



# THE ANGLER

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

[www.cowvafs.org](http://www.cowvafs.org)

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## ***In this issue:***

<i>The Vent</i>	<i>p. 1</i>
<i>2018 Meeting Info.</i>	<i>p. 2</i>
<i>Continuing Education</i>	<i>p. 6</i>
<i>Sec-Treasurer Election</i>	<i>p. 7</i>
<i>Committee Updates</i>	<i>p. 8</i>
<i>Mail-in Registration Form</i>	<i>p. 10</i>
<i>Committee Member List</i>	<i>p. 11</i>
<i>News and Events</i>	<i>p. 13</i>

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## **The Vent**

**Kevin Gelwicks**

I am both honored and humbled to be serving as President of the Colorado-Wyoming Chapter of the American Fisheries Society. As we all learned at the 50<sup>th</sup> Anniversary Meeting in 2016, I am following in the footsteps of greatness. I have been a member of AFS for over 25 years, spending almost 22 of those years with the Colorado-Wyoming Chapter. To me, the Chapter gives a diverse array of fisheries professionals an opportunity to interact and learn from each other. I don't know about you, but I always feel energized after attending an annual meeting. Hopefully this year's meeting will not disappoint, and I invite each and every one of you to attend in Laramie on February 27-March 1.

This year's meeting will kick off with a plenary session that explores the role citizen scientists and volunteers can play in fisheries management and conservation. Four excellent speakers will be there to give their perspectives on this emerging topic, followed by a short panel discussion. We are also looking forward to a full slate of presentations and posters that cover a wide array of topics. Whether you are a fish culturist, management biologist, habitat biologist, or researcher, there should be something of interest to everyone. And don't miss attending one of the two free continuing education courses on Tuesday...details can be found in this issue of The Angler.



The success of this year's meeting depends on participation from people like you and I strongly encourage all members to attend. Also, please consider sharing the great work you are doing in the form of a presentation or poster. We are not just looking for presentations on cutting edge research, although those always have a place at our meeting. We would also like to see more informational presentations about your local success stories, whether it is a local fishery that is booming, a promising new fish culture methodology, or a recently completed habitat improvement project. There is still time to submit an abstract, but the February 2 deadline is rapidly approaching.

Finally, I would like to thank all of the hard-working individuals who volunteered to serve the Chapter on our various committees. These are the people who work behind the scenes to make sure both the Annual Meeting and the Chapter are successful. Many of these individuals have served on these committees for several years and I appreciate all the experience they bring. But they can't keep it up forever and we are always looking for folks who are interested in helping. My involvement on committees and as a Chapter leader is some of the most fulfilling and memorable work I have done in my career. Please consider stepping up to a committee or leadership role in the Chapter. Many before me have said that you get out of AFS what you put into it. I can't agree more and challenge you to do your part to help make our Chapter the best it can be.

## **CO-WY Annual Meeting February 27-March 1, 2018 Laramie, WY**

The 2018 Annual Meeting of the Colorado/Wyoming Chapter of the American Fisheries Society will be held February 27-March 1, 2018 at the Hilton Garden Inn in Laramie, Wyoming. Two different continuing education courses will be offered on Tuesday, followed by an evening welcome reception in Legacy Hall at the University of Wyoming

Gateway Center. The meeting will kick off on Wednesday with a plenary session entitled, "Engaging the public in what we do: exploring the use of citizen scientists and volunteers in fisheries management and research." Presentations will follow on Wednesday and Thursday. The student social will be Wednesday evening, business lunch on Thursday, and the awards banquet and raffle on Thursday evening.

A block of rooms has been reserved at a rate of \$99.00 per night. Government employees will be eligible for the government rate that is in effect at the time of the meeting (currently \$93 per night). Room reservations can be made by calling the Hilton Garden Inn at 307-745-5500. Please reference Colorado-Wyoming American Fisheries Society 2018 to receive the meeting rate. Everyone should clearly state to hotel staff that they are making reservations to attend the meeting so we get credit for room reservations. This is important because we need to meet our room obligations. Reservations can be made in the hotel block until February 5, 2018.

Meeting registration information is available on the Colorado/Wyoming AFS website (<http://www.cowyafs.org/home/annual-meeting/>), including a link to online registration. **The deadline for early registration is January 29, 2018.**

Also, please consider submitting an abstract for an oral or poster presentation. A link for online submissions is included on the annual meeting page noted above. **The deadline for abstract submission is February 2, 2018.**

## **2018 Meeting Agenda at a Glance**

### **Tuesday, February 27**

8:30am – 5:00pm: Continuing Education –Phase 1 (am): Introduction to R and data wrangling; Phase 2 (pm): Data modeling and visualization in R.

1:00pm – 5:00pm: Continuing Education – Pesky parasites: a brief look at some prominent Wyoming fish parasites.

5:00pm – 7:00pm: Registration  
6:00pm – 10:00pm: Welcoming social

### **Wednesday, February 28**

7:00am – 5:00pm: Registration  
8:00am – 10:00am: Opening remarks and plenary session  
10:20am – 12:00pm: Contributed papers  
12:00pm – 1:30pm: Lunch (on your own)  
1:30pm – 3:10pm: Contributed papers  
3:30pm – 4:30pm: Poster session  
5:00pm – 10:00pm: Student social

### **Thursday, March 1**

7:00am – 5:00pm: Registration  
8:00am – 11:20pm: Contributed papers  
11:20pm – 1:00pm: Business lunch  
1:00pm – 5:00pm: Contributed papers  
6:00pm – 10:00pm: Awards banquet and raffle

Session moderator volunteers wanted! If you are interested in moderating a session, please contact Laura or Christina.

**For additional information, or to volunteer, contact:** Laura Leslie Burckhardt at 307-250-1213 ([lleslie@swca.com](mailto:lleslie@swca.com)) or Christina Barrineau at 307-745-5180 ([christina.barrineau@wyo.gov](mailto:christina.barrineau@wyo.gov)).

## **Awards Nominations:** **CO-WY Chapter AFS Awards**

Thinking about that “character” you work with? Know someone who is involved in an infamous fish folly? There’s an award for that! Please take a moment and think about your professional peers that have committed noteworthy acts deserving of public roasting. It is your responsibility to make sure our professionals receive this recognition.

**Award of Excellence:** *Recognizes an individual who has made significant contributions in the fishery-aquatic resource field.*

**Max Award of Merit:** *In honor of Max Rollefson (WGFD), this "atta boy" recognizes a short-term professional accomplishment in management, administration, research, or culture.*

**Outstanding Mentor Award:** *This award recognizes a fisheries professional who has shown substantial devotion to assisting or mentoring prospective fisheries students/professionals, current fisheries students, or fisheries professionals.*

**Leaky Boot Award:** *Recognizes the most outrageous behavior of any fisheries student or professional in the year prior to the Chapter’s Annual Meeting.*

## **Meeting Deadlines**



**Don’t miss the boat!**  
**Remember these important deadlines**  
**for the Annual Meeting.**

January 29<sup>th</sup>

- ✓ Early meeting registration

February 2<sup>nd</sup>

- ✓ Award nominations
- ✓ Presentation and poster abstract submission

February 5<sup>th</sup>

- ✓ Hotel block reservations

February 9<sup>th</sup>

- ✓ Photo contest entries

**Please limit**  
**applications to**  
**one page and send**  
**to:**

Travis Neebling  
307-233-6410  
[Travis.Neebling@wyo.gov](mailto:Travis.Neebling@wyo.gov)





## Attention Young Professionals!

First, congratulations on finishing school and entering the fisheries workforce. Some of you are in a situation where you are working seasonal positions and as such, do not have financial help from your employer to cover registration and hotel costs associated with the annual meeting. The ExCom is interested in learning more about barriers to your attendance and finding ways to make it easier/cheaper to attend. If you are in this situation, please contact Rick Henderson, Past-President, at [rhenderson01@fs.fed.us](mailto:rhenderson01@fs.fed.us) or 970-870-2219 to discuss.

## Volunteers Needed

### Students!

CO/WY AFS needs your help to run the 2018 annual meeting. We are looking for volunteers to help with audiovisual support and the raffle during the meeting. Hours of volunteer time will be credited and count towards meeting fees. Four hours of volunteer time will count as \$35.00 and eight hours will count as \$70.00 towards early registration fees (1/2 and full early student parent society member registration fee, respectively). We would like to encourage as many students as possible to volunteer their time.

For more information on volunteering please contact Erick Hansen at [Erihansen@Coloradomesa.edu](mailto:Erihansen@Coloradomesa.edu)

### Paper and Poster Judges!

Volunteers are needed to judge papers and posters at the 2018 Annual Colorado-Wyoming Chapter of the American Fisheries Society in Laramie. We need 30-40 judges from Colorado and Wyoming (combined) to have three judges per paper and poster, so a great deal of help is needed from CO/WY AFS members. Government agency, private consulting professionals, and college professors are preferred for judging volunteers. Please consider volunteering some of your time at the meeting!

If you are interested in judging please contact Mandi Brandt @ 970-768-9649 ([Mandi.Brandt@state.co.us](mailto:Mandi.Brandt@state.co.us))



## Raffle



We are looking forward to a lively raffle and auction to complement the awards portion of the banquet at our 2018 Annual Meeting. We will also be conducting a silent auction, a game raffle (with prizes), a general raffle, and a member photo contest.

**To maximize our fundraising efforts, we are asking that attendees bring items to donate to our cause.** These could be items that you personally contribute, or that you solicit from a local business, organization, or person. Items may include backpack trips, guided fishing trips, handmade flies, original artwork, prints, or other cool fish and wildlife related items. Each of us in the Chapter probably has at least one business, organization, or person willing to donate something towards the mission of AFS. **Please take a few minutes to ask.**

If you would like to make contributions please bring your item(s) with you to the meeting or send them to:

Eric Gardunio  
2300 South Townsend Ave.  
Montrose, CO 81401  
[Eric.Gardunio@state.co.us](mailto:Eric.Gardunio@state.co.us)

or

Stephen Siddons, WY Game and Fish,  
528 South Adams Street  
Laramie, WY 82070  
[Stephen.Siddons@wyo.gov](mailto:Stephen.Siddons@wyo.gov)

The **RAFFLE** is now accepting **CREDIT CARDS!**



## 2018 Colorado-Wyoming AFS Photo Contest and Slideshow

**Please consider submitting your high quality fish, wildlife, and landscape photos to the CO/WY AFS Raffle Committee for the 2018 Member Photo Contest.** A special sub-committee will vote on the top three photographs, which will be framed and featured in the live or silent auction during the banquet at the Annual Meeting for Colorado/Wyoming Chapter, on February 28, 2018. Besides helping us out with our fundraising efforts, you can be honored for your photographic skills and may even win a prize! **The deadline for submissions is February 9.** We know all too well that a picture is worth a thousand words, but your pictures may be worth so much more than words! **Please email your high resolution digital photographs for the Photo Contest to: [Eric.Gardunio@state.co.us](mailto:Eric.Gardunio@state.co.us).**



*Photo Caption: The two member photo contest winners from the 2017 Annual Meeting. (1) "Killdeer Eggs" by Mark Smith, and (2) "North Fork Poudre" also by Mark Smith.*

In addition to the photo contest, **the Chapter will be putting together a slide show** that will run during the banquet to showcase who we are as fishery professionals in Colorado and Wyoming. Please provide any of your epic, or otherwise intriguing, field and lab photos from the past year to be played during the slide show. **Please email your photos for the slide show to: Zack Underwood at [zginkco@gmail.com](mailto:zginkco@gmail.com).**

# Final Call for Papers!

We are once again looking for members to share all of the great work they have been doing over the past year by giving a presentation or poster at the 2018 Annual Meeting. All papers are welcome, including formal scientific papers as well as general informational. Authors will be notified of their acceptance 2 weeks prior to the meeting. Abstracts can be submitted by visiting the Colorado-Wyoming AFS website ([cowyafs.org](http://cowyafs.org)) and following the link. **Final Deadline for abstract submissions is February 2, 2018.**

For additional information, please contact Christina Barrineau at 307-754-5180 ext. 240, [Christina.Barrineau@wyo.gov](mailto:Christina.Barrineau@wyo.gov) or Laura Burckhardt at 307-527-7125, [Laura.Burckhardt@wyo.gov](mailto:Laura.Burckhardt@wyo.gov).

## Oral Presentation Guidelines

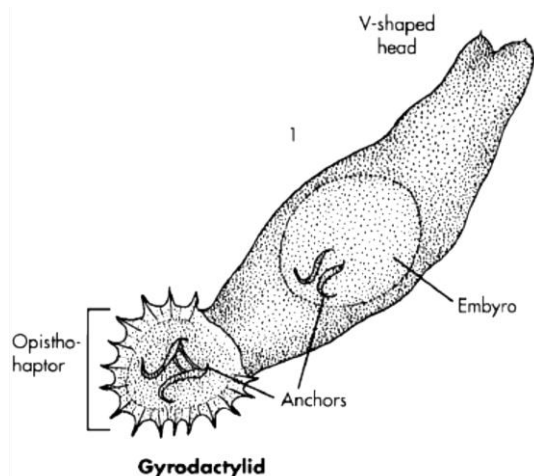
Oral presentations are limited to a 20 minute time slot and we recommend limiting your presentation to 15 to 18 minutes to allow for questions.

## Poster Presentation Guidelines

Poster Presentations - Please restrict your poster to a maximum size of 3' high (0.92 m) x 4' wide (1.22 m) and have a smooth finish. Posters can be attached to the walls with double-sided adhesive strips or hook and loop (VELCRO®) type fasteners. If using VELCRO®, provide both sides (adhesive backing will be required). You are responsible for providing your own form of attachment. Posters can also be mounted on display boards or displayed on stands supplied by the author.

# Continuing Education Workshops

The Continuing Education committee continues to work to provide the chapter with useful and effective workshops. This year, the committee is organizing two exciting workshops: **(1) Pesky parasites: a brief look at some prominent Wyoming parasites.** This will be a ½ day course taught by **Brandon Taro** (Fish Health Program Manager for WY Game and Fish) focusing on the common diseases and parasites found in wild fish populations in our region including how to identify them in the field. The second course consists of two phases and will be taught by **Dr. Shannon Albeke** from the University of Wyoming. **Phase (1) Introduction to R and data wrangling.** **Phase (2) Data modeling and visualization in R (phase 1 or previous R experience highly recommended for phase 2).** If you have any questions regarding 2018 continuing education workshops, please contact Diana Miller ([diana.miller@wyo.gov](mailto:diana.miller@wyo.gov)) or Dan Kowalski ([dan.kowalski@state.co.us](mailto:dan.kowalski@state.co.us)).



```
#BEGIN PROJECTION
#Start with developing error values (SURVIVAL) or deviates (EFFORT and RECRUITMENT)
#survivals <- rnorm(nyears, mean = surv, sd = surv.sd)
#dev.e <- rnorm(nyears, mean = 0, sd = effort.sd)
#dev.recruits <- rnorm(nyears, mean = 0, sd = error)

if (design == 1) {q <- q.july}
if (design == 2) {q <- q.june}
if (design == 3) {q <- q.kill}

for (i in 1:nyears){
  #compute number of spawners-at-large (SPAWN BEFORE JULY TOURNAMENT)
  spawners <- sum(Numbers[i,]*f.female*p.female + Numbers[i,]*f.male*p.male)
  #compute number of yearling recruits next year including error
  recruits <- alpha*spawners*exp(beta*spawners)*exp(rnorm(1,0,error))
  if(recruits > max.recruits) {recruits <- max.recruits}
  #print(recruits)

  #compute scalar for adjusting catchability-at-age:
  scalar <- (intercept*exp(exponent*(sum(Numbers[i,4:max(ages)])) + Numbers[i,3]*pro

  #compute number of fish harvested-at-age in tournament:
  if (scenario == 1) {catchabilities <- q}
  if (scenario == 2) {catchabilities <- q*scalar}
  harvests <- (catchabilities/1000)*Numbers[i,]*effort*rnorm(1,0,effort.sd)
  #print(harvests)

  #compute numbers-at-age at large after tournament harvest:
  survivors <- Numbers[i,]-harvests
  #print(survivors)

  #Apply natural mortality to estimate numbers-at-age next year accounting for new
  for (j in 2:max.age){
    Numbers[i+1,j] <- max(survivors[j-1]*(rnorm(1,surv,surv.sd)),0)
    #print(Numbers)
  }
  #Add new recruits
  Numbers[i+1,1] <- recruits
}
```



## New Secretary-Treasurer!

It happens every so often that a candidate steps up to the Secretary-Treasurer's plate unopposed, probably because no one wants to run against them! We are pleased to announce that Jim White is our new Secretary/Treasurer. Congratulations Jim!



### Jim White

I grew up 10 miles up a dirt road outside of Pagosa Springs, Colorado with literally a river running through our back yard – you could say there was pretty much only one career choice for me! Fishing, hunting, hiking, climbing, biking, kayaking, skiing, you name it, as long as I was outdoors I was happy. I will admit it did not help my obsession with the outdoor life when I went to college in Durango at Fort Lewis, a town where it's not uncommon to get up on a Saturday morning and take a mountain bike ride, climb, and then top the evening off with some fishing. So when I graduated with a Degree in Environmental Biology and a minor in Business Administration in 1989, I was somewhat at a loss as to what to do with myself. My lucky break came when the local Colorado Division of Wildlife (CDOW) Aquatic Biologist had a couple of temporary employees go back to school in the fall and needed someone to watch the Kokanee Salmon trap at Vallecito Reservoir. The rest, as they say, is history!

I worked for the CDOW for three seasons as a Fishery Technician. During the winters I did everything I could to do fish work. I spent 3

months in Alaska on a bottom trawler as a NOAA Fishery Observer. I volunteered on Humpback Chub work in the Grand Canyon. I went up to Utah to do short jobs with a consultant. I finally decided I needed to branch out and did a 10 month seasonal job with the USFS working for Dr. Mike Young in Laramie - way back in 1992 when Mike (and myself) had more hair!

I met my wife in Vedauwoo, Wyoming where I stole her away from another dirt bag climber. It was time to move on from the seasonal employee life. In 1993, I got accepted to graduate school at Northern Arizona University in Flagstaff and studied the interactions between non-native crayfish and the endemic Little Colorado Spinedace. I graduated in the fall of 1995 and got my first professional job working for the Jicarilla Apache Tribe as a Fisheries Biologist a few months later. I managed a number of recreational lakes, chemically reclaimed two streams for Rio Grande Cutthroat Trout, radio tagged Roundtail Chubs, built stream habitat structures for native fishes, and encouraged the Tribe to sign on to the Rio Grande Cutthroat Trout and 3-Species Conservation Agreements. I also served as the Vice-Chairman for the Southwest Tribal Fisheries Commission for three years. But, I always had my eye on getting back to the Colorado Division of Wildlife and the San Juan Mountains. When my former supervisor promoted, and the Durango Aquatic Biologist job opened up, I jumped.

It's been an incredible and fast 11 years with the State of Colorado. My growth as a fisheries professional would not be possible if not for the people I work with and organizations like the American Fisheries Society. AFS gives students the opportunity to experience one of the most rewarding and fascinating careers in the world. I would love the opportunity to serve the AFS beyond the committee level and give back to an organization, and its student/professional members, a modicum of what it's given to me. I am honored to be nominated for Secretary-Treasurer of the Colorado-Wyoming Chapter of the American Fisheries Society.

## Get Involved with AFS!

Looking for a way to get more involved with the Colorado/Wyoming chapter of AFS? Join a committee! From the Mentoring Committee, which helps pair up students and young professionals with fisheries professionals for additional fisheries experience, to the Arrangements Committee, which helps with the planning of the annual meeting, there is a committee that could use your help. Whether you work for a state or federal agency, university, or consulting company, joining a committee is a great way to get more involved with AFS. Have questions about a certain committee or not sure which committee is the right fit for you? Contact Eric Fetherman (970-472-4436; [Eric.Fetherman@state.co.us](mailto:Eric.Fetherman@state.co.us)) to learn more. **A big thank you to all of our standing committee members who have done a fantastic job of running the Chapter in the past year!**

## Committee and Subunit Updates

Colorado State University Student Subunit  
(Timothy D. Amico)

**Important announcement from the CSU subunit!** The t-shirt pictured to the right was produced by Patagonia ® and donated to the Colorado State University student subunit of the American Fisheries Society in support of the Coldwater Conservation program at Colorado State University. All of the proceeds from the sale of these shirts will be donated to support the Kurt Fausch-Shigeru Nakano Scholarship, awarded to undergraduate and graduate students in the Department of Fisheries, Wildlife and Conservation Biology of the Warner College of Natural Resources studying conservation of coldwater fish and their ecosystems. The t-shirt's artwork was drawn by acclaimed fish illustrator Joseph Tomelleri from a specimen captured from the only known remaining pure population of Greenback Cutthroat Trout *Oncorhynchus clarkii stomias* in tiny Bear Creek on the slopes of Pikes Peak near Colorado Springs, Colorado.



We currently have six shirts left, all are size large. Given the limited availability and high demand of these shirts, we will be auctioning them off at the student social at the upcoming CO/WY AFS meeting in Laramie, WY. Thank you for supporting the students who are studying to become the next leaders in coldwater fisheries conservation in Colorado, the West and beyond.

## ExCom Meeting Minutes

ExCom meeting minutes are available on the Chapter website at:  
[http://www.cowyafs.org/?page\\_id=212](http://www.cowyafs.org/?page_id=212)



## WDAFS Scholarship Committee Update

### WESTERN DIVISION AMERICAN FISHERIES SOCIETY EUGENE MAUGHAN GRADUATE STUDENT SCHOLARSHIP

#### **DEADLINE FOR SUBMISSION APRIL 1st**

The Western Division is pleased to announce that applications for its graduate-level student scholarships are now being solicited. This Eugene Maughan Graduate Student Scholarship provides up to \$5,000 annually to masters or doctoral students in the general area of fisheries science with one to three awards to individual students. Beginning in 2002, the Sustainable Fisheries Foundation established the William Trachtenberg Memorial Scholarship Fund, which augments the Western Division scholarship program. This fund provides up to \$600 annually to a graduate-level student conducting studies on fisheries sustainability. Applications for the Western Division scholarship program will automatically be considered for the Sustainable Fisheries Foundation scholarship program as well. An award committee of five fisheries scientists from the Western Division will make the decision regarding the award of scholarships from both programs. Selection criteria include demonstration of:

1. Excellent scholarship as evidenced by grades in rigorous course work during the last 60 hours as an undergraduate and during graduate studies.
2. Potential for future contributions to the fisheries profession through management, research, or teaching.
3. Significant progress toward attaining a graduate degree in fisheries science with a defined thesis or dissertation project.

***The 2018 scholarships will be awarded at the annual meeting of WDAFS in Anchorage, Alaska May 21-25, 2018.***

#### **APPLICATION CRITERIA AND PROCESS**

1. Applicants must be a member of the American Fisheries Society or have submitted 2018 membership materials by the time of application.

***AFS Member number should be placed on application.***

2. Applicants must have completed one semester or two quarters in a graduate degree program at a university within the geographic boundaries of the Western Division.

3. Applicants must have a major field of study that is related to fisheries or aquatic science.

4. Applicants must submit an application package (***electronically preferred***) that contains of each of the following:

A. A letter to the award committee that includes (***three separate items***):

1. A brief description of the student's degree program and the anticipated date of completion.
2. A statement of the applicant's career goals and reasons for applying for the scholarship (up to 200 words).
3. A statement of the academic and professional activities and contributions to AFS and the fisheries science profession (up to 200 words).

B. Copies of a resume (including professional activities, pertinent publications, and scientific presentations) and graduate transcripts. Please list GRE scores in your resume; a copy of the original form is *not* necessary.

C. A one-page abstract outlining the goals, objectives, design, methods and expected outcome from the thesis or dissertation project.

D. Letters of reference from two faculty members (one must be the graduate students advisor) familiar with the student's background and abilities. Letters may be sent separately by the individual providing the reference.

**The application package should be sent electronically (or postmarked) no later than April 1, 2018 to:**

Bob Gresswell, Western Division Scholarship Award Committee  
USGS-NOROCK  
2327 University Way, Suite 2  
Bozeman, MT 59715  
406-994-7085  
[bgresswell@usgs.gov](mailto:bgresswell@usgs.gov)

## Mail-In Registration Form

<b>Registration Form for the 2018 Annual Meeting of the Colorado/Wyoming Chapter of the American Fisheries Society</b>  <b>February 27-March 1, 2018 Hilton Garden Inn, Laramie, WY</b>			
Name: _____			
Title: _____			
Affiliation: _____			
Address: _____			
City: _____		State: _____	Zip: _____
Phone: _____		E-Mail: _____	
AFS Member ID #: _____			
<b>Early registration deadline for the meeting and continuing education workshops is January 29, 2018. Early registration is required to attend the banquet and lunch.</b> <b>Registration: Includes all breaks, Tues. and Wed. evening socials, and Business Meeting Lunch</b>			
	<u>Early</u>	<u>Late</u>	
Regular Parent Society Member	\$155	\$175	\$ _____
Young Professional Parent Society Member	\$70	\$85	\$ _____
Student Parent Society Member	\$10	\$30	\$ _____
Regular Non-Parent Society Member	\$170	\$190	\$ _____
Student or Young Professional Non-Parent Society Member	\$85	\$100	\$ _____
Retired	\$0	\$0	\$ _____
One-Day (Parent Society Members and Non-Members)	\$90	\$100	\$ _____
<b>Tuesday Evening Welcoming Social (Free)</b>		# attending	_____
<b>Wednesday Evening Student Mentoring Social (Free)</b>		# attending	_____
<b>Banquet Registration</b>			
Banquet <i>Thursday, March 1st @ 6:00 PM</i>			
	Student	\$20	\$ _____
	All other registrants	\$30	\$ _____
	Additional tickets	\$30	\$ _____
Meal options: Check preference	Corn and Vegetable Ravioli	<input type="checkbox"/>	# _____
	Martini Chicken	<input type="checkbox"/>	# _____
	BBQ Beef Brisket	<input type="checkbox"/>	# _____
	Broiled Salmon	<input type="checkbox"/>	# _____
<b>CO/WY Business Meeting Lunch Buffet (Included with registration)</b>			
<i>Thursday, March 1st</i>		Check if attending <input type="checkbox"/>	
<b>Continuing Education Workshop Registration (Free)</b>			
<b>Introduction to R/Data Wrangling + Data Modeling/Visualization in R</b>		Check if attending <input type="checkbox"/>	
<i>Tuesday February 27 (8:30-5:00)</i>			
<b>Parasites in wild fish populations in the Rocky Mountains</b>		Check if attending <input type="checkbox"/>	
<i>Tuesday February 27 (1:00-5:00)</i>			
<b>Make checks payable to: CO-WY AFS</b>		<b>Total Due</b>	<b>\$ _____</b>
<b>Send completed form and registration fee to:</b>			
<b>Jason Burckhardt, Wyoming Game and Fish Dept., 2820 State Hwy 120, Cody, WY 82414</b>			
<b>Please contact Jason for more information at (307) 527-7125 or <a href="mailto:jason.burckhardt@wyo.gov">jason.burckhardt@wyo.gov</a></b>			

## 2017-2018 Chapter Officers and Committee Members

<b>Chapter Officers</b>		
President	Kevin Gelwicks	<a href="mailto:kevin.gelwicks@wyo.gov">kevin.gelwicks@wyo.gov</a>
Vice President	Eric Fetherman	<a href="mailto:eric.fetherman@state.co.us">eric.fetherman@state.co.us</a>
Secretary/Treasurer	Jason Burckhardt	<a href="mailto:jason.burckhardt@wyo.gov">jason.burckhardt@wyo.gov</a>
Past-President	Rick Henderson	<a href="mailto:rhenderson01@fs.fed.us">rhenderson01@fs.fed.us</a>
UW Subunit President	Kara Wise (fall semester)	<a href="mailto:kwise9@uwyo.edu">kwise9@uwyo.edu</a>
	Jake Ruthven (spring semester)	<a href="mailto:jruthven@uwyo.edu">jruthven@uwyo.edu</a>
CSU Subunit President	Timothy D'Amico	<a href="mailto:afscsu@gmail.com">afscsu@gmail.com</a>
CMU Subunit President	Jacob Eggers	<a href="mailto:jaeggers@mavs.coloradomesa.edu">jaeggers@mavs.coloradomesa.edu</a>
<b>Standing Committees</b>		
Arrangements	Beth Bear (chair)	<a href="mailto:beth.bear@wyo.gov">beth.bear@wyo.gov</a>
	Kevin Gelwicks	<a href="mailto:kevin.gelwicks@wyo.gov">kevin.gelwicks@wyo.gov</a>
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## Other News, Events, and Announcements

Attention CO/WY AFS Chapter Students and Professionals: Attend the 2018 AFS Annual Meeting in Atlantic City or the Western Division Meeting in Anchorage courtesy of the CO/WY Chapter!



COMMUNICATING THE SCIENCE OF FISHERIES  
CONSERVATION TO DIVERSE AUDIENCES

AUGUST 19-23, 2018



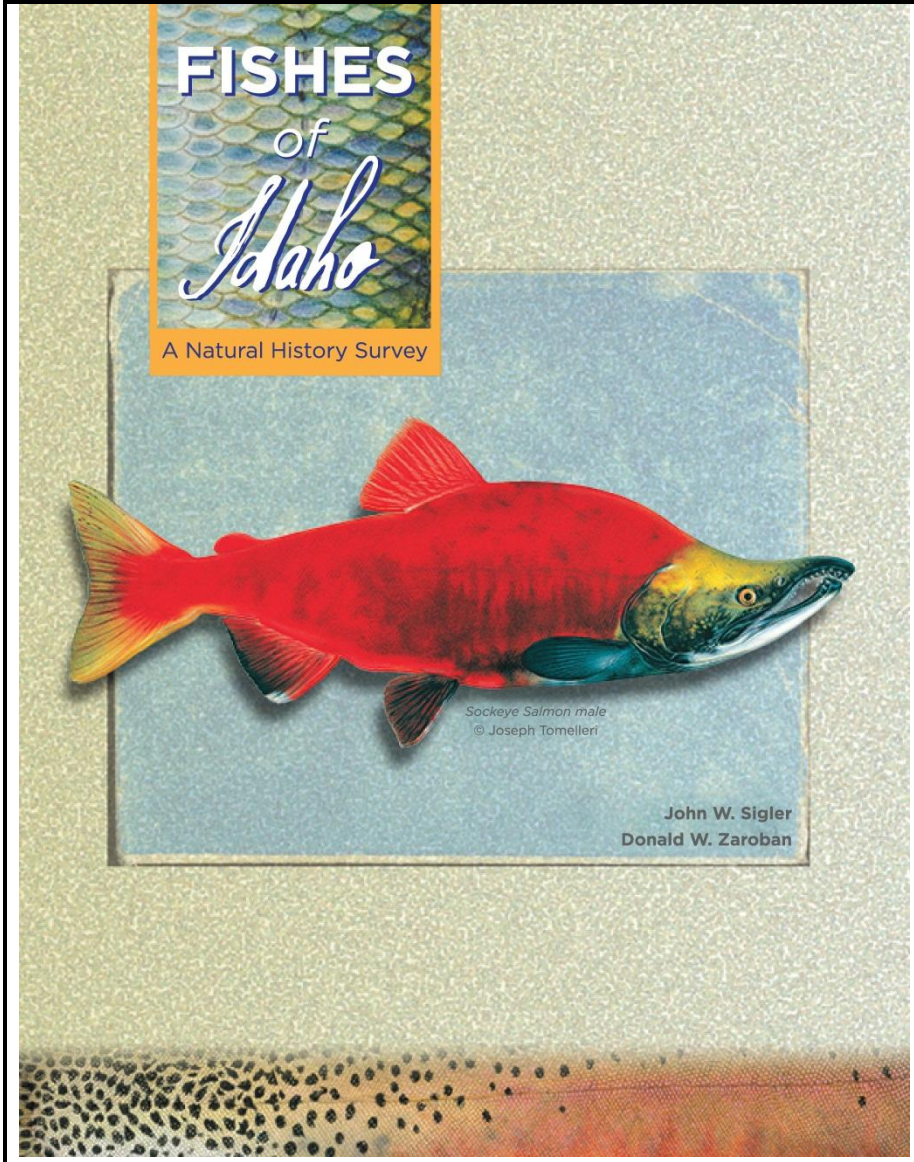
One professional and one student member of the CO/WY Chapter will be selected for a travel grant of up to \$1500 to attend either the 2018 Western Division Annual Meeting in Anchorage, Alaska from May 21-25 or the Parent Society Annual Meeting in Atlantic City, New Jersey from August 19-23. Covered costs include transportation, food, lodging, and meeting registration. Chapter members will be selected on a competitive basis. To apply an applicant must:

1. Be a current CO/WY AFS Chapter member in good standing.
2. Submit a one to two page cover letter detailing: 1) what meeting you plan to attend; 2) why you want to attend the 2018 AFS Annual Meeting; 3) AFS involvement, including but not limited to committee service and presenting experience at AFS meetings; 4) fisheries background; and 5) the subject matter of our presentation for the 2018 Meeting, how it meets the goals of the CO/WY Chapter, and why it will be appropriate to present at the Western or Parent Society meeting.

All application should be sent to CO/WY AFS Chapter Past-President Rick Henderson at [rhenderson01@fs.fed.us](mailto:rhenderson01@fs.fed.us) by February 2<sup>nd</sup>, 2018. The applicant will be selected in February 2018 by the CO/WY AFS Chapter ExCom.



## New Fish Book Available for Preorder!

	<p style="text-align: center;"><b>Contents</b></p> <p>FOREWORD – Cecil Andrus          ACKNOWLEDGEMENTS          INTRODUCTION          CHAPTER 1 An Overview-Idaho Fisheries Management          CHAPTER 2 Ichthyology 101—A Guide to the Study of Fish In Idaho          CHAPTER 3 Biogeography of the Native Fish Fauna of Idaho          CHAPTER 4 IDAHO'S AQUATIC GEMS          CHAPTER 5 Illustrated Key - Gerald R. Smith          CHAPTER 6 PETROMYZONTIFORMES          CHAPTER 7 ACIPENSERIFORMES          CHAPTER 8 CLUPEIFORMES          CHAPTER 9 CYPRINIFORMES          CHAPTER 10 SILURIFORMES          CHAPTER 11 OSMERIFORMES          CHAPTER 12 SALMONIFORMES          CHAPTER 13 ESOCIFORMES          CHAPTER 14 PERCOPSIFORMES          CHAPTER 15 GADIFORMES          CHAPTER 16 CYPRINODONTIFORMES          CHAPTER 17 SCORPAENIFORMES          CHAPTER 18 PERCIFORMES          GLOSSARY          LITERATURE CITED          SUPPLEMENTAL REFERENCES          INDEX</p>
	<p><b>105 Full Color Illustrations by Joe Tomelleri and 65 Scientific Drawings by Emily Damstra</b></p>

**John W. Sigler** received his Bachelor of Science and Master of Science from Utah State University in 1969 and 1972, respectively, from what was then the Wildlife Resources Department. He received his Ph.D. in Fisheries Biology and Management from the University of Idaho in 1980. From 1980 until 2006 John worked for a variety of consulting firms in the western United States and retired from the City of Pocatello, Idaho as the Senior Environmental Coordinator in 2012.

**Donald W. Zaroban** received his Bachelor of Science and Master of Science from the University of Nebraska-Lincoln in 1974 and 1987 respectively. He received his Ph.D. from the University of Idaho in 2011. He is currently the Curator of Fishes at the Orma J. Smith Museum of Natural History located at The College of Idaho and is a fish biologist with the Idaho Department of Environmental Quality in Boise.

*Fishes of Idaho: A Natural History Survey* is available for prepublication ordering from Caxton Press. A preorder link at: <http://caxtonpress.com/fishesofidaho.aspx> includes a 15% discount. The authors thank all of the contributors, both technical and financial, who facilitated the completion of this project.



## Riparian Challenge Award Nominations due February 15<sup>th</sup>, 2018!



Photo credit: Greg Policky

The Western Division of AFS Riparian, Watersheds and Habitat Committee would like to announce the call for 2018 Riparian Challenge Awards. Please consider entering a project you have worked on or nominating a colleague's project. Winners will be announced at the 2018 WDAFS meeting in Anchorage, Alaska May 21 - 24, and will receive a \$750 travel reimbursement to attend the meeting as well as a plaque of recognition. Entries must be received by February 15<sup>th</sup>, 2018. **Please contact Amy Sacry for entry forms and additional information: (406) 381-0858, [asacry@geumconsulting.com](mailto:asacry@geumconsulting.com).**

## 2017 Executive Committee Retreat Highlights

Several years ago, past Chapter Presidents Ryan Fitzpatrick and Paul Gerrity came up with a great idea. They wanted a way for Executive Committee (Excom) members to get to know each other better and have some time to reflect on where they would like to see the Chapter go in the future. Thus was born the tradition of the Excom retreat. This retreat is planned by the incoming president and usually involves a 2-3 day outdoor experience in conjunction with the summer Excom meeting. Past retreats have included backpacking and fishing in the Wind River Range, a Gunnison Gorge float trip, float fishing on the North Platte River and staying in a cabin and fishing the Yampa River. It gives the Excom members a unique experience to get to know each other a little better, offer advice to the incoming Secretary-Treasurer and ponder some of the bigger CO/WY Chapter issues around a campfire instead of in a meeting room.





This year's trip entailed a two night August backpacking trip in the Snowy Range of Southeastern Wyoming. All four Excom members and two lucky dogs were able to amble through the high country and drop their lines in several high country lakes. They enjoyed beautiful weather and even had some time talk about important Chapter issues such as mentoring, advocacy and using various technologies to better communicate with members. And they managed to catch a few fish as well.

