

THE ANGLER



NEWSLETTER OF THE COLORADO/WYOMING CHAPTER
OF THE AMERICAN FISHERIES SOCIETY

SUMMER 2019 | VOLUME 42 | NUMBER 2

EDITED BY ADAM G. HANSEN AND WILLIAM M. PATE

It's Summer! Time to Recap our 2019 Annual Meeting.



WHAT'S INSIDE:

THE VENT

BUSINESS MEETING
MINUTES

AWARDS
RECIPIENTS

TREASURER'S
REPORT

FY20 PROPOSED
BUDGET

OTHER NEWS

THE VENT -- Eric Fetherman

I hope that all of you are having a great summer, and enjoying not only the field season and the exciting work we get to take part in, but also spending time with friends, family, and enjoying the many outdoor recreational opportunities our states have to offer.

This has been a great year for the Colorado/Wyoming Chapter of the American Fisheries Society. Our Chapter annual meeting was held at the Hilton in Fort Collins, Colorado in February, and was one of the largest attended meetings in chapter history, with over 280 folks that attended the meeting, including a large contingent of folks representing the aquaculture industry in both Colorado and Wyoming. There were 47 presentations and 12 posters presented at the meeting. In addition, the meeting started with a half day session entitled “**We All Need a Little Culture**”, and included a range of talks from the public and private culture sectors. Thanks to our speakers, **Jim Bowker, Jesse Trushenski, Carl Kittel, Guy Campbell, Riley Morris, Kendra Holmes, John Drennan, and Toby Mourning** for presenting in our opening session!



Photo credit: Colorado
Parks and Wildlife

THE VENT continued...



“We All Need a Little Culture” Opening Session presenters (from left to right): Toby Mourning (Colorado Parks and Wildlife [CPW]), John Drennan (CPW), Carl Kittel (Texas Parks and Wildlife; Past President, AFS Fish Culture Section), Jim Bowker (Retired USFWS), Jesse Trushenski (Spring Salmon, LLC; President, AFS), Eric Fetherman (CPW; President, CO/WY Chapter of AFS), Kendra Holmes, Aqua Sierra), Riley Morris (CPW), and Guy Campbell (Wyoming Game and Fish Department).

The meeting also had three great continuing education opportunities. Thanks to **Shannon Albeke** for putting together another introduction to R for data analysis course, **Russ Japuntich** for presenting a course on making sense of the federal process, and the **staff at the Colorado Parks and Wildlife Bellvue Fish Research Hatchery** for hosting a tour of their facility. The meeting also included social networking opportunities, the opening social at Canvas Stadium and the student-hosted social organized by the Colorado State University student subunit, as well as an opportunity to recognize our peers during the award ceremony at the banquet. Congratulations to all who received awards this year! Also, a big thanks to all of the committee members who worked hard to make this year’s meeting a huge success!



STILL VENTING...

In addition to the meeting, the Chapter also had many other successes in 2018 and 2019. Membership increased by 15% in the past year. The Angler, edited by **Adam Hansen** and **Bill Pate**, got a much needed face lift, and has become a template for Chapter communications that several other Chapters are replicating. The Environmental Policy Committee kept an eye on and communicated with NGOs and Natural Resource Agencies about the importance of the Recovering America's Wildlife Act, H.R. 4647. The website committee, chaired by **Joe Skorupski**, successfully migrated the website to the Society platform and had the site up and running in time for the annual meeting registration. Chapter members stepped up and contributed to the Colorado Mesa University Fish and Wildlife Club during their fundraiser in April, helping the club win the \$5,000 individual donor bonus, and resulting in \$9,870 being raised for the CMU Endowment during that event. Along with other efforts put forth by the Endowment Committee, chaired by **Eric Gardunio**, the Chapter contributed \$11,220 as part of the 1:1 match to the CMU Endowment Fund in this first year, only \$1,280 short of the potential \$12,500 to be paid out within five years of establishing the fund.

Due to these and a great number of other accomplishments too numerous to mention here, I am proud to announce that the Colorado/Wyoming Chapter was chosen as the **Western Division of the American Fisheries Society's Outstanding Small Chapter Award recipient for 2019**. In addition, our award nomination packet was forwarded by the Western Division to the Society, and as a result, our Chapter is also the recipient of the **American Fisheries Society 2019 Outstanding Small Chapter Award**. Congratulations to all of our members, committee members, and Executive Committee members for this outstanding achievement!

In closing, it has been an honor to serve as Chapter president this past year and to work alongside the other amazing Executive Committee members, **Kevin Gelwicks**, **Jason Burckhardt**, and **Jim White**. And a big welcome to **Christina Barrineau**, incoming Chapter Secretary-Treasurer. Have a great rest of the summer!



2019 Colorado/Wyoming Chapter of AFS Executive Committee (from left to right): Jim White (CPW; Secretary-Treasurer), Eric Fetherman (CPW; President), Kevin Gelwicks (WGFD; Past President), and Jason Burckhardt (WGFD; Vice President).

Congratulations to the Colorado/Wyoming Chapter of AFS!

2019 Western Division of AFS Outstanding Small
Chapter Award Recipient

and

2019 AFS Outstanding Small Chapter
Award Recipient



BUSINESS MEETING MINUTES

Official Business of the Colorado/Wyoming Chapter of AFS



I. Call meeting to order (Eric Fetherman)

a. Determination of quorum (259 members; 52 is quorum 1/5th)

-There were 68 AFS members present and a quorum was declared by CO/WY AFS President, **Eric Fetherman**.

b. Appointment of parliamentarian Eric F. appointed **Dirk Miller** as parliamentarian for the meeting

c. Review of agenda (adds/deletes)

-One agenda item was added. A discussion of re-designing our CO/WY AFS Chapter logo.

II. Introduction of Guests (Eric Fetherman)

a. **Jesse Trushenski**, President, American Fisheries Society President

-Jesse Trushenski hit on two main topics: What your AFS membership does for you and an update on the Reno Western Division/Society meeting. The Society does a lot of work on policy and legislation including commenting and helping shape current legislation such as the “Recovering Americas Wildlife Act”, re-authorization of the Magnuson–Stevens Act, etc. The Society helps keep fisheries issues front and center in these negotiations. The Society also published 5 new books this year. These books are of interest mostly to a small group of people (fisheries professionals and academics) and would not typically get published by major publishers. AFS also provides access for their members to several professional journals. Although many universities and agencies have larger subscriptions allowing their students or employees to view the publications, most private groups do not, making membership especially valuable to those individuals. AFS puts on a number of webinar productions and assists chapters with governance through website hosting, conference calls, contracts, insurance, financial management, etc.

-The Society and Jesse are currently working on an updated strategic plan. The goal is to stress a more quantitative, metrics based approach, to address gaps in professional development (mostly communication and leadership; not so much technical – younger people get that in school), and to diversify publications. One idea is to “de-mystify” the publication process a little bit and provide a different forum to better communicate science to the lay person.

-Update on Reno Meeting – joint meeting with The Wildlife Society. Jesse encouraged everyone to share your science but more importantly share your story! Get involved. Work on solutions as a group. Go to the other meeting and utilize the travel grants.

b. **Jackie Watson**, President, Western Division American Fisheries Society

-The purpose of Jackie’s talk was to provide information for the WD meeting and deadlines, including today’s deadline for Excom members nominations. She encouraged members to run for office because the skills improvement is great, including confidence, time management, balancing family and work life.

-Jackie is working on a financial sustainability model for the Division. The goals are to build a balanced operating budget and give back to members. Based on the Oregon AFS Chapter model, investments go half to the investment account and half to Chapter activities. The annual meeting pays for itself. There are committee openings and, if interested, members should contact Luke Shultz on the website.

-Some committee examples include: Diversity and Inclusion, WD travel grants and stipends, early career professional (Zach Bear heads this), education outreach, mentoring, networking, and maintaining relationship with AFS. Communications Committee – Travis Neebling works on website, listserv, social media, etc. but is not a social media “guy” and needs help on this issue.

III. State of the Chapter (Eric Fetherman)

(From Eric's written notes). Thank you to all of you for taking time out of your busy schedules to join us at this year's Chapter meeting. There are nearly 260 attendees at this year's meeting, a great turnout, with 47 presentations and 12 posters presented by attendees, not including the eight presentations given during the opening session, "We all need a Little Culture." Six of these presentations will be given this afternoon during the Boreal Toad session, and we are excited to once again have the Boreal Toad folks joining us for this meeting. Thanks also to all of our invited speakers who participated in yesterday morning's opening session! Our goal with this year's meeting was to increase participation from and representation by the aquaculture sections of both states, and provide an opportunity to build camaraderie, teamwork and communication among our various aquatic sections and disciplines. Thanks to the endeavors of the Aquaculture Committee, **Toby Mourning** and **Lars Alsager**, we were extremely successful in achieving that goal, with over 30 folks from the Colorado aquaculture section and nearly a dozen from Wyoming's aquaculture section joining us at this year's meeting, as well as representation from the private aquaculture industry. Thanks to all of those folks for joining us this year as well!

The Chapter is currently in a good position financially. As Jim will show here in a minute, we are on track with this year's approved budget, and our goals for this meeting. As voted on by the membership last year, we were able to contribute to the Western Division Student Colloquium, and it sounds like they had a great meeting in Corbett, Oregon. We continue to have the highest contribution in the Western Division investment fund, which took a little bit of a hit this year, but is once again on the rise. However, as we all know from our jobs, the cost of doing business is increasing, and we have seen this in rising supply costs, equipment costs, and even reimbursement for per diem and mileage. The Chapter is not immune to this increase as well, as we saw increases in 123 signup fees, and increased costs for breaks, socials, and the banquet, and registration costs for this year's meeting were adjusted to account for these costs. We did not apply this increase to the student or young professional registrations to prevent creating additional financial obstacles to their attendance. Overall, looking at other Chapter registration costs across the country, our registration costs continue to be in the mid-range for AFS chapters and on the lower end for chapters within the Western Division. The reality is that the cost of doing business will continue to increase as these meetings grow, and we try to find venues that can hold a meeting of this size, especially on the Front Range of Colorado. Jason and Jim are aware of some of the unexpected costs that came up this year, and will be keeping an eye on those costs as they budget and plan for the 2020 and 2021 meetings. We will continue to do what we can to keep registrations as low as possible so that participation at our annual meetings continues to remain high. However, thanks to some cost saving measures, and the efforts of our Fundraising and Raffle Committees, we are looking to come out ahead by a few thousand dollars, which is great! Thanks to the folks on these committees for everything they have done to help offset this year's meeting costs!

We continue to have great committee participation. Our committee structure is one of the many strengths of the Chapter that I believe puts us in the running for outstanding chapter, which I hope to get our application in for by the March 15 deadline. I will be highlighting committee chair reports later on in the meeting, but I did want to highlight a few committee achievements here in relation to the approved motions from last year's business meeting. First, last year we approved providing \$500 for migrating the website to the Society platform. **Joe Skorupski** with the Website Committee worked hard to make this move this year, and to get it done before the website was heavily used for the annual meeting. We really appreciate everything Joe did to get the new website up and running. The site looks great! Additionally, the membership approved the Endowment Committee to establish an MOU for the CMU endowment fund, which **Eric Gardunio** was able to get in place and signed last fall. The five year fundraising period is now open for that endowment fund, and the fund has already received some generous donations. Thanks to **Eric Gardunio** for doing everything needed for the Chapter and Society to review the MOU, and officially getting that set up with CMU! Finally, thank you to everyone that has served on a committee this year, helped spread the burden of putting on the annual meeting, and kept our Chapter functioning at the level that it does! We really appreciate everything you do for the Chapter!

IV. Secretary-Treasurer Report (Jim White)

Jim White reported starting balances (August 1, 2018) in four CO/WY AFS accounts. These are Savings (\$1,138), Raffle (\$0-\$5,000; emptied every year), Business (\$40,438; our checking account), and WD Investment (\$43,948; current value). Budgeted income including Annual Meeting Income, Donations, and Raffle sales was \$33,217. Actual projected income including the items above was \$47,575. Most of the income was generated by above average attendance (thank you hatchery folks!) and higher donations including a \$4,500 sponsorship from CPW. Budgeted Annual Meeting Expenses totaled \$28,122, with most of the budget going to catering costs associated with the hotel and the two socials. Projected costs for these two items were almost double the budgeted amount. Income from just registration fees was estimated at \$33,590 minus estimated costs (\$44,900), resulted in a loss of \$11,320 on the meeting. However, if one adds in donations (\$10,550) plus estimated raffle sales (\$3,138) the Chapter comes out about \$2,300 ahead.

Annual Meeting expenses are about 52% of the entire CO/WY AFS Chapter budget. Other budget expenses are governance, which includes mentoring, travel, taxes, liability, etc. at 8% of the total. Bylaw approved expenses amount to about 7% of the budget and include the travel grants, Excom meeting meals and VP travel to WD meetings. And finally, Chapter-approved expenses add up to about 33% of the budget. However, a large chunk of that is the Colorado Mesa University endowment fund. Our Chapter has agreed to match up to \$12,500 and in case we have to fund all of that in one year, we budget for it. That one line item accounts for 71% of the total in this budget category.

There is one last budget item called the “Excom Approved Expenses” that totals “up to \$2000”. This item was used once to fund a \$250 donation to the Hutton Scholarship fund.

Overall the Chapter appears to be on a solid financial foundation.

V. Preliminary Address for 2021 (Jim White)

The 2021 annual meeting of the Colorado/Wyoming Chapter of the American Fisheries Society will be held in Fort Collins. Members were asked to email or call with any suggestions or comments.

VI. Update on 2020 Meeting (Jason Burckhardt)

Jason Burckhardt presented the 2020 meeting venue in Cody, Wyoming at the Buffalo Bill Center and Blair Hotels on February 25-27th, 2020.

VII. Budget Presentation FY20 (Jason Burckhardt)

Jason explained that typically 90% of the four year average annual meeting income is the starting point for formulating a budget. Recognizing that the meeting would not be as well attended because of the location, Jason used a figure of 75% of the average income as a starting point. This resulted in a total income of \$29,500. Annual meeting costs are estimated at \$26,300.

Other budget items include an increase in the annual Chapter expenses because the Western Division Meeting in 2020 will be held in Vancouver, B.C. Therefore, the budget for the incoming President to attend that meeting was increased from \$1500 to \$2000. Other increases include more rooms for student sub-units since all three must travel to Cody.

There was some discussion of how registration income would be allocated between the CO/WY and MT chapters if MT could come. This was done on a % of attendance basis in UT and would probably be the way we handle it in Cody. One member asked if Jason was considering moving back to Laramie if MT does not show up. Jason thought, although it would be a smaller meeting, that he would still host it in Cody, even if MT can't make the meeting.

VIII. Presidents Highlights of Committee Chair Reports (Eric Fetherman)

Archive: The Chapter's Archive Committee continues to file and organize the records of the Chapter as outlined in the Chapter's Procedural Manual.

The Committee requests that the 2018-2019 Excom continue to provide the Committee with relevant materials throughout the year that should be maintained within the Chapter's archives. Please keep this in mind particularly in relation to the 2019 Annual Meeting.

The Committee has completed a review of the external drive that contains the Chapter's archived material. The drive was updated with the most recent information that the Committee has received, as well as materials from the Chapter website. During this process, the Committee determined that there are several documents missing from the archives. The Committee is keeping track of these items, and will determine a process to retrieve them. The Committee also noted that since 2005, archived materials (several boxes) have not been scanned into the external drive as digital files. The Committee may be able to take this scanning task on, but there may also be a need for financial assistance from the Chapter to accomplish this. After this material is scanned in, there will be a need to add these boxes to the remainder of the Chapter's archives, which are currently stored at the D.C. Booth Historic National Fish Hatchery and Archives (D.C. Booth) facility in Spearfish, South Dakota. Once the committee has a better idea of what these duties will entail, we will inform the Executive Committee.

The Committee also reviewed the Chapter's existing agreement with the D.C. Booth facility for storage of the Chapter's archives. This agreement ends December 31, 2019. The Committee will gather more information for the Excom to determine if there is interest in renewing the agreement, what the renewal process includes, the term of the renewal, etc.

Chapter President Fetherman notified the Committee of the upcoming 150th Anniversary of the Society in 2020. The Committee will need to start planning for development of the Chapter's "traveling" display, which ideally will be shared at the Chapter's 2020 Annual Meeting, as well as the 2020 Society Annual Meeting. The committee will be working with Jason on these efforts. Any suggestions for what this display may entail are welcome, and if you are interested in helping with the display, contact **Lori Martin** or **Jason Burckhardt**.

Awards: After a little prodding, the Awards Committee, chaired by **Travis Neebling**, received nominations for all of the Chapter awards (i.e., the Award of Excellence, Max Award of Merit, the Leaky Boot Award, and the Outstanding Mentor Award). This year's awards will be presented tonight at the banquet. Thanks to **Dan Brauch, Diana Miller, Estevan Vigil**, and **Chance Kirkeeng** for serving on this committee, and Steve Gale from the Mentoring Committee for assisting with the Outstanding Mentor Award.

Endowment: The two fully funded Chapter endowments are in good shape, with the CSU Endowment funded at just over \$30k, it was able to fund a \$1,100 scholarship this year. The UW endowment is sitting at just over \$32k and was able to fund a scholarship of \$1,300. We were able to set up an MOU outlining fundraising for the new CMU Endowment, and have started fundraising. We have four more years to fund the endowment fully at the \$25k mark. The chapter is matching any donations to the account at a 1:1 rate, and we are up to \$1,650 in the account currently. If you are interested in supporting the endowment, information is available in the raffle room, and you can donate in a couple of minutes right from your phone. Additionally, CMU has a spring fundraising drive on April 10th. If we have the most individual donations that day, they will give us an additional \$5k. If our chapter members can all donate that day we may be able to win. Donations can be as small as a dollar. We will send out a reminder email prior to April 10th. For any other ideas related to funding the endowment, please contact **Eric Gardunio**.

Environmental Policy: The Environmental Policy Committee will be looking into the link sent by the Society, which will give some background on the process involved in the repeal of the current Waters of the United States definition and some instruction on how to submit comments. The committee will email **Drue Winters** about a template or advice on standard language by the end of this week, and will hope to have a draft letter for our Chapter around March 18th.

The committee has been working on getting ski industry support for HR 4647 (Recovering America's Wildlife Act), which has 96 co-sponsors in the House. They shot the committee down the first time, based on the fact that they were focused on some other USFS-related legislative issue at the time, but they'll keep bugging them.

Fundraising: We had a total of ten sponsors for our meeting, including Colorado Parks and Wildlife, Bureau of Land Management, U.S. Forest Service, Oregon RFID, Skretting USA, 5 Smooth Stones River Restoration, GEI Consultants, Miller Net Company, Watervation, and Stillwater Sciences. These sponsors contributed a combined total of \$10,300.00. At the cutthroat trout level (\$2,000 or higher), we had Colorado Parks and Wildlife and Oregon RFID. Oregon RFID also contributed additional funds for the CMU Scholarship. At the Sauger level (\$1000-\$1999), we had 5 Smooth Stones River Restoration and GEI Consultants. At the Orangethroat darter level (up to \$999), we had BLM, USFS, Skretting USA, Miller Net Company, Watervation, and Stillwater Sciences. Sponsorship of the meeting is integral to being able to cover speaker expenses, meeting breaks, and assist with facility costs. This year is unique in that the Chapter has agreed to a 1:1 match up to \$12,500 on private donations over the next five years which will fund an annual scholarship for Colorado Mesa University fisheries students, and these sponsorship's will help with the match on those private donations to the CMU Endowment. On behalf of the Chapter, we thank these folks for their generous contributions in enabling our Chapter to conduct an excellent meeting this year! We could not do this without you!

Newsletter: The format of the newsletter has been updated and it looks very professional while still conveying all of the usual information contained within. We have received a lot of compliments on the new format. Great job Adam and Bill! The editors asked that it would be good to have a bunch of photos included in the newsletter of all of our work, as well as cover images and other items to include in the body of the newsletter. If you have some pictures that you would like to have included in the newsletter, please email those to **Adam Hansen** or **Bill Pate**.

Membership: The membership committee is currently working with the Western Division membership committee to compare membership lists received by the Chapter and Division from the Society, look for discrepancies, and determine the best approach for updating and maintaining the list serve so that all members have the opportunity to receive communications from the Chapter and Division in a timely manner.

Mentoring: We've got some great Mentor opportunities on our website for potential Mentee's to check out. Mentee applications are due by March 31.

In 2018, we had 12 Mentor Applications (4 in CO and 8 in WY) and we were able to match 2 Mentees up with Mentors for the 2018 program. In 2017, the Mentoring Committee received 11 Mentor Applications (4 in CO and 7 in WY) for the 2017 program and we were able to match up three of these Mentors with Mentees for the 2017 program. The 2016 program went very well as 2016 started off with 9 Mentor/Mentee pairings, of which 7 were active throughout the year. We continue to get more Mentor Applications than Mentees, but the Mentees that do participate in the program have gained invaluable experience with their Mentors, and we heard about some of those great experiences at the student social.

Since the program's inception in 2014 we have paired up 22 Mentees with Mentors. Some of these relationships have lasted beyond just the one year they were enrolled in the program. It is the Mentoring Committee's belief that as long as Chapter members volunteer their time to be Mentors, and there is continued interest from students, that this is a valuable Chapter program.

IX. Student Subunit Reports

a. Colorado State University (**Sandra Hargraves**)

-The Colorado State University Student Subunit now has around 30 dues-paying members with around 15-20 members attending each meeting. Our current checking account has around \$2500. Our current adviser is **Dr. Kanno**, who has stepped in for **Dr. Myrick** while on sabbatical.

-We have had two really great meetings this semester. Our first guest speaker was former CSU AFS President and current South Carolina US Fish and Wildlife Aquatic Biologist **Jonathan Wardell** and our second guest speaker was CO/WY American Fisheries Society President and Colorado Parks and Wildlife Aquatic Research Scientist, **Eric Fetherman**. Both meetings had above average attendance.

-We have been getting more involved in our community in Fort Collins by organizing river clean up days and volunteering at the local Environmental Learning Center to get children interested in and excited about fisheries and aquatics. Last month we spent a day collecting small-bodied native species from the Cache la Poudre River for the Museum of Discovery's native fish tank.

-We just applied for approval and insurance for our Evan Lefort Memorial Derby taking place at College Lake on Saturday April 27th and are currently seeking donations for the event from various companies around town.

-Finally, we hosted yesterday's student social and while it ended up being more work than we anticipated, we enjoyed coming up with fun ideas to make it a really great night for everyone.

b. University of Wyoming (Evan Booher)

-Current officers: President: **Evan Booher**, Vice-President: **Dominique Lujan**, Secretary: **Brody Garner**, Treasurer: **Colton Webb**

-Chapter advisers: **Dr. Annika Walters**, **Dr. Frank Rahel** Current bank account balance: \$825

-Current membership: about 25 total, 15 active

-2018/2019 Activity and News: A highlight of the fall semester in the UW subunit was our annual fundraiser, Beast Feast, on Nov. 7th, 2018. This was a joint event with the UW Student Chapter of The Wildlife Society and was held in conjunction with the TWS annual state meeting in Laramie, WY. The event was well attended and raised around \$750 for our subunit. On Nov. 15th we attended a tour of fish health and wildlife forensics lab facilities at the new WGFD office in Laramie, WY. We have held five monthly meetings to date during this school year, which included guest speakers from the Wyoming Game and Fish Department (**Steve Gale**) and the University of Wyoming (**Dr. Annika Walters**, **Dr. William Fetzer**). We designed new T-shirts that will be available for sale at the 2019 meeting in Fort Collins, CO. At this meeting, eight members presented posters and one gave an oral presentation.



-Future Plans: During our upcoming meetings this spring, we are hosting **Dr. Eric Fetherman** (CPW) in March and **Oliver Wilmot** (UW – WYNDD) in April. We are planning a two-part techniques demo for mid-April, with 1) field work including fish and aquatic invertebrate sampling and 2) follow up data analysis. We will conduct sampling on a local stream outside of Laramie, WY. We will document results of this work in a written report for the private landowner that is granting us stream access for the event. Officer elections will also be held during the April meeting. A joint AFS-TWS end of the year barbecue will be planned for our final meeting of the year during the month of May.

Recent UW Publications:

Bold Text = UW subunit student members and alumni

Ciepiela, L. R., and A. W. Walters. Early view. Quantifying $^{87}\text{Sr}/^{86}\text{Sr}$ temporal stability and spatial heterogeneity for use in tracking fish movement. *Canadian Journal of Fisheries and Aquatic Sciences*. doi.org/10.1139/cjfas-2018-0124

Girard, C. E., and A. W. Walters. 2018. Evaluating relationships between fishes and habitat in streams affected by oil and natural gas development. *Fisheries Management and Ecology* 25:366-379. doi.org/10.1111/fme.12303

Hickerson, B. T., A. W. Walters. 2019. Evaluation of potential translocation sites for an imperiled cyprinid, Hornyhead Chub *Nocomis biguttatus*. *North American Journal of Fisheries Management*. [doi: 10.1002/nafm.10261](https://doi.org/10.1002/nafm.10261)

Hooley-Underwood, Z., E. Mandeville, P. Gerritty, J. Deromedi, K. Johnson, and A.W. Walters. 2018. Combining genetic, isotopic, and field data to better describe movement and entrainment of burbot (*Lota lota*). *Transactions of the American Fisheries Society* 147:606-620. [doi/10.1002/tafs.10062](https://doi.org/10.1002/tafs.10062)

Kirk, M. A., A. N. Rosswog, K. N. Ressel, and S. A. Wissinger. 2018. Evaluating the Trade-Offs between Invasion and Isolation for Native Brook Trout and Nonnative Brown Trout in Pennsylvania Streams. *Transactions of the American Fisheries Society* 147(5):806-817.

Stewart, D. R., Z. E. Underwood, F. J. Rahel, and A. W. Walters. 2018. The effectiveness of surrogate taxa to conserve freshwater biodiversity. *Conservation Biology* 32:183-194. [doi/10.1111/cobi.12967](https://doi.org/10.1111/cobi.12967)

Walker, R. H., B. M. Maitland, T. N. Lasharr, M. N. Rosing, and Merav Ben-David. 2018. Fate of juvenile salmonids stranded in off-channel pools: implications for nutrient transfers. *Aquatic Sciences*. 80.

Walters, A. W., **C. Peterson**, F. Rahel. 2018. The interaction of exposure and sensitivity determines fish species vulnerability to warming stream temperatures. *Biology Letters* 14:20180342. doi.org/10.1098/rsbl.2018.0342

c. Colorado Mesa University (Anne Temple)

-Over the past year, the subunit increased membership and involvement of the student body in our club. Many professionals from Colorado Parks and Wildlife and the Bureau of Land Management dedicated their time and resources to students who attended our monthly meetings. We utilized our funds by providing food at our meetings and organizing outdoor activities for our members. This semester we plan to visit our local state parks to hike and wildlife watch, fish at nearby water reservoirs, and fundraise to pay for travel, park entry fees, and AFS memberships. Our board of elected officers includes **Anne Temple, Samantha Duven, Elijah Colombia**, and **Jefferson Jensen** and our advisors are **Eriek Hansen** and **Stephanie Matlock**. We are all excited to continue expanding the club, provide networking opportunities, and help students find future prospects for careers in the Colorado outdoors.

X. Unfinished Business

a. 2018 Travel Grant Recipients (**Kevin Gelwicks**)

-Kevin presented the 2019 Travel Grant Awards. There were three applicants for professional. The decision was made to award a \$1500 First Place grant and a \$750 Runner -up grant. First place for professionals went to **Diana Miller** for \$1,500, and Runner-up went to **Ed Kluender** for \$750. Two students applied for travel grants. Both students that applied got some money for travel. The First Place winner was **Evan Booher** from UW for \$1,500. **Brody Garner** received the Runner-up award of \$750.

XI. Announcement of Incoming Secretary-Treasurer (Kevin Gelwicks)

Kevin Gelwicks was pleased to announce the votes for the 2019/20 Secretary-Treasurer. It was a very close race between **Christina Barrineau** and **Steve Gale** but **Mrs. Barrineau** prevailed and will be the new incoming Secretary-Treasurer in August 2019.

XII. New Business

a. Discussion of formation of a Diversity and Inclusion Committee (**Eric Fetherman**)

-**Cheyenne Owens** with the Western Division Diversity and Inclusion Committee recently contacted us and let us know that several chapters within the Division are planning on starting Diversity and Inclusion Committees at the chapter level in the coming year. She would be happy to help us start a D&I Committee within the CO/WY Chapter. As we all know, fisheries does not occur within a bubble, it occurs in the real world, is directly linked to society and the diverse people that belong to it. As such, a true commitment to fisheries is a commitment to diversity, and a true commitment to diversity is a commitment to inclusion. The mission of the Western Division Diversity and Inclusion Committee is to foster the inclusion, participation, and equitable treatment of members of the Western Division of AFS without regard to gender or gender identity, race, national origin, ethnicity, religion, age, sexual orientation, physical or cognitive ability, political affiliation, or family, marital, or economic status, and further, to increase awareness of and encourage diversity and inclusion within the fisheries workforce. The objectives of the committee are to increase outreach, recruitment, engagement, and retention efforts with the goal of building and maintaining a membership that reflects human diversity, increase the overall diversity of speakers at annual meetings and of volunteers and members in leadership roles, encourage an inclusive internal culture, research and identify diversity and inclusion issues and challenges within AFS, and increase awareness of the mission and efforts of the Diversity and Inclusion Committee and provide avenues for feedback from the community. I believe that starting a Diversity and Inclusion Committee would be beneficial and worthwhile for the CO/WY Chapter. I would like to open it up for discussion to determine if there is an interest in forming a committee at the Chapter level that would work with the Western Division D&I Committee, and see if there are members that would be interested in being a part of this committee.

-Eric posed the question, "Do we want to create a committee to increase outreach to students, increase diversity for speakers, etc.?" The committee would be formed as a "special committee" under our by-laws. There was no opposition voiced against creating the committee and the Excom will work on forming the committee. **Mark Smith** volunteered to be a member of this new committee.

b. New logo design; idea is to hold a competition to re-design the CO/WY AFS Logo

-Member **Kendall Bakich** suggested updating our CO/WY AFS logo. The logo is somewhat outdated with the color scheme and digital resolution. **Jesse Trushenski** said the Society is also changing their logo and we should coordinate with **Martha Wilson** before getting to a final design on our end. The basic idea Kendall had was to hold a contest and come up with 3 or 4 finalist designs. The membership would then get an opportunity to vote on the designs – including the original – via email. There was some discussion of why do we need to change it, is there something wrong with the old one? The inclusion of the old logo in the voting should satisfy those who want to keep the old one but perhaps just update the digital image so that it can be used at a large scale without becoming “pixilated”.

XIII. Adjourn

Jason Burckhardt made the motion to Adjourn and **Willie Fetzer** seconded. Meeting adjourned at 12:55pm.

DID YOU KNOW:

- (1) Colorado/Wyoming Chapter Executive Committee members serve for four years as Secretary-Treasurer, Vice President, President, and Past President.
- (2) Executive Committee members participate in a summer retreat hosted by the Chapter President in association with the summer Excom Meeting.
- (3) The Vice President, funded by the Chapter, travels to the Western Division Meeting.
- (4) The President serves as a member of the Western Division Executive Committee, and takes part in the mid-year retreat hosted by the Western Division President.
- (5) The President hosts the Chapter annual meeting in their state.
- (6) Nominating for officers occurs within each state on an every other year basis such that the President hosts the annual meeting in their respective state.



Colorado members of the Colorado/Wyoming Chapter of AFS, are you interested in increasing your involvement in the Chapter by becoming a member of the Executive Committee? Do you have questions about the level of commitment and the responsibilities associated with being a Chapter officer? If so, please contact **Eric Fetherman** at Eric.Fetherman@state.co.us.

Photo credit: Adam Hansen



AWARD RECIPIENTS

Award of Excellence:



Dr. Kevin Rogers

Past President:



Kevin Gelwicks

Max Award of Merit:



Stephen Siddons, Wendy Estes-Zumpf, Travis Neebling

Outstanding Mentor Award:



Lori Martin

Leaky Boot:



John Walrath

AWARD RECIPIENTS



Best Student Paper: **Catherine de Vlaming**
"Laboratory and field evaluation of a new
LED-lighted light trap for sampling
Razorback Sucker larvae"



Best Student Poster: **Dominique Lujan**
"Effects of lake trout suppression methods
on nutrient cycling and lower trophic levels
in Yellowstone Lake"



Best Informational Paper: **Jessica Dugan**
"Current status of roundtail chub in the
Blacks Fork drainage of Wyoming"



Best Professional Paper: **Kevin Thompson**
"Manipulation of spawning to favor Colorado
River basin native suckers"



Best Professional Poster: **Kyle Dick**
"Otolith microstructure analysis informs
timing of nonnative northern pike removal in
the Yampa River, Colorado"

Treasurer's Report: FY2019

CHAPTER BALANCES (as of August 1, 2018)	
Checking	\$40,438
Savings	\$1,138
WD Investment Fund (value fluctuates)	\$44,651
	\$86,227

CURRENT BALANCES	
	\$31,019
	\$1,138
	\$49,678
	\$80,835

FY 2018-19 INCOME	Estimated
Annual Meeting Income	\$22,075
Raffle/Auction Income	\$3,138
Donations	\$7,745
Parent society refund	\$259
TOTAL INCOME	\$33,217

Received to Date	
	\$37,128
	\$3,734
	\$10,288
	\$297
	\$51,447

ANNUAL MEETING EXPENSES	Estimated	Itemized	Spent to Date
Base Registration Cost	\$1,255		
123 Signup Fee		\$1,255	\$1,187
*Credit Card Fee			\$1,074
*Refund to member			\$100
*Square Fees (Business and Raffle Transactions totaled \$5,561)			\$159
<i>Registration Budgeted minus Spent (*=new cost not included in budget)</i>			-\$1,265
Continuing Education Committee	\$1,500		
Continuing Education Workshop		\$1,500	\$379
<i>CE Budgeted minus Spent</i>			\$1,121
Food and Meeting Space Charges	\$17,982		
Hilton Fort Collins Catering Charges		\$14,000	\$28,056
Hilton Fort Collins Conference Center Charges		\$982	\$0
CSU Stadium Welcome Social		\$1,500	\$5,144
Student Social		\$1,500	\$4,460
<i>Food/Space Budgeted minus Spent</i>			-\$19,678
AV	\$600		
Hotel fees for screens and podiums		\$600	\$123
<i>AV Budgeted minus Spent</i>			\$477
Raffle Committee	\$1,500		
Raffle (seed money)		\$1,500	\$1,734
<i>Raffle Budgeted minus Spent</i>			-\$234
Other	\$4,285		
Presenter Awards		\$250	\$341
Awards Committee		\$100	\$0
Mentoring Committee		\$50	\$0
Nametags		\$150	\$45
Programs		\$500	\$0
Registration Committee		\$100	\$319
Registrant souvenirs and committee member lagniappe		\$1,500	\$1,442
Complimentary Rooms		\$1,635	\$1,879
<i>Other Budgeted minus Spent</i>			\$373
Speaker costs and donations	\$1,000		\$886
ANNUAL MEETING EXPENSES	\$28,122		\$47,169
ANNUAL MEETING EXPENSES BUDGETED VS SPENT			-\$19,047

Treasurer's Report: FY2019

ANNUAL CHAPTER EXPENSES	Annual	Itemized	Spent to Date
Archive Committee	\$100		
		\$100	\$0
Endowment Committee	\$50		
Mailings etc.		\$50	\$0
Website Committee	\$250		
Web Domain Registration		\$250	\$179
Mentoring Committee	\$2,000		
Reimbursement for travel, meeting registration, books		\$2,000	\$0
WD AFS Student Colloquium	\$500		
Annual Contribution		\$500	\$500
Other	\$1,675		
Donations (Western Division)		\$500	\$0
President Travel to WD Mid-year Meeting		\$1,000	\$511
Tax Preparation		\$25	\$0
Liability Insurance		\$150	\$150
US Bank Fees			
ANNUAL CHAPTER EXPENSES	\$4,575		\$1,340
ANNUAL CHAPTER EXPENSES BUDGETED VS SPENT			\$3,235
BYLAW APPROVED EXPENSES	Estimated	Itemized	Spent to Date
CMU Student Sub-unit	\$500		
Annual Contribution		\$500	\$500
CSU Student Sub-unit	\$500		
Annual Contribution		\$500	\$500
UW Student Sub-unit	\$500		
Annual Contribution		\$500	\$500
Executive Committee	\$2,025		
EXCOM Meeting Meals		\$525	\$498
VP Travel to WD Meeting in Reno, NV (ESTIMATED)		\$1,500	\$1,500
BYLAW APPROVED EXPENSES	\$3,525		\$3,498
BYLAW APPROVED EXPENSES BUDGETED VS SPENT			\$27
CHAPTER-APPROVED EXPENSES	Estimated	Itemized	Spent to Date
CO/WY AFS Member Travel Grants	\$4,500		
Travel expenses for CO-WY professional member travel to WD or Society Meeting		\$1,500	\$1,500
Travel expenses for CO-WY student member travel to WD or Society Meeting		\$1,500	\$1,500
Travel expenses for CO-WY member(s) travel to WD or Society Meeting		\$1,500	\$1,500
Website Migration to Society Platform	\$500		\$590
CO/WY AFS Matching Funds for CMU Endowment (over 5 years)	\$12,500		\$11,220
CHAPTER-APPROVED EXPENSES	\$17,500		\$16,310
CHAPTER-APPROVED EXPENSES BUDGETED VS SPENT			\$1,190
EXCOM-APPROVED EXPENSES IN 2019 (NOT TO EXCEED \$2,000)	\$ 2,000.00		Spent to Date
Brian Maitland Research Study UW			\$1,000
AFS Hutton Jr. Biology Program			\$250
Gaming/Raffle training certification			\$20
Diversity and Inclusion Workshop			\$103
EXCOM APPROVED EXPENSES			\$1,373
EXCOM APPROVED EXPENSES BUDGETED VS SPENT			\$627
	Estimated		Actual
TOTAL EXPENSES	\$53,722		\$69,690
TOTAL INCOME	\$33,217		\$51,447
BUSINESS ACCOUNT BALANCE	\$40,438		\$31,019
CHAPTER ENDING BALANCE	\$19,933		\$12,776
PROJECTED CHAPTER ENDING BALANCE WITH SAVINGS AND INVESTMENTS	\$65,722		\$81,835
ESTIMATED ANNUAL MEETING PROFITS	\$4,836		\$3,981
FY 19 NET (Current AFS balances minus starting balance on 8/1/2018)	\$65,722		-\$5,392

Proposed Budget FY:2020

CHAPTER BALANCES (as of August 1, 2019)	\$81,835
Checking	\$31,019
Savings	\$1,138
WD Investment Fund (value fluctuates)	\$49,678

INCOME	Estimated
Annual Meeting Income	\$27,010
Raffle/Auction Income	\$4,154
Donations	\$7,614
Parent society refund	\$297
TOTAL INCOME	\$39,075

ANNUAL MEETING EXPENSES	Estimated	Itemized
Base Registration Cost	\$1,756	
Registration fee		\$1,756
Continuing Education Committee	\$1,500	
Continuing Education Workshop		\$1,500
Food and Meeting Space Charges	\$21,850	
UW Catering Charges		\$15,650
UW Conference Center Room Charges		\$4,400
Student-hosted Social		\$1,800
AV	\$600	
Hotel fees for screens and podiums		\$600
Raffle Committee	\$1,500	
Raffle (seed money)		\$1,500
Other	\$4,000	
Presenter and Chapter Awards		\$350
Mentoring Committee		\$50
Nametags, Program Printing, and Registration		\$750
Registrant souvenirs and committee member lagniappe		\$1,500
Complimentary Rooms		\$1,350
Speaker costs and donations	\$1,000	
ANNUAL MEETING EXPENSES	\$32,206	

Proposed Budget FY:2020

ANNUAL CHAPTER EXPENSES	Annual	Itemized
Archive Committee	\$100	
		\$100
Endowment Committee	\$50	
Mailings etc.		\$50
Website Committee	\$250	
Web Domain Registration		\$250
Mentoring Committee	\$2,000	
Reimbursement for travel, meeting registration, books		\$2,000
WD AFS Student Colloquium	\$500	
Annual Contribution		\$500
Other	\$1,675	
Donations (Western Division)		\$500
President Travel to WD Mid-year Meeting (Boise, ID)		\$1,000
Tax Preparation		\$25
Liability Insurance		\$150
ANNUAL CHAPTER EXPENSES	\$4,575	
BYLAW APPROVED EXPENSES	Estimated	Itemized
CMU Student Sub-unit	\$500	
Annual Contribution		\$500
CSU Student Sub-unit	\$500	
Annual Contribution		\$500
UW Student Sub-unit	\$500	
Annual Contribution		\$500
Executive Committee	\$2,525	
EXCOM Meeting Meals		\$525
VP Travel to WD Meeting in Vancouver, British Columbia (ESTIMATED)		\$2,000
BYLAW APPROVED EXPENSES	\$4,025	
CHAPTER-APPROVED EXPENSES	Estimated	Itemized
CO/WY AFS Member Travel Grants	\$4,500	
Travel expenses for CO-WY professional member travel to WD or Society Meeting		\$1,500
Travel expenses for CO-WY student member travel to WD or Society Meeting		\$1,500
Travel expenses for CO-WY member(s) travel to WD or Society Meeting		\$1,500
CO/WY AFS Matching Funds for CMU Endowment (over 5 years)	\$1,280	
CHAPTER-APPROVED EXPENSES	\$5,780	
EXCOM-APPROVED EXPENSES IN 2019 (NOT TO EXCEED \$2,000)		
	Estimated	
TOTAL PROJECTED EXPENSES	\$46,586	
PROJECTED CHAPTER ENDING BALANCE	\$74,324	
ESTIMATED ANNUAL MEETING PROFITS	\$6,572	
FY 20 NET	-\$7,511	

THE LENS RE:CAP

CANDIDS FROM THE ANNUAL MEETING
CREDIT: BRIAN AVILA



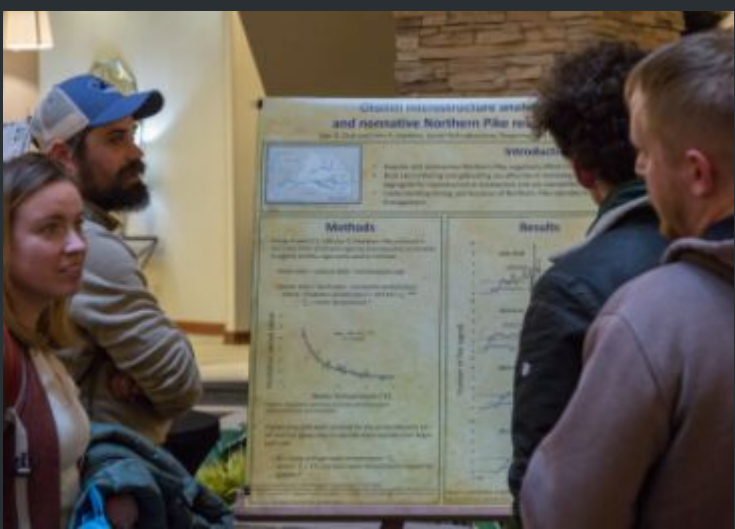


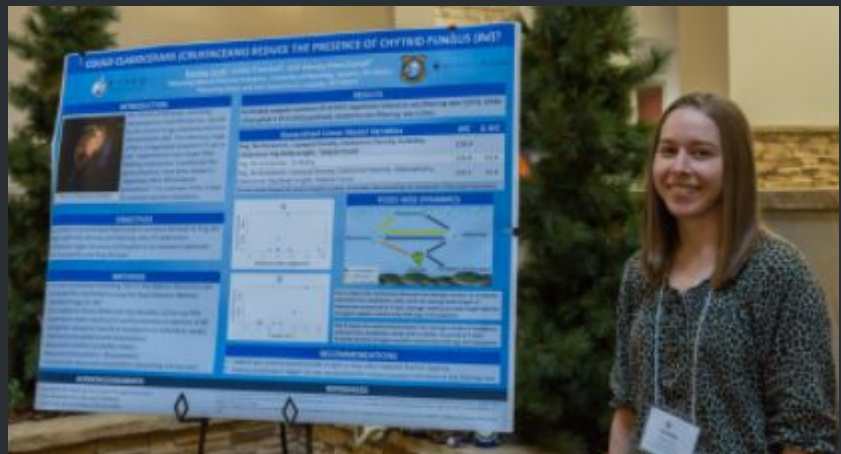
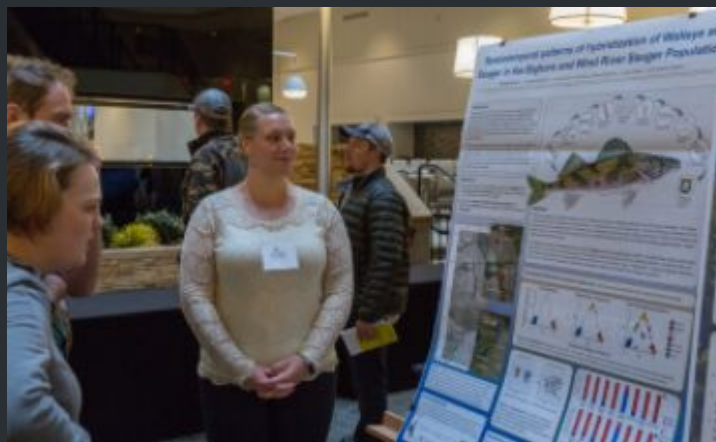
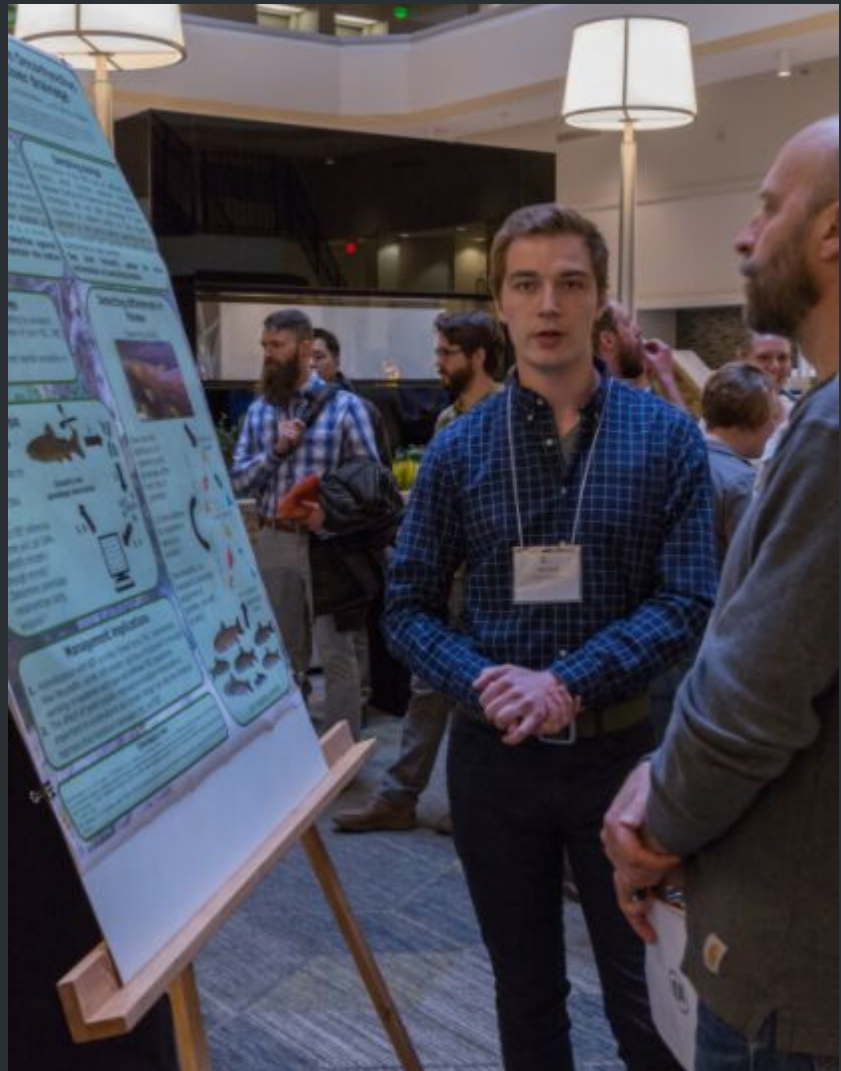
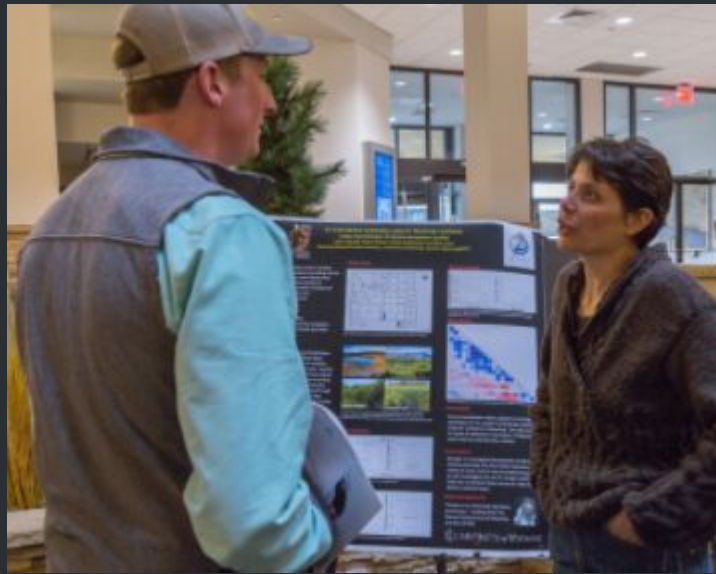
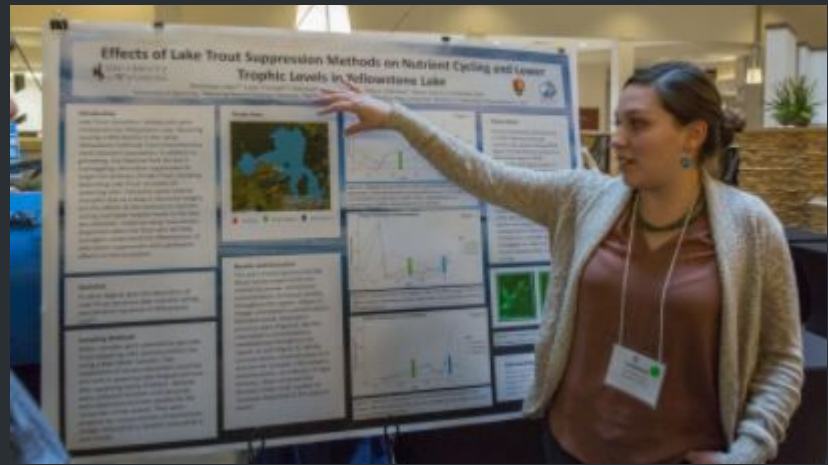
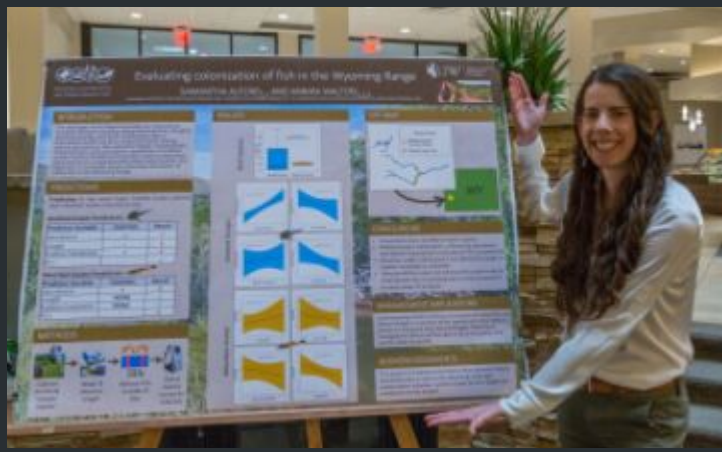


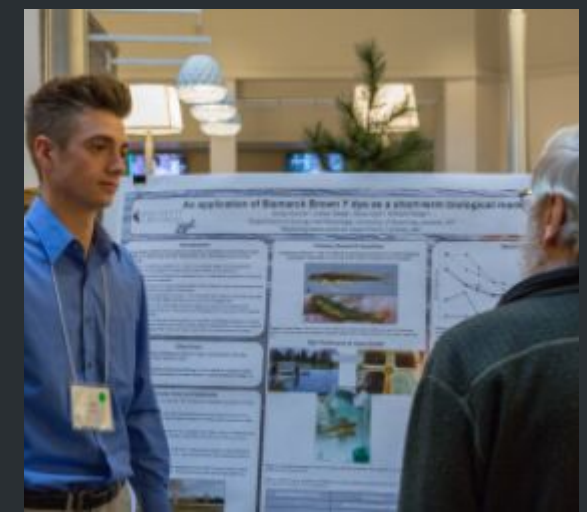
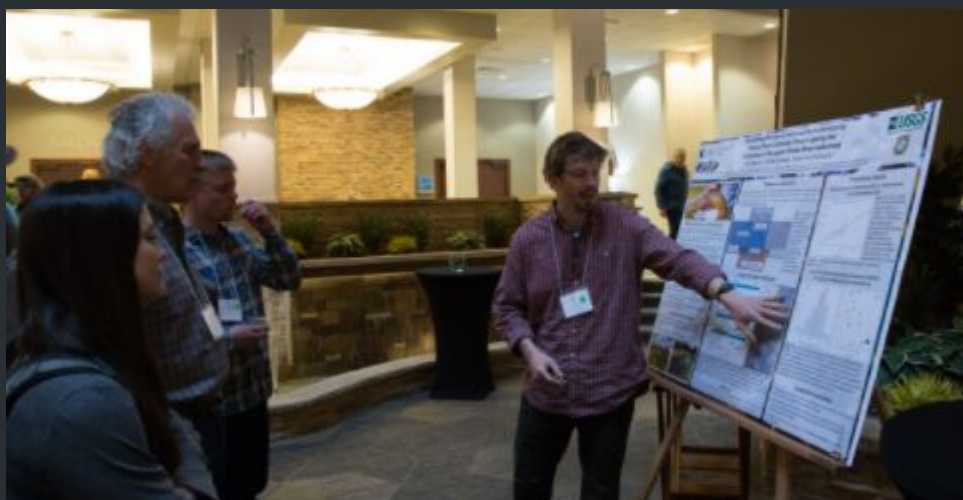
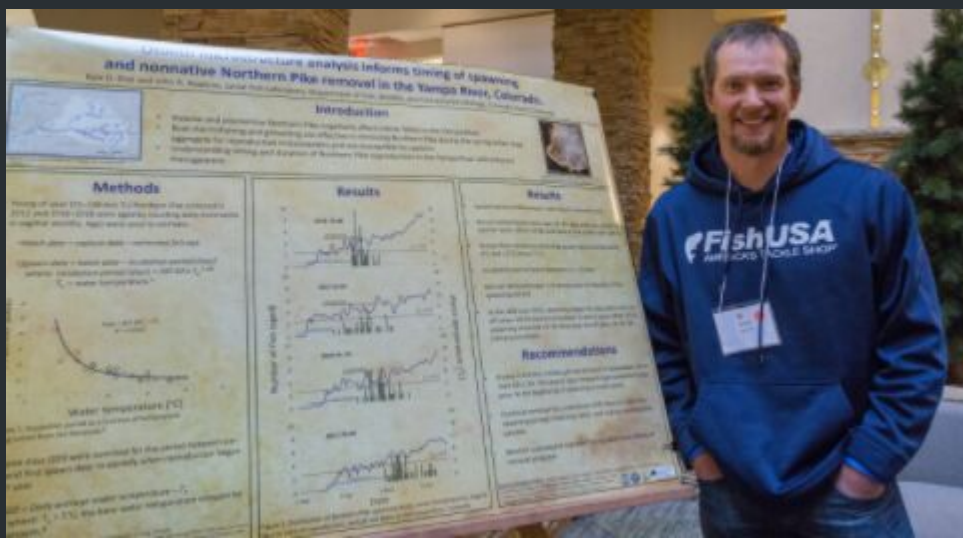
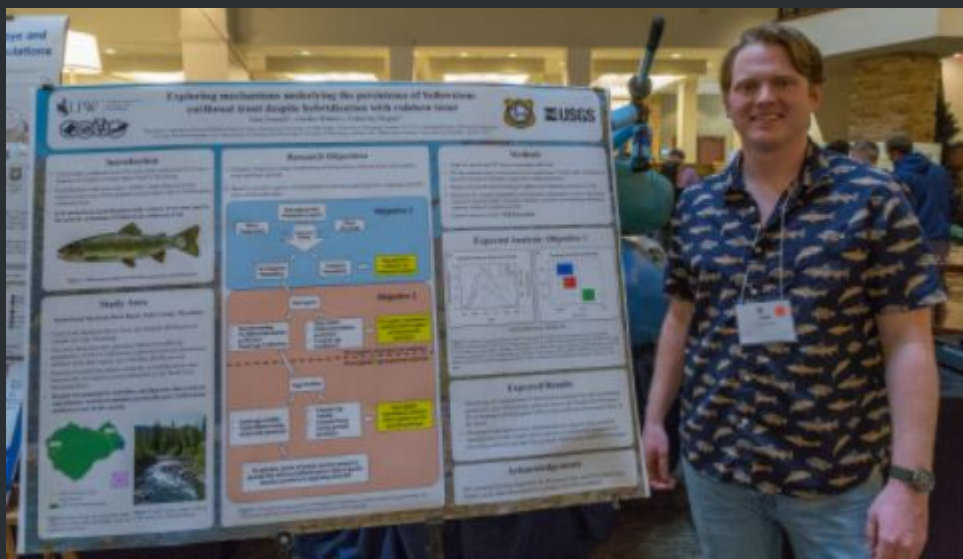






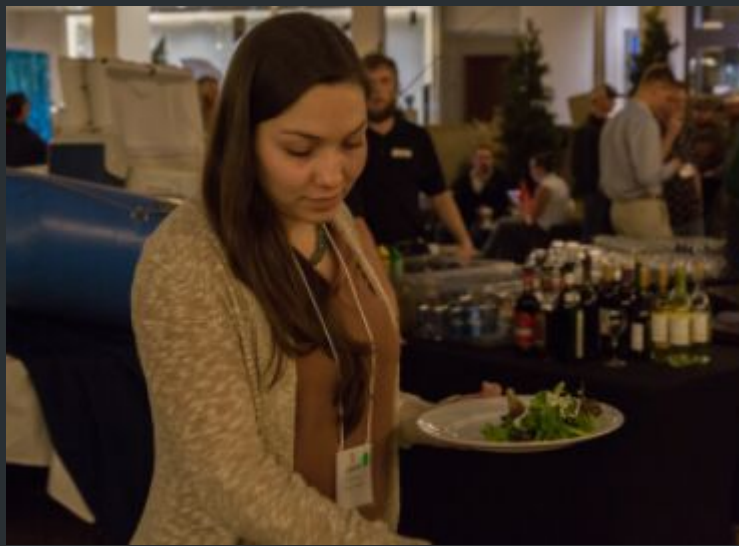
























Pictures from the 2019 Summer Excom Meeting and Retreat!

The summer Excom meeting was held in Cody, WY and the retreat took place on the North Fork of the Shoshone River, hosted by **Jason Burckhardt**.



2019-2020 Chapter Officers and Committee Members

Chapter Officers		
President	Jason Burckhardt	jason.burckhardt@wyo.gov
Vice President	Jim White	j.white@state.co.us
Secretary/Treasurer	Christina Barrineau	Christina.barrineau@wyo.gov
Past-President	Eric Fetherman	eric.fetherman@state.co.us
UW Subunit President	Dominique Lujan	dlujan1@uwyo.edu
CSU Subunit President	Sandra Hargraves	hargraves.sandra@gmail.com
CMU Subunit President	Anne Temple	aetemple@mavs.coloradomesa.edu
Standing Committees		
Arrangements	Shawn Anderson	shawn.m.anderson@usda.gov
	Laura Burckhardt	laura.burckhardt@wyo.gov
Chapter Archivist	Lori Martin (chair)	lori.martin@state.co.us
Continuing Education	Diana Miller (co-chair)	diana.miller@wyo.gov
	Dan Kowalski (co-chair)	dan.kowalski@state.co.us
Environmental Policy	Jim White (chair)	j.white@state.co.us
	Kevin Gelwicks	kevin.gelwicks@wyo.gov
	Laura Burckhardt	laura.burckhardt@wyo.gov
	Ashley Ficke	ashleyduncanficke@gmail.com
Membership	Wes Gordon (co-chair)	wes.gordon@wyo.gov
	Tom Fresques (co-chair)	tom.fresques@blm.gov
Newsletter	Adam Hansen	adam.hansen@state.co.us
	Bill Pate	bill.pate@colostate.edu
Nominating Program	Eric Fetherman	eric.fetherman@state.co.us
	Annika Walters	annika.walters@uwyo.edu
	John Woodling	woodling@colorado.edu
	John Walrath	john.walrath@wyo.gov
	Steve Gale	steve.gale@wyo.gov
Special Committees		
Aquaculture	Lars Alsager	lars.alsager@wyo.gov
	Toby Mourning	toby.mourning@state.co.us
Audio-Visual	Vacant	
Awards	Travis Neebling	travis.neebing@wyo.gov
Endowment Funding	Eric Gardunio	eric.gardunio@state.co.us
Fundraising	Paul Gerrity	paul.gerrity@wyo.gov
	Matt Kondratieff	matt.kondratieff@state.co.us
	Anna Senecal	anna.senecal@wyo.gov
Gifts	Erin Leonetti (chair)	erin.sobel@wyo.gov
Mentoring	Chance Kirkeeng (chair)	steve.gale@wyo.gov
Paper/Poster Judging	Tyler Swarr	tyler.swarr@state.co.us
Raffle	Eric Gardunio (co-chair)	eric.gardunio@state.co.us
	Stephen Siddons (co-chair)	stephen.siddons@wyo.gov
	Zack Underwood (co-chair)	zginko@gmail.com
Registration	Christina Barrineau	Christina.barrineau@wyo.gov
Student Liaison	Eriek Hansen	erihansen@coloradomesa.edu
Website	Joe Skorupski	joe.skorupski@wyo.gov