

FISH SOUP

AZ-NM CHAPTER AMERICAN FISHERIES SOCIETY

Established 1967, Volume 37 Number 3

Winter 2006

Incoming President's Message

Pam Sponholtz, President

Welcome to the 39th year of the Arizona New Mexico chapter's existence! It is an honor to be elected as President to a chapter with such a rich history and exciting future. I'd like to extend a thank you to our outgoing President Paul Cassidy as well as Scott Bryan who served as Past President. Finally, a big congratulations to Amy Unthank, our new President Elect who has already taken on helping with our annual meeting as well as our bid for the 2009 Western Division (more on this below). This year the EXCOMM and I hope to accomplish several things to revitalize our chapter and provide better motivation for becoming an AZ/NM chapter member. Remember our goals for this chapter:

1. Promote the conservation, development, and wise-utilization of Arizona and New Mexico's fisheries resources;
2. Promote the technological advancement of all fisheries related fields (i.e., conservation, culture, management, research, academia, and administrative);
3. Facilitate the professional exchange of fisheries information by members of the Society residing within Arizona and New Mexico;
4. Assist in the implementation and attainment of AFS parent society goals and objectives.

Plans for 2006/2007 are underway:

Annual Meeting:

- As most of you know this year the Joint Annual Meeting is being held from February 6-8 in Albuquerque, NM. While this represents an interesting departure from our normal venues, it also presents a significant travel impediment for our state biologists from Arizona. In cooperation with Carol Chambers, the President of the Arizona Wildlife Society, we have drafted a letter to Duane Shroufe, Director of the Arizona Game and Fish Department to encourage as much participation as feasible as well as offer our assistance in helping Arizona state biologists to attend the meeting. The research, conservation, and management efforts in which AGFD biologists are involved and present to colleagues and peers provides a great forum for discussion and learning and we hope that this letter helps facilitate their continued involvement and attendance at the upcoming meeting.
- Amy Unthank is working with Dave Propst, New Mexico Department of Game and Fish and Jim Brooks, U.S Fish and Wildlife Service to put together a **continuing education class** for the upcoming annual meeting. This class will be a **Pesticide Use** class and include safety, label use, toxicology, environmental fate and impact, and application/neutralization methodology. Look for this class when you register for the Annual Meeting!
- After you attend the Continuing Education class, please plan on attending our Chapter Business meeting that will commence in the evening prior to the welcoming Social. To get you motivated to attend, I'll have adult beverages on hand to help facilitate discussion and ideas for the upcoming year.

- **Officer Nominations:** We will now begin accepting nominations for the 2007-2008 Chapter President and Secretary/Treasurer, who will be elected at the upcoming business meeting at the Joint Annual Meeting in February. The person elected President will take office in August 2007 and serve a three-year term, performing the duties of President-Elect in 2007-2008, President in 2008-2009, and Past-President in 2009-2010. Traditionally, since we alternate between a President from New Mexico, followed by a President from Arizona, this year's nomination for President should be from Arizona. Please submit your nominations for Chapter President-Elect to Pam Sponholtz by January 15, 2007. We will provide the opportunity for mail-in ballots in early January 2007, and the official election will occur at the 2007 business meeting.

Western Division

- Next time you see Scott Bonar, make sure and congratulate him on his recent appointment as Western Division Vice President. This means that in 2008 we'll have an AZ/NM Western Division President which is a huge benefit to our chapter. The better connection we have with the Western Division, the stronger we are as a Chapter. Please feel free to contact him on any issues that you feel should be brought to a Western Division level. Congratulations Scott!!!
- Because our continued involvement in Western Division is so important, I attended the recent EXCOMM meeting in Portland OR. The highlights are:
 - * After many years of development, Western Division has finally ironed out a process for Chapters to contribute to their investment fund. Over the past four years, it has returned on average of 7%/year. This is an opportunity for our Chapter to invest some funds in a large account that is managed by a known investor. While we can reap the benefits, there is also risk.
 - * Earlier this fall our chapter and the Idaho chapter were asked to put in a bid for the 2009 meeting. Since 2009 is New Mexico's "turn" for our Chapter meeting, our EXCOMM decided to propose Albuquerque as the meeting location. Amy Unthank, in cooperation with the Albuquerque Visitors and Convention Bureau, put together a nice proposal that included venue choice, transportation options, cost, area attractions and even a core group of people who could begin the planning for the meeting. I presented these options to the Western Division EXCOMM and hopefully they will decide in our favor in a few weeks. I'll keep you posted!
 - * The next Western Division meeting will be held in conjunction with the National Meeting from September 2-6, 2007 in San Francisco, CA. The meeting theme is "Thinking Downstream and Downcurrent: Addressing Uncertainty and Unintended Consequences in Fish and Fisheries." The theme is meant to promote the holistic, cross-discipline approach required to address the complex questions that concern fisheries professionals today.

Membership

- The membership of our Chapter makes us who we are. However, keep in mind that by not renewing your American Fisheries Society dues that you are missing a large part of what it means to be a chapter member. By only paying Chapter dues, you cannot vote on Chapter business or hold office. Please make sure you are current in your AFS Parent Society dues so that you can fully participate as a voting member.
- After many years of excellent work as our membership chair, Heidi Blasius has passed the torch to Jeremy Voeltz. If your address or email changes, please send him an update at Jeremy.voeltz@fws.gov or at 928-338-4288. Jeremy is our point of contact for all Chapter related business so if you aren't receiving email updates and have paid your dues, please check with him on your contact information. Thanks again Heidi for such a great job!

- We will be welcoming a new subchapter under the AZ/NM chapter. Please join me in welcoming New Mexico State University as a new student Subunit. The New Mexico State Subunit is currently working on revisions to their bylaws to reflect this change, which will be distributed to the members to review and vote on prior to submission to the AFS governing board.

Committee Chairs and Appointed Positions

- What can you do to become more involved in your chapter? Volunteer to be a Committee Chair!!! Revitalizing our standing Committee Chairs is one of my highest priorities so if you are currently holding a position on a Committee, expect to be getting a phone call from me in the next few weeks to discuss what we can do together to become more active and involved.
- Currently we have immediate openings for two Committees, Continuing Education and Environmental Review. This committee provides training that will improve and expand the knowledge and skills of Chapter biologists so that they can become more effective stewards of fishery resources and fish habitats. Specialized continuing education provides fishery professionals with opportunities to improve their professional skills and to become informed of significant new scientific findings or techniques. This committee is responsible for ensuring that training needs are met by conducting surveys of Chapter members to determine what types of professional training are desired. It is also the responsibility of this committee to assist Chapter members with Professional Certification.
- Environmental Review is another opening that many Western Division Chapters use extensively and very effectively. Ever wish you could comment on a EA or controversial project but can't because of your agency role or mandate? Well here is your opportunity to provide input on important projects and have a say via the AZ/NM chapter. Please contact me if you have any interest in fulfilling either of these roles.
- Our other standing committees include, Program Committee (Chaired by Tom McMahon, Chuck Benedict), Membership Committee (Recently relinquished by Heidi Blasius to Jeremy Voeltz), Nominations/Awards (Chaired by Paul Cassidy), Student Affairs (Heidi Blasius), Fundraising/Raffle (Jim Warnecke), Public Education (not filled).
- Check out our Website (www.fisheries.org/aznm) in the next few weeks as it will likely have a new look. Scott Rogers has officially taken over the website and can be contacted at 928-226-7677 or at srogersagf@qwest.net for specific updates or submissions.
- Anne Kretschmann and Marianne Meding are still doing a great job on our newsletter, so please keep up the submissions and keep our Chapter updated and communicating.

Well, I've probably inundated you with enough information. Please contact me for any questions or comments. Best wishes and I hope to see many of you in February in Albuquerque!

Pam



Isleta Lakes Opens with Rave Reviews

Isleta Lakes and Recreation Area officially opened 4th of July weekend to large crowds and happy anglers! After nearly eight months of work, Aquatic Consultants, Inc. (ACI) concluded its portion of a complete renovation of the Lakes and Recreation Area, just south of Albuquerque on the Isleta Pueblo. Anglers from all over New Mexico, and the Nation, are quickly making Isleta Lakes one of the most popular recreation destinations in the state.



The renovation of the recreation area included a new convenience store, RV park, family fun center, clubhouse, hotel, and of course, renovation of the fishing lakes. Where there were originally three moderately sized, non-descript lakes, now sit two beautiful large fishing lakes. The lakes were deepened to provide cool water habitat for trout and shorelines were reshaped to create angler-accessible coves and points. Artificial habitat was added to attract and concentrate fish for improved angler success and satisfaction. Shorelines were protected and aesthetics were improved using rip-rap, aquatic vegetation, and vertical rock walls. New bridges were placed on the north lake, which provide easy and safe access to angling opportunities from the large island. Structures, including a corporate pavilion, restrooms, fishing shelters, and a fish



cleaning station were constructed to provide modern conveniences to the angling public. Also, a state-of-the-art fish holding facility was constructed to ensure that fish are always available to be stocked into the lakes.

ACI biologists are responsible for the management of the lakes' aquatic vegetation and fish populations. This summer, over 70,000 pounds of channel catfish were stocked into the lakes. In that time, nearly 8,000 anglers have removed an estimated 20,500 catfish ranging from 2.5 – 7.0 pounds. Angler surveys indicated that, on a scale of 1-5, angling satisfaction over the summer was well over 4. In October, we began stocking large rainbow trout and expect that the fishing will only improve this winter.

If you haven't had the chance yet, grab your gear – the fishing is HOT in Albuquerque!

~Scott Bryan, Aquatic Consultants, Inc.



Town Lake Survey Briefing April 2006

Arizona Game and Fish biologists conducted electrofishing and gill net surveys at Tempe Town Lake during April 2006.



Six stations on the 235 surface acre lake were electrofished one evening and twelve 150 foot experimental gill nets were set and ran in randomly selected sites both mid-water and out from the lake's edge during a two day period. Over 14 species of fish were collected, threadfin shad being the most numerous

(thousands caught). The next most common fish species captured were Israeli carp, most in the one to two pound range. These fish are stocked annually by the city of Tempe as 3 inch fingerlings to control



insects that breed in the lake. Further sampling of hundreds of yellow bass, averaging 4 inches, confirmed successful reproduction last year. Channel catfish ranging from 12 to 26 inches were also abundant. Several flathead catfish caught surpassed 10 pounds. Chubby largemouth bass sampled indicated a healthy fishery that anglers are sure to take advantage of this spring and summer. Nearly 100 rainbow trout were collected, left overs from the highly successful winter stocking program at Town Lake that end in March 2006. Sunfish species represented by bluegill and redears were also collected in the hundreds. Overall the fisheries resources at the lake appear healthy and bountiful ready for the angling public.



~ Jim Warnecke, AGFD Region VI Fish Program Manager

Mechanical Control of Nuisance Populations of Northern Pike in Small Arizona Lakes: Preliminary results

Northern pike have developed nuisance populations in some Southwestern lakes. Use of piscicides to control these populations can be controversial in certain areas; therefore, other effective removal techniques are needed. Parker Canyon Lake, Rainbow Lake, and Fools Hollow Lake are small Arizona reservoirs. Mechanical removal of nonnative fishes is more effective in smaller systems. The Ukraine has the opposite problem because Northern pike are popular fisheries targets in small and large water bodies. Through effective fisheries, northern pike populations in most Ukraine reservoirs have been decimated. We are using information from the collapse of the Ukrainian northern pike fisheries to develop northern pike removal methods for Arizona lakes. This project will evaluate several mechanical



techniques for removing introduced populations of northern pike in Parker Canyon Lake, Rainbow Lake and Fools Hollow Lake and to test if northern pike can be effectively suppressed in a smaller system. Using the experience of AGFD, USFWS and Ukrainian scientists, the four most effective methods were chosen: Fyke netting, gill netting, electrofishing and angling.



No pike were caught during 240 hours of gill netting on Parker Canyon Lake, possibly because of several years of removal effort by AFGD biologists or poor water quality conditions on this lake. During our 2005-2006 sampling period (about 1000 hours of gill netting, 500 hours fyke netting and 30 hours of electrofishing) we caught 278 northern pike from Rainbow Lake. For further removal gear efficiency and population abundance studies, 186 pike were marked and released to the lake.

~Yuliya Kuzmenko, Scott Bonar, Tymofiy Spesivy. University of Arizona

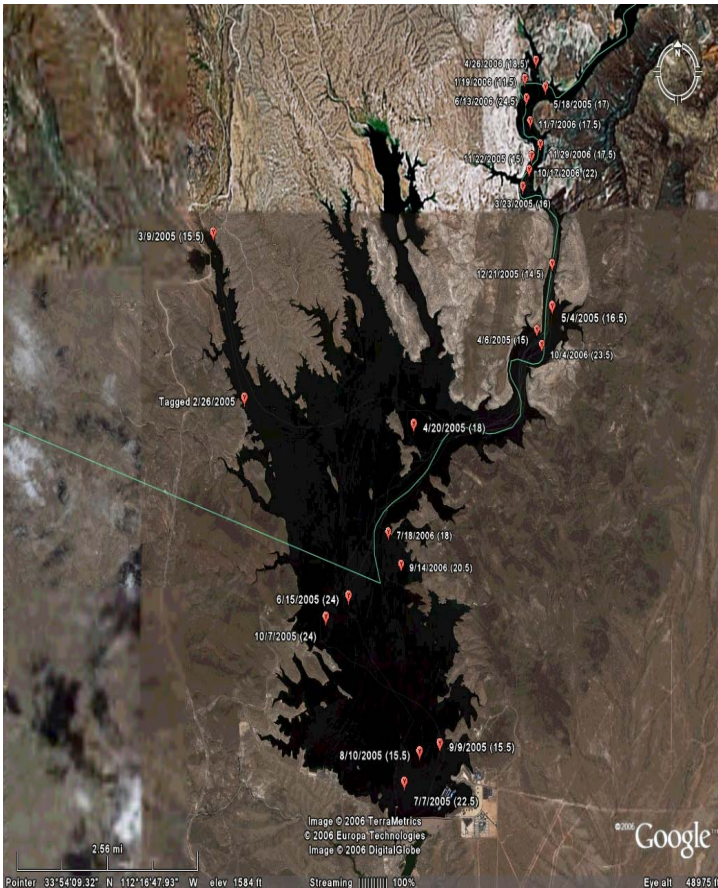


The Tributary is the newsletter of the Western Division of the American Fisheries Society. The **August 2006** edition is now available online. The Pima County, AZ Board was recognized with a riparian challenge award for the Cienega Watershed Project in this edition!

<http://www.wdafs.org/>

Lake Pleasant Striped Bass Movement

Arizona Game and Fish research biologists are tracking the movements of ten Striped Bass in Lake Pleasant using sonic telemetry equipment. The above map (zoom in for better view) shows the dates and locations of one of the striped bass that they have been following for over a year and a half.



Status of the Western Native Fishes Database

Garcia and Associates (GANDA) have begun editing the distribution data for the continental U.S. on the Western Native Fish Species Distribution Database. We anticipate completing the edits and revisions and producing updated maps in time for the mid-year WDAFS ExComm meeting in November. Some key activities that GANDA has participated in since May 2006 include:

- Development of a revision tracking program
- Review of edits by AZ, AK, CO, WY, UT, and HI.

- Compilation of reviewer responses and outstanding committee member reviews
- One conference call with the Western Native Fishes Committee
- Attendance and presentation at 2006 WDAFS annual meeting in Bozeman
- Finalization of Mexican states HUC-equivalents
- Identification of appropriate Canadian HUC-equivalents and fisheries data for BC.

Database Population

We are editing and revising the existing database and continuing to add references to the bibliographic database. We have the fisheries data for BC on hand and will begin entering it into the database when we have completed the edits on the US data.

Database Content Evaluation

We set an initial deadline of March 15, 2006 for the WNF committee members to complete their reviews and submit comments to GANDA. We received reviews for AZ, AK, CO, WY, UT and HI. We have commitments from reviewers for ID and WA. We still need to identify reviewers for NM, NV, MT, and WA. The WNF committee decided to expand the scope of the project to include species native to the WDAFS region, but occurring outside of their native range. To accomplish this we will need to define a native range for each species based on available data and overlay these areas on the distribution maps for each species. Occurrences outside of the native range will be colored differently to accentuate them.

HUCs and GIS

Our Mexican HUC-equivalent digitizing project is completed. Clint Kellar consulted with Ryan Smith of the Nature Conservancy and has reconciled the metadata issue. Jeanne Knox and Clint Kellar have worked with the British Columbia Resources Information Branch to determine which of their watershed layers will be the most similar to the USGS 4th code HUC designation. Jeanne has obtained data from the BC Fisheries has a Fisheries Information Summary System (FISS) on fish distribution information by watershed. Once we have the appropriate level of watershed codes input into the database to create a base layer, we can begin importing the fish data and generating preliminary maps. We have been warned that much of the area has not been systematically surveyed.

Species Research and Data Entry

Once we have completed the edits on the US data, we will hand transfer distribution data from maps in the "Fishes of Mexico" book to the database to generate HUC maps using the GIS. The mapper for Dr. Miller's book indicated that none of the maps were generated electronically. Therefore, we will not be able to create shapefiles from her data without this.

Public Outreach

Ms. Roulson presented a paper on the status of the WNF database at the WDAFS meeting in May 2006. I have registered for the Fisheries Database Summit in Salt Lake City next month. I will take the laptop and be able to provide demonstrations of the database for attendees. I will also give a presentation at the November WDAFS ExComm meeting.

Future Activities

GANDA would like to reinstate the monthly conference calls so that we can provide informal project updates and answer any questions from WNF committee members. With the new additions to the project scope on native distributions, it would be beneficial to have ongoing WNF committee input.

Contact: Leanne Roulson; Garcia and Associates; 406-582-0661 or lhroulson@garciaandassociates.com

An Analysis of Recovery Plan Implementation for Threatened and Endangered Warm Water Fishes of the Gila River Basin.

Report #3. Desert Fishes Team. December 2006.
Lack of implementation of existing recovery plans may doom native fish in southwest.

A report released in December by the Desert Fishes Team concludes that Federal and State agencies charged with protecting and recovering endangered and threatened species are failing to implement existing recovery plans for eight endangered and threatened fish of the Gila River basin in Arizona and New Mexico. Recovery plans are basic provisions of the Endangered Species Act setting out steps for protection and species enhancement. According to the report, all eight species are declining and without effective and timely recovery actions face the likelihood of extinction. The analysis found that approved recovery plans for these species, which

have been in place for between 9 and 28 years, provide sound conservation programs but few of steps have been implemented. Complete or near-complete implementation has not been achieved for any of the species, and a moderate level of implementation has occurred for only one species (Gila topminnow). Progress for recovery of some of the species, such as desert pupfish, "has been virtually non-existent." In particular, the report concludes that nonnative fish and other aquatics constitute the principal barrier to recovery of warm water fishes in the Gila River basin and calls for greater control efforts against nonnatives, including sport fish. Desert Fishes Team is an independent group of biologists from agencies, academia, and non-governmental organizations interested in conservation of native fish in the desert southwest. This, and earlier reports, by the Team can be found at <http://www.nativefishlab.net> or DF Team, P.O. Box 16815, Phx, AZ 85011 or to stefferud@cox.net.

Volunteers Needed!

Williams Creek National Fish Hatchery is looking for **volunteers**. Animal caretakers are needed to assist the hatchery staff in the daily care and culture of native and non-native trout. Williams Creek National Fish Hatchery produces **Apache, brook, brown, and rainbow trout** and distributes these fish in Arizona and New Mexico. The hatchery is responsible for spawning and production of the native Apache trout, federally listed as threatened, in part providing for the recovery of this species through Federal actions. Volunteers will also assist with maintenance of grounds, equipment, buildings, and facilities, and giving hatchery tours. Housing and a daily stipend of \$16 are available; 28 hours minimum per week is required. Some weekend and holidays may be worked with days off during the week. Williams Creek National Fish Hatchery is located in Eastern Arizona, between the towns of Pinetop and Whiteriver. Elevation is 7,000 feet, with seasonal fluctuations in temperature and weather.

Contact Sherry White at 928-334-2346 or sherry.white@fws.gov for more information or to request an application.

Volunteers needed for a University of Arizona northern crayfish removal study.

Volunteers will assist with backpack electroshocking and use of quadrat samplers to capture northern crayfish, and marking of crayfish.

Volunteers needed beginning in November, and continuing for a year.

Contact: Larissa Bright at 512-293-4882 or lbright@email.arizona.edu.



CHAPTER OPPORTUNITIES!

Hutton Junior Fisheries

Biology Program

Applications for 2007 are now available online.

Application Deadline: February 15, 2007.

The Hutton Junior Fisheries Biology Program is a summer mentoring program for high school students sponsored by AFS. The principal goal of the Hutton Program is to stimulate interest in careers in fisheries science and management among groups underrepresented in the fisheries professions, including minorities and women. Application to the program is open to all sophomore, junior, and senior high school students regardless of race, creed, or gender. Because the principal goal of the program is to increase diversity within the fisheries professions, preference will be given to qualified women and minority applicants. Students selected for the program are matched with a professional mentor in their area for a summer-long, hands-on experience in a marine or freshwater setting. A scholarship of \$3,000 is awarded to each student accepted into the program. Fifty-six students were chosen to participate in the 2006 Hutton Program. We hope to provide this enriching experience to even more students in 2007! For more information contact the Hutton Program Coordinator, Danielle Hawkins (301) 897-8616 ext. 213 or hutton@fisheries.org.

Parent Society Accepting Applications for Committee Appointments

AFS depends on volunteers for many tasks related to the science and the profession. Committees at all levels of AFS provide many ideas that shape the future of the Society, and they are excellent avenues for members to begin or continue volunteer service to AFS. Applications are currently being accepted for: Associate Editor on a Journal; Award of Excellence; Ballot Tally; Board of Professional Certification; Continuing Education; Ethics and Professional Conduct; External Affairs; Hutton Junior Fisheries Biology; Investment; Meetings Oversight; Membership; Membership Concerns; Meritorious Service; Program; Publications Awards; Publications Overview; Resolutions; Resource Policy; Task Force on Fishery Chemicals; Time and Place; and Web Advisory. For more information see: www.fisheries.org.

CHAPTER NEWS!!!

40th Joint Annual Conference AZ and NM Chapters of TWS and AZ/ NM AFS Chapter

*Restoring Structure and Function of
Habitat in the Southwestern U.S.*

February 6–8, 2007

**Hotel Albuquerque at Old Town
800 Rio Grande Blvd., NW
Albuquerque, NM**

Registration Now Available at:

<http://leopold.nmsu.edu/nmcws/>

Early Registration by: **December 29, 2006**

Pre-Registration by: **January 19, 2007**

Program Chair at cp_david@msn.com

CONTINUING EDUCATION OPPORTUNITIES

AQUATIC PESTICIDE APPLICATOR TRAINING

This course will focus on safety, label requirements, procedures, and case histories for piscicide applications. It is anticipated that Continuing Education Credits will be available to meet the annual CEU requirement for Arizona and New Mexico aquatic certified applicators. Instructors will include current applicators from New Mexico Department of Agriculture, U.S. Fish and Wildlife Service, New Mexico Department of Game and Fish, and Arizona Game and Fish Department. Class participants are encouraged to bring case history information on recent piscicide applications. The class will be held **February 6th** at the Albuquerque New Mexico Department of Game and Fish Office (3841 Midway Place NE, ABQ 87109) from **8:00 AM through 3:00 PM**. Contact Yvette Paroz at (505) 476-8104 or yvette.paroz@state.nm.us if you have questions about the course content. Cost for American Fisheries Society AZ/NM chapter members is \$15 and \$20 for non-members. To register please send a check or PO made out to the AZ/NM Chapter of the American Fisheries Society to: Matt Rinker; AZ/NM Chapter of AFS; Arizona Game and Fish Department; 3500 S. Lake Mary Road; Flagstaff, AZ 86001; 928-774-5045; mrinker@azgfd.gov

ADVANCED GIS COURSE

Michael Porter, US Bureau of Reclamation and Joanna Whittier, Kansas, State University will present a course on advanced GIS techniques using ArcGIS 9.x at the US Forest Service Regional Office in Albuquerque (333 Broadway SE, Albuquerque, NM) on Feb 6, 2007 from 8:30 - 3:00. Topics will include geoprocessing shapefiles, interpolation and kriging to create raster surfaces based on point data, using Mapbook for production of multiple maps, and a demonstration of ArcHydro.

Class participants must have a working understanding of ArcGIS 8.x or 9.x, including creating shapefiles, formatting a map, ArcCatalog, and importing XY data. Contact Michael Porter at mporter@uc.usbr.gov if you have any questions about the course content. Enrollment is limited to 16 participants; with a minimum of 8 required. Cost for American Fisheries Society AZ/NM chapter members is \$25 and \$50 for non-members. To register please send a check or PO made out to the AZ/NM Chapter of the American Fisheries Society to: Matt Rinker; AZ/NM Chapter of AFS; Arizona Game and Fish Department; 3500 S. Lake Mary Road; Flagstaff, AZ 86001; 928-774-5045; mrinker@azgfd.gov

Call for Award Nominations

It's that time of year again where we have the opportunity to award our peers and those outside our profession for their outstanding work related to fisheries and the aquatic resources. We give the following two awards at the Joint Annual Meeting in February, please submit your nominations for these two awards to Pam Sponholtz (pam_sponholtz@fws.gov) by **January 15, 2007**.

Professional of the Year Award

The Professional of the Year Award is awarded to an individual employed in a capacity related to fisheries and aquatic resources. Nominations for individuals should include a brief biography along with information pertaining to service, impact on the resource and other professionals, and significant accomplishments.

1. Only members in good standing can make nominations.
2. The recipient must be a member in good standing.
3. The award is based on fisheries-related work accomplished in Arizona or New Mexico and can span more than one year.
4. The nominee may not be on the Nominations/Awards Committee.
5. Eligible accomplishments by the nominee can be from any of the following categories:

Administration

- a. Development of innovative management programs, research activities, or facilities that significantly affect fisheries management and conservation on a regional or statewide level
- b. Leadership in implementation of regulations or management programs that address regional or statewide fisheries issues
- c. Development of new sources of funding for fisheries programs
- d. Leadership in the development of public outreach or recognition/award programs
- e. Significant and effective promotion of fisheries management and conservation activities on a regional or statewide level

Culture

- a. Development of techniques that produce fish more safely, more efficiently, or more economically
- b. Development of methods that produce species not formerly cultured
- c. Development of techniques that produce more fish
- d. Participation in the development of equipment that benefited fish culture
- e. Promotion of fish culture
- f. Participation in the production of a record number of fish (may be station or species specific)

Education

- a. Development of an innovative approach to fisheries education as illustrated through development of a new or revised course or curriculum
- b. Publication of a journal article, extension publication, book, or book chapter that contributed significantly to fisheries education
- c. Contribution of notable service in public education programs
- d. Development of educational media (software, videotape, slide tape, etc.) that contributed significantly to fisheries education
- e. Outstanding contribution to the profession through service as an officer or other leader of an educational organization (e.g., Education Section of the AFS)

Management

- a. Development of management plans strategies

or implementation of management practices (reservoir or pond management plans, pre-impoundment work, habitat work, development of urban fisheries). This would include private water work.

- b. Education of the public in areas of fishing or fisheries management (conducting fishing clinics, educational programs, contact with various media, development of brochures, newsletters, bulletin boards, fliers, popular articles, etc.)
- c. Coordination with different agencies (cities, counties, or federal government) or reservoir controlling authorities to develop or implement management strategies
- d. Participation in professional scientific organizations in the fisheries field to include offices held, committees served on, or other activities accomplished for the organization.

Research

- a. Research contribution should add to the understanding of a biological problem or to solving a resource problem.
- b. Research contribution can be basic, applied, or a combination.
- c. Research contribution should have been disseminated, in order of importance, in a peer-reviewed journal, non-peer-reviewed publication, or an oral presentation.
- d. Research in professional and public organizations in the fisheries field, which comment, advise, or review research activities.
- e. In order of importance, the nominee's role in a research project should be directing the project or program, establishing the project or program, analyzing data, or conceiving the project or program.

Technical Support

- a. Development of new or improved design and/or construction of equipment used in field sampling, culture operations, lab analysis, etc.
- b. Participation in outstanding or unique management, research, or culture activities, which contributed significantly to the fisheries profession.

- c. Participation in programs to educate other fisheries workers or the public (fishing clinics, seminars, articles, brochures, etc)
- d. Accomplishments resulting in new or improved techniques or greater efficiency (data compilation and analysis, improved lab techniques, more productive fish culture techniques, improved fish sampling techniques, etc.).

Conservationist of the Year Award

The Conservationist of the Year Award is for significant involvement and accomplishments by an individual or group not employed in the fisheries or aquatic resources profession. Nominations should include a brief biography and discussion of the significant involvement and contributions towards conservation of fisheries and/or aquatic resources. The only criteria for this award is that the award is based on fisheries and/or aquatic resource-related work accomplished in Arizona or New Mexico and can span more than one year.

Meetings!

137th AFS Annual Parent Meeting

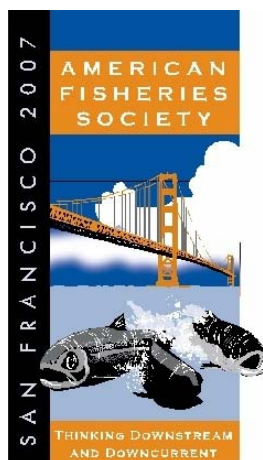
Thinking Downstream and Downcurrent: Addressing Uncertainty and Unintended Consequences in Fish and Fisheries

September 2-6, 2007

San Francisco, CA

Marriott Hotel, downtown San Francisco

The theme is meant to promote the holistic, cross-discipline approach required to address the complex questions that concern fisheries professionals today. The events, symposia, and contributed papers in San Francisco will provide a stimulating environment for such thinking. At the interface between the Sacramento-San Joaquin River drainage and the



Pacific Ocean, San Francisco provides an outstanding venue to think about managing whole ecosystems, advance your professional networking, and to keep current on emerging ideas in fisheries science and management. San Francisco also provides a world class location for a personal or family vacation with many cultural locations and activities only minutes away and a wide array of outdoor experiences locally and within a few hours drive. The meeting theme reflects President Jennifer Nielsen's Program of Work for her year in office, emphasizing our ability to address uncertainty and unintended consequences in fish and fisheries. The 137th Annual Meeting is a partnership of AFS, the Western Division of AFS, and the AFS California-Nevada Chapter which will all co-convene in San Francisco for their annual meetings. Local artist and Cal-Neva member Rene Reyes has provided beautiful watercolor images of native fishes, which were used to design the meeting poster and which will decorate the venue throughout the meeting. Plenary speakers will address how integrated ecosystem approaches and dynamic ecology can provide clues as to how we deal with uncertainty in aquatic systems, addressing issues of consequence beyond traditional boundaries. We encourage symposia, papers, and posters that build on the themes of the plenary speakers, and other ways of thinking downstream and downcurrent across jurisdictions, disciplines, and cultures. We also encourage everyone to enjoy San Francisco and California before, during, and after the meeting.

CALL FOR PAPERS AND SYMPOSIA

Aquatic resource professionals are invited to submit symposia proposals and abstracts for papers in a range of topics and disciplines. Participation by scientists at all levels and backgrounds, especially students, is encouraged. The scientific program includes the following types of sessions: Symposia (oral sessions organized to focus on a single topic; see format below), Contributed Papers (oral presentations on any relevant topic), and Posters. Oral presentations are limited to 20 minutes: a 15-minute presentation with 5 minutes for speaker introduction and questions. In some symposia, two time slots (for a total of 40 minutes) may be used for a keynote speaker or panel discussion. All oral presenters are expected to deliver computer presentations. Presenters must bring their PowerPoint

presentation to the meeting on CD or USB flash memory stick, and have their presentation loaded onto the session computer by 7 p.m. the evening before their presentation. Laptop computers will be provided, as will LCD computer projectors, and technicians will be available to help. We encourage presenters to load their talks early so any last-minute problems can be resolved in a timely manner.

SYMPOSIUM PROPOSALS

The Program Committee invites proposals for symposia from individuals or groups. Symposia may be presented as oral presentations, posters, or both. Topics should be related to the meeting theme (these will receive priority) or be of general interest to AFS members. Symposium organizers are responsible for recruiting speakers, soliciting their abstracts, and directing them to submit their abstracts through the AFS online abstract submission form. Each symposium should last at least a half-day (about 10 oral presentations) and may span a maximum of two days (about 40 oral presentations). There is no limitation for the number of posters submitted for symposia. **Symposium proposals must be submitted by 12 January 2007** via e-mail to Eric Wagner (ericwagner@utah.gov) with the proposal attached in the correct format in MS Word or WordPerfect; please contact Eric Wagner address and phone below) if you do not receive confirmation by January 19. The Program Committee will review all symposium proposals and notify organizers of acceptance or refusal by 2 February 2007. If accepted, organizers must submit a complete list of all confirmed speakers and titles by 23 February 2007. **Symposium abstracts are due by 2 March 2007.**

4th North American Reservoir Symposium

Balancing Fisheries Management and Water Uses for Impounded River Systems

June 6-9, 2007 Atlanta, Georgia

The symposium's theme is "Balancing Fisheries Management and Water Uses for Impounded River Systems" and will address the challenges of managing reservoir fisheries in the context of

competing water uses. Within this scope, topics for contributed papers and posters include: Balancing fisheries issues with basin-wide water uses; Aquatic habitat; Human dimensions; and Catch and release and use of regulations. Proceedings of the symposium will be published in an AFS book, with manuscripts due for submittal by June 1, 2007. The external review process and publication is expected to take no longer than one year from June 2007. Additional information: www.sdafs.org

Upcoming National Meetings!

May 14-16--New Strategies for Urban Natural Resources: Integrating Wildlife, Fisheries, forestry, and Planning, Chicago, IL. See www.informalearning.com/wildlife.

Jun 6-9—Fourth North American Reservoir Symposium, Atlanta, GA. See www.sdafs.org.

Jun 7-9--15th International Conference on Environmental Bioindicators, Hong Kong. See www.InformaLearning.com/EBI. Contact Jana Johnsen, Jana.Johnsen@informuse.com.

Jun 17-23—Seventh Symposium on Fish Immunology, Stirling, Scotland. See www.noffi.org/sotland2007.

Jun 18-21—Symposium: Challenges for Diadromous Fishes in a Dynamic Global Environment, Halifax, Nova Scotia, Canada. See www.anacat.ca. Contact Alex Haro, Alex_Haro@usgs.gov, 863/3806.

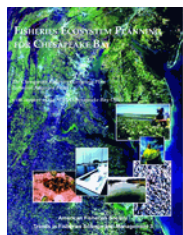
Jun 26-29--ICES/PICES Conference for Early Career Scientists: New Frontiers in Marine Science, Baltimore, MD. See www.pices.int/newfrontiers.aspx.

Jul 11-16—American Society of Ichthyologists and Herpetologists Annual Conference, St. Louis, Missouri.

Sep 16-19—International Symposium: WILD TROUT IX, West Yellowstone, MT. www.wildtroutsymposium.com/. Contact Dirk Miller, Dirk.Miller@wgf.state.wy.us, 307/777-4556.

New Books!

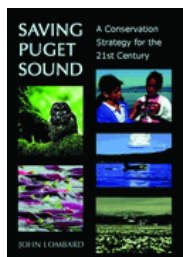
Fisheries Ecosystem Planning for Chesapeake Bay
NOAA Chesapeake Bay Fisheries Ecosystem
Advisory Panel; Publication date: November 2006;
410 pages; Price: \$49.



Since European settlement, the Chesapeake Bay's estuarine system has supported major fisheries and the livelihoods of residents. Over recent decades, however, many of the fish and shellfish that supported these fisheries have declined. This work describes the structure and function of the bay's ecosystem, including key habitats and species interactions. Recommendations to implement ecosystem-based approaches to fisheries management for bay resident and coastal species are included, as well as recommendations for research to enhance knowledge of the ecosystem and its fisheries.

Saving Puget Sound: A Conservation Strategy for the 21st Century

John Lombard; Publication date: November 2006;
315 pages; \$35.

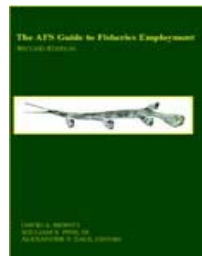


No other developed area in the world matches the Puget Sound region's combination of beauty, wealth, natural resiliency, and history of environmental concern. Saving Puget Sound develops a practical proposal to conserve the Puget Sound region's most important ecosystems in the face of long-term population growth, drawing lessons that are relevant across the Northwest and other parts of the country. It provides both a vision for conservation and a detailed review of the political and legal issues that must be at the core of any practical strategy to achieve it. This book will appeal to general readers interested in the future of the region, conservation professionals working on issues such as land use and endangered species, and students of environmental policy nationwide.

AFS Guide to Fisheries Employment Second Edition

David A. Hewitt, William E. Pine III, and Alexander V. Zale, editors; Publication date: September 2006;
246 pages; \$12.

This updated handbook provides education, employment, career advancement, and professional development guidance to fisheries students and professionals. Includes practical advice on building undergraduate skills, designing an effective resume, and pursuing graduate studies. In 15 chapters, experienced



fisheries professionals discuss fisheries careers with State and Federal agencies, academia, cooperative research units, nongovernmental organizations, and private consultants. Also examines foreign employment, equal opportunity issues, things to know about assuming administrative positions, and how AFS can help individuals become fisheries professionals.

The Fisheries of North America: An Illustrated Guide to Commercial Species. By Robin W. A. Rodger

Need help with your knowledge of fishes? You can now turn to this one-of-a-kind guide for fast, practical information on the major commercial fish and shellfish species of North America. The encyclopedia-style provides a quick reference to help users identify species and understand trends. The **80 entries, 100 illustrations and 180 tables** give readers important information on hundreds of species of marine finfish, freshwater finfish, and shellfish. Abalone, cod, grouper, mackerel, flounder, sablefish, salmon, catfish, walleye, clams, scallops, shrimp — species representing more than 99% of the landed and farmed value of fish and shellfish in North America are covered. Price: \$78+ \$7 shipping = \$85
http://www.marketresearchassociates.com/The_Fisheries_of_North_America_Description.htm

AFS End-of-Year Book Sale!

AFS is offering a number of publications at reduced prices. From now **until January 15, 2007**, take advantage of the End-of-Year Book Sale and save on selected AFS publications. Complete your science library at dramatically reduced prices - all sale publications are \$15.00 or less!

Notes From the Editor...

We would also like to thank members who contributed to the Winter newsletter. We strongly encourage every member to contribute to the newsletter. We appreciate all articles, photos and input! This is a great opportunity to let the rest of the chapter know about the work that you are doing.

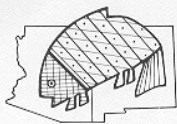
The theme of the winter/spring newsletter is **Hatchery Research and Management**. The deadline for submissions is **March 1**. *Articles* should be approximately 250 words long. We would love to see any *photos* of fish, or of you working! Also, this is a great place to post *job and volunteer listings* and other *announcements*.

We look forward to seeing everyone in February in Albuquerque!

~Your editors

Anne Kretschmann
AKretschmann@azgfd.gov
Marianne Meding
MMeding@azgfd.gov

Arizona-New Mexico Chapter



American Fisheries Society

Anne Kretschmann
Newsletter Editor
AFS AZ/NM Chapter
Arizona Game & Fish
2221 W. Greenway Rd.
Phoenix, AZ 85023

AFS Arizona-New Mexico Chapter Officers

President	Pam Sponholtz U.S. Fish and Wildlife Service P.O. Box 338 Flagstaff, AZ 86002 (928) 226-1289 pam_sponholtz@fws.gov
President-Elect	Amy Unthank U.S. Forest Service SW Region Fisheries Program Manager Albuquerque, NM (505) 842-3263 aunthank@fs.fed.us
Secretary/ Treasurer	Matt Rinker MRinker@azgfd.gov
Past President	Paul Cassidy Aquatic Consultants, Inc. 4415 Hawkins St., NE Suite D Albuquerque, NM 87109 (505) 890-5753 paulcassidy@aquaticconsultants.com
Membership	Jeremy Voeltz Jeremy_Voeltz@fws.gov
Environmental Affairs Fundraising/Raffle Bylaws	Dana Berger Jim Warnecke Colleen Caldwell

Webpage

If you have any comments about the webpage or have items you would like to see on the webpage, please contact:
Scott Rogers at: srogersagf@qwest.net
or 928-226-7677

Visit our webpage at:
<http://www.fisheries.org/aznm>