



FISH SOUP

AZ-NM CHAPTER AMERICAN FISHERIES SOCIETY

Established 1967, Volume 42 Number 1

Spring 2011

President's Message for Members:

March 21, 2011

Greetings AZ-NM Chapter AFS Members,

The Joint Annual Meeting between AZ/NM AFS and AZ and NM Chapters of The Wildlife Society was held in Pinetop February 3-5 and so far, the majority of feedback from meeting participants has been very positive. Overall, the Joint Annual Meeting was a great success because the planning team was dedicated to hosting a meeting with professional presentations that attracted biologists, professors, students, and peace officers, as well as to provide continuing education opportunities that made attendance even more attractive and worthwhile. Some of the highlights from feedback have included the plenary session topic and speakers, the law enforcement continuing education course that attracted peace officers from the Arizona Game and Fish Department and White Mountain Apache Tribe, the continuing education course on electrofishing taught by Jim Reynolds, the student/mentor lunch, the excellent selection of raffle prizes, and of course the food and beverages that the Hon-dah Resort and Casino's staff offered. Despite the record setting cold temperatures, the meeting this year was attended by more than 320 people - representatives from state, federal, and Tribal agencies, as well as universities and consulting firms.

The AFS Chapter business meeting was very well attended by more than 50 people. Yvette Paroz, Fisheries Biologist with the U.S. Bureau of Reclamation, was chosen to be the next chapter President during 2012-13, following Jason Kline, current president-elect. During the awards ceremony during the plenary, Jennifer Johnson with the U.S. Fish and Wildlife Service received the award for Professional of the Year to reflect her years of dedication and success focusing on children's involvement in nature. Phil Fernandez, Jim Walker, and Bob Youtz - members of Trout Unlimited chapters in Arizona - received the award for Conservationist of the Year for creating the annual Arizona Native Trout Workshop meetings to bring agency and Trout Unlimited members together to work jointly on native trout recovery and conservation.

I will close with a few reminders regarding Western Division AFS business. The deadline for award nominations and Project Grant Proposals is April 15th and the deadline for student scholarship applications is May 15th. Recipients for the awards and grants will be announced at the annual AFS meeting in Seattle this September.

Enjoy the spring!

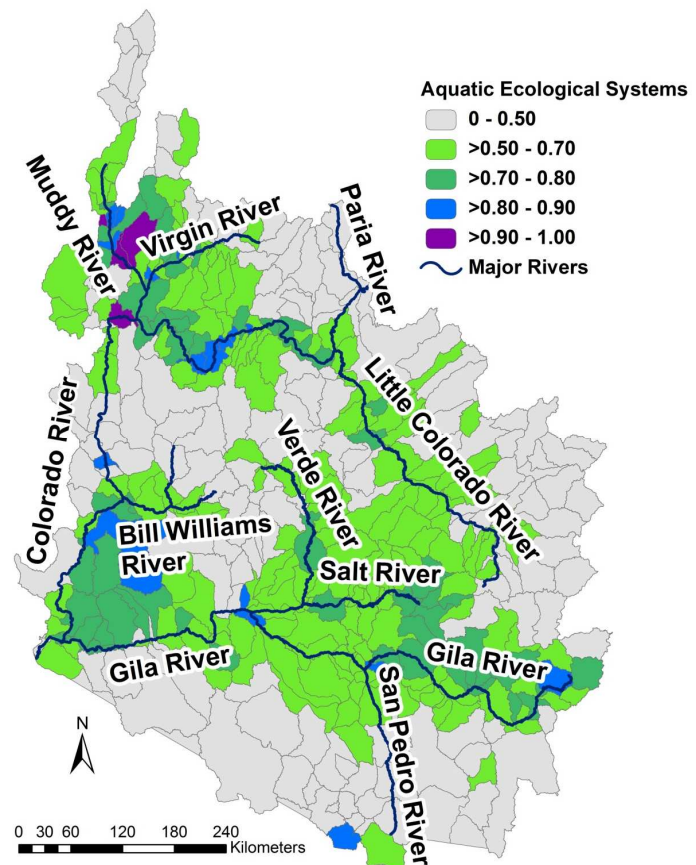
Julie Meka Carter, 2010-2011 AZ/NM AFS President

Conservation Planning For the Lower Colorado River Basin

Non-native introductions and habitat alteration have substantially changed the native fish fauna in the Lower Colorado River Basin. Identifying the areas that have the highest loss of native fish diversity (or highest increase in non-native fish diversity) can help identify areas that resource managers may focus on for conservation. Although anthropogenic activities often influence ecosystem processes and biotic communities, rarely are they integrated into conservation planning due to the difficulty in quantifying threats to biotic integrity. Over 1.5 million fish records were collected and compiled into a database. Landscape-level habitat metrics and anthropogenic stressors were summarized by stream segment, catchment and upstream watershed. We utilized a conservation prioritization software program for freshwater river systems to assign potential conservation value (0 – 1; low to high) to each catchment. Our approach incorporated a threat index, species distribution models, and other metrics (i.e., habitat fragmentation, non-native species richness) potentially impacting conservation value of the riverscape. Contiguous regions with high conservation value (>0.8) were located in the lower Muddy and Virgin rivers, Colorado River mainstem in the Grand Canyon, Upper Gila, Gila–San Pedro rivers confluence, Upper San Pedro River, Colorado River mainstem, and Gila–Aqua Fria rivers confluence. Within those regions, areas with conservation values in the upper 10th percentile and with mandated legal protection from human development were inequitably distributed among the major watersheds potentially indicating a lack of protection for unique assemblages of native fish.

A gap assessment was conducted by intersecting land stewardship and management categories with known and predicted occurrences of native fish. For native species, we identified the percentage of its distribution within lands being protected for biodiversity. Although approximately 25% of river kilometers (with fish records) are within protected lands, this did not reflect the protected distribution for many native species. A few species (humpback chub, *Gila cypha*; flannelmouth sucker, *Catostomus latipinnis*; bluehead sucker, *Catostomus discobolus*)

had a high percentage (>80%) of their distribution in protected lands, which can be attributed to their high prevalence within the Grand Canyon National Park. However, approximately one-third of all natives had <10% of their distribution within protected lands. Of those 24% (known occurrences) and 5% (modeled distributions) of species were essentially excluded (<1% representation) from protected lands.



Currently there are numerous efforts to slow the loss of aquatic habitat and biodiversity in the Colorado River (e.g., Rangewide Conservation Agreement, Watershed-based Fish Management Process of Arizona Game and Fish Department, Desert Fishes Habitat Partnership). Our research complements those efforts and recommends specific areas where conservation efforts may be targeted when native fish species representation is the goal. This can help resource managers that have thousands of river kilometers to manage, identify the small fraction of the landscape where management and conservation efforts may have the best return for monetary and effort investment. Our results identify methods to account for landscape-level anthropogenic threats,

develop distributions of native and non-native fish and diversity (even in areas not sampled) based on landscape-level metrics linked to primary drivers for the persistence of native fishes. We hope this research will provide science-based information to aid agencies, natural resource managers, and policy makers in the decision-making process to conserve and protect aquatic biodiversity and critical habitats. This project is part of the national Aquatic Gap Analysis Program.

~Dr. Joanna Whittier, University of Missouri; Kristen Pitts, M.S. 2008; Dr. Craig Paukert, University of Missouri; Dr. Julian Olden, University of Washington; Thomas Pool, Ph.D. student, University of Washington.

CONGRATULATIONS TO THE ANNUAL AZ/NM AFS AWARDS WINNERS!

We have the opportunity to award our peers and those outside our profession for their outstanding work related to fisheries and the aquatic resources through awards that were given at the Joint Annual Meeting in February.

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. Congratulations to **Jennifer Johnson**, Fishery Biologist, of the US Fish and Wildlife Service Arizona Fish and Wildlife Conservation Office (AZFWCO), for the award of Professional of the Year – Education.

Below is a brief biography and summary of her efforts in outreach and fisheries education.

Jennifer completed undergraduate and graduate coursework at the University of Missouri. Her work experiences include, 1) Fishery Biologist, AZFWCO; 2) Fishery Biologist, Columbia Fish and Wildlife Conservation Office (CFWCO), Missouri; 3) Biological Sciences Technician, CFWCO; 4) Research Technician, CFWCO; 5) Laboratory

Assistant, University of Missouri; 6) Aquatic Ecologist Intern, Sam Parr Biological Station, Illinois; and 7) Biological Technician, River Ecosystems Inc, Nebraska.

In addition to Jennifer's efforts in fisheries research and management, Jennifer has pursued, developed, and increased the amount of effort and size of the fisheries education program for AZFWCO. Beginning in 2007, Jennifer began exploring educational opportunities throughout Arizona. Immediately after, Jennifer became active in groups, programs, and events such as Trout in the Classroom, Kids Gone Wild, More Kids in the Woods, White Mountain Wildlife and Nature Center Wildlife Festival, Loan-A-Rod, Biologist in Training, Panther Pals, youth fishing derbies, and others. Jennifer has developed innovative approaches for fisheries education. She has developed and presented information on informative games like "Fashion-A-Fish" and "Fish Bingo." Games provide entertainment as well as education. For instance, "Fashion-A-Fish" teaches youth about fish morphology and anatomy and other games teach youth about native and non-native fishes.

Jennifer has participated in recent annual meetings of the Arizona-New Mexico Chapter of the American Fisheries Society, the Desert Fishes Council, the Southwest Region Native American Fish and Wildlife Society, and others. Jennifer is co-chairing a plenary session (2011 AFS/TWS Joint Annual Meeting) that will focus on connecting youth with nature. Her relevant presentations at professional meetings include:

- Connecting Children with Nature: Ensuring the Future of Conservation; Moab, UT, 2010
- Connecting Children with Nature: Biologist in Training; Scottsdale, 2010
- Connecting People With Nature: AZFWCO FY09; San Marcos, TX, 2010

Jennifer's efforts have not gone unnoticed by her USFWS colleagues. In 2008, Jennifer received AZFWCO's MVP Award for her efforts in fisheries management and outreach. Additionally, Jennifer completed a work detail in 2010 at the USFWS Regional Office where she and others developed the Recreational Fishing and Outdoor Education Program for USFWS Region 2.

Below is an abbreviated outline of Jennifer's relevant activities and achievements from 2007 to present:

- 2007 Jennifer assisted the US Forest Service with the Kids Gone Wild and More Kids in the Woods programs. Youth learned about crayfish, New Zealand mudsnails, various fishes, and invasive species prevention.
- 2008 Jennifer attended Trout in the Classroom meetings and began developing outreach strategies for local schools.
- Jennifer participated in planning and implementation of the Kids Gone Wild and More Kids in the Woods programs. Jennifer assisted with a series of summer programs that provided local youth with outdoor activities and educational opportunities.
- Jennifer developed educational games such as Fashion-A-Fish, Fish Bingo, and others.
- Jennifer attended the White Mountain Wildlife and Nature Center Partners Workshop (education workshop).
- Jennifer was elected to the Advisory Committee for the White Mountain Wildlife and Nature Center.
- Jennifer participated and assisted in planning of the annual White Mountain Wildlife and Nature Center Wildlife Festival in Pinetop. Attending youth learned about threatened and endangered fishes of Arizona and played fisheries related matching games.
- 2009 Jennifer assisted in planning of the annual White Mountain Wildlife and Nature Center Wildlife Festival in Pinetop. Jennifer conducted a youth fishing derby on Woodland Lake during the festival.
- Jennifer stocked rainbow trout for a youth fishing derby on the Kaibab Paiute Indian Reservation and helped removed invasive weeds.
- Jennifer participated in the Arizona Game and Fish Department Outdoor Expo in Phoenix. Her booth included live Apache trout, native fish quizzes for kids, and informative brochures and posters.
- Jennifer participated in the Northland Youth Coalition Regional Meeting of the Arizona Center for Afterschool Excellence. She helped the Coalition provide outdoor opportunities for local youth.
- Jennifer assisted with planning and implementation of the Kids Gone Wild and More Kids in the Woods programs. Participants learned about native fish conservation, electrofishing, data gathering, and Apache trout.
- 2010 Jennifer completed a work detail at the USFWS Regional Office to assist in the development of Region 2's Recreational Fishing and Outdoor Education Program.
- Jennifer met with Big Brothers Big Sisters of the White Mountains to develop outdoor opportunities for youth.
- Jennifer presented the Biologist in Training Program and operated an educational booth at a youth fishing day on Fort Apache Indian Reservation.
- Jennifer presented the Panther Pals and Biologist in Training programs to several schools. Students learned about freshwater ecosystems and food webs, wildlife habitat, water quality parameters, invasive and endangered species, data analyses, and how to use dichotomous keys to identify macro invertebrates. Students sorted and identified macro invertebrates, measured fish, and identified key components of a healthy stream.
- Jennifer assisted with planning and implementation of the Kids Gone Wild and More Kids in the Woods programs. Participating youth learned about surface water contamination, habitat deterioration, fish morphology and anatomy, and fly fishing techniques.
- Jennifer provided educational games and information at the Arizona Game and Fish Outdoor Expo in Phoenix.
- Jennifer provided opportunities for local youth fishing by developing a fishing equipment rental (Loan-A-Rod Program) at the Show Low Public Library.
- Jennifer arranged and led hatchery tours at Alchesay National Fish Hatchery.
- Jennifer delivered rainbow trout for a youth fishing derby on the Kaibab Paiute Indian Reservation.
- Jennifer was selected as co-chair for USFWS Region 2 Fisheries outreach. To encourage outreach efforts, she developed educational packets for each fisheries field station in Region 2.
- Jennifer helped develop coloring pages containing native fish of Arizona.

- Jennifer participated in the annual White Mountain Wildlife and Nature Center Wildlife Festival in Pinetop and operated an exhibit that discussed water and recreational opportunities in the White Mountains.
- Jennifer participated in the Flagstaff Aquatics Center summer program and the Forrest L. Wood Day in Payson.

Jennifer was nominated by Dominic Barrett, dominic_barrett@fws.gov.

Conservationist of the Year Award

Congratulations to **Jim Walker, Bob Youtz, and Phil Fernandez**. 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.

Award recipients:

Jim Walker; Zane Gray Trout Unlimited Chapter member and Trout Unlimited National Leadership Council Representative (AZ)

Bob Youtz; Gila Trout Trout Unlimited Chapter president and Trout Unlimited National Leadership Council Vice Chairman (AZ)

Phil Fernandez; Zane Gray Trout Unlimited Chapter member

In January 2010, Jim, Bob and Phil held the 1st Annual Arizona Native Trout Workshop. The vision of this workshop was to get together Trout Unlimited (TU) National and Arizona Council and Chapter members, along with key people (e.g., biologists, native fish specialist, land managers) from the Arizona Game and Fish Department, US Fish and Wildlife Service, US Forest Service, Fort Apache Indian Reservation, Federation of Fly Fishers and others interested in native trout recovery in Arizona. The objectives for the workshop were to present timely information on native trout recovery projects in AZ, as well as the broader perspective of native trout recovery from TU National scientists. In addition, an emphasis on expanding trout recovery to include other species co-existing with trout was highlighted, with a presentation on chub restoration

in AZ as well as a presentation about a project by TU National that included the recovery of multiple native fish species in addition to native trout. For half of the meeting, two groups were formed to discuss the bottlenecks involved with reestablishing native trout populations in Arizona and they brainstormed solutions. Given the success of this workshop expressed by the participants, the organizers have committed to making this an annual event. This type of venue provides a highly productive means of networking among attending participants, all of which are interested and passionate about native trout recovery. For Jim Walker, Bob Youtz, and Phil Fernandez, as well as others who have assisted in the creation of the Arizona Native Trout Workshops, we commend your dedication, ingenuity, and motivation to stay engaged in native trout recovery and in keeping the momentum of native trout projects moving forward.

December 27, 2010

Submitted by: Julie Meka Carter

Best Student Presentation Award

Congratulations to Joy Price for her presentation: "Habitat variables associated with stream temperature resiliency in the White Mountains of Arizona with implications for Apache trout distribution in response to climate change."

WEBSITE NEWS!

Check out our AZ/NM website!

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

If you have any suggestions, or items that may be of interest to members, please send them to both Jodi Whittier at whittierj@missouri.edu and Tim Frey at tcfrey@nm.blm.gov.

AZ/NM AFS CHAPTER NEWS!!!

Environmental Review Committee

AGFD Sport Fish Stocking Program: Notice of Availability of Draft Environmental Assessment

The U. S. Fish and Wildlife Service (FWS) released a Draft Environmental Assessment (Draft EA) on the Arizona Game and Fish Department Sport Fish Stocking Program. The Dingell-Johnson Sport Fish Restoration Act of August 9, 1950, as amended (64 Stat. 430; 16 U.S.C. 777-777n) directs the FWS to provide Federal aid to States for the management and restoration of fish having "material value in connection with sport or recreation in the marine and/or fresh waters of the United States." To fulfill this legislative mandate, the FWS proposes to fund, in part, the Arizona Game and Fish Department (AGFD) program of stocking sport fishes in selected waters of Arizona to provide the public with opportunities for recreational fishing. This Draft EA analyzes the potential effects to physical and biological resources and socioeconomic conditions that may result from various alternatives proposed.

The Draft EA is available for review on-line at: www.fws.gov/southwest/federal_assistance/index.html or www.azgfd.gov/fishea. In addition, hard copies of the Draft EA may also be viewed at the Phoenix Headquarters and AGFD field offices statewide. Additional information about the sport fish stocking program can be found at the AZGFD website, www.azgfd.gov/fishea. The comment period for the AZGFD Sport Fish Stocking Program draft EA has been extended until COB on May 11, 2011.

The AZ-NM AFS Chapter will be sending a letter to FWS regarding this EA. Please send any comments you have to the Environmental Review Committee Chair: Aaron Bunch, ABunch@azgfd.gov by **April 25, 2011**.

Please also contact Aaron if you have any items that you would like the Environmental Review Committee to address.

~Aaron Bunch, AZ Game and Fish Department.

ENVIRONMENTAL REVIEW COMMITTEE NEWS!

We would like to give a warm welcome to and thank Aaron Bunch, Research Branch: Flagstaff, Arizona Game and Fish Department who has volunteered to take over the Environmental Review Committee from President-Elect Jason Kline. Thank you Aaron!

If the membership has an issue that they feel the chapter should comment on, please forward it to Aaron Bunch at ABunch@azgfd.gov.

Chiricahua Leopard Frog Critical Habitat

The U.S. Fish and Wildlife Service (USFWS) issued a proposal seeking to designate more than 11,000 acres in Arizona and New Mexico as critical habitat for the threatened Chiricahua leopard frog under the Endangered Species Act. They are also reassessing the status and threats to the Chiricahua leopard frog and proposing to continue its endangered species protection. Comments will be accepted by USFWS until **May 16, 2011**. For more information: www.fws.gov/southwest/es/arizona/Documents/SpeciesDocs/CLF/2011_FR_CLF_pCH.pdf.

U.S. Forest Service Forest Planning Rule

The U.S. Forest Service is seeking public comment on the proposed Forest Planning Rule that was released on February 10, 2011. The Forest Planning Rule will establish a new national framework to develop land management plans that protect water and wildlife and promote vibrant communities. It will create a modern planning process that reflects the latest science and knowledge of how to create and implement effective land management plans. Written comments will be accepted through **May 16, 2011**. For more information: www.fs.usda.gov/planningrule and www.govcomments.com.

**2012-2013
CHAPTER PRESIDENT**

Congratulations to **Yvette Paroz**, Bureau of Reclamation, New Mexico, who was elected at the annual business meeting at the Joint Annual Meeting in February. She will take office in August 2011 and serve a three-year term, performing the duties of President-Elect in 2011-2012, President in 2012-2013, and Past-President in 2013-2014. Currently, Stephanie Coleman is the Past-President, Julie Meka Carter is the President, and Jason Kline is the President-Elect. Curtis Gill is our Chapter Secretary/Treasurer.

Student Affairs Committee

A student mentor luncheon was held Friday, February 4, 2011 from 11:30-13:00. Eight professionals representing state, federal, academia, and private sectors discussed their careers with 37 students. Students were provided with biographies of each professional, prior to the luncheon, so that they could decide what professional, career path, and/or agency they wanted to learn more about. Student and professional participation at this event exceeded our original estimates and expectations.

Special thanks to: Dr. Jim Reynolds, Professor of Fisheries, Emeritus, University of Alaska Fairbanks; Dr. Scott Bonar, Unit Leader and Associate Professor, USGS/University of Arizona; Mary Richardson, Supervisory Fish and Wildlife Biologist, United States Fish and Wildlife Service; Daniel Dymond, Law Enforcement Supervisor, Arizona Game and Fish Department; Chuck Paradzick, Senior Ecologist/Environmental Scientist, SRP; Elise Goldstein, Bighorn Sheep Biologist, New Mexico Department of Game and Fish; Bruce Palmer, Director of Biological Services, Logan Simpson Design Inc; and Matt O'Neill, Wildlife Specialist III, Arizona Game and Fish Department.

A total of 24 students representing four universities were able to work at the meeting to offset the cost of their registration. Students assisted with registration, presentation loading, poster set-up and take-down, raffle ticket sells, technical sessions, and plenary assistance.

~Heidi Blasius, Bureau of Land Management.

STUDENT UPDATES!

**University of Arizona Student Chapter &
Trout Unlimited
Spring 2011 Update**

This spring the AFS club has continued its participation with Trout in the classroom at the Drachmann Montessori School in Tucson, AZ. The trout eggs arrived in January and have now developed into young Frye. As volunteers for the project we assisted in the aquarium set up, help monitor water quality in the tank, and teach children about the development of trout. We currently have \$1,010 in our bank account and have 15 current members. In February we attended the AZ/NM J.A.M. in Pinetop, AZ. The club sold T shirts at the meeting and participated in the raffle. All attending members had a great time and gained valuable experience from listening to presentations. In April the club will be participate in the annual Aravaipa Creek sampling trip with Dr. Reinthal. Members will have the opportunity to gain experience identifying native fish, seining, and get to hike through the beautiful canyon. On March 1st we had Julie Carter from the AZ Game and Fish department come to speak with our club about grant and scholarship opportunities. Members learned about various grants available to fund projects and help aid in travel expenses to professional conferences.

List of Officers:

- President- Chris Emery
cemery@email.arizona.edu
- Vice President: Justin Mapula
jmapula@email.arizona.edu
- Treasurer: Anthony Trujillio
anthony1@email.arizona.edu
- Secretary: Morgan Pfander
mpfander@email.arizona.edu

The University of Arizona Student Chapter is currently looking for speakers and volunteer opportunities for the Fall 2011 semester. Please contact 2010-2011 President, Chris Emery at cemery@email.arizona.edu if you have any opportunities or project ideas.

Arizona State University

Our AZ - AFS Student (**The ASU student chapter of the American Fisheries Society**) chapter is unique. It is hosted under the student group **WRSA, Wildlife Restoration Student Association**. It's a conglomerate of range, wildlife, and fishery clubs.

- The Wildlife Society
- The Society for Range Management
- The American Fisheries Society

Our spring events kicked off with the Joint Annual Meeting for American Fisheries Society and The Wildlife Society. 10 Students made the trip to Pinetop, Arizona where they met with professionals and sat in on presentations of some of the current fisheries research that is going on.

On March 4-6th, our first group activity was a fund raising event that took club members on a camping trip to the Mogollon rim. We spent the weekend hiking and looking for fresh elk antler sheds. The sheds collected are going to be raffled off at a future regional meeting.

On April 1-2nd, we will be hosting a fly fishing clinic to introduce and teach students about fly fishing. This event will help students who are interested in fisheries become more knowledgeable about sport fish/fishing and introduce the activity to students who have no previous knowledge. Our clinic will be led by retired Game and Fish researcher and current ASU associate professor, Stan Cunningham. We will be camping out Friday night and fishing on Saturday. SFAB is providing funding for participant gas reimbursement and food.

May is the time for our famous annual end of the year BBQ. We will be saying good bye to some members, but look forward to recruiting new ones. Be sure to stop by for an elk burger and hope to see you there.

Our chapter is currently recruiting new members. We are on facebook! Search for us by typing in "Wildlife and Restoration Student Association".

The Arizona State University AFS Student Subchapter/ Wildlife Restoration Student Association are currently planning for the fall semester. If you have any ideas or volunteer opportunities please contact Jeff Sturla 2010-2011 AFS Representative at jeffsturla@hotmail.com.

New Mexico State University Student Subunit

We are also looking for volunteer activities or guest speakers for the Fall 2011 semester. If you have any ideas or suggestions for volunteer opportunities, please contact Rene Galindo (president) at reneg@nmsu.edu.

Check out the
New Mexico State University
Student Subunit Website!
<http://cahe.nmsu.edu/academics/clubs/AmenFisheriesSoc/index.html>

AFS WESTERN DIVISION Webmaster Position

The WDAFS webmaster is moving on and the WDAFS is looking for a replacement. Interested? Contact Lori Martin, Lori.Martin@state.co.us, for more information.

The Tributary is the newsletter of the Western Division of the American Fisheries Society. The **January 2011** edition is now available online.

<http://www.wdafs.org/newsletters/archives/Vol%2035%20No%201.pdf>

Newsletter Editor: Travis Neebling,
Wyoming Game and Fish Department,
Travis.Neebling@wgf.state.wy.us

**141st AFS NATIONAL
ANNUAL MEETING 2011**
**“New Frontiers in Fisheries
Management & Ecology: Leading
the Way in a Changing World”**
September 4-8, 2011
Seattle, WA

<http://afs2011.org/>

Set your sights on attending this year’s Annual Meeting of the American Fisheries Society in the beautiful Pacific Northwest. With its focus on “**New Frontiers in Fisheries Management and Ecology: Leading the Way in a Changing World,**” the conference will provide a wonderful opportunity for fisheries professionals to meet, exchange information, catch up with friends, and find inspiration.

AFS President Wayne Hubert, Meeting Co-Chairs Cleve Steward and Larry Dominguez, and Program Co-Chairs Craig Busack and Dave Ward invite you to attend the 2011 AFS Annual Meeting at the Washington State Convention Center in Seattle, Washington. With magnificent Puget Sound at its doorstep and Mount Rainier and the towering Cascade and Olympic mountain ranges visible in the distance, the Emerald City offers both scenic splendor and myriad recreational opportunities. The Convention Center is within walking distance of the vibrant Seattle waterfront, with its jumble of shops, restaurants, art galleries, and the world famous Pike Place Farmers Market. There are a multitude of shopping venues, sights, and experiences to enjoy when not engaged in meeting activities. You’ll want to extend your stay to allow time to visit Puget Sound, the rugged Olympic peninsula, and other fabulous nearby destinations.

The 2011 AFS Meeting will provide a unique forum for participants to explore the many multidisciplinary aspects of fisheries science and management. In addition to the eclectic mix of outstanding symposia, contributed papers, and posters for which AFS meetings are known, the Seattle meeting will feature

a broad range of technical, social, and legal topics that are of national and international interest, including measures to recover from massive man-made and weather-related catastrophes and to ensure the long-term sustainability of fisheries resources. Regional topics will highlight efforts to protect and clean up Puget Sound and address emerging issues related to the Columbia River, salmon recovery, and watershed management. We encourage those involved or interested in fisheries science and management, marine and freshwater habitat protection, or fisheries-related recreation to contribute to this important meeting.

Support AFS and indulge yourself by coming to Seattle next September. We guarantee your experience will be a memorable one.

Plenary Session

The theme of the 2011 Annual Meeting of the American Fisheries Society (AFS) is “New Frontiers in Fisheries Management and Ecology: Leading the Way in a Changing World.” The Plenary Session is organized to emphasize this theme with a ceremony that initiates the Annual Meeting, renowned speakers addressing various aspects of leadership, and recognition of AFS leaders with the Society’s highest awards. The invited Plenary Session speakers will be:

Billy Frank Jr.

Mr. Frank will describe his experience in the leadership of Native Americans as the tribal role evolved from activists, fighting to secure fishing rights reserved in treaties with the U.S. government, to managers of the resources. Mr. Frank is a member and elder of the Nisqually Indian Tribe. For 22 years, he has served as the Chairman of the Northwest Indian Fisheries Commission where he “speaks for the salmon” on behalf of 20 Treaty Indian Tribes in western Washington. Mr. Frank is an advocate for fish habitat protection and healthy salmon runs and has a strong legacy of experiences and accomplishments to share.

Robert T. Lackey

Dr. Lackey will address the topic of leadership in connecting science to decision making and policy in fisheries management. Dr. Lackey is a Professor of Fisheries Science and Adjunct Professor of Political

Science at Oregon State University. He retired from the U.S. Environmental Protection Agency in 2008 after three decades of Federal Service during which he served in many leadership positions. Dr. Lackey was on the faculty at Virginia Polytechnic Institute and State University from 1971 to 1979. He has authored over 120 journal articles and book chapters, and is a Certified Fisheries Scientist. Dr. Lackey is well-known for his thought-provoking and insightful articles on relationships of science, management, and policy.

Jesse Trushenski

Dr. Trushenski will provide insight into the education of future fisheries scientists, fish culturists, and fisheries managers considering the perspectives and needs of students, educators, and employers. Dr. Trushenski is an Assistant Professor in the Department of Zoology and conducts research within the Fisheries and Illinois Aquaculture Center at Southern Illinois University – Carbondale. Dr. Trushenski's research interests are in fish physiology and aquaculture. She conducts applied research on fish nutrition and basic research on metabolism and physiological processes in fishes all with a focus on development of practical solutions for the aquaculture industry. She is the President of the Fish Culture Section of the AFS. She has a sound research record with dozens of journal articles and book chapters, as well as substantial experience in the classroom and mentoring graduate students.

General Program Information

The 2011 AFS meeting in Seattle is now expected to be the largest national AFS meetings ever held. We are striving to develop a program worthy of such a large attendance. Each day you will have 25 or more concurrent sessions of symposia and contributed paper sessions to choose from, focused on diverse critical topics of regional, national, and global importance. These oral sessions will be augmented by a large poster session you can peruse over several days. Personal scheduler software will be available online to help you navigate through the many offerings and plan your time.

The 2011 AFS meeting program is still under development, but response has been overwhelming.

Over 120 symposium proposals have been received, including:

- Effects of oil spills on fisheries
- The global fisheries crisis
- Ocean acidification
- Catch shares
- Fisheries and hard-rock mining
- Climate Change and Pacific Salmonids
- Colonization and Reintroduction of Anadromous Salmonids
- Investigating the World of Lamprey Biology and Ecology
- Getting There: How Can Assessments Lead to Meaningful Fish Habitat Restoration Projects?
- Riverscape Ecology: Theory and Application for Understanding and Conserving Lotic Fishes
- Crayfish In Western North America: Research Opportunities and Management Challenges
- Variation In Age and Size at Maturation In Salmonids: Causes and Consequences
- The Effects of Semi-Intensive Aquaculture on Biodiversity In Nearshore and Inland Waters
- Reflections on Forest Management; Can Fish and Fiber Coexist?
- Using Hydroacoustic Telemetry to Understand Movement and Ecology of Critical Species
- Coastal Cutthroat Trout: Research, Status, and Conservation
- Invasive Alien Species Control and Native Species Restoration: Technical and Regulatory Challenges
- Challenges in Managing Marine & Estuarine Recreational Fisheries
- Fisheries Forensics: Leading Edge Tools for Investigative Fish Science
- Technical Recovery Teams and Pacific Salmon Recovery
- Implementation and Policy in Pacific Salmon Recovery
- Human Influence on Connectivity and Population Structure for River Fishes
- Innovations in Electrofishing Technology and Techniques
- Understanding and Managing Fish Stocking Programs in a Changing World: Towards An Integration of the Underlying Multidisciplinary Sciences
- Using Models to Evaluate Predator/Prey Balance (or Imbalance) in the Great Lakes Ecosystems

- Conservation Genetics and Genomics in Fisheries
- Environmental Flow Applications in the Management of Hydroelectric Dams: Science, Policy, and Management

Continuing Education

The Continuing Education Committee has put together a diverse suite of courses for the 2011 Annual Meeting. The courses cover a variety of topics, ranging from the use of science in decision making, leading effective technical meetings, planning for stream habitat restoration, and use of hydroacoustics in fisheries. When you register for the meeting, please consider taking one or more of these courses or technology workshops. All of them will help increase your professionalism, perspective, and skill set when you return to your job.

LEADERSHIP AT ALL LEVELS IN AFS

Dirk Miller, Wyoming Game and Fish Department; dirk.miller@wyo.gov; **FREE!**

This course will focus on helping AFS leaders understand how to work effectively within the AFS governance structure at all levels: Chapter, Section, and Division.

BASIC/INTERMEDIATE GIS FOR FISHERIES BIOLOGISTS

Joanna Whittier, University of Missouri; whittierJ@missouri.edu; Student \$125; Member \$220; Non-member \$250

This course will provide an overview of basic/intermediate GIS skills for fisheries biologists using ArcGIS, including use of existing data, creating your own data, and review of fundamental concepts for GIS.

ADVANCED GIS FOR FISHERIES BIOLOGISTS

Joanna Whittier, University of Missouri; whittierJ@missouri.edu; Student \$150; Member \$220; Non-member \$270

Building on the 'Basic/Intermediate GIS for Fisheries Biologists' course, this course will focus on geoprocessing, interpolation, and spatial analysis methods to aid in fisheries monitoring and research.

RIVER MORPHOLOGY AND RESTORATION

Jim Gracie, Brightwater, Inc;

jgracie@brightwaterinc.com; Student \$150; Member \$250; Non-member \$300

This course covers general principles of river morphology, classification systems, hydrology and hydraulics, stream stability, natural channel restoration approaches and a description of stabilization devices, habitat improvement devices and performance monitoring. The material is presented with real life examples and includes extensive class participation and problem solving.

SIM-STREAM 8.0- SOFTWARE FOR INSTREAM HABITAT SIMULATION AT THE MESOSCALE

Piotr Parasiewicz, Rushing Rivers Institute; piotr@rushingrivers.org

Joe Rogers, Rushing Rivers Institute; geojoerogers@yahoo.com

Student \$100; Member \$150; Non-Member \$200

This course will introduce how to model functional relationships between the physical environment and river biota using the MesoHABSIM modeling approach and its associated software, Sim-Stream.

MAPPING AQUATIC HABITAT OF INLAND FRESHWATER SYSTEMS USING SIDE-SCAN SONAR

Adam J. Kaeser, Georgia Department of Natural Resources; Adam.kaeser@dnr.state.ga.us

Thom Litts, Georgia Department of Natural Resources; Thom.litts@dnr.state.ga.us

Student \$100; Member \$150; Non-member \$200

This course is an introduction to using the inexpensive Humminbird® Side Imaging system to map and quantify benthic habitats at the landscape scale. The course includes a practical session covering techniques for geoprocessing sonar imagery and map development within ArcGIS 9.x.

INTRODUCTION TO PROGRAMMING IN R FOR FISHERIES SCIENTISTS

Matt Catalano, Michigan State University; mcatalano@msu.edu; Student \$100; Member \$150; Non-member \$200

This course will introduce the basics of Program R using a command-line interface and examples from fisheries research. Program R is a powerful open-source mathematical and statistical software program

gaining popularity in the fisheries and ecological sciences.

EFFECTIVE SPEAKING WHEN THE HEAT IS ON!

Michael E. Fraidenburg, The Cooperation Company; fraid@earthlink.net

Oriana Noël Lewis, Dispute Resolution Center of Thurston County; onlewis@mediatethurston.org
Student \$25; Member \$40; Non-member \$60

Participants learn how to deliver their message using six speaking models that are designed to persuade. Use the techniques professional speakers use to get your audience to STOP, LOOK, and LISTEN, even if they don't want to.

COLLABORATIVE NEGOTIATIONS

Michael E. Fraidenburg, The Cooperation Company; fraid@earthlink.net

Oriana Noël Lewis, Dispute Resolution Center of Thurston County; onlewis@mediatethurston.org
Student \$25; Member \$40; Non-member \$60

Learn to solve your toughest bargaining challenges and preserve relationships you will need in the future. Get direct, 'hands-on' experience building negotiations that will work for you in the present and set the stage for healthier collaborations in the future.

INTRODUCTION TO STRUCTURED DECISION MAKING FOR NATURAL RESOURCES MANAGEMENT

James Peterson, Oregon Cooperative Fish and Wildlife Research Unit; jt.peterson@oregonstate.edu

Krishna Pacifici, University of Georgia, Athens; pacificik@warnell.uga.edu

Student \$75; Member \$100; Non-Member \$125

This course will introduce the structured approaches of decision science as applied to aquatic resource issues, including how to incorporate multiple objectives, stakeholder values, various sources of uncertainty, and additional data.

DIGITAL PHOTOGRAPHY FOR AQUATIC SCIENTISTS

Jeremy Monroe, Freshwaters Illustrated; jeremy@freshwatersillustrated.org

Rich Grost, RTG Fishery Research & Photography; Richard.Grost@pacificorp.com

Student \$100; Member \$150; Non-member \$200

Participants in this course will learn how to use photography as part of their communication portfolio. The course will cover the importance of photography in aquatic education, science, and outreach; digital equipment, techniques, and workflow; techniques for underwater natural-history photography; and photographic sampling and documentation for science.

STATISTICAL CONCEPTS AND TOOLS FOR FISHERIES BIOLOGISTS

Ken Gerow, University of Wyoming;

gerow@uwyo.edu; Student \$100; Member \$150; Non-Member \$200

Many working fisheries professionals only periodically engage in the use of statistical concepts and tools. This course will help participants refresh their knowledge of traditional statistics while also learning about contemporary statistical concepts and tools.

INTRODUCTION TO SCIENTIFIC ACOUSTICS FOR FISHERIES

Jim Dawson, BioSonics, Inc.;

JDawson@BioSonicsInc.com

Bob McClure, BioSonics, Inc.;

bmcclure@biosonicsinc.com

Student \$100; Member \$150; Non-Member \$200

This course will provide a background in hydroacoustic theory and introduce participants to current acoustics applications for fisheries habitat and population assessment.

RiverRAT – SCIENCE AND TOOLS FOR EVALUATING AND DEVELOPING STREAM ENGINEERING, MANAGEMENT, AND RESTORATION PROPOSALS

Peter Skidmore, Skidmore Restoration Consulting;

restoringrivers@yahoo.com; Student \$100; Member \$150; Non-Member \$200

This course will teach you how to incorporate physical processes into planning and implementing stream habitat management and restoration projects through the use of RiverRAT. RiverRAT is a document and tool to support robust development and review of stream habitat management and restoration proposals.

SPORTS FISHING EVENTS 101

Richard Abrams, Florida Fish and Wildlife Conservation Commission;

Rich.Abrams@myfwc.com

Tom Lang, Kansas Department of Wildlife and Parks and Aquatic Resources Education Association President;

tom.lang@ksoutdoors.com

Steve A. Marshall; Florida Fish and Wildlife Conservation Commission;

Steve.Marshall@myfwc.com

Student \$50; Member \$75; Non-member \$100

This course will provide participants with important skills, resources and hands-on experiences to successfully develop and run youth sport fishing programs at their facilities. This training provides a professional, hands-on complement to the symposium, "Fisheries Education & Outreach: Collaborations That Inspire and Empower Students, Teachers and the Public to Be Responsible Advocates for Aquatic Resources."

SURGICAL PROCEDURES FOR IMPLANTING TRANSMITTERS IN FISHES

Cynthia LeDoux-Bloom, UC Davis; cledoux@ucdavis.edu; California DWR;

cledoux@water.ca.gov

Niels Jepsen, Danish Institute for Fisheries Research, Vejlsøvej, Denmark; nj@aqua.dtu

Theresa Liedtke, USGS, Western Fisheries Research Center; tliedtke@sgs.gov

Mary Moser, NOAA Fisheries, Northwest Fisheries Science Center; Mary.Moser@noaa.gov

Michelle Rub, NOAA Fisheries, Northwest Fisheries Science Center; Michelle.Rub@noaa.gov

Scott Weber, UC Davis; epweber@ucdavis.edu
Student \$100; Member \$150; Non-Member \$200

The goal of this introductory course is to provide knowledge of biotelemetry and implanting transmitters into fishes using principles of veterinary science. This course will have a hands-on component and allow time for participants to seek answers to questions regarding their specific research activities.

HOW TO LEAD AN EFFECTIVE TECHNICAL MEETING

Jim Berkson, National Marine Fisheries Service; Jim.Berkson@NOAA.gov

Student \$50; Member \$75; Non-Member \$100

This course will teach you how to be an effective technical meeting leader and is intended for all career stages. Topics include: handling difficult personalities, time budgeting, and reaching meeting objectives.

VEMCO ACOUSTIC TELEMETRY TECHNOLOGY WORKSHOP

Nancy Edwards, VEMCO Division and AMIRIX Systems Inc.; afsagm.seattle@vemco.com

Richard Vallee, VP Sales, VEMCO; richard.vallee@vemco.com

FREE!

VEMCO staff will discuss passive and active acoustic technology and how to use the equipment effectively. Potential topics include: Understanding Single Frequency Telemetry, Equipment Overview and Representative Deployments, Detection Performance and Range Limits, VEMCO User Environment (VUE) Software, VR2W Positioning System (VPS,) and Future Product Directions. Participants will help explore problems regarding deployment methods, experimental design, identifying unknown codes, data management, handling and analysis.

SOUND METRICS ARIS TECHNOLOGY WORKSHOP

Bill Hanot, Sound Metrics Corp.; bill@soundmetrics.com

FREE!

Advances in imaging sonar and software now allow more accurate assessment of fish behavior and population enumeration. This workshop will introduce participants to DIDSON and Adaptive Resolution Imaging Sonar and their applications to fisheries management.

NATIONAL MEETINGS! AFS Mexico Chapter Meeting

May 17-21, 2011

Mazatlán, Sinaloa

<http://ola.icmyl.unam.mx/mazatlan2011/>

We invite you to Mazatlan, Mexico, as the Mexican Fisheries Society and the Mexican Chapter of the AFS convene their 3rd Meeting at the Hotel el Cid on May 16th to 20th, 2011. Situated at the entrance to

the Gulf of California, and being the port with the largest commercial shrimp fleet in the Mexican Pacific, Mazatlan provides an outstanding venue to talk about fisheries management as well as to keep update on new ideas fisheries science and management. Mazatlan also provides a world class location for a personal or family vacation. Set at the foot of the Sierra Madre Mountains on a peninsula that extends into the Pacific Ocean, Mazatlan is one of the Mexican Riviera's premier resort areas. Its remarkable scenic beauty is complemented by a delightful festive atmosphere and a wealth of exciting activities. Mazatlan always has surprises in store. Its multiple, complex nature makes boredom impossible. Its coast is sprinkled with beckoning islands and miles of golden beaches and blue lagoons. Wandering through the city and its historic center, sunbathing on its magnificent beaches, traveling to the islands using every imaginable form of transport, gazing at the horizon from hills such as El Faro, trekking or mountain biking in the rainforest, playing golf at one of top ranked golf course in the area, enjoying one of the most elaborate regional seafood cuisines, kayaking between the islands in front of the city, sailing or sport fishing are some of the things that have made Mazatlan famous the world over. With so many possibilities, you will find in Mazatlan a joyful and friendly city. We hope to see you in May 2011 so you can prove it for your self.

**FLOW 2011:
Instream Flow Valuation in
Public Decision-Making**

**May 2-4, 2011
Nashville, Tennessee**

www.instreamflowcouncil.org/FLOW2011

Do you need effective tools and techniques to help you improve instream flow decision-making? The Instream Flow Council and its planning partners invite you to attend *FLOW 2011: Instream Flow Valuation in Public Decision-Making*, May 2-4 in Nashville, TN, a comprehensive, interdisciplinary, and interactive conference. The offering includes a day of workshops on instream/ environmental flow science, policy, public dialogue, and valuation. In the following plenary sessions, a selection of renowned valuation experts and case study presenters will help

us explore instream/ environmental flow quantification and valuation in the contexts of oil and gas development, inter-jurisdictional water supply challenges, and "green" energy considerations. New techniques, applications, and policies will be showcased at a poster session, and exhibitors will be on hand to discuss and demonstrate their products and services. Scientists, agency staff, educators, legal experts, advocates, policy makers, economists, citizens, and researchers currently or potentially involved in water allocation or development decisions are encouraged to attend. Early bird registration rates apply until March 18th; workshop space is limited and filling up. See you in Nashville!

**35th Annual Larval Fish
Conference**

**May 22-26, 2011
Wilmington, NC**

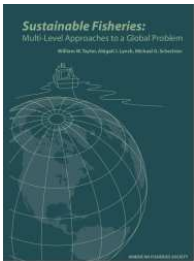
Registration and Abstract Submission Open!
www.larvalfishcon.org/Conf_home.asp?ConferenceCode=35th

Mark your calendars! The 2011 Larval Fish Conference will be held in historic downtown Wilmington, North Carolina, USA during the week of May 22nd-26th. The conference is being hosted jointly by Jeff Buckel of North Carolina State University, and Tom Lankford and Fred Scharf of UNCW. The meeting will begin on Sunday evening with a welcome social along the Cape Fear riverfront. The technical session will start on Monday morning and continue through Thursday. We're also planning for a separate poster session during one of the afternoons to enable full focus on the poster contributions during that time. Beyond the welcoming social on Sunday, we also have an evening planned on the fantail of the USS North Carolina, a decommissioned WWII battleship maintained in Wilmington. The banquet will be held at the historic Bellamy mansion, a restored antebellum home built just prior to the start of the Civil War. Primary lodging accommodations will be provided by the Best Western Coastline Inn, with riverfront views from every room. The technical session will take place directly adjacent to the hotel for added convenience and there are a multitude of restaurants, shops, and bars all within walking

distance. Wilmington International Airport is serviced by Delta and US Airways and can be reached from most major US cities with one connection. The airport offers easy access to the historic downtown area via a 10-minute taxi ride. We are also finalizing plans for theme sessions during the conference. If a member has a specific idea for a theme session that they would like to organize, please contact either Jeff (jeffrey_buckel@ncsu.edu), Tom (lankfordt@uncw.edu), or Fred (scharff@uncw.edu) to discuss it further. We are looking forward to seeing everyone in May.

NEW BOOKS!

Visit: www.afsbooks.org



Sustainable Fisheries: Multi-Level Approaches To A Global Problem

William W. Taylor, Abigail J. Lynch, and Michael G. Schechter, editors; 377 pages; Publication date: March 2011; Price: \$79.

This book presents multi-level approaches to the problem of unsustainable fisheries and provides potential solutions to address it. It discusses the importance of fisheries from a global perspective, describes current fisheries failings, and provides recommendations for more sustainable practices (e.g., food and livelihood security, interdisciplinary approaches, ecosystem-based and community-based management, governance reforms, reduced capacity, and accountability). The book underscores the urgency of the sustainable fisheries issue, highlights inadequacies of current institutional mechanisms to deal with this global concern, and identifies areas for change. Of interest to anyone concerned about ways to address the challenge of fisheries sustainability, this book should be of particular note to fisheries scientists, policy makers, and managers who are vested in governance of our world's fisheries resources. This policy-oriented book is aimed at providing the intellectual foundation for those calling for the convening of a global conference on sustainable fisheries.

JAM AZ/NM AFS Business Meeting 2-3-11

Call to order

- President Julie Carter called the meeting to order.

Quorum count

- 20+ active chapter and parent society members were present exceeding the minimum quorum requirement of 20.

Introduction of Executive committee, special guests and visitors

- ExCom members present: Julie Carter president, Jason Kline president elect, secretary treasurer- Curt Gill, Jeremy Voeltz membership.
- Special Guest: Dave Ward-WD president elect.

2010 minutes approval

- Motioned was passed to approve minutes as printed, seconded, and unanimously approved.

President's message

- Julie discussed issues that the chapter has had with the TWS and the first year of having liaisons from each TWS chapter on the planning committee. Julie felt that having liaisons on the committee helped relations among chapters. Julie also discussed the attempt this year to increase Wildlife Manager attendance by having Law Enforcement training prior to the meeting.

Parent Society/Western Division reports (Dave Ward WD President elect)

- There is currently no AZ/NM Chapter member on WD Executive Committee and Dave encouraged membership to participate.
- Dave discussed opportunities for students through WD in the form of two scholarships for \$1,500.
- Western Division will be co-hosting the National meeting in Seattle in September 4-8, 2011 with the Washington/British Columbia Chapter.
- There is a Student Travel Fund through WD (\$500-\$600/student) to assist students that would like to attend the meeting, check the WD website for more information.
- Dave stated that WD made a little money on the 2010 Western Division meeting in Salt Lake City.
- Western Division is looking for a webmaster if anyone is interested.
- Also looking for help with the Western Native Fishes Database.

- Western Division is looking to start its own Hutton Program.
- Considering adding a non-voting student member to the WD ExCom.

Treasurer's report (Curt Gill)

2010 Income and expenses:

| | Income | Expenses |
|--------------------------|------------|------------|
| Dues from 2010 JAM | \$340.00 | |
| Dues from Parent Society | \$1175.00 | |
| Chapter Rebate | \$212.04 | |
| Plaques and Awards | | \$275.00 |
| 2010 JAM Expense | | \$514.79 |
| ExCom Travel | | \$807.40 |
| Website | | \$285.00 |
| Donations | | \$1,250.00 |
| | \$1,727.04 | \$3,132.19 |

Endowment fund update:

- No update on the endowment fund this year as the WD treasurer has been out of the country and unavailable for update. To date \$4,000.00 has been invested by the chapter in to the fund and the fund was at \$3,650.29 as of January 1st, 2010. Dave Ward indicated that he thought the fund made a little money in 2010.

2011 chapter budget:

- Budget included money for Excom member travel to the Western Division Mid-cycle meeting and to the 2011 Western Division Meeting.
- Budget includes money for Miles McInnis Scholarship and Endowment fund.
- Budget has money for plaques and awards to be presented at 2012 JAM.
- Budget also includes money to maintain the website.

Committee reports

Newsletter-Anne Kretschmann/Bill Stewart:

- Neither Anne nor Bill was in attendance, but they sent a request for articles for the upcoming newsletter.

Webmaster-Jodi Whittier:

- Tim Frey is taking over as webmaster. The chapter purchased software and we are now doing the website ourselves.

Membership-Jeremy Voeltz:

- Jeremy stated that we currently have 125-130 Full Member and about 50-60 Chapter only members with a total membership of just under 200.

- Everyone is encouraged to pay their dues.

Environmental review- Jason Kline:

- Jason stated the chapter wrote a support letter for the Native Fish Habitat Conservation Act.
- We also provided a support letter for the Pinaleno Mountains Gila trout renovation.
- Jason is looking for someone to take over the over as the chapter representative for the environmental review committee. Aaron Bunch volunteered to take this position over.

Student affairs- Heidi Blasius:

- Responses for student worker for this year's JAM were good with a mix of fish and wildlife students.
- Heidi discussed offering a class on what students need to do to get an entry level job.
- Student luncheon taking place from 11:30 to 1:00 with sign up at NMSU table. Several students had already signed up for the luncheon.

Student paper judges- Tim Frey:

- Tim was not in attendance so Jason Kline took over the task. Jason recruited 6 people to judge papers and posters.

Hutton program-Chuck Benedict:

- The Hutton program pays high school students a \$3,000.00 scholarship to come work with a fisheries professional for the summer.
- All the mentor has to do is fill out a little bit of paperwork; you don't have to pay them.
- Mentor applications are due by February 15th, 2010.
- The students have to get a recommendation from a teacher so they are the top of their class and are good / hard working kids.
- So far the program has had good success. If you know of any local high school students have them put in. The program is for local students that are in under-represented groups within the field of fisheries.

Student sub-unit reports

Rene Galindo NMSU

- The NMSU sub-unit had 12 new paying members.
- The sub-unit helped the Sierra Fly Fishers with a kids fishing clinic.
- The sub-unit worked with the Audubon Society to remove barb-wire fencing on the Rio Grande.
- The sub-unit had kids visit the lab at NMSU
- In the future the sub-unit is planning to help with the Broad Valley Ranch restoration activities and continue assisting the Sierra Fly Fishers with the kids clinic.

Jeff Sturla ASU:

- Julie gave update since Jeff was not in attendance.

This past fall's events

- Recruitment meeting/ Pizza Social in September to discuss upcoming events and student recruitment.
 - Turn out of 10
 - State chapter TWS President-Elect John O'Dell spoke with prospective members and encouraged current members to attend the upcoming national meeting
- Black footed ferret survey
 - Funded a group of students to volunteer on the annual black footed ferret survey for the AZGFD
- TWS National Conference
 - Helped fund 3 undergrad students to attend the nation TWS conference in Snowbird
- End of the semester BBQ. Our chapter grilled some wild game (deer and elk burgers) in the fall harvested by some current members. The event was open to all students and faculty. Turn out was about 30 people.

Spring Semester 2011

- 10 students from ASU are attending the Joint Annual Meeting.
- The following day after the state meeting, 3 TWS members, including one from AFS, are headed to Billings, Mt. to compete in the national SRM range plant ID contest.

Upcoming events

- Fly fishing clinic/ campout

- Professor Stan Cunningham will help in a fly fishing clinic/ campout in April
- Will learn about the natural history of Arizona's fishes as any other wildlife/birds seen on the trip.
- Wildlife photography lesson from Stan Cunningham
- Chapter hiking trip to the Superstition Mountains
- Springtime deer and elk antler gathering for chapter fundraising
 - Collected sheds will be raffled/sold for club funds
- Annual Finals BBQ

Chris Emery U of A:

- The sub-unit currently has 15 paying members and \$857.92 in their account.
- The sub-unit has been working with TU on trout in the classroom teaching kids about the life history of trout and water quality.
- To raise money the sub-unit is selling t-shirts for \$15.
- The sub-unit is looking for new volunteer opportunities and guest speakers for their meetings.
- The sub-unit will be assisting with Aravaipa Creek sampling in the spring.

Nomination for Awards- Jason Kline:

- The chapter did receive nominations for both Conservationists of the year and Professional of the year.
- Awards for best student paper and poster will be announced at the banquet.
- Jason proposed a Lifetime Achievement award to be called the "Fishead". The award would follow criteria used for the national award.

Public education committee- Stephanie Carman:

- Stephanie was not present at the meeting. Need to follow up with Stephanie and see if she still wants to be chair.

Continuing Education- Don Mitchell:

- The piscicide training class that was supposed take place at the JAM will be rescheduled in Phoenix. Jason would like to

see the class offered annually at the JAM. Jason will look into seeing what he needs to do to teach the class.

- John Romero taught a law enforcement class to try to encourage wildlife manager attendance and would like to add a concurrent session at the JAM next year next year for LE talks.
- Jim Reynolds taught an electrofishing course this year.
- Julie solicited ideas for future continuing education classes.

New Business

- Julie felt that having TWS liaisons on the planning committee helped lessen conflicts and that the liaison idea should be continued. Aaron Bunch volunteered to be the non-Ex Com liaison.
- This year both fisheries and wildlife students were permitted to work at the JAM. It was agreed that it worked and should be allowed at future JAM's hosted by the chapter.
- Kelly Meyer asked about LE and travel to NM for the 2012 JAM hosted by AZ TWS. Wildlife managers have little funding for travel and the continuing education class seemed to work well in attracting WM's. It was felt that emailing supervisors was a good way to allow for WM attendance.
- The topic of student engagement was discussed. Scott Bonar felt emails were ineffective to promote student engagement as too many come in. He felt that personal notification to student advisors seems to help. Jason Kline and Don Mitchell agreed to set up a meeting with Scott. The idea of a profession liaison with the Universities was brought up. Clay Crowder suggested meeting with students at the University. Scott suggests we go out for a brew.
- New chapter logo discussion-Jeremy has a contact at his office that could design a new logo for the chapter. Stewart Jacks motioned to pursue design of a new logo which was seconded and unanimously voted on by membership.
- The topic of parent membership among members was broached but no discussion followed.

- It was proposed to change chapter officers at the JAM instead of at the same time as the parent society meeting. Kelly Meyer motioned to make the change and Jason Kline seconded the motion which the chapter unanimously approved. We will look into changing the by-laws so that the changing of officers can occur at the 2012 JAM.

Officer election

- There were two nominations, Yvett Paroz and Kirk Patten-both from New Mexico, for president.
- President elect 2012-13 is Yvett Paroz.

Awards

- Stephanie Coleman as past president was awarded a Plaque.
- Professional of the Year- Jennifer Johnson.
- Conservationist of the Year- Jim Walker, Bob Youtz, and Phil Fernandez for the native trout workshop they put on in Phoenix.
- Student Presentation- Joy Price-Habitat variables associated with stream temperature resiliency in the White Mountains of Arizona with implications for Apache trout distribution in response to climate change.
- Student Poster- Jonathan Spurgeon-Translocation success of humpback chub; implications for future management actions.

Adjourn

- Meeting was called to close with no additional business.

Job Postings and Volunteer Opportunities!!!



We are happy to post job and volunteer opportunities for members. Please send postings to **Anne Kretschmann** kretschmann.anne@gmail.com by **June 10th** for inclusion in the Summer 2011 newsletter.

Notes From the Editors...

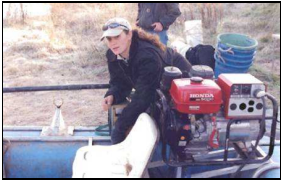
We would like to thank members who contributed to this newsletter. We strongly encourage every member to contribute to the newsletter. We appreciate all articles, photos and input! This is a great opportunity to let the rest of the chapter know about the work that you are doing.

The theme of the Summer 2011 newsletter is **Native Fish Research and Management**. The deadline for submissions is **June 10, 2011**. **Articles** should be approximately 250 words long. We would especially 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**.

~Your editors,

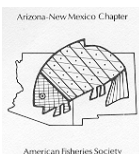
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Anne Kretschmann/ Bill Stewart

Environmental Affairs

Aaron Bunch

Program Committee

Stephanie Coleman

Nominations/Awards

Amy Unthank

Continuing Education

Yvette Paroz/ Don Mitchell

Student Affairs

Heidi Blasius

Bylaws

Colleen Caldwell

Fundraising/Raffle

Vacant

Webpage

Visit our webpage at: www.aznmfishsoup.org

If you have any comments about the webpage or have items you would like to see on the webpage, please contact Jodi Whittier at whittierj@missouri.edu and Tim Frey at tcfrey@nm.blm.gov.

Student Sub-unit/Chapter Contact Information

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