The Tributary

The Newsletter of the **W**estern **D**ivision of the **A**merican **F**isheries **S**ociety

Spring 2016
Vol 40 Issue 1

Small project grant update

Microplastics in Juvenile Chinook Salmon

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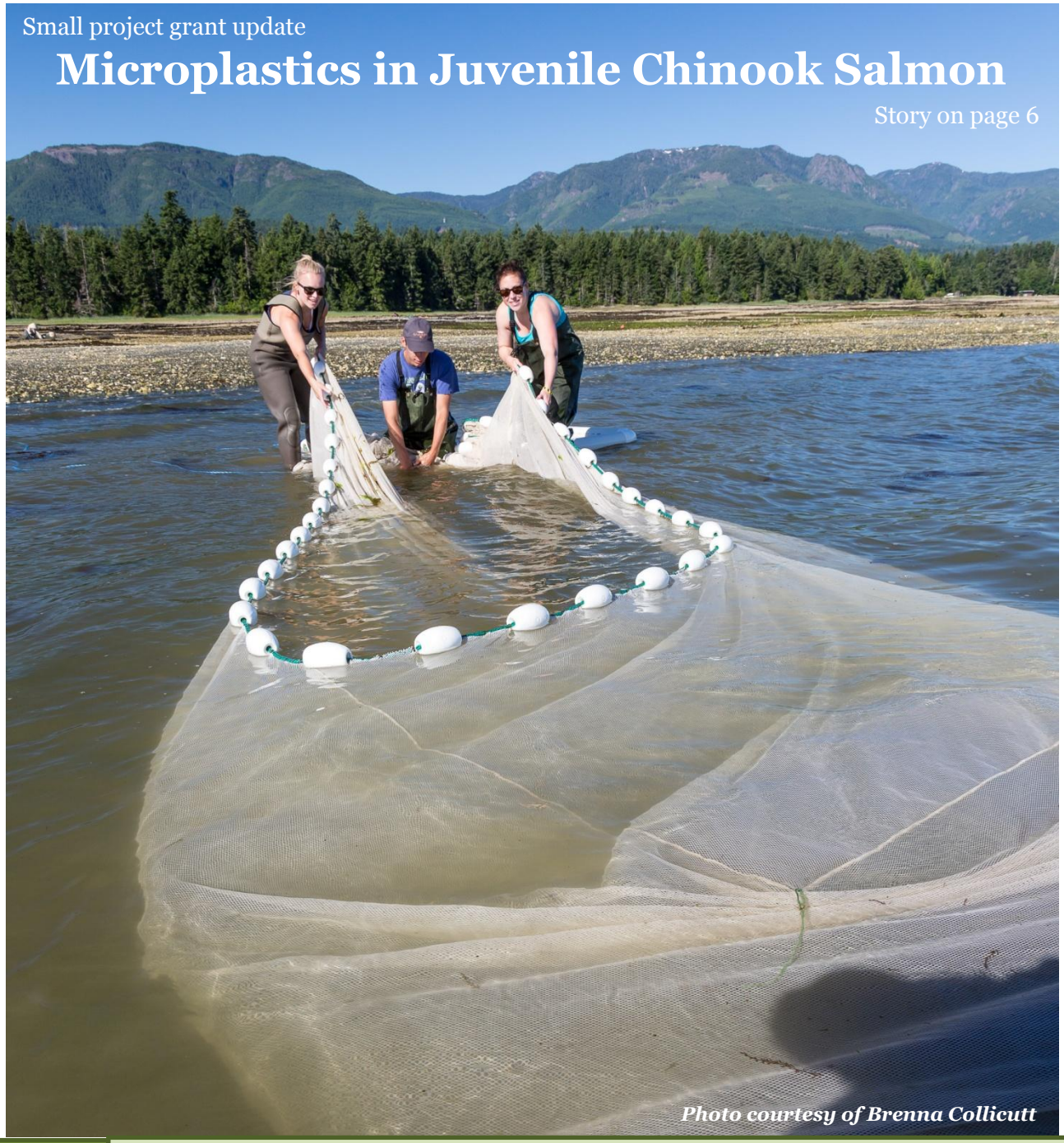

Photo courtesy of Brenna Collicutt

In this Issue

President's Hook

By WDAFS President, Jim Bowker

Greetings, Western Division AFS members,

The 41st Annual WDAFS meeting, co-hosted by the fine folks with the CA/NV AFS Chapter, is right around the corner. The meeting will be held in Reno, NV at the Grand Sierra Resort, March 22-25, 2016 (http://wd2016.fisheries.org/). Continuing Education Courses and Field Trips are scheduled for Monday, March 21 (http://wd2016.fisheries.org/events/workshops-trips/). If you're coming to Reno, be sure to arrive in time for the Opening Social (http://wd2016.fisheries.org/events/opening-social-mingle-among-monster-fish/) at the Terry Lee Wells Nevada Discovery Museum and check out National Geographic's extraordinary exhibit, "Monster Fish: In Search of the Last River Giants."

Once you've worked up a monster appetite, stroll outside to grab a bite from a bevy of food trucks that will be lined up right outside the Museum's front door (drinks will be free; food will need to be purchased). Between professional and social events, it's going to be an incredible meeting. At last count, there will be 209 oral presentations, 42 posters, two panel discussions, 19 trade show vendors, and more. Although we expected that the smash success of the 145th Annual AFS meeting held in Portland last August might limit attendance in Reno, attendance is expected to top 500 people. Joe Merz (CA/NV President Elect and General Meeting Co-Organizer) and I have been overwhelmed by the dedication and hard work of the various teams involved in planning WDAFS 2016—they have gone above and beyond the call of duty to make this meeting one to remember.

Anybody who has helped organize a scientific meeting knows that success depends, in part, on attendance, a strong showing at the tradeshow, and contributions from generous sponsors. Those who've planned events like this also know the stress associated with filling room blocks and being able to pay for expenses associated with everything from A/V equipment rental, catering, transportation to off-site events, and so on. Revenue isn't the only measure of success, or even the most important meeting metric, but doing better than breaking even means the WDAFS is able to fully support valuable programs (more on that below) and reinvest those dollars in our members. Along with membership dues (we get a portion of the dues paid by AFS members that reside in the WD), meeting revenue is our major source of operating funds. Fundraising is a crucial part of any successful meeting, and we are very appreciative of those that contributed to WDAFS 2016. Hopefully, once all is said and done, both the Division and the host Chapter will be able to leave Reno in a little stronger financial position and use these monies to support the various projects we fund throughout the year.

So, what do we do with the income we generate? Going over the last two annual budgets (i.e., Hilda's budget and Jim's budget [http://wdafs.org/meetings/archives/budgets/]), it was interesting to see just how much money is being used for what I call "member benefits." Last year, $37,500 was spent on member benefits; this year, that figure climbed to $40,000, thanks to the

(HOOK continued on page 3)

(HOOK from page 2)
success of the Portland meeting and income generated by our Endowment Fund. The WDAFS has funded:

- Student, professional and international member travel to the Portland ($5k for each category – total of $15k) and Reno ($4k for each category – total of $12k) meetings
- Eugene Maughen Scholarship ($5k in scholarships to masters or doctoral students in the general area of fisheries science)
- Sustainable Fisheries Foundation William Trachtenberg Memorial Scholarship Fund ($600 to graduate level student conducting studies on fisheries sustainability)
- $3500 in travel grants for some award winners to get to the meeting to receive their award
- $1000 in support for the annual student colloquium
- $10k for small grants program (See page 6).

Hilda's budget also allowed for the funding of the Western Native Fishes Committee Cutthroat Trout Taxonomy workshop at the Portland meeting ($2k) and $500 for AFS Professional Fisheries Certification application reimbursement (there were no requests for reimbursement last year, again). Jim's budget allowed for the funding of Western Native Fishes Committee database fee ($1k), scholarships for young professionals travel to Reno ($4k), and bumped up funding for AFS Professional Fisheries Certification to $1k to support one applicant from each Chapter (one applicant has submitted a reimbursement request this year).

Combine these budget line items with the cost of getting the WDAFS President and President-Elect to the AFS Governing Board meetings, for WDAFS Officers to get to Executive Committee meetings, and for one Officer to get to each annual Chapter meeting, it becomes clear the importance of a consistent revenue generating model. Generating meeting revenue is crucial and we are hugely thankful to those who put in the hard work to make each and every meeting a success. As our own master fund-raiser, Bob Hughes (2013-14 AFS President, 2006-07 WDAFS President, 1994-95 OR AFS President), says, everybody knows somebody who can contribute in some small way, whether it's a donated gift, float trip, or ski passes. Everything given supports the good work the WD does and provides value to WD members.

We will soon start the annual meeting cycle again and you may be asked to help with fund raising or to donate something for raffle or auction. We hope that you agree to serve on the fund raising committee (or any meeting committee) and contribute something to help generate the much-needed revenue. As somebody famous once said, "Many hands make light work." They might also have said many contributions make for a healthy organization.

Cheers, and hoping to see many of you in Reno!

Jim Bowker
WDAFS President

WDAFS wants to hear from you!!!

To submit an article to the Tributary Newsletter, contact westerndivnewsletter@gmail.com.
Issues are published quarterly.

2016 WDAFS Annual Meeting in Reno Next Week

The 41st Annual Western Division meeting of the American Fisheries Society will be held in Reno, Nevada, March 21 - 24. Co-hosted by the CalNeva Chapter it promises to be a really exceptional gathering of members and non-members, full of great talks, field trips, and professional workshops; not to mention social events.

Photo: tripadvisor.com

If you haven't registered, no need to worry! Walk-ins are welcome to register at the meeting. Registration is in the Grand Salon at the Grand Sierra Resort.

When you do register, don't forget to check out the merchandise table, sign up for the "spawning run," student social or one of the great professional workshops and fun field trips being offered at the meeting for very reasonable prices. Most field trips are $30 and workshops are $25-50. What a bargain!

Field Trips

- Lake Tahoe Science Tour
- MS Dixie Scenic Tahoe Cruise from Zephyr Cove to Emerald Bay
- Lahontan Cutthroat Country – Pyramid Lake and the Lower Truckee
- Trout Unlimited Little Truckee River Restoration Tour and Fishing

Workshops

- Section 7 Endangered Species Act Consultation
- Fish Passage
- Passive Integrated Transponder (PIT) Tagging
- R for Biologists

You can learn more about workshops and field trips at the following link: http://wd2016.fisheries.org/events/workshops-trips/

If you have already registered but forgotten to sign up for a field trip, workshop or t-shirt, come to the registration booth and we can accommodate you there.

We look forward to you joining us. We hope that your stay in Reno will provide you with many opportunities to learn new material, reconnect with old acquaintances, make new friends, and renew your passion and enthusiasm for the work that we do and the resources we serve.

Sincerely,

Jim Bowker
President, Western Division American Fisheries Society

Joe Merz
Program co-chair, President-Elect, California/Nevada Chapter of AFS

Invitation to Attend the 2017 WDAFS Meeting in Missoula, Montana

Nevada Creek, MT, Blackfoot River Watershed. Photo by Tracy Wendt

Greetings AFS members,

We would like to invite you to Big Sky Country for the 2017 WDAFS meeting to be held May 21-26 in Missoula, MT. Located in western Montana, Missoula is a vibrant, active, and scenic setting for the meeting, and a river really does run through it. The rich cultural and natural history of the region has inspired the conservation and management of fisheries for decades, guaranteed to infuse the range of work you'll see presented at this meeting. 2017 will be the Montana Chapter's 50th anniversary, when we will celebrate a half-century of exceptional science, stewardship, and dedication to the aquatic resources our members hold dear.

The Missoula area offers outstanding, unique, and diverse outdoor opportunities within the immediate vicinity or a short drive away. Sample our "blue-ribbon" trout fishing, the grandeur of Glacier National Park, and exceptional trail networks for every type of user. Soak in natural hot springs, raft the Alberton Gorge rapids of the Clark Fork River, and explore the stunning Selway-Bitterroot and Bob Marshall Wilderness areas as well as historic Yellowstone National Park.

Culturally significant sites like Traveler's Rest State Park, where Lewis and Clark stayed on their journey through the region, lies just outside of Missoula. You'll also find Milltown State Park (where Milltown Dam was recently removed), the Big Hole Battlefield, the National Bison Range, Garnet Ghost Town, Bannack State Park, and the infamous Berkeley Pit within driving distance.

Fortunately for our microbrew fans, Montana ranks #2 in the nation for craft breweries per capita--so be sure to taste the local flavors Missoulians love to celebrate. With dinosaurs, Glacial Lake Missoula, ghost towns, cowboys, and unique wildlife, it's no wonder that Montana is called, "The Last Best Place".

We look forward to sharing great science together and all that western Montana has to offer in Missoula, May 2017.

Most Sincerely,

Leslie Nyce & Amber Steed
MTAFS President-Elect 2016 and President-Elect 2017

Don't miss our trade show booth in Reno! We'll have meeting information and **FREE GOODIES** to promote the 2017 WDAFS meeting in Missoula!

The Presence of Microplastics in Juvenile Chinook Salmon and Their Nearshore Habitats

WDAFS Small Project Grant Update
Recipient: Brenna Collicutt, University of Victoria

Microplastics are an emerging problem in the world's oceans. Through sources such as wastewater discharge, coastal litter and industrial materials, microplastics are becoming globally ubiquitous in the marine environment. Microplastic ingestion has been documented in a number of marine species but has yet to be looked at in juvenile Chinook salmon and the nearshore marine environments in which they reside upon leaving their natal streams. These areas are of particular importance to juvenile Chinook salmon because early marine growth is considered a critical time to determine later survivorship. The aim of this project is to determine the incidence and quantity of microplastics in juvenile Chinook salmon and their associated nearshore environments (water and sediment) in order to determine microplastic "hotspots" and potential sources along the east coast of Vancouver Island.

During the summer of 2015, we completed a series of beach seines across six sites on the east coast of Vancouver Island. Juvenile Chinook were euthanized and returned to the lab for microplastic analysis. In addition, water and sediment samples were taken at each site. Because microplastics research is in its infancy, standardized extraction techniques are lacking. During September 2015 through January 2016, we tested and developed techniques to isolate microplastics from fish stomachs, water and sediment samples. Currently, we have processed our fish samples and will be completing our water and sediment samples in the coming weeks.

In addition to the research portion of this project, we have taken part in various public outreach programs including beach cleanups, presentations, microplastic awareness displays, educational material development and interactive learning activities at various functions. In March, we will be holding a microplastics workshop for those interested in or currently doing research on microplastics throughout coastal British Columbia in order to address the current and future goals of microplastic research. We are continuing to work and elevate awareness about the potential threat of microplastics to marine species and fisheries resources and promote ways that we as individuals can prevent further influx of plastics into the ocean.

Thank you again for this funding opportunity and we look forward to analyzing and sharing our results in the coming months.

WDAFS provides funding available for Division Chapters, Subunits and other fisheries-related groups. These small grants can help get a project started or be used to complement other funding sources. Projects should:

- *Promote the AFS mission and WDAFS objectives*
- *Incorporate and promote science-based management, conservation or understanding of fisheries resources*
- *Elevate the visibility of fisheries issues to a broad audience*
- *Need Division funding for completion of the project relative to other funding sources*
- *Have potential for generating revenue to the Division*

More information is available at wdafs.org/awards/small-project-grants.

If you have received a small project grant and would like to share your progress in the Tributary, please email westerndivnewsletter@gmail.com

Greater Yellowstone Area's Shifting Climate

By Adam Sepulveda

The warming temperatures associated with climate change are a large concern for fisheries managers because temperature has a ubiquitous influence on physical and biological systems. For example, winter temperatures influence the total accumulation and melt-out timing of the snowpack, which has a cascading influence on the rate in-stream flows warm and are lost to evapotranspiration, the desiccation of soils and vegetation, and consequently fire dynamics and resources available to fish. Consequently, climate change may surpass habitat destruction as the greatest global threat to biodiversity.

It is now well established that global and regional temperatures are warming, however we know much less about how climate has changed at smaller spatial extents (< 50 km). At these smaller extents, the ecological effects of a changing climate are manifest and managed.

Physiographic features on the earth's surface, such as topography and soil moisture, can moderate the weather experienced at smaller spatial extents, such that neighboring sites with different aspects or elevations can experience different temperatures. The resulting spatial variability in temperatures may help lower the extinction risk posed by climate change, similar to how spatial patchiness increases the resilience of landscapes to disturbance.

In a recent publication in PLOS ONE, U.S. Geological Survey & National Park Service coauthors described the spatial variability in surface air temperatures at 50 sites within the Greater Yellowstone Area (GYA) from 1948 - 2012. Specifically, they tested if this spatial variability has declined over this ~ 60 year period as a result of warming global and regional temperatures. The authors documented

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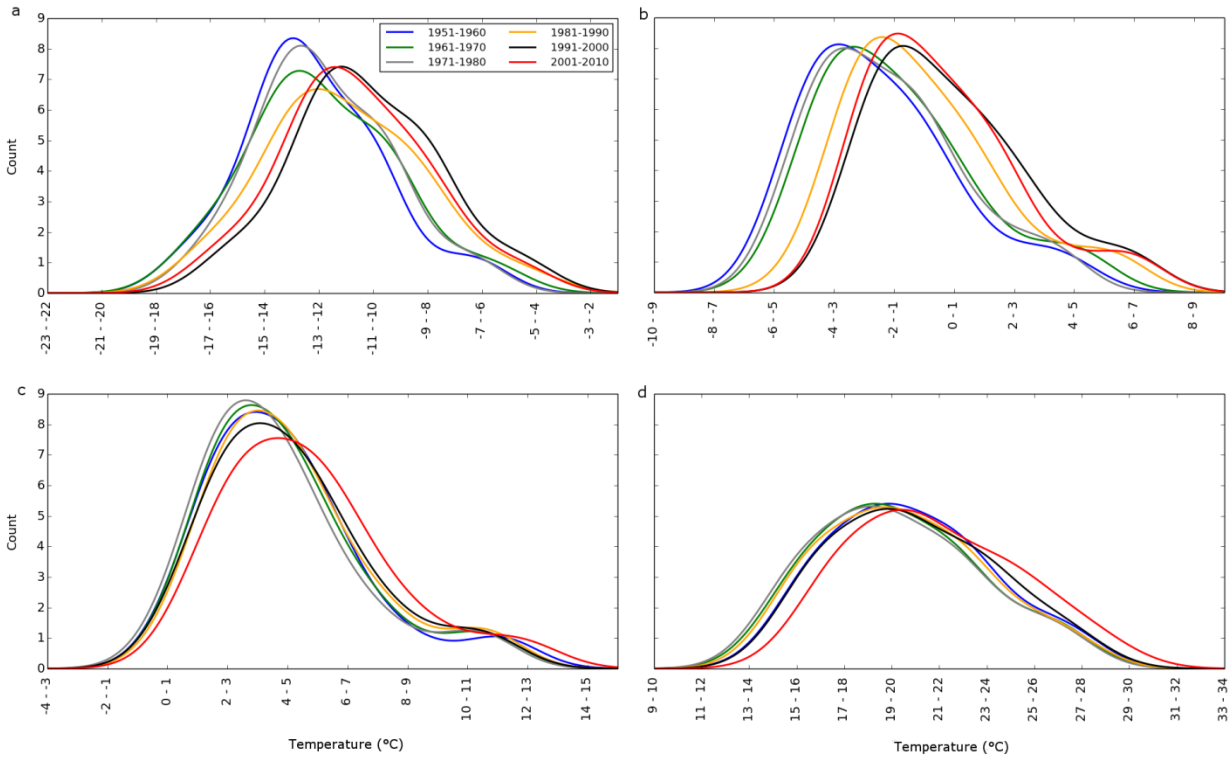


Decadal distributions of minimum (a, c) and maximum (b, d) Winter (a, b) and Summer (c, d) temperatures using the modeled SNOTEL + COOP data, 1950 – 2010. Distributions were smoothed using kernel density estimators.

Estimating American White Pelican Predation on Hatchery Catchable Trout in Idaho

By Kevin Meyer

American white pelicans experienced long-term declines in abundance across North America until the 1960s, likely related to a lack of federal and state protection and the widespread use of pesticides prior to the 1960s. Since then pelicans have experienced an almost exponential rebound in numbers, which is a positive sign for bird conservation. But this has also resulted in documented cases of pelican predation impacts on native fish populations and important recreational fisheries. For example, pelicans are very adept at exploiting put-and-take fisheries created by stocking catchable-sized hatchery trout. Catchable stocking is an important component of many fisheries management programs because they provide instantaneous fisheries once they are stocked. This is especially important in heavily-fished, altered habitats such as impounded reservoirs in Western North America, which often cannot support wild trout populations, and often do not provide adequate conditions over a sufficient time period for put-and-grow fisheries to develop.

American white pelican eating a euthanized fish fed directly to birds from a boat at waters where catchable trout are annually stocked. Birds were fed in order to estimate PIT tag recovery efficiency for at-large fish that were consumed and later deposited at a colony.

With this in mind, the Idaho Department of Fish and Game studied rates of pelican predation on catchables (i.e., the proportion of stocked fish consumed by pelicans) for 19 unique stocking events at various southern Idaho waters during the years 2012-2014; these predation rates were compared to angler catch (i.e., the proportion of stocked catchables caught by anglers) of these same fish. We PIT-tagged (to monitor bird predation) and anchor-tagged (to monitor angler catch) over 5,000 catchables and stocked them in the spring. At the same time, we also directly fed over 1,000 PIT-tagged fish (euthanized beforehand) to pelicans across all study waters. After the juvenile pelicans fledged in the fall, we recovered PIT tags (from stocked and fed fish) from two pelican colonies located in southern Idaho.

Overall recovery rates were 6% for stocked fish and 18% for fed fish. The direct feeding approach revealed that PIT-tag recovery efficiency declined exponentially at feeding events farther from the colonies. Estimating tag recovery efficiency allowed us to produce estimates of total (rather than minimum) pelican predation. In our study, pelican predation averaged 17% and ranged from 0-48%. In comparison, angler catch averaged 20% and ranged from 0% to 82%. For stocking events where pelican predation was >25%, angler catch averaged only 8%, whereas when pelican predation was <25%, angler catch averaged 31%.

Our findings demonstrate that in some southern Idaho fisheries, pelicans are exploiting as many or more catchable-sized hatchery trout than anglers catch, which begs the question of what can be done to reduce pelican predation. Some studies have suggested that altering the timing of stocking may reduce predation. For example, most catchable stocking in southern Idaho occurs from April to

(PELICAN continued on page 10)

Yellowstone River Intake Dam Update

By Leanne Roulson, MT AFS Resource Management Concerns Committee Chair


Photo: Billings Gazette

It's that time of year when everyone's thoughts turn to… Pallid Sturgeon. Well, maybe you haven't been thinking a whole lot about Pallid Sturgeon, but some of our Montana members have, and I thought I would give everyone an update on what has been going on with the Intake project. This project would replace a low head dam on the Yellowstone River as part of an effort to redesign an irrigation delivery system and provide for fish passage upstream of the structure. More information can be found at: Moriverrecovery.usace.army.mil *and* www.usbr.gov/gp/mtao/loweryellowstone/

After the 2015 Montana chapter meeting adjourned, Steve Forrest and McCristie Adams, attorneys for Defenders of Wildlife (Defenders), worked with the Resource Management Concerns Committee (RMCC), Pat Saffel, Pat Byorth, Brian Marotz, and several others on comment letters and other documents to support their challenge to the project. In a nutshell, the things we did over 2015 include:

The RMCC submitted comments on the US Army Corps of Engineers 404 permit for the Intake Dam in mid-April, as did Trout Unlimited and Defenders. In May, Pat Saffel, Pat Byorth, and I put together a letter outlining MT AFS position on Intake in response to an editorial that appeared in the Sydney Herald: www.sidneyherald.com "Opinion: Montana Group Also Opposes Intake Project." It is short, but sweet and a good read.

In July we were able to secure the services of Brian Gallik, an attorney in Bozeman, to help us with drafting an amicus brief in support of the injunction filed by Defenders and the Natural Resources Defense Council (NRDC). Brian graciously donated his time and we were able to file the brief in time for the hearing. Brad Shephard and Bill Gardner contributed to this effort as expert declarants.

In September an injunction was granted halting the Intake Dam project and initiating talks between the agencies and the Plaintiffs (Defenders and NRDC). The judge supported the Plaintiff's argument that an EIS should have been prepared instead of an EA and that "the Plaintiffs demonstrated a likelihood of irreparable harm absent a preliminary injunction". That is judicial speak for, "the agencies should take another look at how the project would affect the Pallid Sturgeon before proceeding". Also in September, Chris Hunter, a past Fisheries Division Leader for MT FWP, took things to a different level and got a letter published in the New York Times (www.nytimes.com, 2015/09/03, Opinion "An Ancient Fish is Running Out of Time)


Photo: Billings Gazette

The plaintiffs and the agencies met and developed a settlement which the judge recently accepted. The next step is that the agencies will complete an EIS that will look at least one additional "non-weir" alternative that would open the main channel of the (INTAKE continued on page 10)

(CLIMATE from page 6)
consistent patterns of warming since 1948 at all 50 sites, with the most pronounced changes occurring during the winter (January – March) and summer (July – September) when minimum and maximum temperature distributions increased. These shifts indicate more hot temperatures and less cold temperatures are occurring across the GYA. However, within any given season and year, a broad distribution of temperatures still occurred in the GYA and the range of this distribution did not decrease with time. Their results indicate that the GYA has maintained a diverse portfolio of temperatures within a year even though these temperatures have warmed. Annually, the spatial variation in temperatures is likely maintained by the GYA's physiographic complexity and its large size, which encompasses multiple climate zones. Protection of an area that has high spatial variability in temperatures was unintentional – the GYA's extent was first defined as the area necessary to sustain the Yellowstone grizzly bear population. Nevertheless, the bear's large range was fortuitous because the spatial variation in temperatures may foster adaptive potential to warming temperatures for many GYA organisms, adding another dimension to the umbrella species concept. As long as warming temperatures remain within species' thermal tolerance limits at some sites (e.g., microrefugia) or species are able to disperse to more suitable habitats, this portfolio of temperature diversity may help to spread the extinction risk posed by a changing climate.

(INTAKE from page 9)
Yellowstone River at Intake Dam to Pallid Sturgeon migration. The U.S. Army Corps of Engineers and the Bureau of Reclamation issued a notice of intent to prepare a draft EIS on January 4, 2016 (in the Federal Register). Scoping for this EIS recently closed (Feb 18), and MT AFS's RMCC submitted comments on what will be covered in the EIS. The RMCC comments restated MT AFS's position that alternatives should prioritize fish passage and Pallid Sturgeon recruitment as critical components for the analysis, and should keep in mind the long-term goals of Pallid Sturgeon recovery.

This is an example of how AFS can provide critical fisheries knowledge to inform decisions on projects that affect fisheries, but may be administered by agencies or processes that do not prioritize or consider biological aspects in their decision making. The Montana chapter should be extremely proud of our contribution to this process. Steve Forrest conveyed to me that he believed AFS's participation and our amicus brief influenced the judge in favor of the fish. So kudos all around! I mentioned a few of the folks who contributed to this effort, but I probably forgot at least as many people as I mentioned. Look for more details on this and other similar projects in an upcoming Fisheries issue spotlight on advocacy.

(PELICAN from page 8)
June, which closely coincides with peak food requirements for pelicans. However, this also closely coincides with peak angler effort in southern Idaho catchable fisheries. Thus, while stocking at a later date may reduce pelican predation, it may also reduce angler catch rates even further. This and other management actions are being considered in light of the current status of pelicans in North America and their cumulative impacts on economically important fisheries that anglers and policymakers value.

Searching a pelican colony for PIT tags from fish fed directly to pelicans or from catchables stocked in hatchery fisheries and eaten by pelicans.

Western Native Fishes

WDAFS Committee Update
By Luke Schultz

With the rejuvenation of the Western Native Fishes Committee over the last year and change, we been actively trying to expand the membership of the group as well as the sphere of activities that we have been involved in. We hope that the Portland meeting, which featured the first WNF meeting in some time, will serve as an excellent launching point for many of our goals moving forward. Several of these efforts are already underway as we enter 2016.

Committee Chair Luke Schultz has been involved with the Cutthroat trout taxonomic revision organizing committee (which includes Patrick Trotter, Pete Bisson, Brett Roper) which was also part of the annual meeting in Portland. This effort will be valuable to present a taxonomic hypothesis for the ~22 unique cutthroat trout lineages across the West. We envision the work resulting in a large document (likely a symposium proceedings) with the organizing committee serving as the editors for the volume. Getting the ducks in a row for cutthroat will help us navigate this process for any subsequent taxonomic revisions which WNF might be involved with for other fishes.

Our annual Western Native Fishes symposium will be held at the Reno meeting in March. Our symposium will be co-organized by Luke Schultz, Troy Brandt (OR AFS president), and Kathy Boyer (Desert Fishes Council past -president), and we'd like to highlight desert fish conservation as well as management efforts that have restored habitat, passage, and watershed connectivity in the Western United States. If you find yourself in Reno - check it out!

We'll be having our annual Committee meeting at the conclusion of that symposium, so it will be good to get everyone together. Please stay tuned for when/where and attend if you can.

Currently, our online database is housed by DataBasin (www.dadbasin.org). Luke Schultz has been working with these folks to better learn the intricacies of the database as well as promote it to a broader audience. One of the ways to promote the site would be to host a webinar about the site, and we are currently working slowly to develop one of these to do this outreach. We're also actively interested in getting feedback from anyone that might currently be using the site, so if you have any suggestions or ideas, we'll take 'em.

Recently-delisted Modoc Sucker. Photo courtesy of Luke Schultz

Lastly, at the Portland meeting, we had expressed interest as a group to better formalize the goals and objectives statements of WNF, including incorporating these into the WD bylaws. We are looking forward to discussing this topic again in Reno and moving these forward.

We'd like to continue to encourage folks to be involved in the group. Please contact Committee Chairs Luke Schultz (lschultz@usgs.gov), Eric Wagner (ericwagner@utah.gov), Hilda Sexauer (hilda.sexauer@wyo.gov), and Mark Smith (mark.smith2@wyo.gov) to get up to speed on the group and get involved with our initiatives moving forward. Feel free to check us out on Facebook as well – just search "AFS Western Native Fishes" and submit your best fishy pics.

2016 WDAFS Student Colloquium in Wyoming

By Caitlin Peterson and Richard Walker

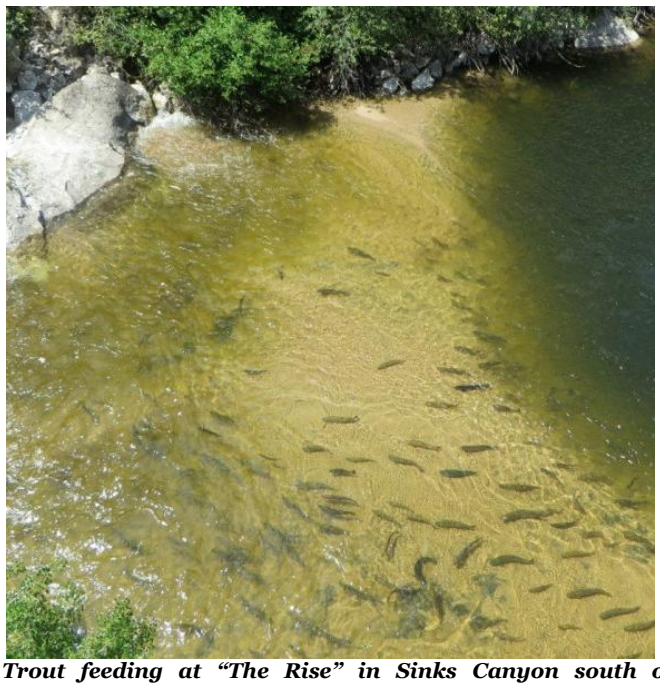
The University of Wyoming Student Subunit is excited to host the 2016 Western Division Student Colloquium, which will be held from April 13-16 in beautiful Lander, Wyoming. This is a FREE event to all students, who will receive a complementary t-shirt for attending. Students from across the West will come together to present their research, attend workshops, and network with fisheries professionals.

The Colloquium will take place at the Nature Conservancy's Red Canyon Ranch, a large open space thirteen miles south of Lander. The Red Canyon Ranch offers close access to the Little Popo Agie River and the Wind River Mountain Range, and students will have the opportunity to explore these ecosystems through professional workshops and a planned recreational outing.

Undergraduate and graduate students will present their research during the paper and poster sessions scheduled for Thursday and Friday, April 14 and 15. Fisheries professionals from Wyoming will be available to provide feedback on these presentations.

The remaining time on Thursday and Friday will be spent in workshops with professionals from across Wyoming. On Thursday Tracy Wendt, former WDAFS student representative and current Aquatic Habitat Project Biologist with the Wyoming Game and Fish Department, will be assisting students with resume and cover letter preparation as well as providing advice on career development, and Dr. Harold Bergman of the University of Wyoming will be conducting an excellent workshop on academic and scientific writing skills.

On Friday students will work with Tom Annear, Water Management Supervisor with the Wyoming Game and Fish Department, on instream flow and water policy. Tom is a very dynamic speaker and enthusiastic about assisting young professionals with their career development. In addition, students will work with local USGS hydrologists to learn methods of estimating instream flows.



Trout feeding at "The Rise" in Sinks Canyon south of Lander. Photo by Tracy Wendt

With so many great events planned, it'll be important for students to network, socialize, and unwind. The University of Wyoming Student Subunit is collaborating with local Lander businesses to coordinate an evening welcome social on Wednesday, a mentoring mixer on Thursday evening, and a fisheries-themed trivia night on Friday. Students will get out and explore the beautiful mountains around Lander on Saturday with a short hiking or fishing outing.

It is not too late to register for this event! Any students wishing to participate should contact UW Student Subunit president Richard Walker (rwalke15@uwyo.edu) as soon as possible. The Student Subunit would also welcome any fisheries professionals available to participate in the mentoring social or to provide feedback on student presentations.

Student Subunit Updates

University of California, Davis Student Subunit
President: Denise De Carion

Matt Young and the Coelacanth

The Davis Student Subunit had a banner year in 2015: The Executive Committee, led by President Denise De Carion from the Moyle Lab, coordinated 11 successful activities in a single academic year. The year began with the First Annual Carpe Carpio, a fishing event at the UC Davis Arboretum, which attracted 60 undergraduate students from various majors. Students learned fish sampling techniques and the history of Putah Creek fish communities.

For the Winter Quarter meeting, the subunit hosted 10 speakers to address "Career Pathways: What went right, what went wrong." Speakers from diverse backgrounds shared their personal stories and advice on gaining experience in the field. The most popular advice was to engage in hands-on research projects; as a result, many students reached out to campus laboratories for volunteer and internship positions.

At the Cal-Neva Chapter's 2015 Meeting in Santa Cruz, CA, the Davis Student Subunit teamed up with the Palkovac Lab at UC Santa Cruz to host the Student Social at the Long Marine Lab. Over 150 Cal-Neva AFS members attended. President Denise moderated the Student Symposium, welcoming students at many different stages in their academic careers. Matthew Young from the Moyle Lab got the award for best student presentation, while Rosalyn Lam, of Bodega Marine Lab, came in third. The best poster award went to Meredith Nagel from the Teh Lab. (As if that were not enough, Matthew Young also came in first in the annual Spawning Run).

At the UC Davis Picnic Day, an annual open house event that commemorates research, teaching, service, and campus life of UC Davis, the subunit hosted its Putah Creek Live Fish & Art Exhibit. Spring Quarter, subunit members visited the California Academy of Sciences in San Francisco, where they took selfies with a large Coelacanth specimen from the Ichthyology Collection. The end of the year included Executive Committee officer elections, where Rosalyn Lam was elected President for 2016.

For more up-to-date information on our activities in 2016, please visit our Facebook page at https://www.facebook.com/groups/AFSSacDavis/ and read our Quarterly Newsletter "Fish Tales" on the Wordpress site https://afsdavissacramentosubunit.wordpress.com

University of Montana Student Subunit
President: Rennie Winkelman

The UM Student Subchapter of AFS had 8 undergrad students attend the Montana Chapter AFS meeting in Helena last month. 3 undergrads, Rennie Winkelman, Ian Anderson, and Ben Rich, presented undergraduate research projects at the poster session. We also held the 2nd annual Fish Trivia Night at MCAFS and it was a huge success!


UM AFS Fish Trivia at the Montana AFS Annual Meeting student/professional mixer

University of Idaho Student Subunit - Portneuf
President: James Paris

This winter has been a busy, yet rewarding, time for the Portneuf student subunit. In the beginning of February, we held our annual ice fishing derby at Devil's Creek Reservoir in southeastern Idaho, which drew close to 60 participants. Unfortunately, the fishing was slow, but the weather and ice cooperated and made for a great event overall. We also had a group of subunit members attend the Idaho Chapter of AFS annual meeting in Coeur d'Alene, where several of our students gave presentations and brought posters. Now, we turn our attention to the Pocatello Envrionmental Fair coming up on Earth Day, as we have a booth every year and teach kids in attendence the importance and value of local aquatic life.

Matt Schenk and Adam Eckersell, working hard at the 2016 Portneuf AFS Ice Fishing Derby.

Submit news about your student subunit for the next Tributary newsletter

westerndivnewsletter@gmail.com

Don't forget to include pictures!

Utah State University Student Subunit
President: Jamie Reynolds

The subunit's most recent club activity involved bashing burbot at Flaming Gorge Reservoir. They fished into the wee hours of the morning only to catch a grant total of six burbot. Of course, the burbot weren't to blame for not wanting to be endlessly poked and prodded by a group of curious and enthusiastic fisheries students. The next morning, students helped the UDWR and Wyoming Game and Fish Department (WGFD) with the Burbot Bash check-in station in Manila, UT. Some helped anglers count and scan their burbot (photo Levi Simmons with tag scanner, below) while others helped the WGFD extract otoliths from roughly 150 burbot for an age and growth study. The subunit would like to thank Ryan Mosley, the UDWR, and the WGFD for allowing them to help.

Other events for the semester include guest speakers from the division and another day of ice fishing. In addition, many students, both graduate and undergraduate, have prepared posters and oral presentations for the Utah AFS Chapter meeting in March.

Utah State University subunit students assisting with the Burbot Bash

WDAFS would like to welcome the new
***BYU – Idaho Student Subunit** to WDAFS!*
We look forward to hearing from you in a future issue.

University of Alaska Fairbanks Student Subunit
President: Stephanie Berkman

In January, the UAF Fairbanks student subunit went ice fishing at Birch Lake, where students caught both Silver Salmon and Rainbow Trout. During the February subunit meeting, UAF alum and research technician Michael Courtney presented his work tagging Chinook Salmon. The March meeting featured UAF ceramics professor and member of the Fairbanks MidnightSun Fly Casters, Jim Brashear, who spoke about volunteer opportunities with a kids fly fishing camp that operates during the summer. The Alaska Blackfish sampling project has just begun, and volunteers are needed. If interested, please contact Stephanie Berkman (saberkman@alaska.edu). Finally, the Fairbanks student subunit is reintroducing weekly 'Fish Thursdays' where students, professors, and members of the broader community get together and chat at the UAF Pub.

Ice fishing at Birch Lake. Left: Emma Hopkins holding the first fish caught. Top-Right: Gabriel Smith and Diego Madrid taking a selfie with their best catch. Bottom-Right: Chelsea Clawson helping Megan Comolly handle the first fish she caught (ever!). Photo Credit: Stephanie Berkman and Gabriel Smith.

University of Alaska Fairbanks – Juneau
President: Casey McConnell

The UAF Juneau student group has been working to finalize written bylaws in an effort to become an official subunit of the Alaska Chapter of AFS. In February, students banned together to pick trash up off the streets surrounding Lena Point, part of an ongoing 'Adopt a Highway' program. In the coming months, members of the Juneau student group will continue discussions about potential research projects and outreach opportunities as a way of structuring group participation in upcoming activities.

New Student Subunit Representative for Alaska

Cheryl Barnes, a native of California, earned a B.S. in Marine Biology from San Diego State University. After working in the nonprofit sector for several years, she began pursuit of an M.S. in Fisheries and Conservation Biology through Moss Landing Marine Laboratories. While working on her Master's thesis, which investigated bio geographi effects on California Halibut life history, Barnes served as a program representative for California Sea Grant and was lead scientist for the California Collaborative Fisheries Research Program. She moved to Alaska to begin working on her Ph.D. at the Juneau Fisheries Division (University of Alaska Fairbanks [UAF]) in January 2015. Under the direction of Dr. Anne Beaudreau, Cheryl is making progress on two projects funded by the Pollock Conservation Cooperative Research Center. One project involves calculating an index of predation for Walleye Pollock for use in the Gulf of Alaska stock assessment and the other focuses on evaluating the potential for resource partitioning between Pacific Halibut and Arrowtooth Flounder. Cheryl is looking forward to getting to know everyone a bit better over the next few years and is excited to be a part of the AFS Alaska Chapter.

Cheryl Barnes, new AK student subunit representative. Photo courtesy of Cheryl Barnes

J. FRANCES ALLEN SCHOLARSHIP AWARD

AFS Equal Opportunities Section

The American Fisheries Society (AFS) is pleased to announce that applications are being accepted until April 1, 2016 for the J. Frances Allen Scholarship for a female doctoral fisheries student. The Scholarship was established in 1986 to honor Allen, who pioneered women's involvement in AFS and in the field of fisheries with the intent to encourage women to become fisheries professionals. Please contact the Committee Chair if you have any questions. Send electronic applications and recommendations (preferably in one mailing) to be received April 1, 2016 to: Jen Marsh, Committee Chair; email: jmmarsh@alaska.edu

ELIGIBILITY

The qualified applicant must be a female PhD student who was an AFS member as of December 31, 2015. The applicant must be conducting aquatic research in line with AFS objectives which include "all branches of fisheries science, including but not limited to aquatic biology, engineering, fish culture, limnology, oceanography, and sociology." Typically, this award is given to a student who has completed preliminary exams.

APPLICATION (Submit items A-D)

A. Resume with information in the following format:
   - Educational history: degrees, grade point average for each degree (overall and in major), relevant courses taken
   - Professional experience: positions held, levels of position, years of experience at each level
   - Publications: separated into refereed and other
   - Presentations: "first author" implies you presented it, "second author" assumes you did not, specify if otherwise
   - AFS participation: year joined, meeting attendance and participation, committee involvement, presentations at AFS meetings

B. Transcripts from all institutions of higher education: include enrollment in PhD program. Please include transcripts with your application, do not have them sent separately. You may scan an official transcript as long as it is of high quality.

C. Dissertation research proposal: do not exceed four single spaced pages (excluding title page, abstract, and references). The proposal must be submitted in the following single-spaced format with headings:
   - Title page: with project title, area of research (genetics, modeling, ecology, etc.), applicant's name and affiliation
   - Abstract: not to exceed one-half page, describing research proposed
   - Introduction: including project justification and background
   - Specific objectives and hypotheses if appropriate
   - Summary of procedures/methods: justification for choices including preliminary testing and references
   - Expected and preliminary results
   - Significance of research: include anticipated application of findings
   - Literature cited: follow Transactions of the American Fisheries Society format

D. Three letters of recommendation: one must be from the applicant's major advisor and one must be from an AFS member. Each letter should address 1) the applicant's promise as a fisheries scientist, 2) the potential of the applicant to complete their proposed work, and 3) significance of the applicant's proposed research to the advancement of fisheries science. If those writing letters prefer, they may email letters separately to the address below, but they must be received by the deadline and should contain the applicant's name along with J F Allen Scholarship in the subject heading. Please include in the nomination letter the nominee's title and full contact information (i.e. address, email, phone, etc.) to complete the package.

CRITERIA FOR SELECTION

Selection will be made by the J. Frances Allen Scholarship Committee of the AFS Equal Opportunity Section. Proposal reviews by scientists in appropriate fields will be solicited by the committee. Awardee will be selected on a competitive basis with an emphasis placed on research promise, scientific merit, and academic achievement. Submission of an application acknowledges the applicant's acceptance of the Committee's decision as final. Public announcement of the recipient will be made at the 2016 AFS Annual Meeting in Kansas City, Missouri. In addition, a written announcement will appear in Fisheries and the recipient will receive an official letter of award. The recipient is encouraged to present the results of their research at an Annual Meeting of AFS. It is expected that the research findings will be published in an appropriate fisheries journal upon project completion, at which time the support from this scholarship and AFS will be acknowledged.

The Search is on for a New Student Representative

By Jane Sullivan, WDAFS Student Representative

Jane with a Pacific Halibut. Photo by Zach Forst

It's been nearly two years since I was elected as the WDAFS Student Representative, and boy, what a two years it's been. I've become friends with fisheries students and professionals across the West and have built relationships that will last a life time. AFS is the oldest fisheries professional society in the world, and it is students and AFS leaders at all levels who keep the AFS vision alive.

My service to AFS has been infinitely more than a line item on my resume; it has been a life-changing and transformative experience. Over the last two years I have become the scientist and leader I hoped to one day be, and I have all the students and members of the WDAFS Executive Committee (Excom) to thank for fueling my passion for fisheries science and service to this field. The time has come to pass the baton, and it is with bittersweet excitement that I announce the call for candidates for the next WDAFS Student Representative! The Excom is looking for energetic, motivated individuals ready to hit the ground running in Fall 2016.

What will you do as the next WDAFS Student Rep?

- Travel to the WDAFS Annual Meeting and the mid-year WDAFS Excom meeting to lobby on behalf of students for funding and keep the Excom up-to-date on student activities
- Participate in monthly calls with the WD Excom and representatives from all the WD state chapters,
- Help organize and attend the annual WDAFS Student Colloquium
- Distribute scholarship information, travel grants, and general AFS news to the student subunit list

… and much, much more. Opportunities as the Student Rep are limitless, and the position can easily accommodate a creative individual with new ideas to engage students in AFS.

Interested? Send a one-paragraph biography/letter of interest and a photo to Travis Neebling (travis.neebling@wyo.gov) no later than May 31, 2016. Student reps must be a Western Division graduate or undergraduate student and AFS member in good standing. Student Representative terms begin and end with the AFS Annual Meeting – it is a one-year term with option to run for a second consecutive term. Candidates will be voted on via email poll by other student AFS members in good standing.

Thank you all for an amazing two years! Please send your questions and feedback to jysullivan@alaska.edu.

Sincerely,

Jane Sullivan
WDAFS Student Representative
MS Candidate, School of Fisheries and Ocean Sciences
University of Alaska Fairbanks

Henry Booke Retiring from WDAFS Committee

By Troy Brandt

Since 2011, I have been engaged with the Western Division AFS Investment Committee. During my participation, the committee has been chaired by the reputable Dr. Henry E. Booke, a long-time AFS member who moved to Corvallis in 2000 after retiring as the Director of the Silvio Conte Anadromous Fish Research Laboratory in Massachusetts.

While I attended conference calls for the WDAFS investment committee in early 2011, my first realization of Henry's contributions to WDAFS occurred when he received the WDAFS Award of Special Recognition during the 141st AFS Annual Meeting in Seattle. Over the last several years, I have had the good fortune to meet with Henry and fellow investment committee member Mary Buckman in Corvallis to discuss the investment portfolio. Even though the portfolio discussion is what brought us together, our meetings typically digressed into stories about AFS, life experiences, and family. I have appreciated Henry's insights on AFS, investing, and the need for AFS members who are willing to step up and take a risk for the betterment of the Society's investments.

In preparing this commemoration, Henry's understated humble nature required that I track down tidbits about his contributions to AFS as he provided me very little despite my repeated requests! The Tributary and the Oregon Chapter's Piscatorial Press provided hard won treasures. In short, Henry became an AFS member in 1961 (AFS #3143, 56 years of service!), he served as Wisconsin Chapter President and Northeastern Division President, and participated in or chaired many committees over the years including the Oregon Chapter's Education and Outreach Committee from 2000 to 2003. He also served on investment committees for the Northeastern Division and AFS. His professional contributions to the fisheries profession are equally impressive. Following his Ph.D. at University of Michigan, Henry was employed as a conservation research biologist for the New York Department of Environmental Conservation, the U.S. Fish & Wildlife Service, and the U.S. Geological Survey – Biological Service Division. During his career, he also held numerous appointments at Midwest and East Coast universities including the University of Michigan, Yale, Boston University, University of Wisconsin, and University of Massachusetts.

This past September, Henry announced his retirement from the WDAFS Investment Committee where he has dutifully served as committee chair since the inception of the WDAFS investment committee, which was formed after the 2000 WDAFS Annual Meeting. Under Henry's watch, the WDAFS investment portfolio has grown from an initial value of $50,000 contributed by WDAFS in 2001, to over $350,000 representing contributions from WDAFS, six chapters, a student subunit, and a section. Henry and his wife Norma spent countless hours tracking finicky markets and deftly adjusted the investment portfolio to capitalize on market trends. Their expertise, interest, and service to Oregon Chapter and WDAFS will be difficult, if not impossible, to replace. On behalf of the Oregon Chapter and the WDAFS Investment Committee, I would like to express my appreciation to Henry and Norma for their years of service to AFS and wish them well as they return to the East Coast to be closer to family in their post-AFS retirement.

Thank you, Henry, for your many years of committed service to the American Fisheries Society!

Why Be a Member of AFS?

By Luciano Chiaramonte, Tributary Newsletter co-editor

Most of you are already members of the American Fisheries Society (AFS) and are aware of the many benefits of belonging to the oldest and largest professional society of fisheries scientists in the world. However, many of you might know someone who would benefit from being a member. Or perhaps you have simply forgotten or never knew about all the benefits of being an AFS member.

Let us take a moment and consider the common thread that we can relate to. We all care about conserving fisheries resources by advancing the science, the policy, and the profession. Becoming a member of AFS is the first step toward achieving what, for many, is a lifelong objective of dedication to fisheries resources.

My favorite part about AFS membership is keeping up to date on the latest fisheries research. With the amount of new research studies completed each year, I now know why college textbooks come out with new editions seemingly every other year. Staying on the cutting edge of fisheries science is a full-time effort, but as an AFS member, there are many ways to do it. Annual meetings, whether at the local chapter, divisional, or national level are a great place to learn about the current state of the science. In addition to personally interacting with the renowned fisheries professionals you revere, many opportunities exist for forging new relationships and collaborations. Not mention the meetings are a ton of fun! Members can also stay well read with reduced cost access to the five peer reviewed AFS publications as well as the plethora of books and symposia proceedings available through the AFS bookstore.

All of the aforementioned resources are also means of communicating and disseminating the work you do. By giving poster or oral presentations at meetings, publishing research articles in peer reviewed journals and conference proceedings, and contributing to newsletters, you can share the important work you do with the scientific community.

In addition to consuming and producing the science, opportunities for professional development abound. By serving on an executive committee at the chapter, divisional, or national level, you can gain leadership and organizational skills that go beyond the scope of your daily job description and make you a well-rounded professional. Continuing education workshops at meetings exist to increase your training and specialized knowledge.

Professional certification by the AFS is also a professional development option that validates your credentials and accomplishments, and could ultimately benefit your career advancement.

Perhaps you feel I'm preaching to the choir at this point, but I am sure you all can pass along this message to someone you know. There are many folks out there involved with fish in some way or another, be it fly fishing guides, commercial fisherman, non-governmental agencies, biology teachers, or anyone else who simply cares about fish. These are the ones who will probably not read this newsletter, but should be aware of the option to become involved in such a great organization. So whether your interest lies in education, fisheries management, fish culture, fish health, fish habitat, or any of the 21 sections within AFS, there is a place for you. Special rates are available to students, early professionals, and retirees. Join today at http://fisheries.org.

The next Tributary will feature benefits and information about being an AFS Certified Professional. If you have comments or experiences you would like to share on this topic, please contact westerndivnewsletter@gmail.com

Welcome New and Recently Renewed WDAFS Members!

Judy Ackinclose
Stacey Alexander
Dale Allen
DJ Allison
Craig Amadio
Brett Anderson
Corissa Anderson
Catherine Austin
Brian Bader
Kendall Bakich
Dawn Barlow
Jason Barnes
Allie Bateman
Bradley Bauman
Aaon Becker
Robin Bjork
Kathryn Blair
Roger Bloom
Michael Bonoff
Scott Borgestad
Sam Bourret
Ken Bouwens
Randi bowman
Jill Brooks
Claire Buchanan
Joe Buchanan
Rebecca Buchanan
Demitria Burgoon
Andy Burke
Cody Byrne
Richard Cannon
Charles Card
C. Anela Choy
Lindsy Ciepiela
Christopher Claire
Philip Colombano
David Colpo
A. Marc Commandatore
Jeff Conn
Amanda Cousart
Joseph Cronrath
Chris Crookshanks
Carolynn Culver
Patrick Cuthbert
Rhonda Dasher
Andrew Delp
Colleen Detjens
David Dickey
Hannah Donaghe
Justin Dorathy
Nathan Dorff
Heather Dyer
Maura Eagan Moody
Jacob Eggers
John Elliott
Sharlin Erickson
Martin Etchemendy
Olin Feuerbacher
Ryan Fields
Jason Fortier
Michelle Fournet
Cynthia Fowler
Cody Freel
Katie Frenyea
Iwao Fujii
Mark Gamblin
Donovan German
Mackenzie Gilliam
Jerrad Goodell
Damon Goodman
Ragina Gray
Ethan Green
Joshua Gruver
Kevin Guadalupe
Nicole Hack
Thomas Hafen
Kristin Hall
Chris Hammersmark
Jessica hanawalt
James Harter
Jim Harvey
Jason Hassrick
Travis Hawks
Brian Healey
Andrew hillis
Stephanie Hogan
Becky Holloway
Claire Howell
Andrew huddleston
Stacy Huett
Sonia Ibarra
Russell Japuntich
Eric Johnson
Karen Kayfetz
Pat Kelly
Barbara Kelly Ringel
John Kesler
Christopher Knight
Katie Kobayashi
Matthew Kondratieff
Lauren Kremer
Cameron Kalak
Zack Lange
Kelly Larkin
Keith Lawrence
Chas Lawson
Chris Lee
Corey Lee
Mark Lewis
Judith Li
Mitch Lockhart
Ken Longenecker
Larry Lowe
Christopher Luk
Rari Marks
Jason Marsh
Art Martin
Dave Mays
Darcy McCarrick
Patrick McCormick
William McCraney
Eric McDermott
Andrew McDonnell
Devon McGillivary
Patsy Medina
Helen Meigs
Nellie Miles
Jacob Miller
Meryl mims
Peter Moniz
Sarah Montgomery
Jennifer Morella
Clayton Morgan
Samuel Mosle
Ken Muir
Melissa Muradian
Deidra Neeley
Virgil newberry
Devin Olsen
Elaine Onuegbe
Scott Opitz
Nicholas Ostroski
Mickala Palmer
Sarah Panek
Cordell Perkins
Alaina Pershall
Jeff Petersen
Caitlin Peterson
Garrett Pirece
Laurie Porter
Geoffrey Rabinovich
Max Ramos
Wendel Raymond
Benjamin Rich
Jon Rosenfield
Crystal Ross
Steven Rossi
Laurel Saito
Paul Sankovich
Matthew Scanlon
Thacia Schmidt
Geoffrey Schroeder
Gregory Schumer
Drew Scott
Kyle Scott
Brandon Senger
Kami Silverwood
Brian Simmons
Eric Simonsen
Devin Skidmore
Kayleigh Smith
Skyler Smith
Brenton Spies
Richard Staffeldt
Michael Starr
Kelly Stockton-Fiti
Michelle Succow
Joseph Suwada
Shelley Tattam
Jillian Taylor
James Terry
Natalie Testa
Braden Thatcher
Nathan Thomas
Kevin Thompson
Matthew Thorstensen
Erin Tomaras
Christine Trahan
Daniel Trujillo
Emily Ulrich
Kris Urquhart
Janelle Valladares
Kajsa Van de Riet
Rachel Van Horne
Tyler Walton
Kaycie Waters
Alexis Weaver
Colby Wells
Kirsten White
Lauren Wild
Sam Williams
Malte Wilmes
J. Christopher Wilson
Kevin Wilson
Beth Wood
Thomas Yockachonis
Liam Zarr

Important Dates and Deadlines

2016

March 15-17
Utah Chapter Annual Meeting
Happening now at the Hidden Springs Ranch in Altamont. Watch for details at: http://utah.fisheries.org/annual-meeting-2016/

March 21 – 24
2016 WDAFS Annual Meeting – Reno, NV
Visit "The Biggest Little City in the World!" Thank you to the Cal-Neva chapter for co-hosting. Walk-in registration available; details on page 4 & 22-24. See you there!

April 1
20th Annual AK-AFS Student Symposium
All SFOS students are invited to present. Abstracts are due March 22. For questions, contact Phil Ganz (pdganz@alaska.edu).

April 14 - 15
2016 WDAFS Student Colloquium
Hosted by the University of Wyoming student subunit, this year's colloquium will be in Lander, WY. Contact Richard Walker rwalke15@uwyo.edu for details. More information on page 12 of this newsletter.

May 23-27
AFS Planning & Executing Successful Rotenone & Antimycin Projects Workshop
This training has been accredited for continuing education hours in state Qualified Applicator License/Certificate programs. Register at http://fisheries.org or for more information contact Brian (briankarefinlayson@att.net) or Don (dskaar@mt.gov).

June 7-10
Western Fish Disease Workshop, AFS Fish Health Section Meeting, and USFWS Aquaculture Drug Approval Coordination Workshop
The event will be held at Snow King Hotel in Jackson Hole, WY. For more information see below.

2017

May 22-25
WDAFS Annual Meeting – Missoula, MT
Save the date! See page 5 of this newsletter and watch www.montanaafs.org for information.

August 20-24
AFS Annual Meeting - Tampa, FL
Details to come – watch www.fisheries.org for updates.

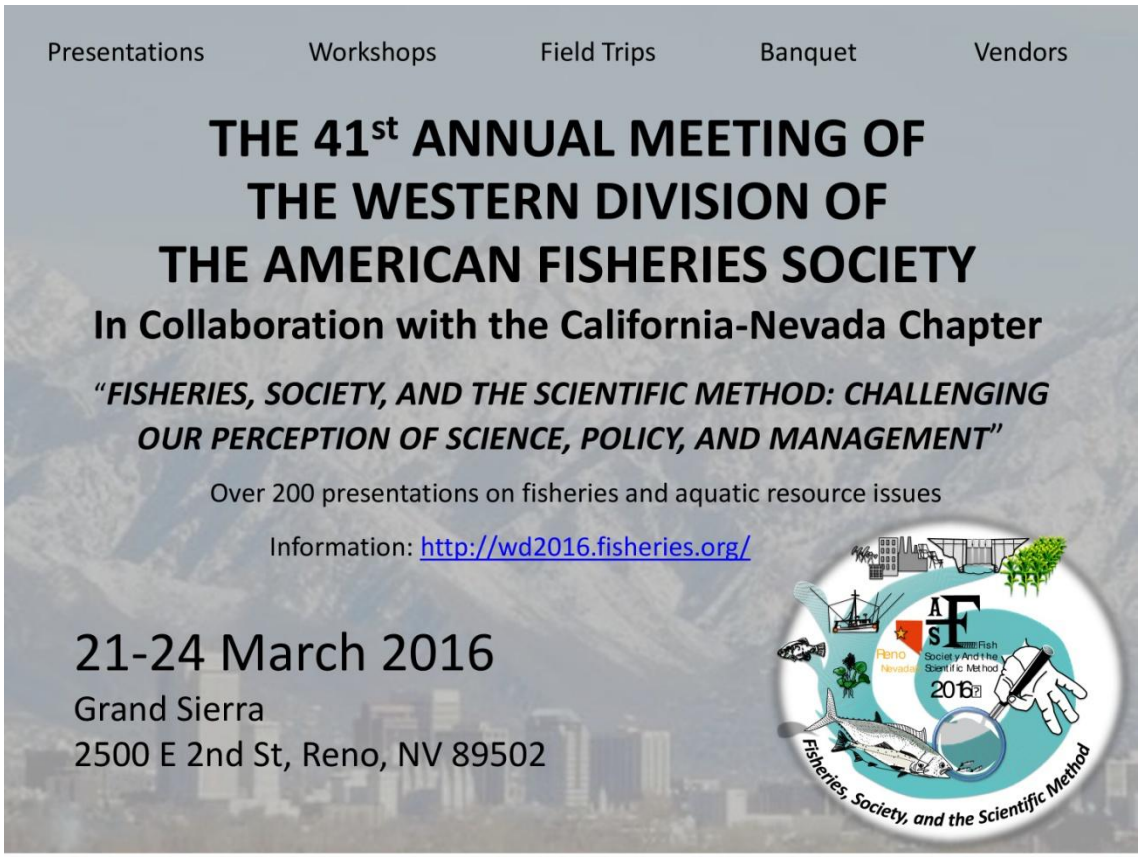
Got a date?

Submit dates and deadlines for your chapter or committee events to: westerndivnewsletter@gmail.org.

57th Western Fish Disease Workshop
AFS Fish Health Section Meeting, and
22nd US FWS Aquaculture
Drug Approval Coordination Workshop

Will take place June 7-10 *in* Jackson Hole, WY

Register online at https://www.123signup.com/register?id=pmkdv
More information is available at: www.facebook.com/WFDW2016 or www.afs-fhs.org/meetings/



Schedule at a Glance

For detailed schedule, go to wd2016.fisheries.org/schedule/
Registration, presentation uploads, and tradeshow run the extent of the meeting

Monday
Registration
Poster and tradeshow set up
Continuing education
Field trips
Presentation upload
Opening social

Tuesday
Opening remarks
Plenary session
Cal-Neva business lunch
Symposia and contributed papers
CDFW: Climate change and inland trout
Poster/tradeshow social
Student social

Wednesday
Spawning run
Symposia and contributed papers
Student symposia
WDAFS business lunch
Grand social/banquet

Thursday
Tradeshow take down
Poster take down
Symposia and contributed papers
Student mentor lunch
CDFW: Climate change and management

Don't miss the auction and raffle on Wednesday night! Keep reading to preview some of the prizes you could win!

AMERICAN FISHERIES SOCIETY
ORGANIZED 1870
IDAHO CHAPTER

Hells Canyon Sturgeon Fishing Trip

with Joe DuPont

Background

This is a trip for up to four lucky folks. The winning bidder(s) will be taken into the heart of Hells Canyon where some very old and very large fish live. Enjoy a day of whitewater jet-boating, wildlife, spectacular scenery, and sandy beaches. The best times to catch sturgeon are the spring and fall. Check out the pictures below showing some of the fish last year's winning bidders caught. Don't let this opportunity pass you by!

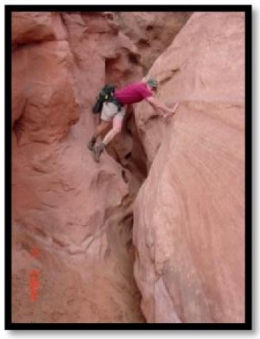
Contact Joe DuPont
208-553-8299
joe.dupont@idfg.idaho.gov

Guided Hiking Trip

to the Slot Canyons of the San Rafael Swell, Utah

by Eric Wagner, Utah Chapter AFS

The trip is for 3 days of guiding hiking in the canyons of the San Rafael Swell for a party of two. There are a wide variety of amazing canyons to choose from, some dry, some wet, requiring hiking through pools or intermittent streams, depending on weather. The area features a number of narrow slot canyons, pictographs, hoodoos, and the Muddy River. The timing of the trip and canyons targeted would be negotiated with the trip winners to tailor-make a trip. In the event of rain, alternate plans can be made. Trip winners would either be picked up at the Salt Lake Airport (Day 1 is travel) or could drive their own vehicle, meeting at a pre-determined location. Days 2, 3, 4 are spent in the San Rafael area, car camping at night. Day 5 is another travel day, returning to the airport and home.



I will provide food, a tent, camping gear (i.e., stove, camp chairs, lantern, cooler, kitchen utensils, etc.), and will guide the hikes. Trip winners will provide their own sleeping bag, water bottles, cameras, clothing, sunscreen, raingear, water sandals, and other personal gear. If hotel lodging is desired instead of camping, the trip winner is responsible for making reservations and paying for the stay.

I have explored and camped in many of the canyons of Utah over the last 20 years. I look forward to sharing this beautiful area with some lucky winners!


SAVE THE DATE
JUNE 7-10, 2016
AADAP
Aquatic Animal Drug Approval Partnership Program
57TH WESTERN FISH DISEASE WORKSHOP,
A.F.S. FISH HEALTH SECTION MEETING,
AND
22ND U.S.F.W.S. AQUACULTURE DRUG APPROVAL
COORDINATION WORKSHOP
JACKSON HOLE, WYOMING
AT THE SNOW KING HOTEL
PLEASE CONTACT BRANDON TARO (BRANDON.TARO@WYO.GOV), DEE DEE HAWK (DEEDEE.HAWK@WYO.GOV), TIM PRIDMORE (TIM.PRIDMORE@WYO.GOV), OR MOLLY BOWMAN (MOLLY_BOWMAN@FWS.GOV)
IF YOU HAVE ANY QUESTIONS