



American Fisheries Society



Idaho Chapter

57th Annual Meeting

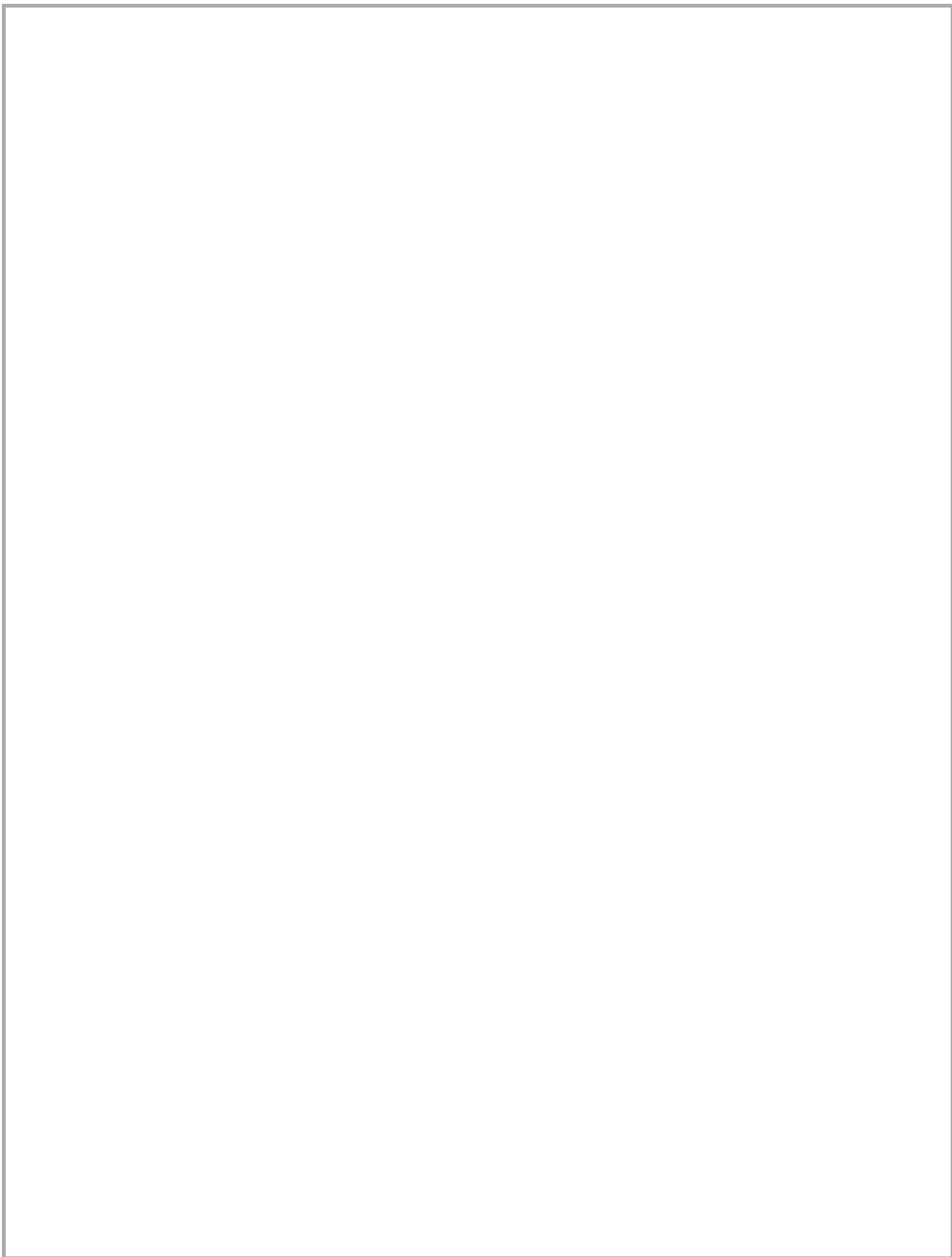


Program

March 5-8, 2019, Boise Centre

Boise, Idaho

Plenary Session: Science-based regulations and angler ethics. Are tools missing from the toolbox?



Thanks to Our Meeting Sponsors!

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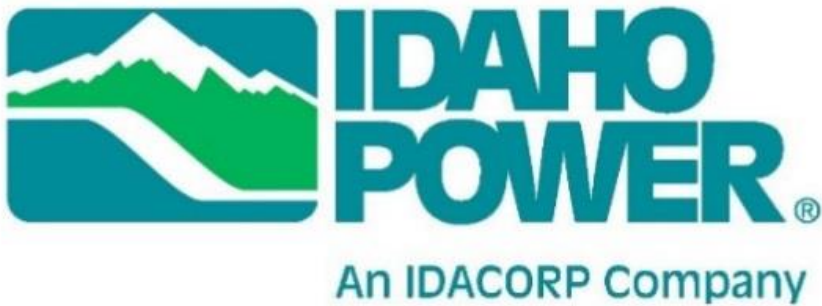
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LOWER SNAKE RIVER
COMPENSATION PLAN
Hatchery Program



FARMERS SCREEN

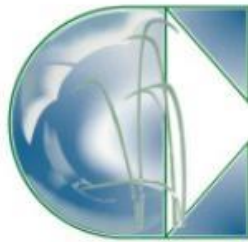


Cascade
RIVER GEAR

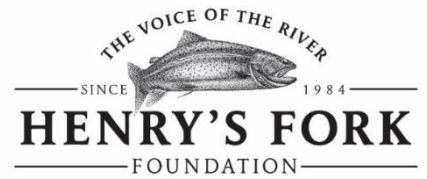


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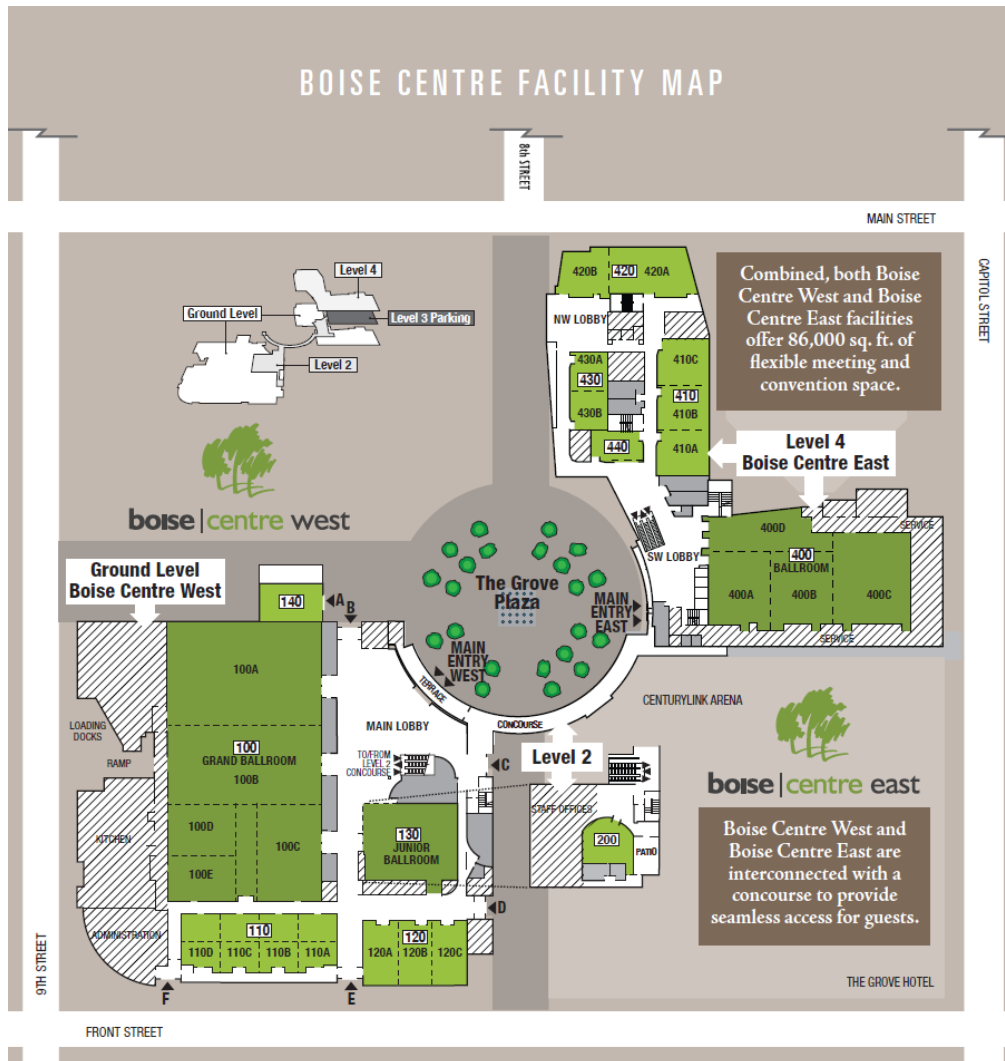
Schedule at a Glance

Tuesday, March 5		
All Day	AV - load talks	440
All Day	Registration	440
All Day	Poster Setup	400A
0800-1100	Trade Show Setup	400A
1630-1700	Volunteer Meeting	410C
1700-1800	EXCOM Meeting	410C
1800-2100	Welcome Social	420
Wednesday, March 6th		
0700-0800	Breakfast	400D
0700-1700	Meeting Registration	440
	AV Table Open	
All Day	Vendor & Poster Displays	400A
0800-1010	Welcome and Plenary Session	400C
1010-1040	<i>Morning Break</i>	400D
1040-1200	Contributed Presentations	400C
1200-1320	Lunch Break & Committee Meetings (box lunch See page 11)	
1320-1500	Contributed Presentations	400C
1500-1520	<i>Afternoon Break</i>	400D
1520-1620	Contributed Presentations	400BC
1630-1730	Spawning Run/Walk	Biomark Office
1800-2200	Student/Professional Mixer	420 ABC
Thursday, March 7		
0700-1200	Breakfast	400D
0700-1600	Meeting Registration AV Table Open	440
All Day	Vendor & Poster Displays	400A
0820-0940	Contributed Presentations	410AB
0940-1010	<i>Morning Break</i>	400D
1010-1150	Contributed Presentations	410AB
1150-1420	ICAFS Annual Business Meeting and Luncheon	400BC
1420-1520	Contributed Presentations (Concurrent)	410AB, 420AB
1520-1550	<i>Afternoon Break</i>	400D
1550-1710	Contributed Presentations (Concurrent)	410AB, 420AB
1710-1830	<i>Poster Session and Trade Show</i>	400A
1830-2300	Banquet & Auction Fundraiser!	400BC

Schedule at a Glance (Cont'd)

Friday, March 8		
0700-0800	Breakfast	400D
0810-1010	Contributed Presentations (Concurrent)	400C
1010-1040	<i>Morning Break</i>	400A
1010-1040	Poster Display Take-down	400A
1040-1200	Contributed Presentations	400C
1200	Best Paper Awards and Closing Remarks	400C
1200	EXCOM Post Meeting Wrap-up	430B

Convention Center Floor Plan



2019 ICAFS Plenary Session Speakers

Justin Hayes

Justin is the General Manager at The Lodge at Palisades Creek on the South Fork Snake River. As the manager at an Orvis-endorsed lodge, he has worked with and fished with guests from all across the United States and several countries. His guests are primarily fly anglers who practice catch-and-release while the South Fork Snake River has a regulation allowing and encouraging unlimited harvest of Rainbow Trout.



Tim Traver

Tim is an author from New England who grew up exploring the saltwater bays, marshes, and rivers of coastal Rhode Island and southeastern Massachusetts. Tim received a B.S. in Wildlife Biology from the University of Vermont, and a M.S. from Yale School of Forestry and Environmental Studies. Writing started as a sideline of Tim's work as a professional land conservationist and natural science educator, but has progressed to a full time occupation. Tim has published many articles and interest pieces and is the author of two books, *Sippewissett: Or, Life on a Salt Marsh* and *Lost in the Driftless: Trout Fishing on the Cultural Divide*.



Chip Corsi

Chip Corsi first put on an IDFG uniform shirt in 1978 as temporary at the Rapid River hatchery, back when rotary dial phones were still common and e-mail hadn't been invented. Since then he has worked as a fish culturist, a fishery research and then management biologist, a regional fishery manager, staff biologist, and state fisheries manager, working in the upper Snake, Magic Valley and Panhandle regions, and in headquarters. In 2003 he had an opportunity to go back out to a field office, and has served as the regional supervisor in the Panhandle region ever since. Along the way, he's had a few opportunities to use regulations and other forms of incentives to work with anglers to help meet sport fishing and/or conservation objectives. He has a BS in Fishery Resource Management from the University of Idaho, and an MS in Zoology from Idaho State University. He is a fellow of the National Conservation Leadership Institute and a past president of ICAFS.



Tuesday, March 5

2019 ICAFS Annual Meeting Workshops

0700-1700	Meeting and Workshop Registration AV Load Talks	440
0800-1100	Vendor Setup	400A
0800-1200	Workshop - “In-stream PIT Tag Detection Systems- Equipment and Analytics”	410AB
0800-1200	Workshop – “Nuts and Bolts in Genetics in Aquaculture”	Eagle Genetics Lab
1200-1300	Lunch (on your own)	
1300-1600	Workshops Continued	
0800-1700	Poster Presentation Setup	400A
1630-1700	Volunteer Meeting	410C
1700-1800	EXCOM Meeting	410C
1800-2100	Welcome Social	420

Wednesday, March 6

0700-0800	Breakfast	400D
0700-1700	Meeting and Workshop Registration AV Load Talks	440
All Day	Vendor and Poster Displays	400A

0800	Plenary Session: Science-Based Regulations and Angler Ethics. Are Tools Missing from the Toolbox?	400C
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0800-0810	Opening remarks and short video Dr. Dan Schill Retired IDFG	
0810-0815	Plenary Introduction Brett High Idaho Department of Fish and Game	
0815-0845	Angler attitudes in special regulation waters, perspectives from an Outfitter/Guide Justin Hayes The Lodge at Palisades Creek	
0845-0920	Catch-and-Release fishing ethic, a historical review Tim Traver Author	
0920-0950	Special regulation use in managing Idaho fisheries, been there done that Chip Corsi Idaho Department of Fish and Game	
0950-1005	Q&A and Roundtable Discussion	
1005-1010	Plenary Wrap-up Brett High	

Wednesday, March 6 (continued)

1010-1040

Morning Break

Room 400D

Go Check out the Posters and Vendors in room 400A

1040

Wednesday Morning Contributed Presentations

Moderator Eli Felts - IDFG

Room - 400C

1040-1100

**Effect Of Trematode Infection On Growth, Reproduction, And Mortality
Of Shorthead Sculpin**

Darby Byington

Brigham Young University-Idaho Biology Department

1100-1120

**Integration Of Environmental DNA-Based Biological Monitoring Within
The USGS National Streamgauge Network**

David Pilliod

**US Geological Survey Forest and Rangeland Ecosystem Science
Center**

1120-1140

**Migration And Spawning Potential Of Bull Trout Occupying the South
Fork of the Boise River**

Joe Benjamin

**US Geological Survey Forest and Rangeland Ecosystem Science
Center**

1140-1200

**Global Warming Rates Of Salmon And Trout Rivers In The
Pacific Northwest**

Donna Horan

US Forest Service

Wednesday, March 6 (continued)

1200-1320	Committee Meetings
	Box Lunch
	Anadromous Fish 410A
	Native Fish 410C
	Aquaculture 430B
	Mentoring 400B
	Public Education 410B
	Aquatic Habitat Level 2 Lobby
	Sub-Unit EXCOM 430A

1320	Wednesday Afternoon Contributed Presentations Moderator: Ken Lepla Idaho Power 400C
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1320-1340 Exploiting Dietary Differences to Develop Species-Specific Control of Common Carp using Toxic Food Pellets
Josh Poole
Idaho Fish and Game, University of Minnesota

IGNITE Presentations

1340-1345 Using Mark-Resight Surveys To Investigate Sightability During Snorkel Surveys
Matthew Amick
Idaho Department of Fish and Game

1345-1350 Where Did You Come From, Where Did You Go? Juvenile White Sturgeon Telemetry
Jacob Hughes
Idaho Power Company

1350-1355 Estimating The Abundance Of Chinook Salmon Redds With The Use Of UAVs
Curtis Roth
Idaho Department of Fish and Game

1355-1400 I Want To Teach You Everything I Have Ever Learned With You In The Next Five Minutes. Reframing How We Approach Educational Outreach In Fisheries.
Natasha Wingerter
University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit

Wednesday, March 6 (continued)

1400-1420 **Moving Mountains and Making it Rain: Enhancing Riparian Resiliency
with Grazing Management and Beaver**

**Kurt Fesenmyer
Trout Unlimited**

1420-1440 **Investigating The Potential For Reverberating Responses To Trophic
Cascades Across Ecosystems**

**Jeremy Brooks
Idaho State University**

1440-1500 **A First Look At Genotyping Archived DNA Samples. Can We Do Better?**

**David Venditti
Idaho Department of Fish and Game**

1500-1520

**Afternoon Break
Sponsored by Idaho Power Company**

1520

**Wednesday Afternoon Contributed Papers
Moderator: Rob Van Kirk – Henrys Fork Foundation
Room 400C**

1520-1540 **Smallmouth Bass Predation On Juvenile Chinook Salmon In The Snake
River**

**John Erhardt
U.S. Fish and Wildlife Service, Idaho Fish and Wildlife Conservation Office**

1540-1600 **The Effect Of Pulse Frequency On Capture Efficiency And Injury Of Trout
Sampled With Backpack Electrofishing In Small Streams**

**Luciano Chiaramonte
Idaho Department of Fish and Game**

1600-1620 **Assessment Of Largemouth Bass Growth In Northern Idaho Lakes:
Spatiotemporal Patterns And Environmental Associations**

**Carson Watkins
Idaho Department of Fish and Game**

1620-1800

**Spawning Run
Sponsored by Biomark
Starts at Biomark Office**

1800-2100

**Student/Professional Pizza Feed Mixer
Room 420**

Thursday, March 7

0700-0800	Breakfast	400D
0700-1700	Meeting Registration/AV Table	440
0800-1700	Vendor and Poster Displays	400A

0820	Thursday Morning Contributed Presentations Moderator: Patrick Kennedy IDFG Room 410AB
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0820-0840	Two Methods Of Estimating Fish Conductivity For Electrofishing Jim Reynolds University of Alaska Fairbanks
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0840-0900	Long-Term Evaluation Of Fitness And Demographic Effects Of A Chinook Salmon Supplementation Program Ilana Koch Columbia river inter-tribal fish commission
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0900-0920	A Comparison Of Three Backpack Electrofishing Configurations For Sampling Juvenile Pacific Lamprey <i>Entosphenus Tridentatus</i> Jason Fortier Idaho Department of Fish and Game
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0920-0940	Effects Of Fishery Related Fight Time And Air Exposure On Pre-Spawn Survival And Reproductive Success Of Adult Hatchery Steelhead Don Whitney Idaho Department of Fish and Game
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0940-1010	Morning Break Sponsored by The Kootenai Tribe of Idaho
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Thursday, March 7 (continued)

1010 Thursday Late Morning Contributed Presentations
Moderator: Greg Schoby IDFG
Room 410AB

1010-1030 Distribution And Movement Of Steelhead And Anglers In The Clearwater River, Idaho
Stacey Feeken
University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit

1030-1050 Movements Of Yellowstone Cutthroat Trout, Brown Trout, And Rainbow Trout In The South Fork Snake River, Idaho.
Kayden Estep
University of Wisconsin-Stevens Point

1050-1110 Southeast Idaho Fish Screen Inventory And Database
Jim DeRito
Trout Unlimited

1110-1130 The Feasibility Of In-Situ Gamete Collection, And Early Life Stage Rearing, Of Wild Lake Trout (*Salvelinus Namaycush*); The Path Towards Developing A YY Male Captive Broodstock In The Future.
William Harryman
Idaho Department of Fish and Game

1130-1150 Otolith Analysis Reveals Variable Juvenile Growth And Migration In Chinook Salmon Experiencing Different Environmental Conditions
Katherine Gillies-Rector
University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit

1150-1420 Business Lunch - Room 400BC

Thursday , March 7 (continued)

**1420 Thursday Afternoon Contributed Presentations
Concurrent Sessions
Rooms 410AB and 420**

Room	410AB	420
Moderator	Bart Gamett - USFS	Evan Brown - IDFG
1420-1440	Foundations Of Relational Values In River Socio-Ecological Systems In The Western Us Adam Eckersell Idaho State University	Changes In Resource Selection Due To Seasonally Induced Intraspecific Competition In Steelhead <i>Oncorhynchus mykiss</i> Natasha Wingerter University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit
1440-1500	Prioritization Of Management Actions For A Threatened Trout Using Multiple Population Viability Analysis Helen Neville Trout Unlimited	Monitoring And Adaptive Management: Small Investment, Big Savings Katie Salsbury Intermountain Aquatics, Inc
1500-1520	Evaluation Of Monitoring Scenarios To Inform Multiple Population Viability Analysis For Lahontan Cutthroat Trout Daniel Dauwalter Trout Unlimited	Using Lake Nutrient Budgets And Stable Isotopes To Reconstruct Historical Sockeye Salmon Abundance In Redfish Lake, Idaho Rachel Brinkley Idaho State University
1520-1550	Afternoon Break Room 400D Sponsored by Idaho Fish and Game	
1550	Thursday Afternoon Contributed Presentations Concurrent Sessions	

Thursday , March 7 (continued)

Room	410AB	420
Moderator	Jim Chandler - Idaho Power	John Erhardt - USFWS
1550-1610	<p>Effects Of Air Exposure On Survival Of Yellowstone Cutthroat Trout From A Warm Water Stream Darcy McCarrick University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit</p>	<p>How Many Fish Should We Stock? Using Population Dynamics Of Kokanee In Lake Pend Oreille To Inform Stocking Goals. Sean Wilson Idaho Department of Fish and Game</p>
1610-1630	<p>Effects Of Flow Management On Yellowstone Cutthroat Trout And Rainbow-Hybrid Trout Populations In The South Fork Snake River Bryce Oldemeyer Henry's Fork Foundation</p>	<p>Understanding The Factors Influencing Population Dynamics Of Kokanee In Northern Idaho Zach Klein University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit</p>
1630-1650	<p>Describing Life History Structure Of Westslope Cutthroat Trout In The St. Maries River Basin Using Otolith Microchemistry John Heckel University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit</p>	<p>Kokanee Salmon Management At Deadwood Reservoir: Supporting An Increasingly Popular Statewide Fishery John Cassinelli Idaho Department of Fish and Game</p>
1650-1710	<p>Estimating Yellowstone Cutthroat Trout Population Dynamics Using An Integrated Population Model Joshua McCormick Idaho Department of Fish and Game</p>	<p>Rainbow Trout Growth Is Linked To Kokanee Abundance In Lake Pend Oreille, Idaho Nicky Graham Idaho Department of Fish and Game</p>

1710-1830 **Poster Session and Trade Show**
Room 400A

1830-2300 **The 57th Annual ICAFS**
Banquet/Fundraiser Auction
Room 400BC

Friday, March 8

0810

Friday Morning Contributed Presentations

Moderator: Ernest Keeley ISU
Room 400C

0810-0830

eBLIMP: The eDNA Basinwide Lamprey Inventory and Monitoring Project
Mike Young
US Forest Service

0830-0850

Change In Species Composition And Abundance Of Tropical Fish Following
Sudden Temperature Changes In Barney Hot Spring, Idaho
Skyler Smith
Brigham Young University-Idaho Biology Department

0850-0910

Early Detection And Monitoring Of A Reintroduced Spring-Chinook
Population In The Okanogan Basin
Matthew B. Laramie
U.S. Geological Survey

0910-0930

Fish Community Trends In The Lower Payette River, Idaho, Associated
With A 2013 Fish Kill
Mike Peterson
Idaho Department of Fish and Game

0930-0950

A Bioenergetic Analysis Of Habitat Suitability For Cutthroat Trout
Oncorhynchus clarki In Headwater Streams Treated With Instream
Structures
Tyson Hallbert
Idaho State University

0950-1010

Invasion Of Non-Native Crayfish *Faxonius virilis* In The Henrys Fork
Drainage, Idaho
Peyton Shaw
Brigham Young University-Idaho Biology Department

1010-1040

Last Morning Break

Room 400D

1040

Friday Morning Contributed Presentations

Moderator: Jeanne McFall IDFG
Room 400C

Friday , March 8 (continued)

1040-1100 **Advances In Hard-Part Chemistry In The Context Of Idaho Fish Populations**
Jens Hegg
University of Idaho, Idaho Cooperative Fish and Wildlife Research Unit

1100-1120 **Predicting The Distribution Of Yellowstone Cutthroat Trout In The Upper Snake River Using Spatial Stream Network Analysis. Predicting The Distribution Of Yellowstone Cutthroat Trout In The Upper Snake River Using Spatial Stream Network Analysis**
Cody Feldman
Idaho State University

1120-1140 **The Effect Of A Saline Sperm Activating Solution On Fertilization Of Chinook Salmon And Steelhead Eggs**
Steve Pomerleau
Idaho Department of Fish and Game

1140-1200 **Identification Of New Diagnostic SNPS For Assessing Hybridization In Salmonids**
Thomas Delomas
Idaho Department of Fish and Game

Best Paper Awards

EXCOM Meeting Room 430B

Poster Titles and Presenters

Angler Science: Engaging Our Grassroots, Matt Barney, Trout Unlimited

Movement Patterns and Habitat Use of Walleye in Lake Pend Oreille, Gavin Aguilar, Idaho Fish and Game

Genetic Sex Marker Discovery in Three Non-Native Fish Species, Katharine Coykendall, Pacific States Marine Fisheries Commission

Examining Standard Environmental DNA Sample Extraction and Archival Methods, Kelly Mazur*, U.S. Geological Survey/Boise State University

Juvenile Life Stages and Hosts of the Trematode *Euryhelminis cotti*, Ian Holmes*, BYU Idaho

Estimating Distribution of Sensitive Species in the Salt River and Blackfoot River Drainages Using Environmental DNA, Jordan Norman*, Brigham Young University - Idaho

Salvage and Relocation of Western Pearlshell Mussel in Tincup Creek, Idaho, Emma Brandon*, Brigham Young University - Idaho

Mussel Behavior and Density in Lolo Creek, Idaho, Michael Murray, U.S. Fish and Wildlife Service

Describing Freshwater Mussel Species in the Portneuf River, Loni Nelson*, Idaho State University

Pacific Lamprey Distribution and Density in the Clearwater River Basin, Doug Nemeth, U.S. Fish and Wildlife Service

Pacific Lamprey Abundance and Passage at the Lower Columbia River Dams, David Swank, U.S. Fish and Wildlife Service

Population Dynamics of Longnose Dace in an Eastern Idaho Stream, Taylor Morlan, Idaho Fish and Game

Age and Growth Patterns of Paiute Sculpin (*Cottus Beldingii*) in Antelope Creek, Idaho, Shawnie Geisler, Brigham Young University – Idaho

Meristic and Morphological Analysis Provides Evidence for Distinctiveness Between Populations of Bluehead Suckers (*Catostomus Discobolus*), Tyson Halbert, Idaho State University

Principal Components of Thermal Regimes in Central Idaho Rivers and Streams, Dan Isaak, U.S. Forest Service

Thermal Regimes of Flowing Waters in the Western United States, Dan Isaak, U.S. Forest Service

Poster Titles and Presenters (cont.)

Migration Timing of Three Salmonid Species in the Yankee Fork Salmon River, Josh Jackson, Shoshone-Bannock Tribes' Fish and Wildlife Department

Returning eggs to gravel: evaluating the efficacy of the Shoshone-Bannock Tribes' egg supplementation efforts in Panther Creek, Idaho, Keats Conley, Shoshone-Bannock Tribes' Fish and Wildlife Department

Fertilization of Chinook Salmon and Steelhead Eggs Using a Saline Solution for Sperm Activation, Steeve Pomerleau, Idaho Fish and Game

Evaluating the Relationship between In-Stream Habitat and Salmonid Densities within the Salmon River Basin, Idaho, Amber Young, Idaho Fish and Game

Examining Long-Term Trends in Abundance of Juvenile Salmonids in South Fork Clearwater Tributaries, Hunter Distad, Idaho Fish and Game

Shared Waters: Utilizing Scales to Distinguish Rainbow Trout from Steelhead in Idaho Streams, Tyler Zumwalt, Pacific States Marine Fisheries Commission

Improving Estimates of Abundance for ESA-Listed Wild Adult Chinook Salmon and Steelhead in the Snake River Basin, John Hargrove, Pacific States Marine Fisheries Commission

Mapping the Foodscape for Drift-Feeding Salmonids Identifies Spatial and Temporal Scales of Resource Exploitation, Hope Owens*, Idaho State University

Contrasting Isotopic Niche Size and Overlap of Native and Non-Native Salmonids in a Large River, Nick Birmingham, Idaho Fish and Game

Measuring Aggressive Foraging Behavior and Competition of Invasive Juvenile Brook Trout with Juvenile Cutthroat Trout, Ryan Whitworth, Idaho State University

Distribution, Abundance, and Habitat Use of Westslope Cutthroat Trout in the St. Maries River Basin, John Heckel*, University of Idaho

Spawning Migration Timing of Yellowstone Cutthroat Trout and Native Suckers in the South Fork Teton River, Idaho, Drew Suchomel*, Brigham Young University – Idaho