



Gill Raker Gazette

The Newsletter of the Idaho Chapter of the
American Fisheries Society

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Editor: Ryan Hardy

President's Message - A Reprisal of a Theme



After review of my predecessor's messages for guidance and inspiration I noted that nearly all ICAFS presidential messages are accompanied by the then-president holding a giant fish of some type, presumably commandeered by hook and line though the mode of capture is suspiciously not always in evidence. There are exceptions, Helen N. recently provided us with a great picture of her cute kid instead! I'll throw a curve and show you a collection of favorite mousing patterns for use on my favorite AK river instead.

Oh yes, onto that pesky presidential message. Those who attended the 2018 annual meeting in Idaho Falls know we centered the Plenary session around master story teller and scientist Daniel Pauly and his book chapter entitled "Fisheries Scientists Must Write". Daniel and the other two session speakers gave us many good reasons to write and I see no reason to belabor their excellent points again here. Instead, I want to talk about YOU.....why YOU personally should write and publish some of your fine work right now. At the end of the IF Plenary session I asked for the hands of experienced authors willing to help mentor any chapter member who want to take up the publication challenge. An astounding 18 Chapter members volunteered to assist you. These folks work for NGO's, state agencies, tribes, and academia. They comprise many of the best scientists in the Chapter. Bottom line, for those of you who have been wondering off and on about the publication process or you tried it once and found it distressing, or have never given it a go, the time to get some publication help will never be better. All we ask is that if you'd like some assistance in this undertaking is to contact either of our two mentoring committee members (lance.hebdon@idfg.idaho.gov or jessica.buelow@idfg.idaho.gov) and they'll fix you up with someone who has done work in your area of interest. There are lots of hopeful volunteer mentors waiting for somebody to help.

I know what some of you are thinking. Why should I bother with all that publication stuff, it won't get me better pay and besides, it's a lot of unnecessary work. Yes, there are many things that racking up a pub won't get many of us and unless we're in academia, it usually doesn't mean more pay. What it *will* get you and your



President's Message - A Reprisal of a Theme

employer is better credibility and respect as a scientist. And speaking of respect, there will be more *self*-respect. Publishing a journal article is not easy, it is not intended to be for a good reason. If you get something published, you'll know you've achieved something. And if you do make contact with one of the mentors below and they assist you in a pub, there's good news! Even as a junior author, you'll already be very close to the career output of the average scientist. Fanelli and Lariviere (2016) note that in terms of total publications (senior plus junior author), the average Biologist publishes <3 papers in the first fifteen years of their career. That's certainly not an unreachable star for anybody to reach for so start with one and get rolling. So, who you gon-na cyber-call?? Lance or Jessica, that's who! Just tell them your general topic and general level of experience and they'll hook you up with a mentor. Nervous about working with one of the "big dogs" on the mentor list? There are many folks there with varying levels of pub experience. Regardless of who you enlist, you won't regret it. I published my first paper way back in the late 1900's...1984 to be exact. I can still remember the feeling I got when the proofs came and I got to first see what the article would actually look like in the NAJFM compared to my usual agency report. Last year, 34 years later, I still got the same feeling from seeing the proofs from my last article. If you haven't tried it don't knock it. Chances are you'll get a rush too, and you, our Chapter, and the profession will be the better for it.

Fanelli, D. and V. Lariviere. 2016.

Researchers' individual publication rate has not increased in a century.

PLoSone <https://doi.org/10.1371/journal.pone.0149504>.

Volunteer Writing Mentors:

Tim Copeland, Brett High, Rob VanKirk, Matt Corsi, Jonathon Ebel, Eric Billman, Josh McKormick, Patrick Kennedy, David Venditti, Chris Kozfkay, Joe Kozfkay, Brett Bowersox, Eli Felts, Zach Klein, Luciano Chiaramonte, Dayv Lowry, Dan Dauwalter, and John Powell.

- Dan Schill



Student Spotlight

Ryan Whitworth

Ryan Whitworth is a member of the Portneuf Subunit of the Idaho Chapter of the American Fisheries Society. He grew up in Inkom, Idaho, where he enjoyed camping and fishing with his family. His involvement in AFS began as an undergraduate at Idaho State University, where he served as an officer in the Portneuf Subunit for multiple years. Ryan is now pursuing a Master of Science degree working with Dr. Ernest Keeley in The Fish Ecology Lab at Idaho State University. As a graduate student, he continues to be involved with AFS and is currently the treasurer of the Portneuf Student subunit. Ryan's master's research involves investigating competitive interactions between cutthroat trout and non-native brook trout while foraging. He hopes to identify mechanisms that allow brook trout to displace cutthroat trout in Western North American streams. After completing his degree, Ryan plans to work as an agency fisheries biologist.



- Ernest Keeley



Student Spotlight



Kat Gillies-Rector

Kat Gillies-Rector is a master's student at the University of Idaho and has been actively involved with the American Fisheries Society (AFS) since 2011. She was first introduced to AFS through the combined student subunits of AFS and TWS at Oregon State University, where she served first as a board member, then as the student liaison to the Oregon

Chapter of AFS. Since starting graduate school, Kat has been very active with the Palouse Unit of AFS (PUAFS), first through the outreach committee, then as Vice President. Kat was recently elected as President of PUAFS for 2018-2019. Her major goals for PUAFS are to increase peer-to-peer mentoring and community outreach events. Aside from her leadership activities with AFS, Kat is focused on finishing her master's research, which focuses on early growth and movement of fall Chinook Salmon in the Snake river. Kat is interested in understanding how early growth opportunity for juvenile Chinook Salmon varies throughout the Snake and Clearwater basins, and how this relates to out-migration timing. Kat plans to defend her thesis in spring 2019 before pursuing a fisheries biologist position in the Pacific Northwest.

- Mike Quist



Student Spotlight

Skyler Smith

Skyler Smith is the current president of the BYU-Idaho Subunit of the Idaho Chapter of the American Fisheries Society, and currently a senior at BYU-Idaho.

Skyler has been an active member of the BYUI Student Subunit since its inception. He has attended the past three Idaho Chapter meetings, presenting research at two meetings. Skyler began his work in fish ecology studying diet variation in mottled sculpin. His

current project is a study of introduced fishes in Barney Hot Springs and Barney Creek and represents a collaboration with fish biologists from the BLM, USFS, and IDFG. Skyler has worked as a field technician for IDFG in the Upper Snake Region, and is currently a field technician for DEQ in Idaho Falls. After completing his senior year, Skyler is planning on attending graduate school to continue his education and training to be a fish biologist.

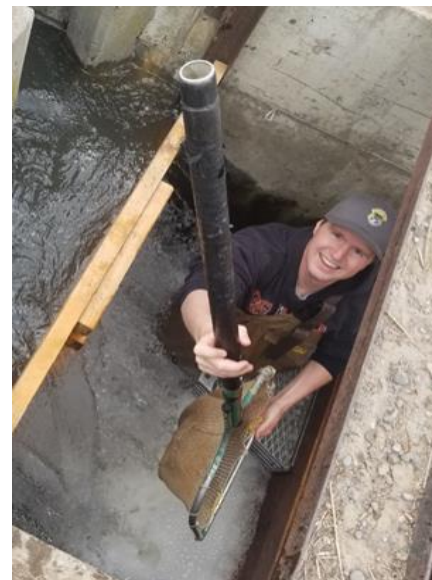


- Eric Billman



BYU Idaho Student Unit Update

The last quarter has been eventful for the BYU-Idaho Student Subunit. We had a number of students attend the Idaho Chapter Annual Meeting in Idaho Falls where they benefited from the opportunity to network with many of the chapter members. As a Subunit, we would like to thank all who helped pull off another fabulous annual meeting! We also held our annual Student Research Symposium that was attended by fellow AFS members from Idaho Department of Fish and Game, U.S. Forest Service, and Bureau of Land Management. This symposium provides a great opportunity for students to present their research and interact with fish biologists. With summer now upon us, many of our students are off working as technicians or interns for IDFG, USFS, DEQ, and private organizations.



Ian Holmes in the fish trap on the South SF Teton River

Members of the Subunit have been excited to kick off a collaborative project with IDFG this past quarter. With IDFG oversight, Subunit members are operating a fish weir on the South Fork Teton River. The fish weir was operated for a short period in the late 1990s, but has not been operating since 2000. Data from this weir will provide essential information about Yellowstone cutthroat trout in the lower Teton River drainage. Additionally, the weir will provide a unique opportunity to begin collecting population data for bluehead sucker (possible name change to "green sucker" is forthcoming).



One of many fluvial Yellowstone Cutthroat trout captured in the fish weir on the South Fork Teton River

Through this project, Subunit members will receive valuable training on fish handling, fish identification, and weir operation while being able to network with regional biologists. Look for results from the first year of the project in a presentation at the Idaho Chapter annual meeting in Boise in March 2019!

- Skyler Smith



Palouse Unit Student Update

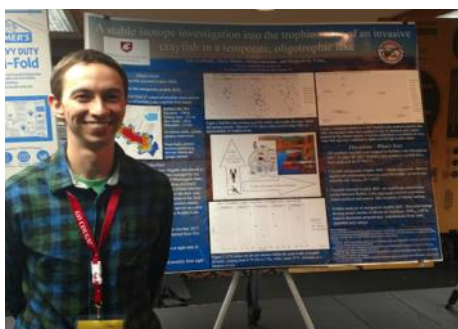
Student members of the Palouse Unit of the American Fisheries Society (PUAFS) had a busy spring semester. While the Wild Game Feed and the Idaho Chapter AFS Annual meeting were the highlights of our spring semester, students still found time to attend lectures by guest speakers, learn fly tying skills from local pros, and present at a variety of regional meetings.

Spring is always a busy time with both undergraduate and graduate students preparing for presentations at regional conferences. This year PUAFS sent eleven members, including one undergrad, to the ICAFS meeting in Idaho Falls. As a joint chapter with Washington State University (WSU), we also had several members attend the Washington-BC AFS chapter meeting in Vancouver, BC and the Western Division AFS chapter meeting in Anchorage, AK. When not attending conferences, our members were busy preparing for our annual fundraiser, the Wild Game Feed. In preparation for the Wild Game Feed, our members learned fly tying from instructors John Heckel, Dr. Frank Wilhelm, and Kacey Barney. Member-tied flies were auctioned off on a "Hat of Flies" along side flies donated by our fly tying instructors. Students also had many opportunities to explore future careers in fisheries. Our popular graduate-undergraduate student mentoring program continued this spring, with graduate student mentors helping undergrads finalize resumes and seek summer jobs. The chapter also hosted local NOAA employee Jennifer Gatzke to speak about careers with NOAA and NOAA contractors.

This spring marked a leadership transition for PUAFS. After serving as vice president from 2017-2018, Kat Gillies-Rector was elected president for the upcoming year. WSU master's student and past PUAFS WSU representative John Loffredo was elected as vice-president, and WSU undergraduate Christine Ashika was elected as secretary-treasurer.

As the school year draws to a close, PUAFS is working harder than ever to continue our momentum through the summer into fall. We anticipate another outstanding year filled with professional development through field trips and skills workshops, outreach with our community partners, and fun events such as fly tying and trivia nights.

- Kat Gillies-Rector



WSU representative to PUAFS John Loffredo presents his master's research at ICAFS 2018



AUF member Kacey Barney instructs fellow members in fly-tying



Portneuf Unit Student Update

With the Spring semester coming to an end, students are excited for warm summer days of field work and fishing. Many of our undergraduates have accepted various fisheries positions throughout the state of Idaho to gain more knowledge and experience. Our graduate students are excited for the long summer days in the field collecting data. Both graduate and undergraduate students have been gearing up to present research at upcoming meetings. In total there were six members presenting at SFS (Society for Freshwater Science) and two at WDAFS.

Club members have also participated in different community events. We participated in the Portneuf Environmental Fair. At the fair, club members showed community members and children the impacts that sediment have on water quality, the effects sediment have on the macroinvertebrate community and what implications sediment could have on humans. Club members also talked about how we can use the environment, and how to respect it. Our club members attended the local chapter of trout unlimited fly tying workshop.

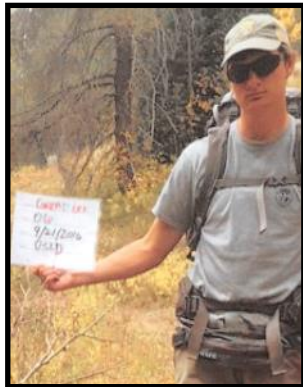
Although many of our members are currently scattered across Idaho we have still taken the time to start planning events for the upcoming months. We have started planning two different floats! Both will be on the Snake River with one being on the South Fork, and the other being below American Falls reservoir.



Loni Nelson (right) and Rachel Brinkley (left) assisting gradstudent Adam Eckersell with gastric lavage sampling
- Jorge Rosales



Idaho Chapter Student Subunit Presidents



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Portneuf Student Subunit President
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Aquaculture Committee Update

Jamie Mitchell and Laura Sprague have stepped down as co-chairs for the ICAFS Aquaculture Committee. The committee co-chairs now consist of Ken Cain (University of Idaho), Shawn Young (Kootenai Tribe of Idaho) and Eric Pankau (Idaho Fish and Game).

Recent Activities:

In recent months, the Idaho AFS chapter awarded a \$5,000 grant to the Mackay High School aquaculture program to assist with improvements to their infrastructure (see attached news release for more details on the project).

A tentative topic for a 2019 ICAFS continuing education workshop was identified:

Fisheries Broodstock Management

Efforts to pursue education/outreach opportunities with Idaho high schools and universities have continued. We will be attempting to expand existing involvement and form new relationships. - Eric Pankau



Anadromous Committee Update



The Stream of Dreams Mural Society, the Anadromous Committee, the Salmon River Joint School District, and the Meadows Valley School District successfully completed a Stream of Dreams project in Riggins, ID early in June 2018. The Stream of Dreams program is a non-profit educational program that focuses on teaching community members about the source of their water, how to protect their water, and where their water goes after it has been through their homes and schools. The program provides this education through the scope of the life cycle of salmon and other aquatic animals. The lasting legacy of this program is the installation of a mural comprised of about 340 hand painted fish (painted by members of the community and students) on a fence in the community.

The Stream of Dreams project is based in British Columbia, and the organization has installed about 450 murals in North America since its inception in 2000. This is the second in Idaho (the first was in Salmon, ID), and there are fewer than five in the United States. The wood “blank” fish are cutout and primed by inmates at a penitentiary in Canada, and the wood is recycled from scaffolding manufacturing. This keeps the costs relatively low on a per student basis. For those interested, please visit the Stream of Dreams website (<https://www.streamofdreams.org/>) for more information or to find out how you can bring this program to your community.

The educators from the Stream of Dreams program suggested that 300 fish made for a nice sized mural. To get this number of participants, we invited the Meadows Valley School District from New Meadows to participate with the Salmon River Joint School District. That brought our student count to about 260 encompassing all grades from K-12. For the remaining participants, we enlisted the community members at large during the Big Water Blowout 2018 festival. With the community involved, we raised the total number of painted fish to 340. The mural is on display at the elementary school fence on Highway 95 in the middle of Riggins. We’d like to thank Roy and Karen Akin of Rapid River Outfitters, Louise Towell (Stream of Dreams), Krystal Brennan (Stream of Dreams), Jim Doramus, and Patrick Berg for all their work on this project and for their dedication to natural resource education.

We are grateful for funding, donations, and in-kind contributions provided by the Idaho Fish and Wildlife Foundation, the Idaho Chapter of the American Fisheries Society, the Idaho Department of Fish and Game, the Nez Perce Tribe, the Office of Species Conservation, Jim Bowker, the Salmon River Dive Team, and the Big Water Blowout. — Matt Belnap



Native Fish Committee Update

The Native Fish Committee has two excellent projects we're working to complete. Our ongoing project is to create an updated "Fishes of Idaho" poster. Our Committee was recently awarded a grant from the Western Division AFS, to support the poster project. This grant was an immense boost to this project and we plan to use these dollars to purchase images of the 46 species of fish native to Idaho.

Another new project that we are working on is to bolster or refresh the voucher fish specimens for educational institutions across the state. We hope to provide fish preservation kits to Idaho Department of Fish and Game regional offices and work with research and regional personnel to collect voucher specimens of fish species encountered during routine IDFG field sampling. Preserved specimens will be distributed to participating Idaho educational institutions.

Please consider reserving August 28th - 30th (Tuesday - Thursday) for the 2018 *Salvelinus confluentus* Curiosity Society (ScCS) workshop in the Jarbidge River drainage. The 29th will be the field day and will primarily consist of data collection at historic bull trout sampling sites and habitat monitoring. Exact details are still being worked out but the workshop will be held at the Pole Creek Ranger Station on the Humboldt Toiyabe National Forest. For reference, the Pole Creek Ranger Station is approximately 60 miles southwest of Twin Falls, Idaho. It will primarily be a remote camping affair with the closest town with accommodations being either Twin Falls, Idaho or Jackpot, Nevada both approximately 60 miles away. Showers, potable water and limited space in a bunkhouse are available at the Pole Creek Ranger Stations. Presentations, meals and camping will all occur at the ranger station. We're still on the front end of planning but hope to open registration for the workshop sometime in May so stay tuned! - Nicole Graham and Patrick Kennedy

Public Education Committee Update

The Idaho Chapter AFS supports the Trout in the Classroom program through an annual support grant administered by the Public Education committee. Schools can apply for grants to pay for bus transportation for classroom field trips to learn about aquatic resources and release trout raised in Idaho Trout, Steelhead, or Kokanee in the Classroom programs. This year, grants were awarded to 19 schools in Idaho allowing more than 1700 students in grades 2-12 to get outside and learn more about fisheries resources. Classrooms got a chance to practice angling skills, learn to clean and cook fish, tour fish hatcheries, visit education centers, and participate in educational activities mentored by fisheries professionals.



Thomas Jefferson Charter School releasing fish in the Boise River



Marsing Elementary at MK Nature Center

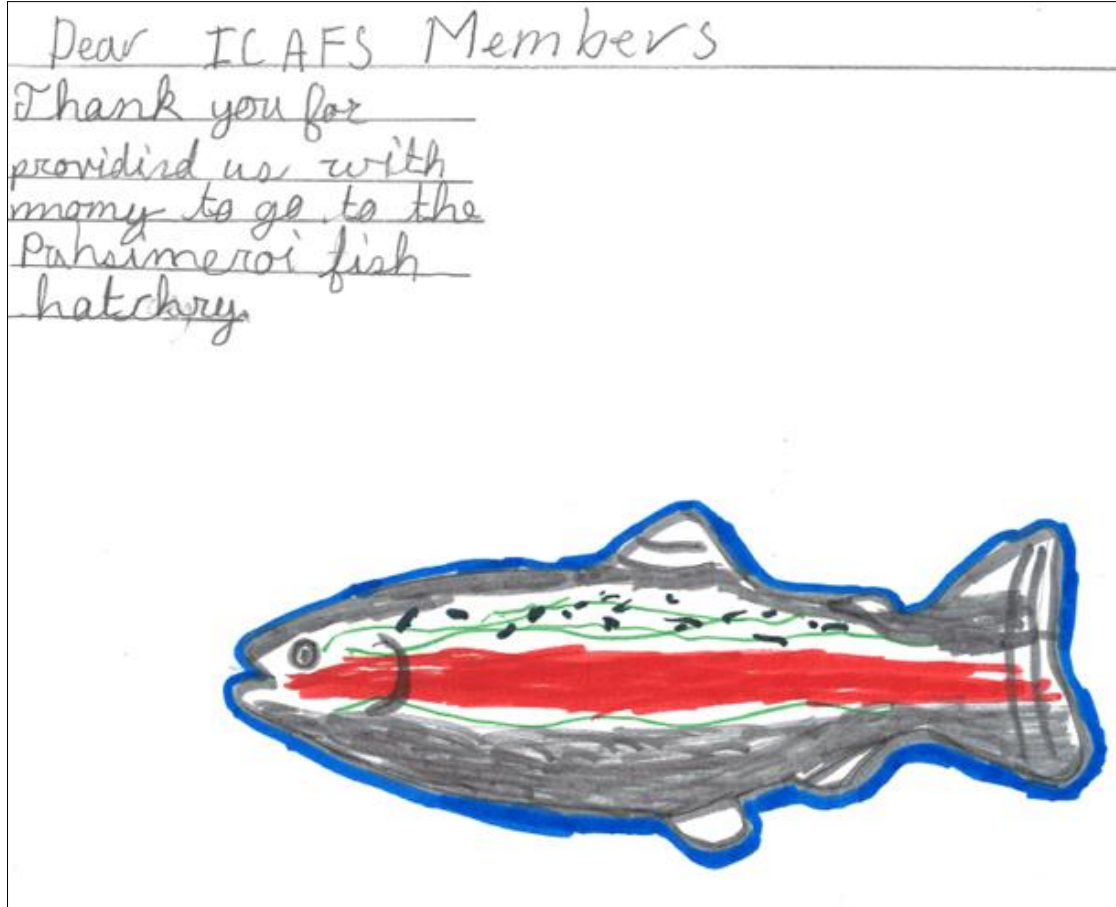


Jefferson Elementary at Hagerman



Sagle Elementary fish release

Public Education Committee Update



Pioneer Elementary thank you letter

ICAFS Grant Opportunity

An Idaho Chapter of the American Fisheries Society's Training Opportunity and Project (TOP) Grant up to \$750 is available for students. The grant money can support attending a professional conference, workshop, or training; conducting research outside typical degree requirements; implementing education projects; or other activities that support the Idaho Chapter mission and goals. For more information please visit <http://www.idahoafs.org/ICAFStopGrant.php> or contact Lauri Monnot @ (208) 373-0203.

- Lauri Monnot

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The EXCOM wants your ideas ...

Please do not hesitate to contact any EXCOM Member about questions or ideas

This is your Chapter !

