



THE ANGLER

Newsletter of the Colorado-Wyoming Chapter of the
American Fisheries Society

www.cowyafs.org

Volume 39, Number 2, August 2016

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The Vent

Bobby Compton

By all accounts, the 2016 annual meeting in Laramie was a success! We had 208 attendees (42 were students), 36 oral presentations (10 were students), and 14 poster presentations (8 were students). We ended up with nearly \$12,000 in meeting income; \$9,000 more than we expected. This was due to increased registration income from the high number of attendees, unexpected raffle income (the fat bike was truly a hit!), and generous sponsors. We awarded \$3,400 in travel grants and \$1,500 in small project grants. Additionally, 127 people attended at least one of the three Continuing Education Courses.

The 50th Anniversary celebration drew in many Chapter members, both young and old. It was amazing to visit with the new generation of energetic students from our three Student Sub-units and share stories with many of the retired members who graciously made the trip to the Gem City. Being able to chat with people like Mary McAfee, Steve Facciani, David Dufek, and Steve Flickinger made me really appreciate our Chapter pride and how much we all have done to make it succeed. The retrospective symposium further highlighted the changes, challenges, and good times our members have experienced over 50 years.

At the Western Division level, the Executive Committee (which includes all Chapter presidents) recently voted to approve a structured rotation of Western Division Annual meetings so that all nine chapters will host an annual meeting every nine years. We last hosted a Western Division meeting in Jackson in 2012, and the proposed schedule lists us

Photo credit: Edward Kluender



hosting again in 2023, 11 years later. The Western Division is scheduled to host the 2023 Parent Society meeting. Did you catch that? The big meeting may be coming to our town in 2023! We last hosted an AFS meeting in Jackson in 1962 and in Denver in 1960. Both of these meetings occurred before our COWY Chapter was established, so in reality our Chapter has never hosted a national meeting. Based on past successful meetings and our active and dedicated membership, there is no doubt we are ready for the challenge of hosting a large meeting. I invite all our members, both rookie and veteran, to step up in planning and hosting this event, if it truly does come our way. It will be a great opportunity to show the fisheries world our Chapter excellence and the fantastic aquatic resources of Colorado and Wyoming.



Photo credit: Edward Kluender

Business Meeting Minutes

ExCom meeting minutes available on the chapter website at: <http://www.cowyafs.org/> under the "Documents" link.

2017 CO/WY – UT Joint Meeting

Mark those calendars! For the first time in 12 years, Colorado/Wyoming and Utah Chapters will host a joint annual meeting February 21-23 in Grand Junction at the Double Tree Inn.



Annual Meeting Award Recipients

The Award of Excellence was presented to **Greg Brunjak**, for being an outstanding conservation leader in the aquatic natural resources management and the aquaculture industry. Mr. Brunjak has served as the President of the Colorado Fish Health Board, and representative on the Colorado Aquatic Nuisance Species Steering Committee. His work on the Natural Resource Damage Assessment and Restoration Program in the upper Arkansas River drainage has led to aquatic habitat and riparian restoration projects that would have been unattainable without his leadership.

The CSU outstanding Subunit Member Award was presented to **Cody Tyler**.



Annual Meeting Award Recipients



Left to right: John Alves, Jim White, Dan Brauch. Photo credit: Edward Kluender

The “Max” Award of Merit went to two recipients; **Jim White** (above) for being a stellar aquatic biologist in the San Juan and Dolores River basins completing a Colorado River Cutthroat Trout restoration project on Hermosa Creek while coordinating and monitoring the Gold King mine spill on the Animas River near Silverthorn, and to the **Platte River Revival (Below)** for the grassroots community-led restoration effort to improve water quality, enhance fisheries and riparian habitat, provide greater recreational opportunities, and improve the economic benefit of the North Platte River to the City of Casper, Wyoming.



Photo credit: Edward Kluender

Best Paper Professional (Scientific): Anna Senecal - 110 years of small-scale, anthropogenic change contribute to assemblage shifts in a free-flowing river (photo top left)

Best Paper Professional (Informational): Kurt Fausch - Groundwater depletion in the western Great Plains is projected to dry 250 km of stream fish habitat in the next 45 years

Best Student Paper: Richard Walker - Does oil and natural gas development and hydrology interact to affect fish populations (photo top right)

Best Professional Poster: Kevin Thompson and Nick Salinas - Spawning movement of Bluehead Sucker and Flannelmouth Sucker in Roubideau Creek, Gunnison River Basin, CO (photo bottom left)

Best Student Poster: Kyle Christianson - Using eDNA to detect *Mysis diluviana* in lentic systems (photo bottom right)

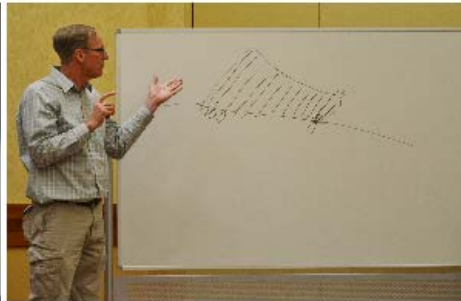


Photo credit: Edward Kluender

Outstanding Mentor and Leaky Boot Awards were not awarded in 2016.

Continuing Education

The Continuing Education committee is soliciting ideas for future continuing education courses. If you would like to see a particular course offered, please contact diana.miller@wyo.gov or dan.kowalski@state.co.us.



Mentoring Committee Updates

2015 COWY AFS Mentee, **Katie Deroche**, has assisted her Mentor, Christina Barrineau (Wyoming Game and Fish Department, Aquatic Habitat Biologist, Laramie) with a few important projects. Beginning in June, Katie assisted with the Platte Valley Habitat Partnership Volunteer fence removal day (see photo). Katie worked hard removing old fence to improve movement corridors for wildlife, and got to meet with folks for the local conservation district and Trout Unlimited. Katie also assisted with a watershed assessment and fish passage assessment in a drainage in the Snowy Range. Katie learned about stream and watershed health, as well as why fish passage at irrigation diversions is important. Steve Gale stepped in to help Katie get some electrofishing experience. Katie was excited to help Steve with sampling in Crow Creek in Cheyenne. The sampling was part of an effort to further understand the non-game fish community in Crow Creek. Katie looks forward to assisting Christina in the fall as her school schedule allows.

2016 COWY AFS Mentee, **Cody Tyler**, has been assisting his Mentor, April Kraft (Colorado Parks and Wildlife, Aquatic Animal Health Lab, Brush) with a variety of fish health projects. Cody's first experience at the lab was focused on testing for *Myxobolus cerebralis*, a

myxosporean parasite that causes whirling disease. Cody assisted by defleshing Rainbow Trout heads from the Glenwood Springs State Fish Hatchery. Cody also helped in the PCR lab by extracting DNA from Cutthroat Trout. These fish were tested to ensure that they are pathogen free before being stocked via airplane in high mountain lakes. In addition, Cody traveled to Boulder to assist with a fish health inspection. Tissue samples from 60 Rainbow Trout were collected and sent to the lab for parasitology, bacteriology, and virology testing.



Katie Deroche

Mentoring Committee Updates

Working with Lori Martin for the second season, 2016 COWY AFS veteran Mentee, **Kristina Morben** remarks:

"It has been an amazing opportunity to work under and be advised by such an amazing person. [Lori and I] have been able to focus on some of the opportunities that I did not get to experience last year... We discussed some of the planning that goes into management programs for the different fisheries within the region. Last year was a lot of field work and hands on experience with fish and this year we are focusing on the behind the scenes work for those various projects."



Kristina Morben

2016 COWY AFS Mentee, **Kelsi Antonelli** has worked with Lori Martin and Ben Felt this season. She has this to say:

"This is my first year as Lori's mentee, though Lori has been helpful to me in the past in a variety of ways. It's been a busy summer... In April, I...PIT tag[ged] razor back suckers before releasing them into the river. In June...I teamed up with the northwest region's new aquatic biologist, Ben Felt, and put in two solid days of electrofishing in Unaweep Canyon. In the coming weeks, Lori, Kristina, and I plan on doing some data work so that I can gain a better understanding of what the CPW does with the data we take from the field. Thus far, my mentorship has been a great learning experience and a ton of fun!"



Kelsi Antonelli



Students and Mentors mingle at the 2016 Student Social. Photo credit: Edward Kluender

"Thus far, my mentorship has been a great learning experience and a ton of fun!"

- Kelsi Antonelli



Western Division American Fisheries Society

Reno Highlights

Kevin Thompson

Hello Colorado-Wyoming AFS members! I want to express my deep appreciation for the travel grant you offered me in order to attend and present at the Western Division 2016 Annual Meeting in Reno. I would not have been able to attend without the ability to request the out-of-state travel on a no-cost basis to my agency. I presented the paper "Genetic contribution of native and introduced catostomids to larval drift in experimental and control streams of the Gunnison River Basin", including the 2015 genetics results that I was not able to include at our prior chapter meeting in Laramie. It was a part of the largest symposium of the meeting – The Ecology and Management of Western Native Fishes – which covered the gamut from high elevation Cutthroat and Golden Trout to Chinook Salmon and Delta Smelt.

There were some very good symposia and papers at the meeting and I enjoyed many papers both within and outside of the symposium in which I presented. Professionally, I made some good contacts with other folks working on native fishes of concern in our Division, including the "Western Native Fishes Committee", the goal of which is to encourage professional interaction among biologists working in the native fish arena all over our Division.

Parent Society members, if you were at our Chapter Meeting business luncheon in Laramie, you may recall that not many applications were received for either the professional or student travel grants. These grants are a great opportunity to get to attend an AFS meeting that

otherwise would be out of your reach! In 2017, the Western Division will meet in Missoula, MT (May 21-26) and the Parent Society in Tampa, FL (August 20-24). I've had my turn, why don't you consider taking advantage of this avenue toward attending one of these meetings?



Congratulations to Adam Hertrich of the Winkleman Lab for winning Western Division 2016 Best Student Paper!

\$1,500 student and professional travel grants available for 2017 Western (Missoula, MT May 21-26) and National (Tampa, FL August 20-24) meetings.

Application details will be announced in the Nov/Dec Angler newsletter.

2016 Excom Retreat



Bobby Compton, Kevin Gelwicks and Rick Henderson livin' large in Steamboat Springs. Want to go on retreat? Put your name in the hat and this could all be yours...

Thank you to our 2016 Meeting Donors and Sponsors

Meeting Sponsors



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Restoration**

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Lars Alsager
Pete Starr
Elkhorn Fly Rods
Adam Leiferman
Wild Wings
High Hops Brewery
Coal Creek Tap

Treasurers Report

Final Budget Colorado-Wyoming AFS Fiscal Year 2016 August 1, 2015 – July 31, 2016

BEGINNING CHAPTER BALANCES	
Checking	\$37,982
Savings	\$12,137
Raffle Account	\$475
WD Investment Fund (value fluctuates)	\$20,661
TOTAL	\$71,255

CURRENT BALANCES
\$43,085
\$12,138
\$496
\$22,655
\$78,373

INCOME	Estimated
Annual Meeting Income	\$32,745
Parent society refund	\$300
WD 2015 Cutthroat Trout Symposium Rebate	
Raffle-Nesler Books at Parent Society Meeting	
TOTAL INCOME	\$33,045

Received to Date
\$44,087
\$286
\$1,268
\$292
\$45,932

ANNUAL MEETING EXPENSES	Estimated	Itemized	Spent to Date
Base Registration Cost	\$1,500		
123 Signup Fee		\$1,500	\$1,950
Continuing Education Committee	\$1,500		
Continuing Education Workshop		\$1,500	\$1,850
Food	\$20,500		
Hilton Food & Service Charges		\$19,000	\$15,375
Hilton Room Rental Fee			\$4,950
Deposit paid to Hilton in FY15			-\$1,410
Student Social		\$1,500	\$1,902
AV	\$500		
Hotel fees for screens and podiums		\$500	\$1,032
Raffle Committee	\$1,400		
Raffle (seed money)		\$1,400	\$1,551
Other	\$3,450		
Presenter Awards		\$250	\$229
Awards Committee		\$100	\$277
Mentoring Committee		\$50	
Nametags		\$100	\$144
Membership Committee		\$50	
Student Volunteer Reimbursements		\$1,500	\$1,880
Programs		\$500	\$700
Registration Committee		\$100	\$183
Complimentary Rooms		\$800	\$913
Speaker costs and donations	\$1,000		
Coozies			\$300
Committee Gifts			\$566
SUB-TOTAL ANNUAL MEETING EXPENSES	\$29,850		\$32,392

ANNUAL CHAPTER EXPENSES	Annual	Itemized	Spent to Date
Archive Committee	\$100		
		\$100	

Endowment Committee	\$50		
Mailings etc.		\$50	
Website Committee	\$125		
Web Domain Registration		\$125	\$155
Mentoring Committee	\$2,000		
Reimbursement for travel, meeting registration, books		\$2,000	\$863
Other	\$2,350		
Donations (Western Division)		\$500	\$500
President Travel to WD Mid-year Meeting		\$1,000	\$602
Tax Preparation		\$700	\$725
Liability Insurance		\$150	\$150
US Bank service charges			\$3
SUB-TOTAL ANNUAL CHAPTER EXPENSES	\$4,625		\$2,999

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	\$3,525		
EXCOM Meeting Lunch		\$250	\$130
Lunches & Dinners for Summer ExCom Meeting in Laramie		\$275	\$50
VP Travel to WD Meeting In Reno, NV		\$1,500	\$1,172
Remaining travel expenses from 2015 VP travel to Portland AFS meeting		\$1,500	\$1,162
BYLAW APPROVED EXPENSES	\$5,025		\$4,014

CHAPTER-APPROVED EXPENSES	Estimated	Itemized	Spent to Date
COWY AFS Member Travel Grants	\$3,800		
Travel expenses for prof. member travel to WD or National Meeting		\$1,500	\$1,015
Travel expenses for student member travel to WD or National Meeting		\$1,500	\$744
Remaining travel expenses from 2015 travel grants to Portland AFS meeting		\$800	\$797
Grant towards printing costs of Mussels of Wyoming Field Guide	\$1,000		\$1,000
SUB-TOTAL CHAPTER-APPROVED EXPENSES	\$3,800		\$3,555

EXCOM-APPROVED EXPENSES IN 2016 (NOT TO EXCEED \$2,000)	Estimated	Itemized	Spent to Date
2016 Western Division AFS Student Colloquium Contribution			\$500
American Fisheries Society Skinner Memorial Fund Contribution			\$500
SUB-TOTAL EXCOM APPROVED EXPENSES	\$0		\$1,000

TOTAL PROJECTED EXPENSES	\$43,300		\$43,960
PROJECTED CHAPTER ENDING BALANCE	\$60,525		\$78,373
ESTIMATED ANNUAL MEETING PROFITS	\$2,895		\$11,695
FY 16 NET	\$60,525		\$1,972

**Proposed Budget
Colorado-Wyoming AFS Fiscal Year 2017 Budget
August 1, 2016 to July 31, 2017**

BEGINNING CHAPTER BALANCES		
Checking	\$43,646	
Savings	\$12,138	
WD Investment Fund (value fluctuates)	\$18,738	
Raffle Account		
TOTAL	\$74,522	
INCOME		
	Estimated	
Annual Meeting Income	\$28,845	
Parent society refund	\$300	
TOTAL INCOME	\$29,145	
ANNUAL MEETING EXPENSES		
	Estimated	Itemized
Base Registration Cost	\$987	
123 Signup Fee		\$987
Continuing Education Committee	\$1,500	
Continuing Education Workshop		\$1,500
Food	\$13,445	
Doubletree Food & Service Charges		\$11,945
Student Social		\$1,500
AV	\$1,000	
Hotel fees for screens and podiums		\$1,000
Raffle Committee	\$1,400	
Raffle (seed money)		\$1,400
Other	\$3,700	
Presenter Awards (speaker gifts included in spent total)		\$250
Awards Committee		\$100
Nametags		\$100
Membership Committee		\$50
Student Volunteer Reimbursements		\$1,400
Programs		\$500
Registration Committee		\$100
Complimentary Rooms		\$1,200
Speaker costs and donations	\$500	
SUB-TOTAL ANNUAL MEETING EXPENSES	\$22,532	
ANNUAL CHAPTER EXPENSES		
	Estimated	Itemized
Archive Committee	\$100	
		\$100
Endowment Committee	\$50	

Mailings etc.		\$50
Website Committee	\$125	
Web Domain Registration		\$125
Mentoring Committee	\$2,000	
Reimbursement for travel, meeting registration, books		\$2,000
Other	\$2,625	
Donations (Western Division)		\$500
Donations (National)		\$250
President Travel to WD Mid-year Meeting		\$1,000
Tax Preparation		\$725
Liability Insurance		\$150
SUB-TOTAL ANNUAL CHAPTER EXPENSES	\$4,900	
BYLAW APPROVED EXPENSES	Estimated	Itemized
CSU Student Sub-unit	\$500	
Annual Contribution		\$500
UW Student Sub-unit	\$500	
Annual Contribution		\$500
CMU Student Sub-unit	\$500	
		\$500
Executive Committee	\$2,300	
EXCOM Meeting Lunch		\$250
Lunches & Dinners for Summer ExCom Meeting in Steamboat		\$275
Lunches & Dinners for Summer ExCom Meeting in Grand Junction		\$275
VP Travel to WD Meeting In Missoula, MT		\$1,500
SUBTOTAL BYLAW APPROVED EXPENSES	\$3,800	
CHAPTER-APPROVED EXPENSES	Estimated	Itemized
CO/WY AFS Member Travel Grants	\$3,000	
Travel expenses for Professional member travel to WD/National Meeting		\$1,500
Travel expenses for Student member travel to WD/National Meeting		\$1,500
SUB-TOTAL CHAPTER-APPROVED EXPENSES	\$3,000	
EXCOM-APPROVED EXPENSES IN 2017 (NOT TO EXCEED \$2,000)	Estimated	
SUB-TOTAL EXCOM APPROVED EXPENSES		
TOTAL PROJECTED EXPENSES	\$34,232	
ESTIMATED ANNUAL MEETING PROFITS	\$29,145	
ESTIMATED FY17 CHAPTER PROFIT	-\$5,087	
ESTIMATED FY17 CHAPTER CHECKING ENDING BALANCE	\$38,559	

2016 – 2017 CO/WY Chapter Officers and Committee Members

Chapter Officers		
President	Rick Henderson	rhenderson01@fs.fed.us
Vice President	Kevin Gelwicks	kevin.gelwicks@wyo.gov
Secretary/Treasurer	Eric Featherman	eric.featherman@state.co.us
Past-President	Bobby Compton	bobby.compton@wyo.gov
UW Subunit President	Richard Walker	rwalker2442@gmail.com
CSU Subunit President	Estevan Vigil	afscsu@gmail.com
CMU Subunit President	Kristina Morben	kamorben@mavs.coloradomesa.edu
Standing Committees		
Arrangements	Benjamin Felt	benjamin.felt@state.co.us
Chapter Archivist	Greg Anderson (chair)	greg.anderson@wyo.gov
	Venice Beske	venice.beske@state.co.us
Continuing Education	Dan Kowalski	dan.kowalski@state.co.us
	Diana Miller (co-chair)	diana.miller@wyo.gov
Environmental Policy	Kevin Gelwicks	kevin.gelwicks@wyo.gov
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	Laura Burckhardt	laura.burckhardt@wyo.gov
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	Tom Fresques	tom_fresques@blm.gov
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Nominating Program	Bobby Compton	bobby.compton@wyo.gov
	Jason Burckhardt	jason.burckhardt@wyo.gov
	Christina Barrineau	christina.barrineau@wyo.gov
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Aquaculture	Lars Alsager	lars.alsager@wyo.gov
Audio-Visual	Benjamin Felt	benjamin.felt@state.co.us
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	Lori Martin	lori.martin@state.co.us
	Darren Rhea	darren.rhea@wyo.gov
	Dana Winkelman	dana.winkelman@colostate.edu
Paper/Poster Judging	Mandi Brandt	mandi.brandt@state.co.us
Raffle	Boyd Wright (chair)	boyd.wright@state.co.us
	Adam Leiferman	adam.leiferman@wyo.gov
Registration	Eric Featherman	eric.featherman@state.co.us
Student Liaison	Eriek Hansen	erihansen@coloradomesa.edu
Website	Joe Skorupski	joe.skorupski@wyo.gov

2016 CO/WY Annual Meeting Photo Album



Clockwise beginning top left: past presidents, Mary McAfee and Lori Martin, Bobby Compton and Dan Brauch, banquet, Clee Sealing, Dan Brauch and Mary McAfee, past female presidents. Photo credit: Edward Kluender.

2016 CO/WY Annual Meeting Photo Album



Clockwise beginning top left: student subunits, Kyle Christianson's poster, Billy the auctioneer, Kevin's sweet bike, history display, Richard Walker and Brian Maitland at the student colloquium, student subunit presidents (Kristina Morben is standing in for Kelsi Antonelli). Photo credit: Edward Kluender.

2016 CO/WY Annual Meeting Photo Album



Clockwise beginning top left: Mary McAfee and Ryan Fitzpatrick, Cam and his sandwich press, history display, Lindsey Capiela's poster, history display, continuing education. Photo credit: Edward Kluender.