



*American Fisheries Society*



**Idaho Chapter**

## **58<sup>th</sup> Annual Meeting**

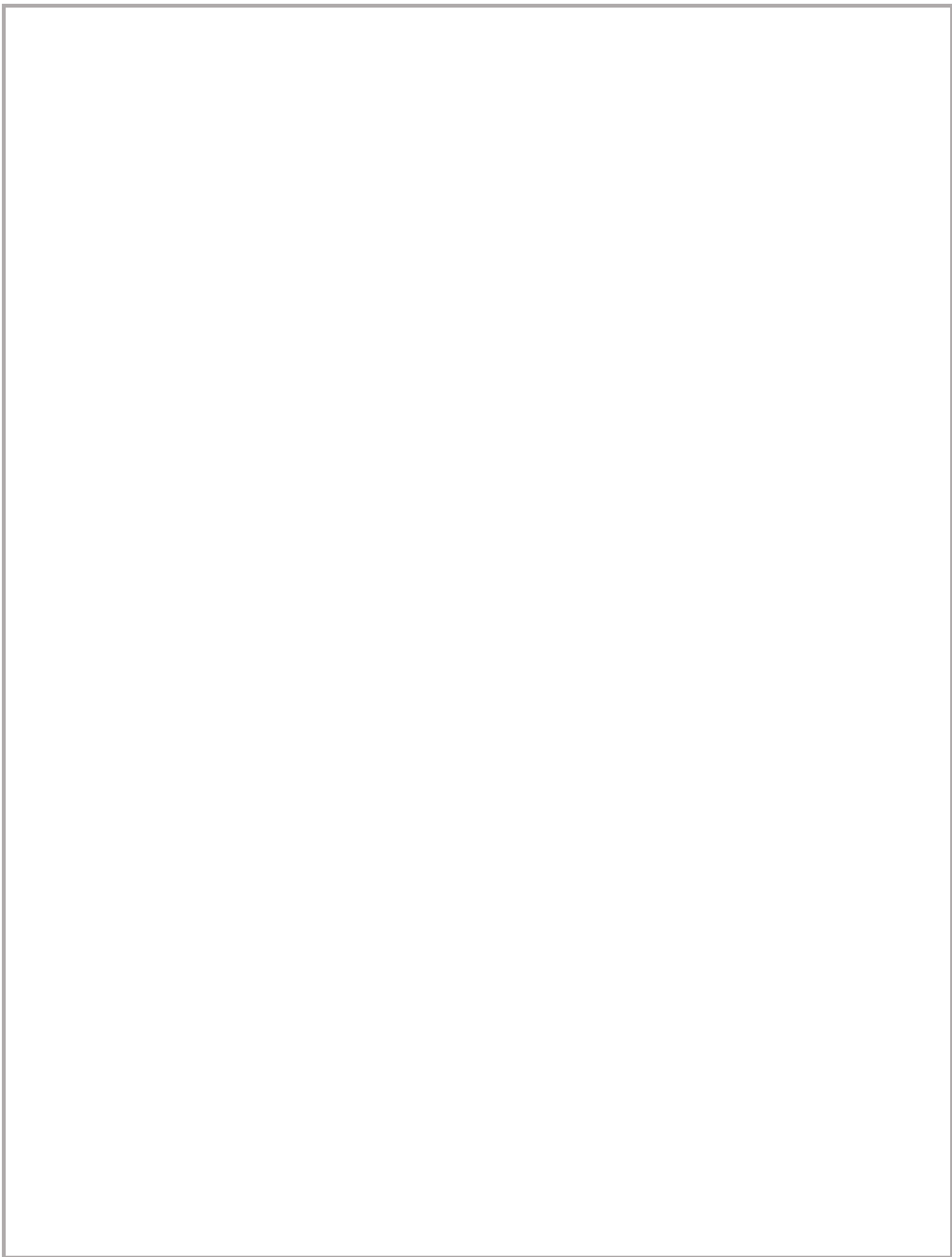
**Navigating the Challenges of Science Communication**



**Program**

**March 10-13, 2020**

**Coeur d' Alene, Idaho**



# Thanks to Our Meeting Sponsors!

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## *Sturgeon Sponsorship (\$1,000)*

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Biomark, Inc.  
Henry's Fork Foundation  
Idaho Power Company

The Kootenai Tribe of Idaho  
Idaho Department of Fish and Game

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## *Chinook Sponsorship (\$500)*

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## *Bull Trout Sponsorship (\$350)*

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## *Cutthroat Trout Sponsorship (\$200)*

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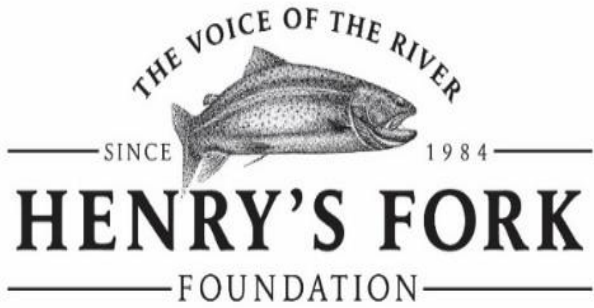
Floy Tag  
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# Sturgeon Sponsorship (\$1,000)

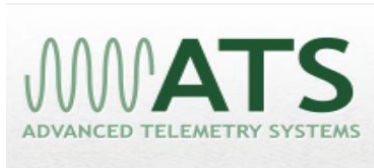
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## Chinook Sponsorship (\$500)

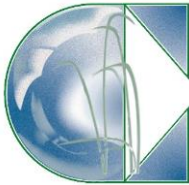
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Lost River  
Fish Ecology, Inc.



**SMITH-ROOT**



**CONFLUENCE**



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## Bull Trout Sponsorship (\$350)

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## Cutthroat Trout Sponsorship (\$200)

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# Fundraising Auction Donors & Sponsors

ICAFS Members: Brian Leth, Tony Lamansky, Sharon Kiefer, & Steve Davis



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Best Western PLUS



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MAIALINA pizzeria napoletana

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## ICAFS EXCOM AND COMMITTEE CHAIRS



### Executive Committee

President	Brett High	208-525-7290	brett.high@idfg.idaho.gov
President-Elect	Ryan Hardy	208-769-1414	ryan.hardy@idfg.idaho.gov
Vice President	Tim Copeland	208-334-3700	tim.copeland@idfg.idaho.gov
Past President	Dan Schill	208-921-7848	dan.schill@idfg.idaho.gov
Treasurer	Matt Belnap	208-569-1283	matt.belnap@idfg.idaho.gov
Secretary	Lauren Andrews	208-342-0091	lauren@quadrant.cc
Nominations Chair	Micah Davison	208-854-8907	marika.dobos@idfg.idaho.gov
BYU- Idaho Subunit President	Drew Suchomel		Suc17001@byui.edu
Palouse Subunit President	Darcy McCarrick		dmccarrick@uidaho.edu
Portneuf Subunit President	Ryan Whitworth		whitrya2@isu.edu

### Committee Chairs

Anadromous	Marika Dobos	208-750-4235	marika.dobos@idfg.idaho.gov
	Mike Edmondson	208-332-1551	mike.edmondson@osc.idaho.gov
	Mike Ackerman	208-469-0896	mike.ackerman@biomark.com
Aquaculture	Eric Pankau	208-427-6364	eric.pankau@idfg.idaho.gov
	Ken Cain	208-885-7608	kcain@uidaho.edu
	Shawn Young	208-267-3620	young@kootenai.org
Aquatic Habitat	Jeff DiLuccia	208-759-2271	jeff.diluccia@idfg.idaho.gov
	Jeanne McFall	208-287-2792	jeanne.mcfall@idfg.idaho.gov
Continuing Ed	Carson Watkins	208-770-3768	carson.watkins@idfg.idaho.gov
Fundraising	Martin Koenig	208-287-2774	martin.koenig@idfg.idaho.gov
	Phil Branigan	208-854-8904	phil.branigan@idfg.idaho.gov
	Carlos Camacho	541-263-0884	carlos.camacho@idfg.idaho.gov
Mentoring	Joe Thiessen	208-465-8404	joe.thiessen@idfg.idaho.gov
	Robert Hand	208-750-4209	robert.hand@idfg.idaho.gov
Membership	Dona Horan	208-373-4399	dona.horan@usda.gov
Native Fish	Patrick Kennedy	208-465-8404	pat.kennedy@idfg.idaho.gov
	Nicole Graham	571-481-8868	nicole.graham@idfg.idaho.gov
Public Education	Lauri Monnot	208-373-0203	scholarship@idahoafs.org
	Jacob Hughes	208-388-6915	jhughes@idahopower.com

## Schedule at a Glance

<b>Tuesday, March 10</b>		
8:00 am - 12:00 pm	Workshop – Gill Net Design & Selectivity	Casco
8:00 am - 5:00 pm	Workshop – Stage 0 Habitat Restoration	Bay 5
8:00 am - 5:00 pm	Workshop – Integrated Broodstock Mgmt.	Bay 6
1:00 pm - 6:00 pm	*Registration & A/V	CC Lobby
1:00 pm - 6:00 pm	Poster Setup	C/K/C
1:00 pm - 6:00 pm	Trade Show Setup	C/K/C
4:30 pm - 6:00 pm	EXCOM Meeting	Bay 3
5:30 pm - 6:00 pm	Volunteer Meeting	Boardroom 5AB (7 <sup>th</sup> floor)
6:00 pm - 9:00 pm	<b>Welcome Social</b>	C/K/C
<b>Wednesday, March 11</b>		
All Day	Vendor & Poster Displays	C/K/C
7:00 am - 8:00 am	<i>Breakfast Snacks</i>	C/K/C
8:00 am - 10:15 am	Welcome and Plenary Session	Bay 4 & 5
10:15 am - 10:45 am	<i>Morning Break</i>	C/K/C
10:45 am - 12:00 pm	Contributed Presentations	Bay 4 & 5
12:10 pm - 1:30 pm	Lunch Break & Committee Meetings	(see pg. 13)
1:35 pm - 2:40 pm	Contributed Presentations (concurrent)	Bay 4 & 5
2:40 pm - 3:00 pm	<i>Afternoon Break</i>	C/K/C
3:00 pm - 4:00 pm	Contributed Presentations (concurrent)	Bay 4 & 5
4:30 pm - 5:30 pm	<b>Spawning Run/Walk</b>	(see pg.10)
6:00 pm – 10:00 pm	<b>Student/Professional Mixer</b>	Bay 4 & 5
<b>Thursday, March 12</b>		
All Day	Vendor & Poster Displays	C/K/C
7:00 am - 8:00 am	<i>Breakfast Snacks</i>	C/K/C
8:00 am - 9:45 am	Contributed Presentations (concurrent)	Bay 4 & 5
9:45 am - 10:15 am	<i>Morning Break</i>	C/K/C
10:15 am - 11:55 am	Contributed Presentations (concurrent)	Bay 4 & 5
12:00 pm - 2:30 pm	<b>ICAFS Business Meeting and Luncheon</b>	Bay 2 & 3
2:30 pm - 3:30 pm	Contributed Presentations (concurrent)	Bay 4 & 5
3:30 pm - 4:00 pm	<i>Afternoon Break</i>	C/K/C
4:00 pm - 5:00 pm	Contributed Presentations (concurrent)	Bay 4 & 5
5:00 pm - 6:00 pm	<b>Poster Session and Trade Show</b>	C/K/C
6:00 pm - 11:00 pm	<b>Banquet &amp; Auction Fundraiser!</b>	Bay 1-3

\***Registration and A/V** will be available daily (Wed-Fri) from 7:00 am to end of Contributed Presentations



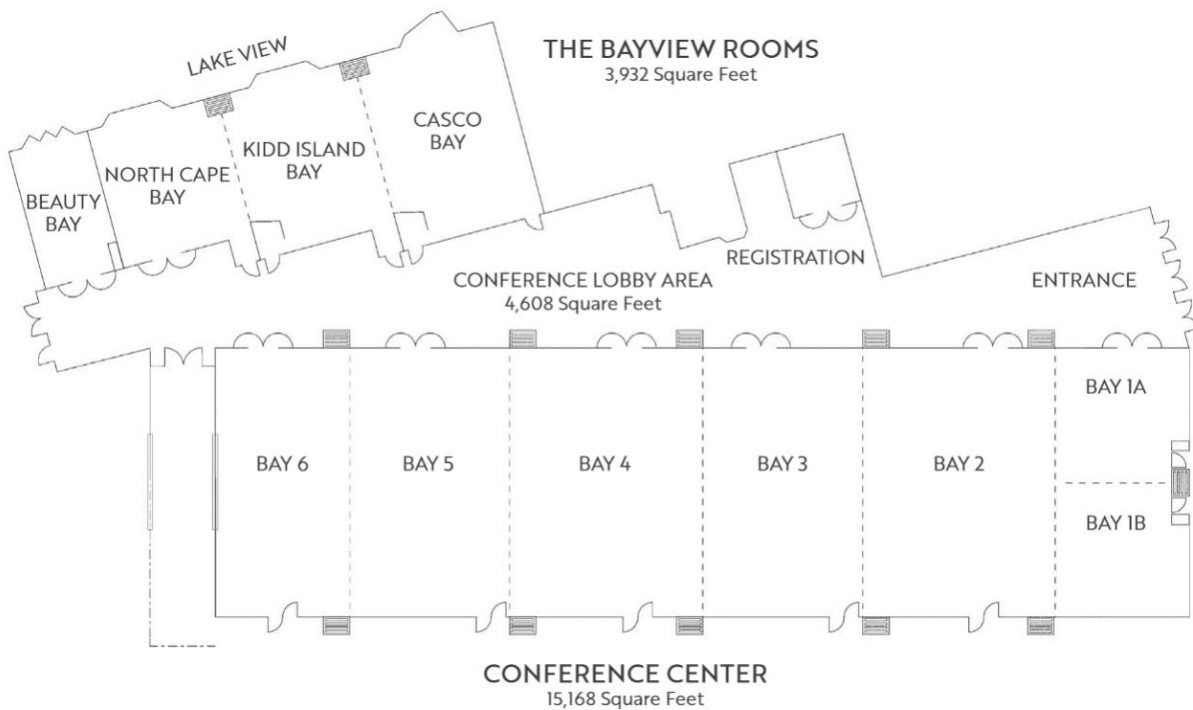
## Schedule at a Glance (Cont'd)

Friday, March 13		
7:00 am - 8:00 am	Breakfast Snacks	CC Lobby
7:00 am - 9:00 am	Poster & Vendor take-down	C/K/C
8:00 am - 9:25 am	Contributed Presentations (concurrent)	Bay 4 & 5
9:25 am - 9:55 am	Morning Break	CC Lobby
9:55 am - 11:35 am	Contributed Presentations (concurrent)	Bay 4 & 5
11:35 am - 11:55 am	<b>Best Paper Award and Closing Remarks</b>	Bay 5
12:00 pm - 2:00 pm	EXCOM Post-meeting Wrap-up	Boardroom 5 ABC (7 <sup>th</sup> floor)

\***Registration and A/V** will be available daily 7:00 am to end of Contributed Presentations

**C/K/C = Casco, Kidd Island, and N. Cape (combined rooms)**

## Convention Center Floor Plan



## 2020 ICAFS Plenary Session Speakers

### **Hank Patterson (Travis Swartz)**

Travis has been working in comedy and film for 20+ years. He got his start in the world of Shakespeare, spending many years working regional theater at Actor's Shakespeare in New York, Oregon Shakespeare Festival, Boise Contemporary Theater and many more. Simultaneously, Travis has been performing stand up and live sketch comedy at various venues in the Northwest. In 2012, Travis created the Hank Patterson video series and has been performing live comedy as Hank. Hank Patterson has been featured in American Angler Magazine, Fly Fisherman Magazine, on the F3T Fly Fishing Film Tour, the IF4 International Fly Fishing Film Tour, and on various industry-leading blogs, Podcasts and digital magazines. Additionally, Hank has been embraced and sponsored by industry-leading companies and organizations such as Orvis, Trout Unlimited, Smith, Simms, Montana Fly Company, Big Sky Brewing and more. Travis will provide insight on how to use humor in communication along with other social media to broach polarizing issues in science.



### **David Rubenson**

David Rubenson is the director of the scientific communications firm Nobadslides.com. Prior to that, he was Director of Administration and Planning at the Stanford University Cancer Institute, Director of Special Projects at City of Hope Cancer Center, a strategic planning consultant to the UCLA Brain Research Institute, and a member of the RAND Corporation's Engineering and Applied Sciences Department. David states that efforts to encourage better public outreach are admirable, but better communication between scientists must come first. David will share his thoughts on how we as scientists need to remember a few key things when communicating our research.



## Ray Troll

In his studio on a hill above Tongass Narrows in rainy Ketchikan, Alaska, Ray Troll creates fishy images that swim into museums, books and magazines, and



onto t-shirts worn around the world. He draws his inspiration from extensive field work and the latest scientific discoveries, bringing a street-smart sensibility to the worlds of ichthyology and paleontology. Ray will give us his spin on conveying science through art!

## Patrick Cooney

Patrick Cooney, a fisheries professional working for Smith-Root and founder of “The Fisheries Blog”, volunteers with fish scientists from across the globe to write and publish an online open access article every Monday morning. The more than 350 articles written over the last 8 years in collaboration with University, Local, State, Federal, Tribal, Private, and Non-Government Organization scientists have been read by millions of people. Patrick will share with us how to “Cast a Wide Net” and effectively communicating our science to a broad audience.



# Spawning Run/Walk

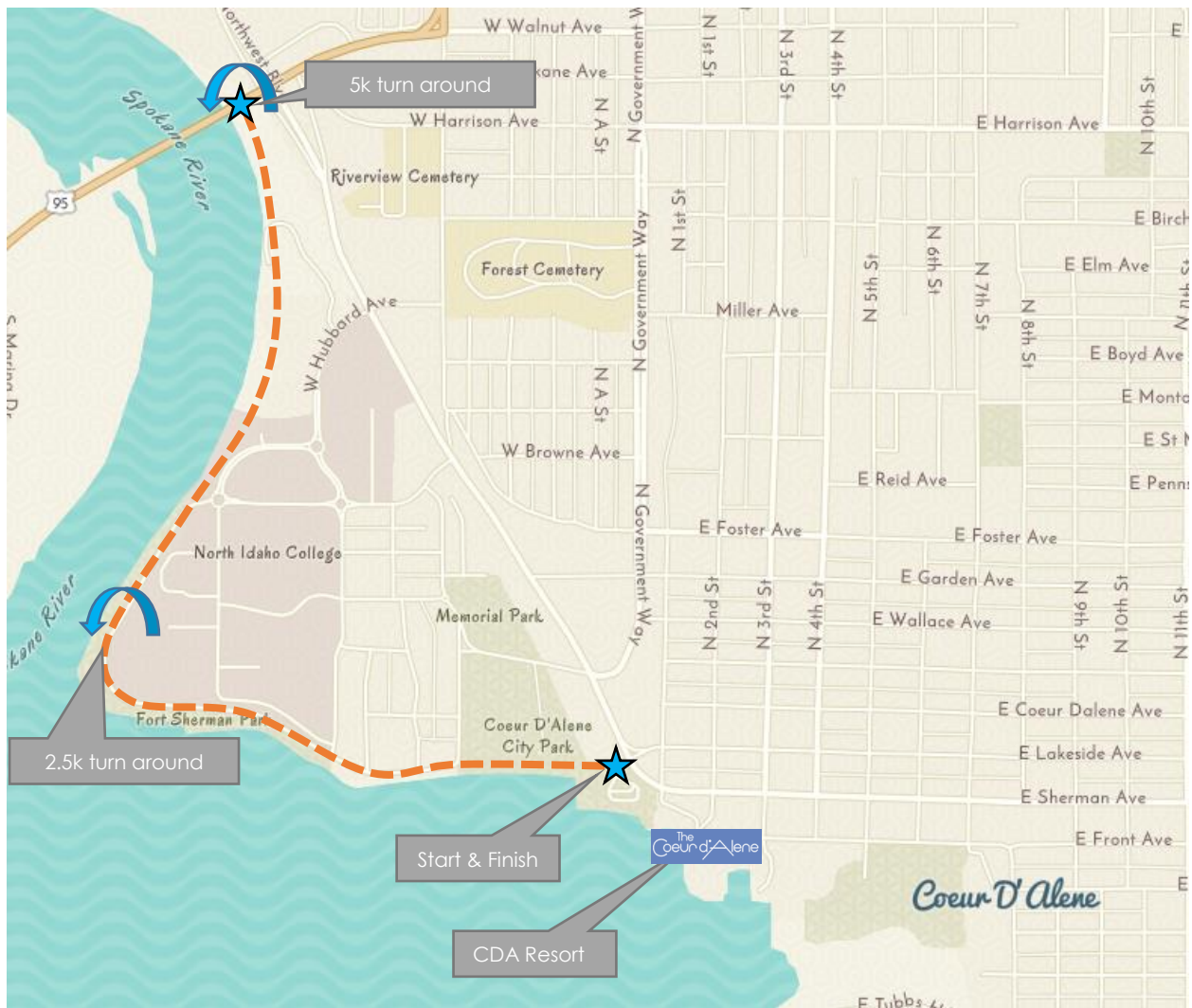
Wednesday March 11 @ 4:30 PM

2.5 km walk or 5 km run

**Race Start:** 4:30 pm Wednesday March 11

**Meet Place:** Swim Beach/City Park just outside CDA Resort

**Route:** Follows Centennial Trail (5k Turnaround at HWY 95 Bridge)



# Tuesday, March 10

## 2020 ICAFS Annual Meeting Workshops

1:00 pm - 6:00 pm	Registration and A/V	Conf. Center Lobby
1:00 pm - 6:00 pm	Vendor Setup	Casco/Kidd/Cape (C/K/C)
1:00 pm - 6:00 pm	Poster Presentation Setup	C/K/C
8:00 am - 12:00 pm	Workshop (Half-day) <b>Gill Net Design and Gill Net Selectivity</b>	Casco
8:00 am - 12:00 pm	Workshop (Full-day) <b>Stage 0 Habitat Restoration</b>	Bay 5
8:00 am - 12:00 pm	Workshop (Full-day) <b>Integrated Broodstock Management</b>	Bay 6
12:00 pm - 1:00 pm	Lunch provided (Broodstock workshop only)	Kidd/Cape
1:00 pm - 5:00 pm	Full-day Workshops Continued	
4:30 pm - 6:00 pm	EXCOM Meeting	Bay 3
5:30 pm - 6:00 pm	Volunteer Meeting	Boardroom 5AB (7 <sup>th</sup> floor)
6:00 pm – 9:00 pm	<b>Welcome Social</b>	C/K/C

# Wednesday, March 11

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7:00 am - 8:00 am	Breakfast Snacks	C/K/C
7:00 am - 5:00 pm	Registration and AV Load Talks	C.C. Lobby
All Day	Vendor and Poster Displays	C/K/C

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<b>8:00 am - 10:15 am</b>	<b><u>Plenary Session</u></b>	<b>Bay 4 &amp; 5</b>
<b>Navigating the Challenges of Science Communication</b>		

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8:00 - 8:05 am	Opening remarks <b>Brett High</b> <b>ICAFS President</b>
8:05 - 8:10 am	Plenary Introduction <b>Ryan Hardy</b> <b>ICAFS President-Elect</b>
8:10 - 8:45 am	Using Humor to Tackle Serious Subjects <b>Hank Patterson (Travis Swartz)</b> <b>Actor/Comedian</b>
8:45 - 9:15 am	Scientific Presentations for all Audiences <b>David Rubenson</b> <b>Director of scientific communications at</b> <b>Nobadslides.com</b>
9:15 - 9:45 am	Salmon, Art and Inspiration <b>Ray Troll</b> <b>Artist</b>
9:45 - 10:15 am	Casting a wider net: easy steps to increase the audience and impact of your fisheries research <b>Patrick Cooney</b> <b>Co-founder of "The Fisheries Blog"</b>

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10:15 am – 10:45 am	<b>Morning Break</b> Casco/Kidd/Cape <b>Sponsored by: BIOMARK</b> Check out the Posters and Vendors
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# Wednesday, March 11 (Cont'd)

10:45 am - 12:00 pm

## Wednesday Contributed Presentations

Bay 4 & 5

Moderator: Jeff Dillon

10:45 – 11:05 am

Science Through Storytelling: Beyond the Data  
**Anna Lindstedt - Friends of the Teton River**

11:05 – 11:25 am

Connecting with Nonscientific Audiences Through Social Media Storytelling  
**Sara Cassinelli – Idaho Dept. of Fish and Game**

11:25 – 11:45 am

Kootenai Tribe of Idaho Endangered White Sturgeon Educational Outreach to Elementary Students  
**Mark Elliston - Kootenai Tribe of Idaho**

## IGNITE PRESENTATIONS

11:45 am – 11:50 am

*IGNITE:* Pelican Management and Yellowstone Cutthroat Trout Recovery on The Upper Blackfoot River: Where We Were, Where We Are, and Where We Are Going  
**Arnie Brimmer – Idaho Dept. of Fish and Game**

11:50 am – 11:55 am

*IGNITE:* Prespawm movements of Adult Pacific Lamprey in the Clearwater River Basin  
**John Erhardt – US Fish and Wildlife Service**

11:55 am – 12:00 pm

*IGNITE:* Factors Influencing Trout Growth in High Mountain Lakes  
**Jordan Messner – Idaho Dept. of Fish and Game**

12:10 – 1:30 pm

## Committee Meetings & Box Lunch

Anadromous Fish	Shore Room
Native Fish	Bay 5
Aquaculture	Bay 3
Mentoring	Beauty Bay
Public Education	Bay 6
Aquatic Habitat	Bay 4

# Wednesday, March 11 (Cont'd)

1:35 pm – 2:40 pm

## Wednesday Contributed Presentations

Concurrent Sessions

Bay 4 & 5

Room	Bay 4	Bay 5
Moderator	Nick Porter	Sean Wilson
1:35 - 1:40 pm	Intro	Intro
1:40 - 2:00 pm	Encounter Rates of Wild Steelhead in Idaho <b>William Lubenau – U of Idaho</b>	Debris in Our Rivers (The Large Wood Kind) <b>Jeanne McFall – IDFG</b>
2:00 - 2:20 pm	Mapping Riparian Habitat with Drone And Satellite Data To Increase Monitoring Efficiency <b>Amanda Stahl - WSU</b>	Stage 0 Restoration: What Is It, and Why Is It Important to Fish? <b>Brian Cluer – NOAA Fisheries</b>
2:20 - 2:40 pm	High Speed Spillway Pit-Tag Detection <b>Steve Anglea – Biomark, Inc.</b>	Restoring Depositional Valleys to Stage 0 <b>Paul Powers – US Forest Service</b>
<p>2:40-3:00 pm</p> <h3>Afternoon Break</h3> <p>Casco/Kidd/Cape</p> <p><b>Sponsored by: Idaho Fish and Game</b></p> <p>Check out the Posters and Vendors</p>		



# Wednesday, March 11 (Cont'd)

3:00 – 4:00 pm **Wednesday Contributed Presentations**  
 Concurrent Sessions  
 Bay 4 & 5

Room Moderator	Bay 4 Nick Porter	Bay 5 Sean Wilson
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3:00 – 3:20 pm	Restoring Bonneville Cutthroat Trout in The Bear River Drainage in Idaho-Utah <b>Ryan Hillyard - IDFG</b>	Sex Reversal Trials on Walleye, An Example of Interagency Aquaculture Cooperation <b>Dan Schill - IDFG</b>
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3:20 – 3:40 pm	Habitat Use and Production of Juvenile Bonneville Cutthroat Trout in Three Tributaries to Bear Lake <b>Megan Heller – U of Idaho</b>	Status and Success of Conservation Aquaculture Used to Restore Kootenai River Burbot <b>Nate Jensen - KTOI</b>
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3:40 – 4:00 pm	Utilizing Conservation Aquaculture for Bonneville Cutthroat Trout in Idaho <b>Wayne Fowler - IDFG</b>	Strategic and Novel Use of The Kootenai River Native Fish Conservation Aquaculture Program to Restore White Sturgeon and Burbot <b>Shawn Young - KTOI</b>
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4:30 - 5:30 pm **Spawning Run**  
 Sponsored by Biomark

6:00 - 9:00 pm **Student/Professional Pizza Feed Mixer**  
 Bay 4 & 5

# Thursday, March 12

7:00 am - 8:00 am	Breakfast Snacks	C/K/C
7:00 am - 5:00 pm	Registration and AV Load Talks	C.C. Lobby
All Day	Vendor and Poster Displays	C/K/C

8:00 - 11:55 am	Wednesday Contributed Presentations Concurrent Sessions Bay 4 & 5
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Room	Bay 4	Bay 5
Moderator	Travis Rehm	Colton Finch
8:00 - 8:05 am	Intro	Intro
8:05 - 8:25 am	Who Are You? We Really Want to Know: A Genetic Analysis of Lower Clearwater River Steelhead <b>Brett Bowersox - IDFG</b>	How Hatchery Supplementation and Adaptive Management Contributed To Increased Abundance And Natural Spawning Of Snake River Fall Chinook Salmon <b>William Young - NPT</b>
8:25 - 8:45 am	Locally Adapted Phenotypes of Steelhead in The Columbia River Basin <b>Shawn Narum - CRITFC</b>	Johnson Creek – Comparing Natural and Supplemented Life History Performance <b>Travis Hodsdon - NPT</b>
8:45 - 9:05 am	Genomic Resources for Reintroduced Coho Salmon (Oncorhynchus Kisutch) in The Upper Columbia and Clearwater Rivers <b>Rebekah Horn - CRITFC</b>	Collecting Kootenai River Adapted, Hatchery Produced Burbot for Broodstock at the Kootenai Tribe of Idaho's Hatchery 2- Twin Rivers Hatchery <b>Brycen Lunger - KTOI</b>
9:05 - 9:25 am	Biodiversity of Cottus in Western North America: A Molecular Perspective on The Sculpins of The Intermountain West <b>Michael Young – NGS, RMS</b>	Triploid Induction in Cultured Burbot (Lota Lota) Using Thermal and Hydrostatic Shock <b>Luke Oliver – U of Idaho</b>

# Thursday, March 12 (Cont'd)

Room	Bay 4	Bay 5
<b>Moderator</b>	Travis Rehm	Colton Finch
9:25 - 9:45 am	Cross-Protection of a Live-Attenuated Coldwater Disease Immersion Vaccine Against Novel <i>Flavobacterium</i> Spp. and <i>Chryseobacterium</i> Spp. <b>Evan Jones – U of Idaho</b>	in-Stream Egg Incubators Produce Hatchery Chinook Salmon with Similarities and Differences from Natural Juveniles <b>Lytle Denny – SB Tribe</b>

9:45 - 10:15 am	<b>Morning Break</b> Casco/Kidd/Cape <b>Sponsored by: Kootenai Tribe of Idaho</b>	
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Room	Bay 4	Bay 5
<b>Moderator</b>	Jeanne McFall	John Powell
10:15 – 10:35 am	Evaluation of Angler Harvest, Catch Rates, and Satisfaction in Community Pond Fisheries <b>Luciano Chiaramonte – IDFG</b>	Investigating Fall Chinook Salmon Life-History Diversity Using Innovative Analytical Techniques on a Long-Term Otolith Chemistry Dataset <b>Jens Hegg – U of Idaho</b>
10:35 – 10:55 am	Effects of Catch-and-Release Mortality on An Idaho Steelhead Population <b>Josh McCormick - IDFG</b>	Fit-Bits for Fish: Using Acceleration Biotelemetry to Characterize Steelhead Trout Reproductive Behavior in a Spawning Stream and Adult Pacific Lamprey Migration at a Fishway Bottleneck <b>Chris Caudill – U of Idaho</b>
10:55 – 11:15 am	Creel Check Stations and Fish Tagging: Estimating Angler Effort and Harvest in The Upper Big Lost Basin <b>John Heckel – IDFG</b>	“Doctor, My Eyes- Tell Me What You See?”: Sources and Magnitude of Error in Salmon Redd Counts <b>Russ Thurow – USFS</b>

# Thursday, March 12 (Cont'd)

Room	Bay 4	Bay 5
<b>Moderator</b>	Jeanne McFall	John Powell
11:15 – 11:35 am	Estimating Channel Catfish Exploitation, Reporting Rate, And Tag Loss Using Dart Tags at Milner Reservoir, Idaho <b>Joe Thiessen – IDFG</b>	Estimating the Abundance Of Chinook Salmon Redds With The Use Of Drones <b>Eric Geisthardt - PSMFC</b>
11:35 – 11:55 am	Trends in Angler Spending and Valuation Of Experience In The Henry's Fork Watershed <b>Rob Van Kirk – HFF</b>	Estimating Historical Sockeye Salmon Abundance Using Nitrogen Budgets and Stable Isotopes <b>Rachel Brinkley - ISU</b>
12:00 pm – 2:30 pm <b>ICAFS Business Meeting and Luncheon</b> Bay 2 & 3		

2:30 – 5:00 pm <b>Thursday Contributed Presentations</b> Concurrent Sessions Bay 4 & 5		
Room	Bay 4	Bay 5
<b>Moderator</b>	Kiira Siitary	Stuart Rosenberger
2:30 – 2:50 pm	Is There a Harvestable Surplus of Bull Trout ( <i>Salvelinus Confluentus</i> ) in Lake Pend Oreille, Idaho? <b>Nicole Mucciarone - IDFG</b>	What Happens to The Little Ones? Movement, Distribution, and Habitat Selection of Juvenile Chinook Salmon in The Upper Salmon and Lemhi Rivers, Idaho <b>Nick Porter – Biomark (ABS)</b>
2:50 – 3:10 pm	Instream Videography of Stream-Dwelling Bull Trout ( <i>Salvelinus Confluentus</i> ) Identifies Spatial and Temporal Ranges of Resource Exploitation <b>Zane Stephenson – ISU</b>	Estimating Juvenile Survival and Recruitment of Steelhead Despite Complexities in Early Life History Movement and Rearing Habitat Use <b>Marika Dobos – IDFG</b>

# Thursday, March 12 (Cont'd)

Room	Bay 4	Bay 5
<b>Moderator</b>	Kiira Siitary	Stuart Rosenberger
3:10 – 3:30 pm	Effects of Annual Streamflow on Native Salmonid Populations in The North Fork Boise River, <b>Timothy D'Amico – IDFG</b>	Salmon Were Made to Move: Downstream Rearing in Idaho Stocks of Chinook Salmon and Steelhead <b>Timothy Copeland – IDFG</b>
3:30 – 4:00 pm	<b>Afternoon Break</b> Casco/Kidd/Cape <b>Sponsored by: Henry's Fork Foundation</b>	
4:00 – 4:20 pm	Volitional Spawning and Egg Incubation Practices Used in The Recovery of Kootenai River Burbot <b>Riley Jones – KTOI</b>	Movement and Habitat Use of Yellowstone Cutthroat Trout and Utah Chub in Henrys Lake, Idaho <b>Darcy McCarrick – U of Idaho</b>
4:20 – 4:40 pm	Evaluation of Early Larval Weaning of Live Feed for Burbot (Lota Lota Maculosa) <b>Moureen Matuha – U of Idaho</b>	Population Trends of Redband Trout in The Owyhee Mountains, Idaho <b>Cynthia Nau – IDFG</b>
4:40 – 5:00 pm	Evaluation of Commercial and Formulated Diets for Juvenile and Sub-Adult Stage Burbot (Lota Lota Maculosa) Culture <b>Timothy Bruce – U of Idaho</b>	Pond and Plug Restoration Projects on Kalispel Aboriginal Lands in North Idaho <b>Eric Berntsen – KNRD</b>
5:00 pm – 6:00 pm	<b>Poster Session and Trade Show</b> Casco/Kidd/Cape	
6:00 pm – 11:00 pm	<b>58<sup>th</sup> Annual ICAFS</b> <b>Banquet and Fundraiser/Auction</b> Bay 1-3	

# Friday, March 13

7:00 am - 8:00 am	Breakfast Snacks	C.C. Lobby
7:00 am - 11:00 am	Registration and AV Load Talks	C.C. Lobby
7:00 am - 9:00 am	Vendor and Poster Take-Down	C/K/C

8:00 - 11:55 am **Friday Contributed Presentations**  
**Concurrent Sessions**  
 Bay 4 & 5

Room	Bay 4	Bay 5
Moderator	Jim Gregory	Kajsa Van deRiet
8:00 - 8:05 am	Intro	Intro
8:05 - 8:25 am	Every Fish Counts! The Clearwater River Basin Broodstock Calculator <b>Steve Rogers – USFWS</b>	Native Fish Conservation: a Long-Term Commitment on Upper Priest Lake <b>Rob Ryan – IDFG</b>
8:25 - 8:45 am	A Remotely Sensed Bioenergetic Evaluation of The Lemhi River, Id <b>Richie Carmichael – Biomark</b>	Northern Pike Suppression in Coeur D'Alene Lake: Benefits and Challenges of a Localized Strategy <b>Jon Firehammer – CDA Tribe</b>
8:45 - 9:05 am	Relationships Between Migration Timing, Downstream Travel Time, Juvenile and Adult Survival, and Age-At-Return for An Upper-Columbia River Basin Hatchery Population <b>William Bosch – YNF</b>	How Do Silver Carp Population Demographics in a Large Reservoir in Western Kentucky Compare to Other U.S. Populations? <b>Allison Lebeda - PSMFC</b>
9:05 - 9:25 am	Kootenai River White Sturgeon Natural Spawning and Incubation Experiment <b>Brian Michaels - KTOI</b>	The Search for Freshwater Mussels in The Lower Boise River <b>Dorene MacCoy – City of Boise</b>
9:25 – 9:55 am	<b>Morning Break</b> Conf. Center Lobby <b>Sponsored by: Idaho Power Company</b>	

# Friday, March 13 (Cont'd)

<b>Room</b>	<b>Bay 4</b>	<b>Bay 5</b>
<b>Moderator</b>	Rob Van Kirk	Evan Brown
9:55 – 10:15 am	Phase 1: Upper Columbia Fish Passage & Reintroduction <b>Thomas Biladeau – CDA Tribe</b>	Filling Knowledge Gaps for a Threatened Species: Age and Growth of Green Sturgeon in The Sacramento River <b>Marta Ree – U of Idaho</b>
10:15 – 10:35 am	Out of State, But Not Out of Mind: Hydro-System Operations and Idaho Anadromous Fish <b>Jay Hesse - NPT</b>	Age and Growth of Green Suckers in The Teton River Drainage <b>Drew Suchomel – BYU-Idaho</b>
10:35 – 10:55 am	Johnson Creek – 25 Years of Chinook Supplementation Using Native Fish Only – Did It Work? <b>Craig Rabe - NPT</b>	Long-Term Trends in Abundance of Mountain Whitefish in The Clearwater River Basin, Idaho <b>Hunter Distad - IDFG</b>
10:55 – 11:15 am	20 Years of Chinook Supplementation Using Alternative Stages (Parr and Presmolts) - Did It Work? <b>Michael Kosinski - NPT</b>	Life History Diversity of a Recovering Salmon River Chinook Population <b>Brian Kennedy – U of Idaho</b>
11:15 – 11:35 am	<b>Best Paper Awards and Closing Remarks</b> <b>Bay 5</b>	
12:00 – 2:00 pm	<b>EXCOM Meeting</b> Boardroom 5ABC (7 <sup>th</sup> Floor)	

## Poster Titles and Presenters

Translocation of Western Pearlshell Mussels, **Megan Blackham, BYU-Idaho**

Distribution of Pilose Crayfish in The Big Lost River, Little Lost River, and Birch Creek Basins in Idaho, **Hannah Bluth, BYU-Idaho**

What Is the Native Distribution of Rainbow Trout and Related Subspecies in Western North America? **Tyler Breech, Idaho State University**

Photopoint Monitoring to Evaluate Project Effectiveness on The Yankee Fork Pond Series 3 Project, **Darby Byington, U.S. Forest Service**

Low Head Oxygenators at Dworshak National Fish Hatchery: A Gassy Situation, **Sara Dimick, U.S. Fish and Wildlife Service**

Freshwater Mussel Investigations in Idaho, **John Erhardt, U.S. Fish and Wildlife Service**

The Role of Network Connectivity and Complexity in Sustaining Biodiversity of a Wilderness River, **Laurel Faurot, Idaho State University**

Reaching Size: Utilizing Limited Water and Rearing Space, and Optimizing Feed Strategies to Maximize Growth of Dworshak B-Run Steelhead, **Angela Feldmann, U. S. Fish and Wildlife Service**

Western Pearlshell Mussels as Long-Term Environmental Records, **Brianna Frazee, University of Idaho**

Salmon in Idaho: Dworshak Nfh Hurdles Challenges in The Race to Beat the Effects of Climate Change, **Aidan Frye, U.S. Fish and Wildlife Service**

Population Dynamics of Brook Trout in Buster Lake, **Courtnie Ghere, Idaho Department of Fish and Game**

Status of Amphibians in Mountain Lakes: Current Trends and Emerging Threats, **Katherine Gillies-Rector, Idaho Department of Fish and Game**

Microplastics Exposure in Reservoir-Rearing Chinook Salmon (*Oncorhynchus Tshawytscha*) in the Snake River, USA., **Katherine Gillies-Rector, University of Idaho**

Assessment of Social Interaction on Upstream Movement of Adult Pacific Lamprey (*Entosphenus Tridentatus*) on the Lower Columbia River, **Breanna Graves, University of Idaho**



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Juvenile Age Validation of Snake River Sockeye Salmon, **Karen Gregory, Pacific States Marine Fisheries Commission**

Using Qualitative and Quantitative Models to Explore Stream Connectivity Outcomes for Stakeholders and Yellowstone Cutthroat Trout, **Lizzie Jossie, Idaho State University**

Effects of Upstream Lakes on Downstream Nutrient and Biofilm Composition in The Upper Salmon River Watershed, Central Idaho, **Camdon Kay, Idaho State University**

Predicting the Distribution and Abundance of Salmonid Fishes in The Upper Snake River Using Spatial and Non-Spatial Statistical Models, **Ernest Keeley, Idaho State University**

Two Decades of Bull Trout Index Reach Spawning Surveys on Four North Fork Clearwater River Tributaries: Observations and Potential Causes of Variation in Abundance and Timing, **Dan Kenny, U.S. Forest Service**

Epigenetic Variation as a Potential Mechanism for Generating Phenotypic Plasticity in Locally Adapted Ectotherms, **Benjamin Kline, Idaho State University**

Population Dynamics of Westslope Cutthroat Trout in The Middle Fork Salmon River, Idaho, **Taylor Morlan, American Fisheries Society**

Spatial Variability, Habitat Selection and Dynamics of Sculpin Populations in An Idaho River Relative to Sympatric Juvenile Steelhead Abundance, **Theodore Murphy, University of Idaho**

Variation in Energetic Habitat Quality Between Desert and Montane Streams: Implications for Redband Trout Persistence in Southwestern Idaho, **Anna Ringelman, Idaho State University**

Developing a Framework for Assessing Adaptive Capacity in Redband Trout Using Agent-Based Models, **Travis Seaborn, University of Idaho**

Genetic and Morphometric Tools to Identify Species Diversity of Catostomid Fishes in The Intermountain Western United States, **Brandy Smith, Idaho State University**

Population Dynamics of Utah Suckers in South Fork Teton River, Idaho, **Collin Thompson, BYU-Idaho**