize the Impacts of Whirling Disease

Patrick Goddard, Chapter President



Above, the Spawn Creek fence during the 2006 grazing period.

The Bonneville Chapter of the American Fisheries helped initiate a stream restoration project on Spawn Creek in Northern Utah. The chapter became involved in the beginning stages of the project and was an early contributor helping to fund riparian exclosure construction. This contribution was the beginnings of a ~\$200,000 project including the implementation, monitoring and evaluation of the exclosure and restoration. This project would not have occurred if it had not been for groups like the Bonneville Chapter of AFS. In addition, the Bonneville chapter funded a scholarship for the graduate student researcher to attend a stream restoration course in 2006. The Utah State University Subunit of the Bonneville Chapter has also been active in the restoration project and participated in planting dogwoods and willow cuttings in 2005 and 2006 (see photo next page).

The range of Bonneville cutthroat trout (BCT; *Oncorhynchus clarkii utah*) populations has decreased from historic distributions due to the same threats facing many salmonid species including habitat degradation, exotic species and disease. The Logan River in Northern Utah is inhabited by one of the

largest remaining BCT populations; however, recent data suggests a potentially declining population. Spawn Creek, a tributary to the Logan River, is one of the primary spawning and rearing habitats for BCT. Spawn Creek has experienced several impacts over the years including logging, livestock grazing, exotic sport fish introductions (e.g., brown trout; *Salmo trutta*), and *Myxobolus cerebralis* (*Mc*) the parasite which causes whirling disease.

In 1999, *Mc* was detected in the Logan River and a long-term monitoring project was implemented to document and evaluate the effects on BCT in 2001. Research has identified links between the impact and prevalence of *Mc* and physical and biological characteristics associated with stream quality. Many of these favorable conditions can be associated with impacts that may be caused by livestock grazing. In addition research by the Fish Ecology Lab at Utah State University indicates that *Mc* prevalence is lower in the tributaries than in the mainstem, suggesting the tributaries may serve as a refuge from infection during BCT life stages of greater susceptibility.



Above, USU Subunit volunteers planting willow cuttings in research plots within the Spawn Creek enclosure, 2006.

Due to continued concerns about the status of the Logan River BCT population, scientists and local sportsman groups began collaborating to protect the Spawn Creek riparian corridor. These efforts were focused on the potential link between the *Mc* life cycle and habitat degradation caused by livestock grazing. Researchers hypothesized that the restoration of Spawn Creek through riparian fencing and livestock exclusion may improve fish health and viability, and reduce the prevalence and impact of *Mc*. The research group is using an asymmetrical BEFORE AFTER CONTROL IMPACT design to evaluate the restoration project. BEFORE monitoring began in 2004, and the final year of livestock grazing occurred in 2005. In 2006, fence construction was completed and AFTER monitoring was implemented during the first year of livestock exclusion. The completed fence is approximately three kilometers long and spans ridge to ridge encompassing the riparian area, excluding grazing from approximately forty hectares. The construction of the enclosure did not reduce the number of days nor the number of animals grazed in the pasture, and watering ponds were constructed on both sides of the enclosure. For additional information about this project contact the USU subunit President Eriek Hansen at Eriek.Hansen@hotmail.com or join him at the annual meeting this coming year.

The Bonneville Chapter will be hosting its 2007 annual meeting at Utah State University in Logan this winter. A continuing education course will begin on March 19th, with a plenary session, technical sessions and a banquet to follow March 20-21. The theme for this years meeting will be "Fish Management, a United Approach", and the chapter is anticipating another successful gathering. For additional information please see the new and improved Bonneville Chapter Web site (www.fisheries.org/bonneville).

Idaho Chapter Update

Jim Capurso, Chapter President and Bart Gamett, ICAFS Newsletter Editor

<http://www.idahoafs.org>

WORKSHOP: Current and Emerging Pathogens of Fishes in the Pacific Northwest

This workshop will be held in conjunction with the Chapter's Annual Meeting in Boise on February 20, 2007. Led by Dr. Ken Cain (University of Idaho) and Dr. Keith Johnson (Idaho Department of Fish & Game), the course will cover common infectious and non-infectious disease agents including parasitic, bacterial, viral and fungal pathogens. Completion of the course will provide participants with:

- Basic understanding of the pathogen/host/environment interrelationship and the role of fish husbandry and management of this process.
- An overview of common and emerging diseases of fishes in the Pacific Northwest, with emphasis on freshwater species in Idaho.

The course is cosponsored by the ICAFS Fish Culture Committee and the AFS Fish Culture Section Continuing Education Committee. The cost is \$15 and AFS Continuing Education Credit is possible. For additional information, contact Jeff Heindel at (208)939-4114 or jheindel@idfg.idaho.gov.



THREE NEW SCHOLARSHIPS AND A STUDENT SUPPORT GRANT

The Idaho Chapter is pleased to announce three new annual scholarships and a student support grant for students attending Idaho schools:

- ***Idaho High School Student Scholarship*** – This \$250 scholarship will be awarded annually to an Idaho High School Senior that is planning to attend a college or university in Idaho.
- ***Idaho Undergraduate Student Scholarship*** – This \$500 scholarship will be awarded annually to an undergraduate student enrolled at a college or university in Idaho.
- ***Idaho Graduate Student Scholarship*** – This \$500 scholarship will be awarded annually to a graduate student that is enrolled at a college or university in Idaho.
- ***Idaho Student Support Grant*** – This \$50-\$750 grant will be awarded annually to any student enrolled at any Idaho school to assist the student's pursuit of activities consistent with the mission of the AFS.



IDAHO CHAPTER UPDATES ITS BYLAWS

The Idaho Chapter American Fisheries Society has rewritten their bylaws. While adding references to a new student subunit, the Chapter Executive Committee identified the need to rewrite the Chapter bylaws. Currently, the Chapter is voting on accepting them. Upon acceptance of the new bylaws by the general membership and the approval of the Parent Society Governing Board, the Chapter will have new bylaws under which to operate. "We thought we just had to add the information regarding the new Portneuf Student Subunit, but we were amazed when we started to look carefully at the Chapter bylaws. They needed a lot of work to make them clear and consistent." said Tammy Hoem, Chapter Treasurer. "We invested a lot of quality time with the bylaws over the last couple of months."

ICAFS GETS IN TOUCH WITH ITS PAST

Idaho Chapter American Fisheries Society has contracted with the History Department of Boise State University to document Chapter history. BSU History Department Graduate Student Josh Bernard will help the Chapter document its colorful past. Mr. Bernard will attend the chapter annual meeting in Boise this February and interview chapter members. He will also contact older members that played a role in chapter history.

The Idaho Chapter was established in 1964. Since then, many special people have participated in it and many important fisheries-related activities and programs have occurred. Some activities are commonly known and others have the potential to disappear if not documented. By next spring, Mr. Bernard will submit a report of his findings from interviews and exploring chapter files.

"It is important for an organization to know its history, to further develop a sense of heritage. In that way, we foster a sense of community," said James Capurso, Idaho Chapter President. Past President Russ Kiefer added, "We know this chapter is special. We want to capture the important things that have occurred in the past before they slip away from our collective memory."



Colorado/Wyoming Chapter Update

Lori Martin, Chapter President

42nd Annual Meeting of the Colorado-Wyoming Chapter of the American Fisheries Society, February 26-March 1, 2007, Fort Collins, Colorado

*"Fishing for Common Ground: Developing a Better Understanding of the Energy Industry to
Manage, Preserve, and Protect Aquatic Resources"*

The 42nd Annual Meeting of the Colorado-Wyoming Chapter of the American Fisheries Society will be held at the Fort Collins Marriott in Fort Collins, Colorado, from Monday, February 26 through Thursday, March 1, 2007. This premiere hotel and meeting facility is located at 350 East Horsetooth Road in Fort Collins. The hotel can be reached at 1-800-548-2635 or by visiting the Marriott's website at <http://www.marriott.com/ftcco> for hotel room reservations. A block of rooms has been set aside from February 26 through March 1. Please use the following group code: CYACYAA and indicate that you will be attending the Colorado-Wyoming American Fisheries Society meeting. All rooms will have a flat rate of \$80 per night, with an unlimited number of people allowed to stay in a room.

Early registration will begin on Monday, February 26 at 5:00 pm with a welcoming social beginning at 6:00 pm. Snacks and beverages will be available. A full day plenary session focusing on the energy industry will launch the meeting on Tuesday, February 27 at 8:15 am. Contributed papers, not necessarily theme related, will follow on Wednesday, February 28. An evening social will occur on Tuesday, February 27 at 6:00 pm. The Colorado-Wyoming Chapter's Annual Business Meeting luncheon will follow the morning session of contributed papers on Wednesday, February 28. The banquet and raffle will conclude Wednesday's activities. A continuing education workshop(s) will be offered on Thursday, March 1.

Early meeting registration deadline is February 5, 2007. Please visit the CO-WY AFS Chapter's website, <http://www.fisheries.org/units/co-wy/>, for meeting details and registration form.

****First Call for Papers****

Program Committee members are recruiting speakers and posters for the 42nd Annual Meeting of the CO-WY AFS Chapter. The committee encourages members to start considering a presentation or poster. All aquatic related topics enhance the knowledge base of our membership and are welcome.

Final deadline for submittal of presentation and/or poster abstracts is February 5, 2007. Please see the website for details: <http://www.fisheries.org/units/co-wy/>

2006-2007 CO-WY AFS Chapter Officers

Lori Martin, President

Matt Kondratieff, Vice President

Kathy Foster, Secretary-Treasurer

Dan Gibson-Reinemeyer, Colorado State University AFS Student Subunit President

David Banks, University of Wyoming AFS Student Subunit President

Visit our websites to check out what's going on with aquatic resources in Colorado and Wyoming!!

Colorado-Wyoming AFS Chapter

<http://www.fisheries.org/units/co-wy/>

Colorado State University AFS Student Subunit

<http://www.warnercnr.colostate.edu/FWB/afs/>

University of Wyoming AFS Student Subunit

<http://www.fisheries.org/co-wy/university-of-wyoming-student-subunit.htm>



Cal-Neva Chapter Update

Russ Bellmer, Chapter Past-President, and Jeff McLain, President

Fisheries Across International Boundaries: Plenary Session at the Cal-Neva Chapter of AFS 40th Annual Conference in San Luis Obispo

Fisheries Across International Boundaries was the theme of the Cal-Neva Chapter of AFS (Chapter) symposium and 40th annual conference/meeting in San Luis Obispo, California in March 2006. The plenary session included five outstanding speakers: Bern Megrey, Past President AFS International Fisheries Section; Guillermo Compean, Director General Instituto Nacional de Acuacultura y Pesca; Daniel Lluch Belda, Departamento de Pesquerias; Churchill Grimes, Director NMFS Southwest Science Center; and Bob Fletcher, President California Sport-fishing Association. The question that was on everyone's mind was — Will fisheries ever be realistically managed as Pacific fisheries? Is there a need to move towards an ecosystem approach to address fisheries resource issues? Each speaker presented an excellent case for the need for this type of approach, particularly for research. This meeting was the first attempt by the Chapter to start dialogs, exchange technical information, and to propose collaborative research at the ecosystem scale.

Dr. Megrey, Past President AFS International Fisheries Section, made the case that the world is shrinking. The global fisheries science community is confronting a mounting list of substantial challenges in managing for self-sustaining populations. There continue to be threats or practices of over-exploitation. Long-established geographic and cultural boundaries are evaporating. Fisheries resource management issues do not conform to geopolitical borders. AFS began to address these issues with the 4th World Fisheries Congress in Vancouver, Canada, in 2004. This was a global conference focused on the theme — “Reconciling Fisheries with Conservation: The Challenge of Managing Aquatic Ecosystems.”

More than 1,200 delegates attended the Congress including 89 nationalities from 78 countries. The 5th World Fisheries Congress will be held in Yokohama, Japan, October, 2008 with a focus on global sustainability and conservation challenges. The continued interaction and collaboration between the Mexican and Cal-Neva Chapters will aid in the continued success of these World Fisheries Congresses.

Director Compean, of the General Instituto Nacional de Acuacultura y Pesca, focused on fishery management challenges and opportunities using examples from tuna and shrimp fisheries. For the tuna fishery, challenges included: by-catch reduction, continued improvements on dolphin interactions, management of fishing capacity, and enforcement of fleet capacity resolution. The significant challenges facing the shrimp fishery were identified as: reduction in fishing pressure, reduction in incidental catch, minimization of benthos impacts, general utilization of new shrimp net prototypes, and increased observer programs. Many of these challenges are found in the US and around the world.

The third speaker, Dr. Lluch-Belda, Departamento de Pesquerias, talked about fisheries research in Mexico and its evolution and historical catch data. He presented four most significant stages of evolution of fisheries research as: 1) description, exploration, qualitative, evaluation, reproductive seasons; 2) quantitative, evaluation, experimental, fisheries indices; 3) development of related sciences, assessment of recreational and commercial fisheries conflicts, environmental; and 4) dynamic biomass models and stock assessment. Through this

evolution, fisheries research in Mexico is moving towards an increasingly ecosystem scale approach.

Dr. Grimes, Director of the NMFS Southwest Science Center, discussed science and research needs for conventional and ecosystem-based fishery management. He focused on four areas: 1) a brief history of federal Mexico-U.S. marine fishery research cooperation, and the growing impetus for ecosystem-based fishery management; 2) description of the science and research needed for sound conventional management of straddling stocks; 3) the need to expand the list of necessary science and research to include that needed to support an ecosystem based approach to fishery management; 4) description of current cooperative federal Mexico-U.S. marine fishery research and data collection. There is an emergence of ecosystem-based fishery management, which would mean a change in focus from populations to communities and ecosystems. To undertake this approach, fisheries managers will need research in fishery dependent sampling, resource surveys, stock structure, species life history/demographics, species interactions, habitat utilization and conservation, ecosystems modeling and assessment, and more. This approach will require the incorporation of a much broader array of societal goals and uses for ecosystem products and services.

The last speaker, Dr. Fletcher, President of the California Sport-fishing Association, described the need for sound science in support of the management of the tuna fisheries. He provided examples in which the California Sport-fishing Association is undertaking collaborative research projects with governmental scientists to better understand tuna stocks. Fishing crews can educate

scientists on where the fish can be found for tagging and scientists can educate the crews on how to conduct sound surveys. Dr. Fletcher stressed the importance of cooperative research between the governmental scientists and fishermen. He also pointed out that the costs to do business are increasing, including those associated with regulatory compliance.

We began with the questions; will fisheries ever be realistically managed as Pacific fisheries? Is there a need to move towards an ecosystem approach to address fisheries resource issues? The panel members answered the question, will fisheries ever be realistically managed as Pacific fisheries, with a strong “yes” and added that it will take time. The goal of fishery resource management at the ecosystem level will also require work and guidance from AFS membership and leadership. The panel said AFS could help by improving cooperation among scientists and fisheries resource managers, educating the public on the importance of sound fisheries management, and helping to improve monitoring, regulations, and enforcement to better manage the fisheries. Collaborative, cooperative research that included all stakeholders also would build trust. AFS is taking a lead to address the education and coordination needs at the national and international levels. The Chapter continues to work at the regional level to address the needs as well as assist in the prioritization, development, and funding for research.

Acknowledgments: Ms. Lourdes Rugge, Chapter International Committee Chair, did an outstanding job of Spanish-English and English-Spanish translations and translating the abstracts into Spanish. Ms. Laura Jordan, UCLA Graduate Student, did an excellent job of note taking for the plenary session.



At left, Guillermo Compean, Director General Instituto Nacional de Acuacultura y Pesca

Montana Chapter Update

Clint Sestrich, Newsletter Editor

Good News Following 2006 Chapter Meeting

The Montana Chapter successfully hosted the Western Division AFS Annual Meeting in 2006 with 440 registrants enjoying Montana hospitality at its best! Thanks to all who made it a success! With the funds raised by hosting the meeting, additional money is available in the Wally McClure Scholarship Fund. There will now be a scholarship offered for graduate students and undergraduate students. Visit the Chapter online to find out more information on scholarship opportunities.

Montana Chapter Awards were presented to the following:

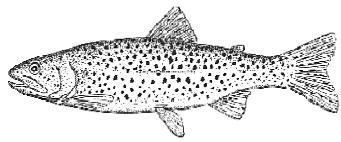
- **Educator:** Ms. Robin Arnold, Bozeman, MT
- **Groups, Organizations or other Individuals:** Cherry Creek Westslope Cutthroat Trout Restoration
- Scott Barndt, Darrin Waschke, Clint Sestrich, Bruce Roberts, Travis Lohrenz, Pat Clancey,
- Brent Mabbot, and Carter Kruse
- **Natural Resource Professional:** Mark Petroni, Ennis Ranger District
- **Outstanding Fishery Professional:** Pat Byorth, Bozeman, MT
- **Best Student Paper:** Brian Bellgraph, MSU
- **Wally McClure Scholarship:** Windy Davis, MSU
- **AFS Special Award for WEB Site:** Eileen Ryce and Lee Nelson

Officers Elected:

- **President-elect:** David Schmetterling
- **Committee Chair Changes:**
 - **Awards:** Travis Horton
 - **Resource Management Concerns:** Leslie Bahn
 - **Legislation:** Leanne Roulson

Other news from Montana:

- The Chapter developed a position paper on intelligent design which is now being reviewed by the Parent Society.
- The Chapter hosted a summer workshop on the use of Antimycin for brook trout removal.
- A new student subunit at the University of Montana has been formed.



Coastal Cutthroat Trout Student Research Scholarships Awarded

Doug Young

2005 Coastal Cutthroat Trout Symposium Organizer

Incoming President-elect Oregon Chapter

The 2005 Coastal Cutthroat Trout Symposium, Oregon Chapter and Western Division American Fisheries Society awarded two Coastal Cutthroat Trout Research Scholarships in 2006. Many excellent student applications were reviewed and ranked. Applicants and their research project were required to meet the following criteria: masters or doctoral student research project directed at coastal cutthroat trout; at least 50% of the grant to be spent directly on field equipment, supplies, materials, salaries; research findings to be presented at next Coastal Cutthroat Trout Symposium (tentatively 2010).

The Coastal Cutthroat Trout Research Scholarship award winners were:

- ❖ Allan Costello, University of British Columbia, \$5,000 towards Ph.D thesis research project "Resolving the Ancestral Polymorphism vs. hybridization Debate: Congeneric Phylogeography of Coastal Cutthroat Trout and Rainbow Trout."
- ❖ Sarah Haque, The Evergreen State College, \$3,000 towards Master's Degree research project "Movement Patterns and Nearshore Habitat Use of Coastal Cutthroat Trout in Relation to Chum Salmon Migrations and Environmental Conditions: Acoustic Tracking in South Puget Sound 2005-2007".

Funds for the scholarships were generated from the 2005 Coastal Cutthroat Trout Symposium (sponsored by Oregon, Alaska, Pacific International, and Humboldt Chapters), as well as the 1995 Sea-run Cutthroat Trout Symposium (sponsored by The Lower Umpqua Flycasters and Oregon Chapter).



The WESTERN NATIVE TROUT INITIATIVE - Work is Underway

Twelve western state fisheries agencies and four federal agencies came together in 2005 and began to collectively address protecting and restoring native western trout. Working in conjunction with the Western Association of Fish and Wildlife Agencies, this group formed a partnership called the Western Native Trout Initiative (WNTI). This new initiative is one of several pilot joint ventures under the National Fish Habitat Initiative. In July, a WNTI Coordinator was hired and work is underway.

The WNTI is a non-regulatory, science-based, cooperative conservation effort that will speed the implementation of actions to benefit western native trout. The immediate goals of the WNTI are to:

- ✓ Integrate individual species management strategies and the latest science into a West-wide strategic plan;
- ✓ Develop and improve partnerships using this collaborative conservation strategy; and
- ✓ Develop cost share programs for implementation of WNTI priorities.

For more information about this Initiative, visit <http://www.fishhabitat.org> or contact Robin Knox, WNTI.rknox@wispertel.net, (303)236-4402.

About the Tributary

The Tributary is the semi-annual newsletter of the Western Division of the American Fisheries Society.

Editor

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About the American Fisheries Society

The mission of the American Fisheries Society 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.

<http://www.fisheries.org>

About the Western Division AFS

Established as the first Division of the [American Fisheries Society](#) in 1948, the Western Division now includes [Chapters](#) from thirteen western states, British Columbia, Yukon Territories, and U.S. Islands and Trust Territories of the Western Pacific.

Our members represent a tremendous array of fisheries workers involved in all aspects of the fisheries profession. The collective diversity and expertise of Western Division members is the basis of an intimate and unparalleled familiarity with fisheries resources and issues within our geographic region.

Division objectives are to provide a forum for exchanging technical and policy information, promote understanding by regional, Federal, and state policy-makers of the nature and extent of fishery matters of concern to the membership, facilitate timely exchange of information to chapters and the general membership, and provide a vehicle for the active participation of individual members in Society business and professional activities.

<http://www.wdaf.org>

AFS Upcoming Events

Arizona/New Mexico Chapter Meeting

Feb. 6-8 in Albuquerque, NM

Montana Chapter Meeting

Feb. 14-16 in Missoula, MT

Idaho Chapter Meeting

Feb. 21-23 in Boise, ID

Oregon Chapter Meeting

Feb. 28 – Mar. 2 in Eugene, OR

AFS Governing Board Meeting

Mar. 7-10 in Atlanta, GA

Bonneville Chapter Meeting

Mar. 19-21 in Logan, UT

Mexico Chapter Meeting

May 2-4 in La Paz, Baja California Sur

California-Nevada Chapter Meeting

Sept. 2-6 in San Francisco, CA

