



# The Tributary

The Newsletter of the Western Division of the American Fisheries Association

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## 2017 Western Division AFS Annual Meeting

Photos by Brian Avila



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# President's Hook

By Cleve Steward, WDAFS President



Cleve with striped bass caught on Cape Cod - June 2017

This year's election of new WDAFS officers concluded recently, and I'm delighted to announce that Dan Dauwalter, who co-chairs the WDAFS Native Fish Committee, was elected Vice-President. Dan will ascend to the WDAFS presidency in 2020, which also marks the 150<sup>th</sup> year since the founding of the American Fisheries Society. You're going to have your hands full, Dan! Also elected was Tracy Wendt, current Tributary editor and former Student Representative on the WDAFS Executive Committee, who will take over as Secretary-Treasurer from Travis Neebling. Travis is taking a well-deserved sabbatical after serving four years on the WDAFS Executive Committee. Incidentally, Dan and Tracy both work for non-profit organizations. We are fortunate to have such dedicated and talented people stepping up to the plate.

I'm going to spend the next several paragraphs bragging on the 2017 Western Division annual meeting held in Missoula last month. It was a huge effort, and the 65+ volunteers from

Montana and other WDAFS Chapters who dedicated their time and effort so that the rest of us could enjoy a wonderful meeting deserve our thanks and gratitude.

This year's meeting theme was "Change and Continuity: Celebrating 50 years of Fisheries in the West." Like several other Western Division Chapters, the Montana Chapter recently passed the half-century mark; quite an achievement. To commemorate the event, the Chapter sent out invitations to its former Presidents, staged a special 50<sup>th</sup> Year Anniversary symposium, and threw a big offsite party on Wednesday night where beer, conversation, and reminiscences flowed like, well, like the Clark Fork River, only a stone's throw away.

When the Montana Chapter first proposed to host the meeting a few years back, we WDAFS officers were thrilled, partly because one of the Division's smaller Chapters had stepped up, but also because we were confident they'd put on a great meeting. However, knowing that meeting attendance tends to be positively correlated to Chapter size and that the proposed late May meeting date would bump up against the field season, we didn't expect more than 350 or so people to attend. The final tally was 457 attendees and over 250 oral and poster presentations, putting it on par with the WDAFS meeting held in Reno last year. I was told we drew people from 17 states, Canada, Mexico, Poland, and Pakistan.

[**HOOK** continued on page 3]

[HOOK continued from page 2]

At any AFS meeting, there are always a few symposia that stand out, both for the quality of presentations they comprise and the spirited discussions they engender. Befitting this year's meeting's theme, one of the more memorable symposia was organized by Fred Allendorf and Ryan Kovach, titled "Fifty Years of Fisheries Genetics: Allozymes to Genomes," who persuaded some of the nation's leading fisheries geneticists to present papers. Fred, who is Professor Emeritus at the University of Montana, also spoke at Tuesday's Opening Plenary session. Another symposium that created a buzz was the Environmental Flow session organized by Pat Saffel of Montana Fish, Wildlife & Parks. The meeting was highlighted by an extended presentation titled "Our Future in a Warming, Water-Stressed World" by well-known author and thought leader Robert Glennon, Professor of Law & Public Policy at the University of Arizona.

For those of you are regular AFS meeting attendees, it probably comes as no surprise that the Missoula meeting afforded excellent opportunities for folks to network and interact with colleagues. Students, professionals, and retirees enjoyed several days of unique field trips, jam packed technical sessions, and beer and wine-fueled evening socials. The meeting culminated with a Grand Banquet Social, featuring an eloquent talk by Kurt Fausch, Professor at Colorado State University (and winner of AFS's 2016 Award of Excellence), and ending with a raucous auction and raffle that filled the coffers of the University of Montana and Montana State University AFS Student Subunits.

It was bittersweet to have to part with everyone after the meeting ended. We took solace in the fact that planning for next year's WDAFS

meeting, to be hosted by the Alaska Chapter, is well-underway. As always, we welcome WDAFS members to help with the planning of the 2018 WDAFS annual meeting, to be held May 21-25 in Anchorage, Alaska. If interested, please visit the Alaska Chapter website (<https://www.afs-alaska.org/>) and contact either me or one of the meeting chairs discuss a potential role for you. Even if you aren't able to volunteer, please plan on attending the meeting. Anchorage is a wonderful city and a great jumping off point for side trips to the Kenai Peninsula (where halibut can be caught offshore and supersized Chinook salmon will be starting their run up the Kenai River), Denali National Park (celebrating its centennial anniversary), and all places wild in Alaska. Plan on taking advantage of the long hours of daylight and nice weather at that time of year to enjoy the many things Alaska has to offer.

I'd like to end this President's Hook -- the last one I'll be penning -- by personally thanking you for allowing me to serve as your President. I believe in the mission of AFS, and have done my best to help the Western Division fulfill its goals and support its members. I ask you to give next year's President, Brian Missildine, and those who follow him the opportunity to excel as your elected WDAFS representative.

I look forward to seeing you at future meetings or on a riverbank somewhere.

## TRIBUTARY EDITOR NEEDED

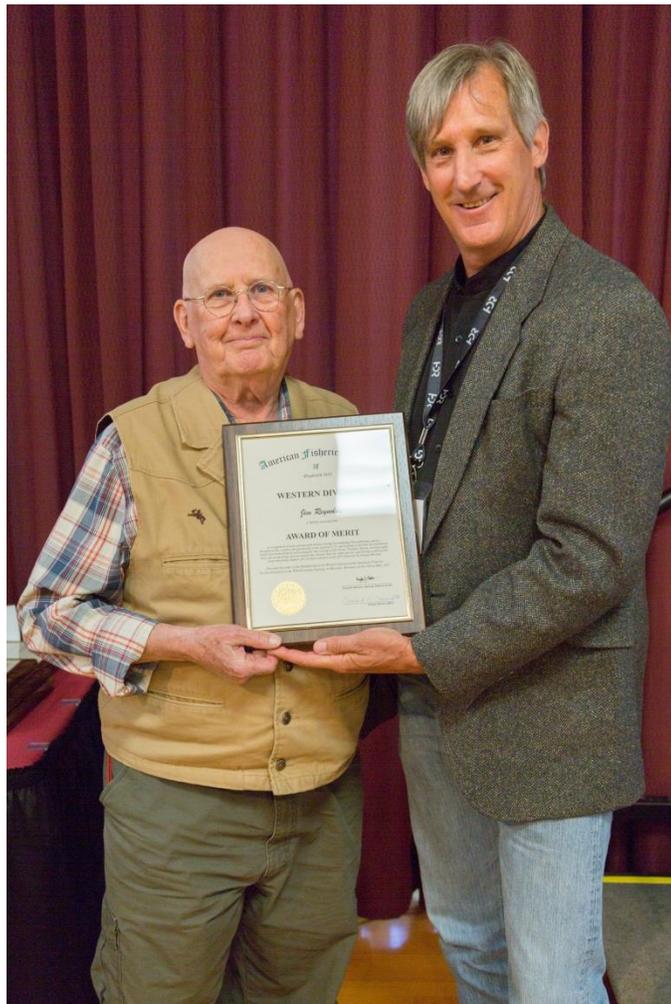
The Tributary is the quarterly newsletter of the Western Division of the American Fisheries Society. Current editor, Tracy Wendt, is moving to serve WDAFS in new ways and therefore we are looking for a replacement.

If you are interested in serving as the Tributary's editor, please send a letter of interest to [westerndivnewsletter@gmail.com](mailto:westerndivnewsletter@gmail.com) by July 15, 2017. If you have questions about the editor responsibilities, contact Tracy at [tracywendt@gmail.com](mailto:tracywendt@gmail.com)

# WDAFS awards presented for 2017

By Jim Bowker, WDAFS Past President

The WDAFS presented the following awards at their annual Business Meeting held on May 24<sup>th</sup> and in conjunction with the 2017 Annual WDAFS Meeting in Missoula. We thank Kurt Fausch, Jan Dean, Ramona Swanson and the CA/NV Chapter, Ted Smith, Mark Clifford, and Jim Bowker for nominating those that won individual awards. We all know individuals or groups that are worthy of recognition and will seek new WDAFS Award nominations next year.



Jim Reynolds, University of Alaska Fairbanks, retired, accepts the WDAFS Award of Merit

**Award of Merit - Jim Reynolds, University of Alaska - Fairbanks, retired** in recognition of his passion and tireless energy in conducting Electrofishing courses throughout the country and specifically in the western U. S. and helping to develop the foundation of fish electroshocking by advocating for the concept of the Power Transfer Theory, having taught more electroshocking courses around the country than any other person, and having authored the electroshocking chapters for all three editions of the AFS Fisheries Technique Manual.

**Award of Excellence - Dr. Jason Dunham, Forest and Rangeland Ecosystem Science Center, U.S. Geological Survey --** in recognition for his outstanding and sustained professional achievements in fisheries science focused on resources in the western U.S. during the last 20 years and for his leadership in multiple successful collaborations at the interface between aquatic science and natural resource management.

**Award of Excellence - Dr. Peter Moyle, Santa Cruz - University of California, Davis -** in recognition for sharing his knowledge of California's inland fishes to influence public policy decisions, educate the public, and find solutions to conflicts over water, his expertise in dealing with problems in the San Francisco Estuary, in regulated rivers of the Central Valley and other areas of California, in waters of the Sierra Nevada, and in coastal streams and for promoting the conservation of fisheries resources across the West and beyond.

[AWARDS continued on page 5]

[AWARDS continued from page 4]



Dr. Peter Moyle receives the WDAFS Award of Excellence; Pictured with Jim Hobbs, CalNeve Chapter

**Conservation Achievement Award - California Department of Fish and Wildlife**— in recognition of the hatchery staff, hatchery scientists, and wild trout biologists who succeeded in saving several unique populations of trout and salmon that were otherwise in peril from prolonged and unprecedented drought. Using the fish rescue matrix developed by the Department’s Fisheries Branch and statewide Fisheries Management Committee, the Department was successful in providing safe haven to several at-risk populations including (1) Southern Oregon-Northern California Coast Coho Salmon, (2) McCloud River Redband Trout, (3) California Central Valley Steelhead, (4) Sacramento Perch, (5) Unarmored Threespine Stickleback, (6) California Golden Trout, and (7) land-locked Southern California Steelhead.



Colorado Parks and Wildlife representative receiving the WDAFS Conservation Achievement Award

**Conservation Achievement Award - Colorado Parks and Wildlife Native Aquatic Species Restoration Facility** -- in recognition to the agency and specifically the Native Aquatic Species Restoration Facility staff who enabled the conservation of rare aquatic native species through captive propagation, genetic conservation, scientific research, and public education and awareness. As one of the first programs of its kind in the nation, the Facility is to be congratulated for its many accomplishments, including the propagation of various native fish and amphibian species, and perhaps more importantly, conducting research to determine the water quality, health and nutrition, and spawning and habitat requirements unique to each species.

[AWARDS continued on page 6]

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**Award of Special Recognition - Hilda Sexauer, Wyoming Game and Fish Department and past WD officer**– in recognition of the time and effort she extended to accomplish as much as she did during her term as WDAFS officer. Her efforts kept the WDAFS ship afloat and moving in the right direction, she always seemed to have an eye on the “What else can the WDAFS do?” horizon, and led to more active engagement of the Division with Chapters over issues of environmental concern.



**Dave Lentz accepts the WDAFS Award of Special Recognition**

**Award of Special Recognition - Dave Lentz, California Department of Fish and Wildlife; Fisheries Branch and past WD Time and Place Committee Chair**– in recognition for fulfilling his responsibilities as the Chair of the Time and Place committee for nearly two decades and for getting commitments from Western Division Chapters to host meetings 3-4 yrs down the road. His efforts have allowed host chapters to lock in hotel conference and lodging rooms early resulting in cost-savings and a diminished stress for all involved in the meeting planning.

**Award of Special Recognition - Jane Sullivan, Alaska Sea Grant Fellowship program and past WD Student Representative** - in recognition for exceeding expectations in fulfilling her responsibilities as the Western Division AFS Student Liaison. Her passion and commitment were evident in virtually everything she did and she was recognized by the Western Division Executive Committee members for how much she advocated for students.

**Outstanding Chapter** – The Oregon Chapter won this award for an unprecedented 13<sup>th</sup> time!

**Outstanding Student Subunit** – The Santa Cruz – Monterey Bay Area Subunit, a newly formed subunit!

## Share your news!

Let the Division know what your committee, Chapter or Subunit is up to by writing a piece for the WDAFS Tributary. Contact [westerndivnewsletter@gmail.com](mailto:westerndivnewsletter@gmail.com)

# 2017 WDAFS riparian challenge awards

By Tracy Wendt, Committee Chair

Each year, the Riparian, Watershed, and Habitat committee presents the Riparian Challenge Award to up to three projects that embody on-the-ground accomplishments in riparian habitat management in the Western Division. One award may be given in each of the following categories: Bureau of Land Management, US Forest Service, and other entity. This year, we received applications and nominations for projects representing 10 Western Division states. This included four BLM projects, seven USFS projects, and 20 projects by other entities. The competition was tough as this year's entries were all excellent projects. The winning efforts in 2017 stood out as exceptional examples of collaborative projects with well-planned monitoring and outreach efforts. Awards were presented at the 2017 WDAFS meeting in Missoula.

The 2017 WDAFS Riparian Challenge winners are:

## **BLM**

### **Dolores River Restoration Partnership**

Tres Rios (CO), Uncompahgre (CO), Grand Junction (CO) and Moab (UT) BLM Field Offices

## **USFS**

### **Deer Creek Floodplain Enhancement Project**

Willamette National Forest, McKenzie River Ranger District

## **Other Entity**

### **Salmon River Restoration**

Sandy River Basin Partners



# 2017 WDAFS scholarships

By Bob Greswell, Committee Chair

The WDAFS Scholarship committee completed its evaluation of graduate students for the 2017 WDAFS scholarships. There were 17 applicants (9 MS and 8 PhD) for three awards, representing 13 institutions in nine western states and one Canadian province. The choice was extremely difficult as always. This was an outstanding group of students (again)! The awardees are:

## Eugene Maughan Scholarship

MS Student

**Chelsea Clawson**

University of Alaska, Fairbanks

PhD Student

**Stephen Klobucar**

Utah State University

## Sustainable Fisheries Foundation William Trachtenberg Scholarship

PhD Student

**Bryan Maitland**

University of Wyoming

Thank you to the WDAFS Scholarship Committee members: Colleen Caldwell, New Mexico Cooperative Fishery Research Unit, New Mexico State University, Las Cruces, New Mexico; Pat Connolly, Emeritus, USGS Western Fisheries Research Center, Columbia River Research Laboratory, Cook, Washington; Lisa Eby, University of Montana, Missoula Montana; Peggy Wilzbach, California Cooperative Fishery Research Unit, Humboldt State University, Arcata, California; and Bob Greswell (Chair), Emeritus, USGS Northern Rocky Mountain Science Center, Bozeman, Montana.



## Stuck in a rut in Anaconda? Crash a cutthroat spawning party!

By Bryan Maitland and Rich Walker

Following a fantastic 2017 WDAFS meeting in Missoula, MT and a few days gallivanting, hot-springing, and morel/fiddlehead foraging in the Bitterroot-Selway Wilderness, the University of Wyoming crew (Lindsay Ciepiela, Juliet Slutzer, Rich, and Bryan) began our long haul back to Laramie on Memorial Day. Little did we know, trouble was around the bend. Not far outside Missoula, we found ourselves stranded on the side of I-90. And what we at first thought was a flat tire, turned out in fact a lot worse; the u-joint and drive shaft had broken off the truck, and now lay on the highway a few yards behind us. Now stuck in a peculiar rut, we called AAA, and within 45 minutes, a tow truck arrived, and the Tacoma was loaded.

The exceedingly nice folks at Gilboy's Towing got us into Butte, MT, where they dropped us at the local Comfort Inn, who provided us with a *stranded traveler discount* for the room, hot soup, and overall great service. Discovering the next morning that parts needed to be shipped in from Memphis (Toyotas...), we found a place to caffeinate ourselves, and catch up on work/emails; the Hummingbird Café is well worth a stop if you find yourself in Butte. It was at this café that Rich came to the realization that his Utah State University colleague, Julie Golla (Wildlife Biologist, Montana Fish, Wildlife, and Parks, WFMP), recently moved to Anaconda. Upon hearing about our predicament, Julie and her

partner Danny Kinka (USU PhD candidate & Utah Public Media science reporter) promptly drove over to collect us, and put us up in their cozy new Anaconda home.

Naturally, the first thing Julie suggested to us fish nerds was a trip to the Washoe Fish Hatchery, MFWP's native Westslope Cutthroat Trout hatchery. At this beautifully decorated facility – with well-written and curated public information displays – the hatchery staff were in the middle of a brood stock spawning event. These top-notch biologists – Angela Smith (Hatchery Manager), Kerrie Berger (Hatchery Staff), and Eileen Ryce (former MFWP's Hatchery Bureau Chief, now administrator in the Fish Division) – were happy to let us observe. But we couldn't resist... As any of you would have done, we asked to get in on the action.

Minutes later in neoprene, we were in the water. Following some instruction, we got to work massaging ripe eggs out of spectacularly colored Cutthroat. In the sake of full disclosure, Lindsay [ANACONDA continued on page 10]



[ANACONDA continued from page 9]  
and Juliet did great, getting all the eggs out of each fish before Angela, Kerrie, or Eileen checked our work... Rich and Bryan however, well let's just say we got *most* of them out, relying on the gals to finish our sub-par work. Watching the mixing of milt and eggs was also interesting, a process of gentle swirling, followed by a 5-minute soak in iodine to ensure cleanliness. Afterwards, Kerrie brought us around the facility where we observed the rest of the Cutthroat's life-history unfold: egg growth, egg cleaning, and egg sorting, and all the raceways holding fingerling and fry. Kerrie even showed us their triploid stock, which they produce by subjecting just-fertilized eggs to a pressure-cooker at almost 10,000 psi! Needless to say, it was a wonderfully uplifting experience.

We were also privy to other neat Anaconda institutions and activities, courtesy of Julie and

Danny's desire to provide a proper tour of their town. We visited the historic Washoe Theater (opened 1931) to catch the new Guardians of the Galaxy film, enjoyed locally crafted brews (yes, from Butte and Anaconda), and released some pent up driving energy hiking A-mountain on one branch of the town's myriad trails.

So what is our takeaway from this little adventure? Make friends, network, keep those relationships strong, and wholeheartedly embrace life when it leaves you in a rut. Maybe, just maybe, one of those friends might be close by, and you might end up having some serious fun, learn and experience a new place, and even make some new friends. Make lemonade out those sour lemons. Because at the end of the day, good friends, good brew, and fish get all of us through the day. Also, AAA is wonderful, and be sure your mechanic greases your u-joints! (@Bryanmaitland; @richwalkerfish)

## BYU-Idaho student subunit update

We were excited to celebrate our one year anniversary as an AFS student subunit in conjunction with Earth Day by holding a public lands cleanup and barbeque. We went to two different recreational access points on the Snake River and collected over 300 lbs. of trash. Some onlookers decided to pitch in with the effort after being impressed by the students' hard work and willingness to clean up our local water access spots. We have continued our seminar series by hosting biologists from Idaho Fish and Game, United States Forest Service, and a local consulting firm. As we only have an undergraduate program at our university, these speakers provide great exposure for the students about fisheries career options as well as volunteer and employment opportunities while they are still students. In May, a group of fisheries students visited Grace Fish Hatchery in southeast Idaho. After a tour of the facility, students

assisted hatchery personnel with spawning Bonneville cutthroat trout for the conservation hatchery program for this species. While our student subunit is still in its infant stages, we have greatly appreciated the support received by local biologists, the Idaho Chapter, and the Western Division.



Fisheries students help Wayne Fowler, fish culturist at Grace Fish Hatchery, collect Bonneville cutthroat trout to artificially spawn for the conservation hatchery program.

# Before the mine

By Kendra Zamzow, CSP2

Most mining projects never get off the ground. Drilling may go on for a couple of years, maybe even a decade, and then a decision may be made to abandon the site. While the impacts on mines – as well as mitigations that reduce impacts – are well documented, the impacts from exploration are generally less clear.

Many readers will be familiar with the Pebble mine – the copper-gold ore deposit at the headwaters of streams that feed Bristol Bay, Alaska. Bristol Bay is well-known as the largest wild commercial salmon fishery in the world, and the salmon are critical to subsistence as well. Sport-fishing is also done for both salmon and trophy rainbow trout not far from the proposed mine location. The mine has been controversial because of the probability of leaching copper through the alluvial material and wetlands that make up the landscape, into salmon-bearing waters.

In August 2016, the United Tribes of Bristol Bay, a consortium of tribes in Southwest Alaska, asked the Center for Science in Public Participation (CSP2) to investigate whether exploration activities themselves had caused any damage to the landscape or posed a risk to fish habitat.

After five days of helicopter-based field sampling at 101 sites, CSP2 determined that there were problems caused by drill waste disposal and by inadequate drill hole reclamation. About half of the sites were reclaimed in good condition; these were frequently sites that were drilled away from

wetlands or shallow “geotechnical” holes (200 feet deep or less) that were drilled to determine bedrock competency to plan tailings dams, rather than the deeper holes (up to 6,000 feet deep) drilled to locate the ore zone.

Importantly, free-flowing acid drainage was not observed. However, acidic, high-copper drill cuttings were observed on the landscape. Drilling requires a slurry of drilling muds to cool the drill bit and move the drill cuttings up and out of the drill hole as the drill bores through bedrock to obtain cores that will tell them where the ore zone is located. Frequently the drilling muds that came up out of the hole were disposed of, legally, by pumping them out onto the tundra. Whether the muds themselves cause damage is a debate,

but there is now definitive evidence that drill cuttings from the ore zone, when they settle out onto the landscape with the drilling muds,

[MINE continued on page 12]



*This site, drilled in 2009, is listed by PLP as “converted to active well”, although clearly the drill stem has been removed. It appears that attempts to stop the artesian flow had failed, and water elevated in manganese, sodium, and sulfate flowed into vegetation.*

[MINE continued from page 11]

oxidize, become acidic (pH near 3.0), and release high concentrations of copper. This was a key finding. Seven general areas were documented that had this type of contamination.

Another type of contamination was observed where drill holes had become artesian. Of five artesian sites that CSP2 tested, two were releasing water very high in copper (76-215 µg/L; most surface water in the area is less than 1 µg/L). Some drill stems had bolts, valves, or plates welded to them and appeared to be an attempt to contain artesian water. Where these are not intended as a water source, they need to be plugged and reclaimed. The evidence of uncontained artesian sites suggests that there may be significant difficulty in permanently reclaiming some drill holes.

There is also an indication that the drill waste disposal method of running drill muds through trenches in order to settle cuttings may be contaminating wetlands. The trenches were unlined. At one site where a groundwater spring 200 feet downgradient from a trench was sampled during drilling (2011) and again in August 2016, several elements, including copper, had increased by at least an order of magnitude. Copper increased from 0.25 µg/L to 1.8 µg/L, arsenic increased from < 0.15 µg/L to 0.7 µg/L, iron increased from 0.09 µg/L to 7 µg/L, manganese increased from 6 µg/L to 336 µg/L; iron and manganese went from meeting to exceeding water quality criteria. It is possible that the groundwater table

is rising up during snowmelt and rains, and rinsing through the unlined trench, carrying contaminants downgradient. If this is occurring across a widespread area, drilling practices should be changed to the use of lined, rather than unlined trenches.

In April 2017, the Alaska DNR determined that the Pebble Limited Partnership, LLC (PLP) should receive their land use permit, but only under the conditions that they put up a \$2 million reclamation bond and pay particular attention to closing 138 specific drill holes.

We are encouraged that basic science and sampling may have played a role in this decision, and strongly encourage state regulatory agencies to develop sampling plans when making reclamation inspections. We also encourage states to include fisheries managers, e.g. Alaska Department of Fish and Game, when making inspections, as they may have relevant perspectives on the impact of sites on fish habitat.



# Assessing disease impacts to wild marine fishes

*The case of viral Hemorrhagic Septicemia in Pacific Herring*

By Paul Hershberger, USGS

Disease impacts are readily observable and quantifiable in most fish culture situations; however, the contribution of disease to mortality patterns in populations of wild marine fishes is extremely difficult to assess. Aside from periodic reports of disease epizootics in wild marine fishes, mortality from infectious and parasitic diseases typically goes unnoticed because of observational difficulties and a paucity of disease surveillance efforts. This is unfortunate, as the contributions of punctuated mortality events from disease could assist in our understanding of failed recruitments, population crashes, and changing demographics that often occur because of unknown mortality factors.

These observational difficulties are especially troublesome in Pacific herring, a highly mobile species that commonly experiences punctuated population declines and failed recruitment events for unknown reasons. Several diseases, including viral hemorrhagic septicemia (VHS), have been hypothesized to contribute to these sudden demographic changes; however cause-and-effect relationships have not yet been established. Periodic VHS outbreaks cause recurring fish kills in populations of Pacific herring; however, the contribution of these epizootics to observed demographic changes remains unknown. Unfortunately, the

surveillance of wild herring populations for prevalence of VHS virus is ineffective because the course of the disease is so rapid. For example, a subsamples population can return all negative samples one week, but a disease outbreak can occur several weeks later. Further, assessment of the same population several weeks after the epizootic would – once again – return all negative samples.

We have addressed these VHS surveillance challenges in Pacific herring by optimizing a tool that is capable of assessing whether populations and / or specific age cohorts represent the survivors of a previously undetected VHS epizootic. The tool, referred to as a plaque neutralizing test, is capable of detecting antibodies to the virus that occur in the serum of VHS survivors. These data, when paired with annual population size and demographic data from Pacific herring stock assessment surveys, can be used to evaluate whether population declines, loss of specific age cohorts, or failed recruitment events co-occurred with prior exposure to VHS virus.

*Paul Hershberger*  
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## Vote on WDAFS bylaws

At the end of this newsletter is a document that shows some proposed changes to the Western Division of the American Fisheries Society bylaws. You will soon be receiving an email from WDAFS asking for you to vote on these changes. We appreciate you taking the time to vote. If you have any questions, please contact Jackie Watson at [jackiewatsonafs@gmail.com](mailto:jackiewatsonafs@gmail.com).

## WHAT?! You don't receive emails from WDAFS?

If you don't receive periodic emails from the Western Division, drop a note to Dave Lentz at [dlentz@dfg.ca.gov](mailto:dlentz@dfg.ca.gov) and ask to be added to the WDAFS email distribution list. This is a great way to get news, including links to the latest Tributary, from across the division.

## New scholarship to honor Kurt Fausch

Dr. Kurt Fausch retired this year after 35 years in the Department of Fish, Wildlife and Conservation Biology at Colorado State University. Kurt is well recognized as one of the world's premier stream ecologists, but also for his tireless devotion to students. To honor Kurt's research, teaching, and mentoring legacy his colleagues, former students, and friends are establishing the Kurt Fausch-Shigeru Nakano Scholarship in Fisheries and Aquatic Sciences Endowment. Naming the scholarship after both Kurt and his longtime friend and colleague acknowledges and honors the strong influence Shigeru had on the Riverscapes research legacy and programs that continue to this day. Once endowed, the scholarship will, in perpetuity, provide future students the opportunity to pursue their life's passion and achieve their full

potential. Patrick Kocovsky ('93, Fishery Biology) and his wife, M. Danielle Young ('93, English), are initiating the effort with a \$5,000 donation toward a minimum goal of \$25,000 to endow the scholarship. The Fausch family has provided another \$5,000 toward the goal. If you would like to contribute to this scholarship, you can either mail a check to the CSU Foundation at P.O. Box 1870, Fort Collins, CO 80522-1870 (please make checks payable to the CSU Foundation), or go to <https://advancing.colostate.edu/FAUSCH-NAKANO> to make a gift online. Please contact Scott Webb at (970) 491-3594 or [Scott.Webb@colostate.edu](mailto:Scott.Webb@colostate.edu) with any questions, and thank you for your support of the Kurt Fausch-Shigeru Nakano Scholarship in Fisheries and Aquatic Sciences Endowment.



*Dr. Kurt Fausch with former students.*

*Voices and Vices*

# Beer, fish, networking, and my dad

By Tracy Wendt

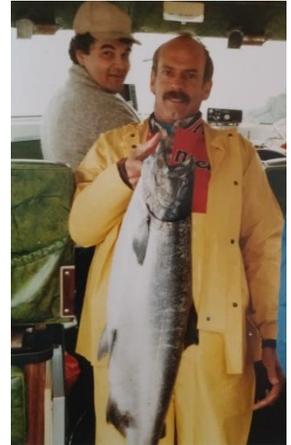
My plan was to write a funny little column about my experiences as part of the planning committee for the 2017 meeting, highlighting the complexities of making sure there is adequate beer for 400+ fisheries professionals. However, during a bout of writers block, I got distracted and ended up browsing through a box of family photos and realized what I really needed to write about: my dad. In addition to being the reason I'm here in the obvious sense, he's also the reason I'm HERE here, in this profession, and probably even the reason I'm part of AFS.

Growing up in little ol' Ellensburg, Washington, my dad ran the local beer distribution business. On many Saturdays, my brother and I would spend mornings in the warehouse, climbing on cases of beer and rearranging them into forts. Then we'd go with Dad on deliveries, riding on kegs in the back of the truck. While Dad did his business, we ate snacks the proprietors gave us. By the time I was 8 I had been in every brewery in town and even had a favorite (the one that gave us strawberry soda).

Next, we would go to Campus U-Tote-Em for ice cream, going through the back door, right into the kitchen where patrons usually weren't allowed. We'd watch Dad and Mr. Rossow roll dice to determine who would pay for our ice cream cones. I always thought Dad won every time because I never saw any money change hands, though now I realize that wasn't really the point of the dice roll after all – it was just two guys hanging out.

Looking back, I think these mornings with Dad are where I learned to network. As I watched him work, joke, or share beers, I thought Dad knew everyone in town. Years later, after a brief retirement, he went back to work at a title company where he won awards for top sales. He was a natural networker, and I think I may have picked up on some of those skills, having been immersed in them from a young

age. When I went to my first AFS meeting with the Montana Chapter I was nervous, but before long, I was getting to know people and now, after just a few short years in this profession, I am an active member and can confidently go into any room, sure I will know *someone*.



And then there's the fish. I remember late nights, watering mom's flower beds to get worms to rise then collecting them for fishing the next day. We'd get up early, load into the Blazer with Dad, a box of 8-track tapes, fishing gear, and a full cooler and head out to the freeway lakes or the Yakima River for a day of fishing. Nearly ten years ago, when I decided to go back to school and pursue a career in *something outdoors*, it was memories of these days – the smell of cottonwoods, the roar of the river or gentle waves of the lake, watching my bobber and hoping for a rainbow trout for dinner – that led me to a new career in fisheries.

Three years ago at the WDAFS meeting in Mazatlan, I talked Travis Neebling into parasailing with me, something I promised my dad I'd do if I ever got a chance. Circumstances (wind, my fear) kept putting our adventure off. The morning we were finally able to fly, I realized it was the 10th anniversary of my dad's passing. It was a huge moment for me: not only did I attempt to tackle my fear of heights, but as I screamed, cried, and even peed a little up in the sky above the Mazatlan beach, I realized everything I was doing at that moment could probably be credited to my dad. My current career and associated adventures are all due to beer, fish, and the world's best networker – my dad.

*Pam Sponholtz, you're on the hook for the fall issue!*

## Save these dates in 2017

### July 12-16

*41<sup>st</sup> Annual Larval Fish Conference*

*Austin, TX*

### JULY 16-20

*World Recreational Fishing Conference*

*Victoria, Canada*

### July 31- August 3

*23<sup>rd</sup> Annual USFWS Aquatic Animal Drug Approval*

*Coordination Workshop*

*Bozeman, MT*

### August 13-19

*Health and Colony Management of Laboratory Fish*

*Salisbury, ME*

### August 20-24

*AFS Annual Meeting*

*Tampa, FL*

### September 10-15

*13<sup>th</sup> International Symposium on the Biology and Management of Coregonid Fishes*

*Bayfield, WI*

### September 26-29

*Wild Trout Symposium XII*

*West Yellowstone, MT*

### September 26-28

*Salvelinus Confluentus Curiosity Society Meeting*

*Clackamas River Basin, OR*

The Native Fish Committee of the Oregon Chapter American Fisheries Society Presents

## The 2017 Nongame Native Fish Workshop

This year's Featured Species are

### Pit Sculpin and Pit-Klamath Brook Lamprey



*Pit Sculpin*



*Pit-Klamath Brook Lamprey*

### September 6-7, 2017

#### Lakeview, Oregon

The Native Fish Committee of the Oregon Chapter American Fisheries Society organizes annual field workshops featuring nongame native fish in Oregon. This year, the committee will study the Pit Sculpin and Pit-Klamath Brook Lamprey of the Goose Lake Basin in Southern Oregon. Species experts will lead discussions and field sampling to assist workshop participants to understand the biology of the species and associated management challenges. This is an opportunity to experience the species and their habitat.

There is no charge to participate in the workshop. All biologists are welcome to participate and students are encouraged to attend. We will camp the night of September 6 at Cottonwood Campground, 45 minutes NW of Lakeview, Oregon.

<https://www.recreation.gov/recreationalAreaDetails.do?contractCode=NRSO&parkId=246246&facilityId=246246&agencyCode=70903>

Dinner will be provided September 6, but bring your own food for other meals. Potable water occurs at the campground. Bring camping and field gear.

The workshop will start 1:00 PM September 6 at the conference room in the Fremont-Winema National Forest Headquarters in Lakeview, Or (1301 South G Street, Lakeview, Oregon) and will end at 100 PM on September 7. **If you plan to attend, please RSVP James Capurso, OCAFS Native Fish Committee Chair, at [jcapurso@fs.fed.us](mailto:jcapurso@fs.fed.us).**

Photos courtesy of Paul Scheerer, ODFW

# Western Division AFS Bylaws

## SECTION I. Division Name and Objectives.

1. Pursuant to the Constitution of the American Fisheries Society (hereinafter referred to as the Society) there has been established within the Society a Western Division (hereinafter referred to as the Division).
2. The objectives of the Division shall be those set forth in Article I of the Constitution of the Society, and additional objectives include:
  - A. Provide a forum for the exchange of technical and policy information common to and of interest to the Division membership.
  - B. Promote awareness among Division members, public officials, and the general public of the nature and extent of fishery matters of concern to the Division membership.
  - C. Facilitate the timely exchange of information among Division units, Student Subunits, and members of the Division.
  - D. Provide a vehicle for the active participation of individual members in Society business and professional activities.

## SECTION II. Division Membership.

1. The membership of the Division shall be those Society members in good standing residing in the States of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming in the United States of America; U.S. islands and trust territories in the West Pacific Ocean (including the islands of Midway, Baker, Jarvis, Wake, Palmyra, and Howland; Johnston Atoll; Commonwealth of the North Mariana Islands; and Territories of Guam and American Samoa); the Provinces of British Columbia and the Yukon Territory in Canada; Mexico; and individuals residing in other Divisions who elect to be members of the Western Division.
2. All Society members residing in places identified in Section II.1 are automatically members of the Division. They may elect to be a member of another Division upon notification of the Executive Director of the Society in writing.
3. Individuals residing in places other than those identified in Section II.1 may become Division members upon notification of the Executive Director of the Society in writing.
4. Only a Society member of the Division, in good standing, may be a voting member, hold office, or chair a committee.

## SECTION III. Division Officers and Representatives.

1. The officers of the Division shall be the President, President-Elect, Vice President, Secretary-Treasurer, and Past President. The Executive Committee of the Division comprises these officers, the elected Student Representative (non-voting), and the elected Division Chapter Presidents.

- A. All officer candidates shall be Society members in good standing for at least two years immediately preceding their nomination. Candidates should have served as officers within a Chapter, another Division or in a similar position with another organization prior to seeking candidacy in the Division. ~~They must~~Candidates should have attended a Division annual meeting in one of the preceding three years.
  - B. Candidates for officer positions shall be nominated by the Nominating Committee. Officers shall be elected by a majority of ballots cast from the membership.
  - C. The Division President, President-Elect, Vice President, and Past President shall serve for one year in each office for a four year tenure, and shall be ineligible for election to the office of Vice President for a period of one year after the expiration of their term.
  - D. The Secretary-Treasurer shall serve for a period of two years and shall be eligible for re-election for a maximum of two consecutive terms. Individuals may not run again for Secretary-Treasurer for a year after completing their second term.
  - E. The officers and representatives shall assume office at such time as the Society's officers are installed.
  - F. If an elected officer or representative cannot complete their term of office, the Executive Committee is authorized to appoint a replacement to serve the remainder of the unexpired term until the annual election is held.
  - G. Division officers and representatives shall receive no salary or other compensation. Expenses may be defrayed from Division funds when authorized by the Executive Committee.
  - H. An officer may be removed from office for negligence, lack of performance, or other reasons substantially detrimental to the Division upon 2/3 vote by the remainder of the Executive Committee, in which case the Executive Committee shall appoint a replacement to serve the remainder of the unexpired term.
  - I. Candidates for the Student Representative position shall be in good standing as undergraduate or graduate student members of the Society from a recognized Division Chapter. Candidates will be self-nominated or nominated by another Society member in the Division. The Student Representative shall be elected by a majority of ballots cast only from students in good standing with either a recognized Student Subunit or Chapter within the Division.
  - J. The Student Representative shall serve for a period of one year and shall be eligible for re-election for a maximum of two consecutive terms. Individuals may not run again for Student Representative for a year after completing their second term.
2. As defined in the Society's Constitution, the representatives for the Division in Society matters shall be the Division Representatives to the Society Governing Board, Society Management Committee, Society Nominating Committee, and other Society Committees as requested.
    - A. The President and President-Elect shall represent the Division as voting members of the Society Governing Board and will serve for a one-year term. The President may designate a proxy should either of these officers be unable to attend a Governing Board meeting provided the Executive Director is notified in writing in advance of the meeting.

This proxy may be any Past President or elected officer of the Division not currently a member of the Governing Board or acting as a proxy.

- B. The President-Elect shall represent the Division as a voting member of the Society Management Committee. The President-elect remains on the committee through their presidential year. As defined in the Society's Rules, the Division representative shall be the President-Elect when elected into office on even years. As per Society rules, no proxy may serve on the Management Committee.
- C. The ~~Vice-Past~~ President shall represent the Division as a member of the Society's Nominating Committee. If the ~~Vice-Past~~ President is unable to fulfill these duties, the Division will elect one representative by a majority of ballots cast from the ~~membership~~ Executive Committee or appoint one representative to the Society Nominating Committee as defined in the Society's Rules. The representative shall be a member in good standing.
- D. The Vice-President shall represent the Division as a member of the Society's Membership Committee as defined in the Society's Rules.

#### **SECTION IV. Duties of Elected Division Officers and Student Representative.**

1. The **President** shall:

- A. Preside at all Division meetings;
- B. Serve as Chair of the Executive Committee;
- C. Represent the Division as a member of the Society's Governing Board;
- D. Appoint committee chairs;
- E. Perform other duties and functions as are authorized, necessary, and further described within the Division Procedures;
- F. Automatically advance to the office of Past President at the conclusion of the term of office.

2. The **President-Elect** shall:

- A. Assume the duties of the President should the President be absent or unable to act;
- B. Represent the Division as a member of the Society's Governing Board;
- C. Represent the Division as a member of the Society's Management Committee if elected into office in an even year, and continue to serve on the Management Committee through his/her Presidency;
- D. Serve as Co-Chair of the Program Committee;
- E. Perform other duties and functions as are authorized, necessary, and further described within the Division Procedures;
- F. Automatically advance to the office of President at the conclusion of the term of office.

3. The **Vice President** shall:

- A. Assume the duties of the President-Elect should the President-Elect be absent, unable to act, or assumes the Presidency;
  - B. Serve as Chair of the Division's Membership Committee;
  - C. Serve as a member of the Division's Program Committee;
  - ~~D. Serve as a member of the Society's Nominating Committee;~~
  - ~~E.~~D. Serve as a member of the Society's Membership Committee;
  - ~~F.~~E. Perform other duties and functions as are authorized, necessary, and further described within the Division Procedures;
  - ~~G.~~F. Automatically advance to the office of President-Elect at the conclusion of the term of office.
4. The **Secretary-Treasurer** shall:
- A. Keep the official records of the Division;
  - B. Conduct Division correspondence;
  - C. Manage the Division budget;
  - D. Collect and be custodian for any fees or assessments authorized by these Bylaws or funds allotted to the Division by the Society;
  - E. Disburse funds only as authorized by the membership or Executive Committee;
  - F. Submit minutes of the annual Division meeting to the Executive Director of the Society within 30 days of the meeting;
  - G. Perform other duties and functions as are authorized, necessary, and further described within the Division Procedures.
5. The **Past President** shall:
- A. Serve as Chair of the Division's Nominating Committee;
  - B. Serve as Chair of the Division's Awards committees;
  - C. Serve on the Division's Resource Policy and Environmental Concerns Committee;
  - ~~C.~~D. Serve as a member of the Society's Nominating Committee;
  - ~~D.~~E. Perform other duties and functions as are authorized, necessary, and further described within the Division Procedures.
6. The **Student Representative** shall:
- A. Serve on the Executive Committee as a non-voting liaison between students and the Division;
  - B. Perform ~~O~~ther duties and functions as are authorized, necessary, and further described within the Division Procedures.

## **SECTION V. Division Executive Committee.**

1. The Division Executive Committee shall consist of the five elected officers (President, President-Elect, Vice President, Past President, and Secretary-Treasurer), the President of each Chapter within the Division, and the Student Representative.
2. All members of the Executive Committee, with the exception of the Student Representative, share equal voting rights. The Student Representative is a non-voting position.
3. Each member of the Executive Committee shall have one vote on Executive Committee decisions. The President may vote only in the event of a tie.
4. The Executive Committee is authorized to act for the Division between meetings and transact necessary business.
5. The Executive Committee may levy such special fees as may be necessary to meet any expenses of the Division.
6. A quorum for an Executive Committee meeting shall consist of a majority of the elected officers and one-third of the Chapter Presidents. If unable to attend an Executive Committee meeting, a Chapter President may appoint any Chapter Past President or one of the current Chapter officers to represent the Chapter, with full voting rights. If such substitution is made, the Division Secretary-Treasurer or President shall be notified prior to the meeting.
7. The Executive Committee meets in conjunction with the annual Division meeting and approximately midyear between annual meetings. Such meetings are open to Division members.

## **SECTION VI. Division Annual Governance (or Business) Meetings and Voting.**

1. The Division shall meet at least once a year at a time and place decided at least two years in advance by the Executive Committee.
2. Special meetings may be called by a two-thirds vote of the Executive Committee, or by the President with the approval of the Executive Committee.
3. When mutually agreeable, the Division may meet jointly with other organizations or with other units of the Society-in accordance with the Standing-Society Rules.
4. When authorized by the Executive Committee, meetings and voting may be conducted using electronic media.
5. Decisions at a meeting of the Division shall be by a majority of those voting except in the case of amendments to the Bylaws (see Section VIII), suspension of the Standing Rules (~~which~~ requires a two-thirds majority), or as otherwise specified in the latest edition of Robert's Rules of Order.
6. A quorum at the annual meeting of the Division for the transaction of official business shall be at least 20 members in good standing.
7. Election of officers and the Student Representative shall be by ~~mail ballot or~~ electronic ballot/survey. Elections for officers shall be open to membership for 30 days and open to only student members for the Student Representative. Results shall be announced at the Division Annual business meeting. The procedure for the conduct of the officer's ballot shall

be determined by the Executive Committee and executed by the Secretary-Treasurer. The procedure for the conduct of the Student Representative ballot shall be determined and executed by the Secretary-Treasurer.

## **SECTION VII. Division Standing and Special Committees.**

1. Standing Committees, composed of Division members in good standing, shall be organized by the President together with their chairpersons. Standing committees shall assist the President and the Executive Committee in conducting the affairs of the Division. The chair of each Standing Committee shall report their committees' activities, findings, and recommendations at annual and interim meetings of the Division and Executive Committee (if time allows). The term of duty for members of Standing Committees shall extend from their appointment to the end of the following annual meeting, unless otherwise specified. Division committees shall work in close coordination with comparable committees of the Society. The structure and operating procedures of all committees are briefly described below, with details listed in the Division Procedures.
2. The Division has established the following Standing Committees:
  - A. Arrangements Committee. The Chair and at least three members shall be responsible for making all arrangements for the annual meeting, exclusive of program, to include lodging, meals, pre-registration, and registration, publicity and any other needed facilities or equipment.
  - B. Audit Committee. The Chair and at least one member shall audit the financial records of the Division and report to the Executive Committee concerning the results and any recommendations at any of the ~~EXCOM~~Executive Committee Meetings (monthly or annual meetings).
  - C. Awards Committee. The Chair (Past President) and at least two members shall be responsible for seeking nominees and applications for the annual awards of the Division.
  - D. Division Archivist. A committee of one shall be responsible for organizing, maintaining, and storing the Division records.
  - E. Resource Policy and Environmental Concerns Committee. The Chair and at least two members (including the Past President) shall research issues, develop appropriate responses in accordance with the Division and Society advocacy procedures, review internal and external policy, and serve as council to the Executive Committee. The Chair shall also serve on the Society Resolutions Committee as an *ex officio* member.
  - F. Grants Funding and Investment Committee. The Chair and at least two members shall be responsible for making investment recommendations to the Executive Committee and review the Grants Fund investments quarterly (minimum). Periodic review of the Division's grants funding criteria and fund-raising activities may be coordinated under the Grants Funding and Investment Committee through ad hoc committees appointed by the President.

- G. Membership Committee. The Chair (Vice President) and the Chair of each Chapter Membership Committee within the Division shall undertake to maintain the current membership and recruit new members from those eligible within the Division boundaries. The Chair shall also serve on the Society Membership Committee.
  - H. Nominating Committee. The Chair (Past President) and at least two members appointed by the Chair shall recommend a slate of candidates for offices of the Division. The Chair shall also serve on the Society Nominating Committee.
  - I. Program Committee. The President-Elect and a member from the host state, province, island, or territory shall be appointed by the host state's President as co-chairs. These individuals, and at least three members (including the Vice President), shall organize an annual program that will include technical sessions for contributed posters and papers, and invited symposia or workshops on topics relating to the field of fisheries.
  - J. Time and Place Committee. The Chair, plus two members, shall consider and recommend the time and place of subsequent annual Division meetings and bring forward those recommendations to the Division Executive Committee for approval, unless other provisions have been made to identify Chapters to co-host annual Division meetings on a predetermined schedule.
3. Special Committees may be created by the Chapter Executive Committee for a specific purpose and are to be dissolved when their purpose is fulfilled. Details for Special Committees are available in the Division Procedure Manual.

## **SECTION VIII. Division Bylaws, Standing Rules and Procedures.**

- 1. The Bylaws are the defining document for the Division and take precedence over all ~~other standing~~ Standing Rules and Procedures of the Division. The Bylaws cannot be suspended and cannot be changed without prior notice to members as follows. By-laws can be amended at anytime throughout the year.
  - A. The Bylaws may be amended by a 2/3 majority of voting members provided that the proposed amendment(s) are circulated in writing (i.e., website, listserv) to the membership at least 30 days prior to voting. Voting will be open for two weeks post membership review.
  - B. In accordance with the Society Constitution, an adopted amendment shall be reviewed by the Society's Constitutional Consultant for conformity with the Constitution, Rules, and Procedures of the Society prior to membership vote. The Constitutional Consultant presents the adopted amendment as approved by the Division members to the Society Management Committee for approval.
  - C. The amended ~~bylaws~~ Bylaws will take effect after receiving written notice from the Society's Executive Director.
- 2. The Standing Rules are the next highest level of documentation of Division operations. The Standing Rules are generally established to facilitate the conduct of Division business, and to describe duties and responsibilities of officers and committees. The Standing Rules may be suspended or amended as follows:

- A. The Standing Rules may be suspended during an Executive Committee meeting until the next annual or special Division meeting by a 2/3 majority of the Executive Committee.
  - B. The Standing Rules may be suspended for the duration of a meeting by a 2/3 majority of members voting at an annual or special Division meeting.
  - C. The Standing Rules may be amended by a simple majority of members voting at an annual or special Division meeting.
3. The Procedures are the lowest level of documentation of Division operations. The Procedures are generally established to provide continuity in the conduct of Division business. The Procedures may be suspended or amended by a simple majority vote of the Executive Committee.

Revised Dates: December 2011, December 2015, May 2017