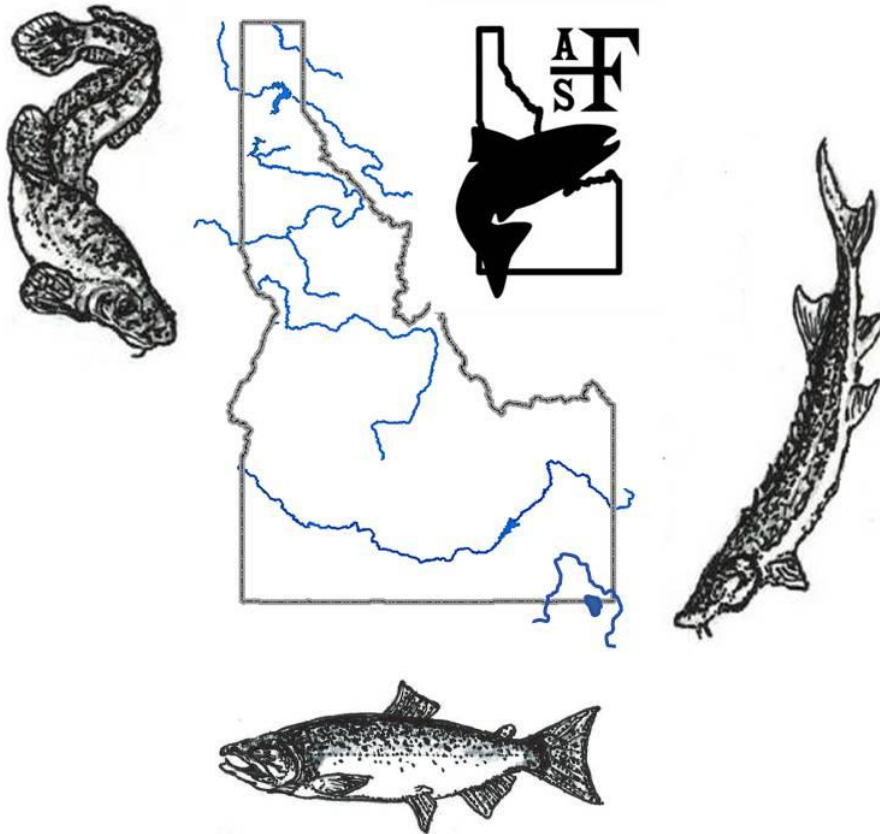


*Idaho's large rivers:
History, Management and Restoration*



artwork by Kelly Lepla



IDAHO CHAPTER

2015 ANNUAL MEETING

Boise Centre
Boise, Idaho
March 3-6

Program

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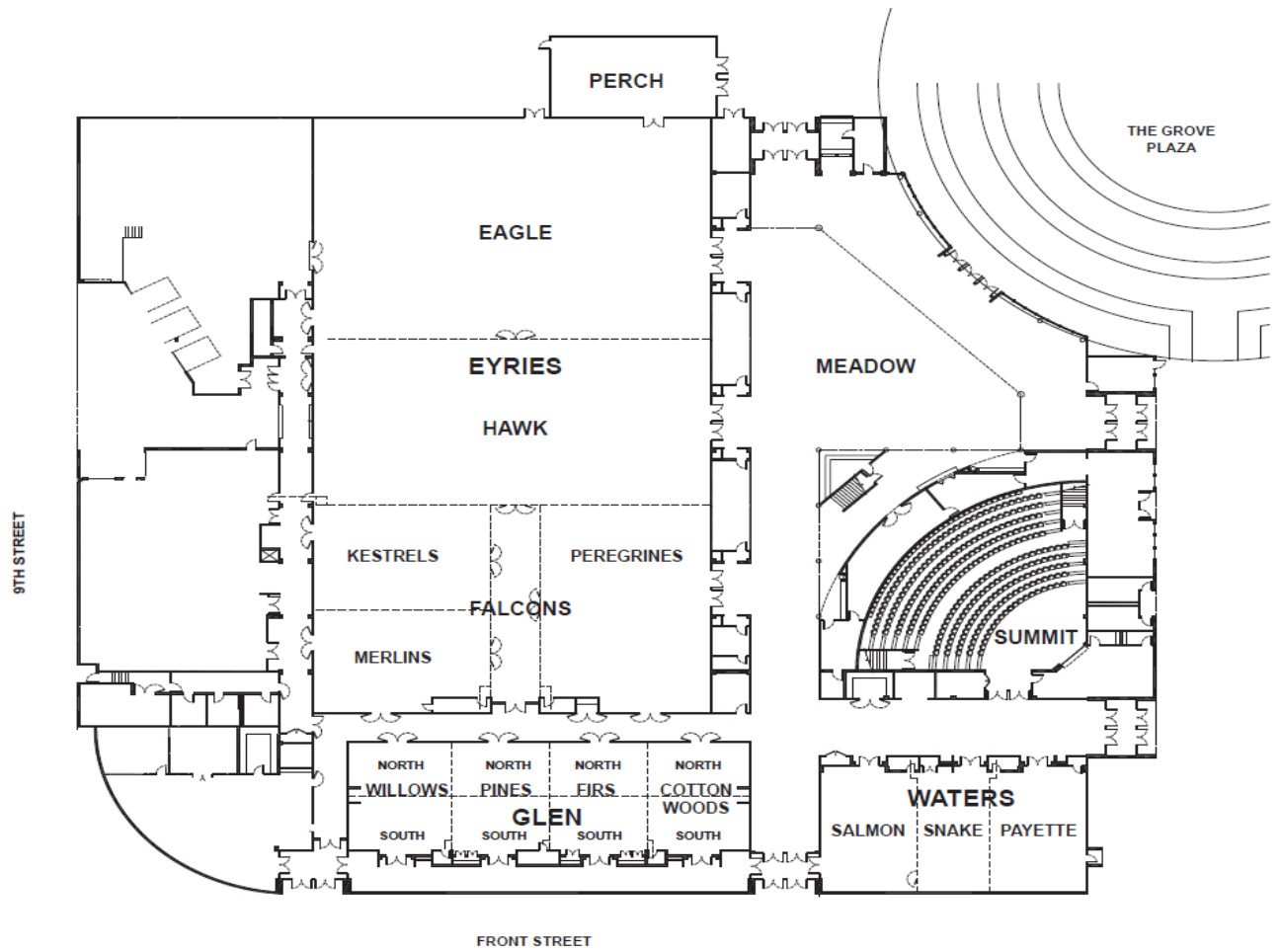


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Schedule At A Glance

Tuesday, March 3		
7:00 am - 7:00 pm	Conference and Workshop Registration	Meadow
2:00 pm – 6:00 pm	AV Table Open	Meadow
9:00 am - 3:00 pm	Workshop “Inflow-Outflow: responsible efficient fish culture”	Cottonwoods
9:00 am – 2:00 pm	Workshop – “Forecasting adult Chinook salmon and steelhead returns to the Snake River basin”	Firs
3:00 pm – 9:00 pm	Vendor / Poster Setup	Falcon
3:00 pm - 5:00 pm	EXCOM Meeting	Pines
5:00 pm – 6:00 pm	Volunteer Meeting	Pines
6:00 pm - 9:00 pm	Welcoming Social	Cottonwoods/Firs
Wednesday, March 4		
7:00 am - 6:00 pm	Conference Registration	Meadow
7:00 am – 5:00 pm	AV Table Open	Meadow
7:00 am – 8:00 am	Breakfast Bar	Falcon
8:00 am - 12:00 pm	Welcome and Plenary	Summit
12:00 pm – 1:30 pm	Committee Meetings	See page 10
1:30 pm-4:00 pm	General Session – Contributed Papers	Summit
4:15 pm to 5:30 pm	Spawning Run/Walk	Meadow
6:00 pm to 9:00 pm	Student Mixer / Beer and Pizza Feed	Basque Center
Thursday, March 5		
8:00 am - 12:00 pm	Conference Registration	Meadow
7:00 am – 5:00 pm	AV Table Open	Meadow
7:00 am – 8:00 am	Breakfast Bar	Falcon
8:00 am - 12:00 pm	Concurrent Sessions	Summit / Waters
12:00 pm – 2:10 pm	Business Meeting and Luncheon	Eagle
2:10 pm -5:00 pm	Concurrent Sessions	Summit / Waters
5:00 pm – 6:00 pm	Poster Session	Falcon
6:00 pm to 11:00 pm	Dinner Buffet - Fund Raiser / Auction	Eagle / Hawk
Friday, March 6		
8:00 am - 11:00 pm	Conference Registration	Meadow
8:00 am – 10:00 pm	AV Table Open	Meadow
8:00 am – 9:00 am	Breakfast Bar	Falcon
8:40 am – 11:40 am	Concurrent Sessions	Summit / Waters
11:40 am – 12:00 pm	Best Paper Awards and Closing Remarks	Summit
12:00 pm – 2:00 pm	Post Meeting EXCOM	Pines

Layout of Conference Center



Tuesday, March 3rd

2015 ICAFS Annual Meeting Workshops

7:00 am to 7:00 pm	Conference and Workshop Registration	Meadow
9:00 am to 12:00 pm	Workshop "Inflow-Outflow: responsible efficient fish culture"	Cottonwoods
9:00 am to 12:00 pm	Workshop "Forecasting adult Chinook salmon and steelhead returns to the Snake River basin "	Firs
12:00 pm to 1:00 pm	Lunch on your own	
1:00 pm to 3:00 pm	Workshops continued	
2:00 pm to 6:00 pm	AV Table open	Meadow
3:00 pm to 9:00 pm	Vendor / Poster Set up	Falcon
3:00 pm to 5:00 pm	Pre-Meeting EXCOM	Pines
5:00 pm to 6:00 pm	Volunteer Meeting	Pines
6:00 pm to 9:00 pm	Welcoming Social (includes Fajitas, Potato Bar and Beer)	Cottonwood/Firs

Wednesday, March 4th

7:00 am – 6:00 pm	Conference Registration	Meadow
7:00 am to 5:00 pm	AV Table open	Meadow
7:00 am-8:00 am	Breakfast Bar	Falcon
8:00 am to 8:10 am	Opening Remarks and Presidential Message Tom Curet ICAFS President	Summit
Plenary Session Idaho's large rivers: History, Management and Restoration		Summit
8:10 am to 8:20 am	Plenary Introduction Jim Chandler ICAFS President Elect	
8:20 am to 8:40 am	Apparent Fish-Assemblage Changes in Idaho Rivers Don Zaroban Idaho Department of Environmental Quality	
8:40 am to 9:00 am	The Monarch of Large River Icons – Idaho's White Sturgeon Ken Lepla Idaho Power Company	
9:00 am to 9:20 am	A Retrospective (circa 1800-2014) on Abundance, Spatial Distribution, and Management of Snake River Basin Fall Chinook Salmon Billy Connor U.S. Fish and Wildlife Service	
9:20 am to 9:40 am	Saving One of Idaho's Large River Fish Icons: Kootenai River Burbot Ryan Hardy Idaho Department of Fish and Game	

Wednesday, March 4th (continued)

9:40 am to 10:00 am	Changes in patterns of streamflow from unregulated watersheds in Idaho, Western Wyoming and Northern Nevada Greg Clark U.S. Geological Survey	
10:00 am to 10:20 am	Break	Falcon
Sponsored by Kootenai Tribe of Idaho		
Plenary Session - Continued		Summit
Idaho's large rivers: History, Management and Restoration		
10:20 am to 10:40 am	Aquifer Management and River Flows Brian Patton Idaho Department of Water Resources	
10:40 am to 11:00 am	Does water still flow downhill? Managing flows and fish in Idaho's large rivers Peter Hassemer Idaho Department of Fish and Game	
11:00 am to 11:20 am	Snake River Restoration: Restoring Processes and Native Habitats Ralph Myers Idaho Power Company	
11:20 am to 11:40 am	Coeur d'Alene River Restoration Kajsa Van de Riet Idaho Department of Environmental Quality	
11:40 am to 12:00 pm	Restoring the Kootenai: A Tribal Approach to Restoration of a Large Idaho River Susan Ireland Kootenai Tribe of Idaho	
12:00 pm to 1:20 pm	Committee Breakout Meetings	
	Box Lunches – Available in the Snake Room Anadromous Committee –Payette Room Fish Culture – Salmon Room Mentoring – Cottonwoods Room Native Fishes – Firs Room Public Education – Pines Room Riparian/Fish Habitat – Willows Room	

Wednesday, March 4th (continued)

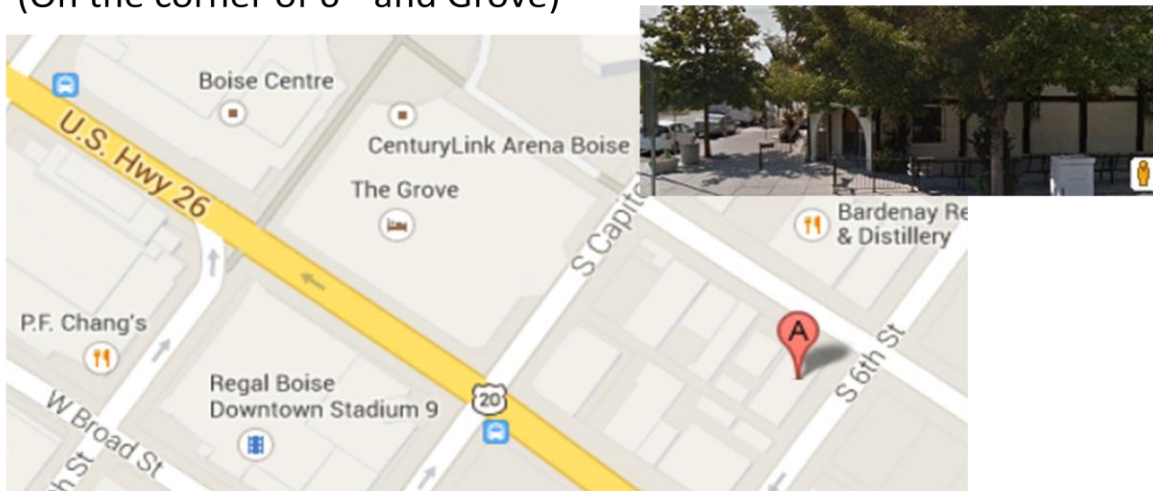
	Contributed Papers – Session 1B Idaho’s large rivers: History, Management and Restoration	Summit
1:20 pm to 1:30 pm	Introduction to Session Moderator Doug Megargle Idaho Department of Fish and Game	
1:30 pm to 1:50 pm	Lake Pend Oreille and the Clark Fork River: Yesterday and Today: Part I Joe DosSantos Avista Corporation	
1:50 pm to 2:10 pm	Lake Pend Oreille and the Clark Fork River: Yesterday and Today: Part II Chip Corsi Idaho Department of Fish and Game	
2:10 pm to 2:30 pm	Challenges in Monitoring a Large River Overwintering Fluvial Bull Trout Population Rick Wilkison Idaho Power Company	
2:30 pm to 2:50 pm	Break Sponsored by Oregon RFID	Falcon
2:50 pm to 3:00 pm	Contributed Papers – Session 1B (continued) Moderator Jim Gregory Lost River Ecology	Summit
3:00 pm to 3:20 pm	Effects of groundwater management on hydrologic regimes in the Snake River Basin, and implications for water and fisheries management Rob Van Kirk Henry’s Fork Foundation	
3:20 pm to 3:40 pm	Lives of the Snake River Steelhead Trout Populations Timothy Copeland Idaho Department of Fish and Game	

Wednesday, March 4th (continued)

3:40 pm to 3:45 pm	Closing Remarks – Spawning Run/Walk Instructions	
4:15 pm to 5:30 pm	Spawning Run / Walk Sponsored by Biomark	Meadow
6:00 pm to 9:00 pm	Student Mixer / Pizza and Beer Feed	Basque Center

Basque Center Directions

Basque Center – 601 W. Grove St.
(On the corner of 6th and Grove)



Thursday, March 5th - Concurrent Sessions

7:00-8:00	Breakfast Bar	Falcon
8:00-12:00	Conference Registration	Meadow
7:00-5:00	AV Table Open	Meadow
Session Name	2A – Habitat Use and Movements	3A – Sampling / Aging Techniques
Moderator	Philip Groves Idaho Power Company	Mike Edmondson Office of Species Conservation
Room	Summit	Waters
8:00 – 8:10	Introduction	Introduction
8:10-8:30	Habitat Use of Non-Native Burbot in a Western Non-Wadeable River Zachary Klein University of Idaho	Evaluation of the standardized electrofishing project for the Upper Colorado River Endangered Fish Recovery Program James B. Reynolds University of Alaska, Fairbanks
8:30-8:50	Movement of Juvenile Burbot Stocked in a Tributary of the Kootenai River Zachary Beard University of Idaho	Spatially Continuous Fish Sampling Braden Lott Quantitative Consultants
8:50-9:10	Microhabitat Use by Native and Nonnative Fishes in the Kootenai River, Idaho Philip Branigan University of Idaho	Imaging Sonar to Assess White Sturgeon <i>Acipenser transmontanus</i> in the Snake River Jacob Hughes Idaho Power Company
9:10-9:30	Movement, Distribution, and Habitat Use of Westslope Cutthroat Trout in the South Fork Clearwater River Basin Marika Dobos University of Idaho	Accuracy and precision of Kokanee age estimates from four different structures Nick Wahl Idaho Department of Fish and Game
9:30-9:50	A hierarchical investigation of factors that influence the spatial ecology of juvenile Chinook salmon (<i>Oncorhynchus tshawytscha</i>) in the Yankee Fork Salmon River, Idaho, USA Lytle Denny Shoshone Bannock Tribes	Comparison of three aging structures for two Idaho sport fish: redband trout and bluegill Dennis Daw Boise State University

Thursday, March 5th *Concurrent Sessions*

9:50-10:10	BREAK – Falcon	BREAK – Falcon
7:00-5:00	AV Table Open	Meadow
Session Name	2A – Population Dynamics and Management	3A – Stock Assignment / Supplementation / Chinook salmon
Moderator	Ryan Newman U.S. Bureau of Reclamation	Dan Kenney U.S. Forest Service
Room	Summit	Waters
10:10-10:20	Introduction	Introduction
10:20-10:40	Population Dynamics of Burbot in the Green River of Wyoming Zachary Klein University of Idaho	Stock Assignment of Fluvial Rainbow Trout <i>Oncorhynchus mykiss</i> in the Kootenai River, Idaho Using Otolith Microchemistry: Lessons Learned and Future Directions T.J. Ross Idaho Department of Fish and Game
10:40-11:00	Effects of Harvest Regulations on Population Dynamics of Lake Trout in Priest Lake, Idaho Elizabeth Ng University of Idaho	Genetic stock identification (GSI) to evaluate stock-of-origin from a mixed sample of kelt steelhead sampled at Lower Granite Dam, Snake River Basin Andrew Matala Columbia River Inter-Tribal Fish Commission
11:00-11:20	Asian Clams Can Pose a Significant Threat to Aquatic Resources Updates on the Lake Pend Oreille Infestation and Management Christine Moffitt University of Idaho	Supplementation with local, natural-origin broodstock may minimize negative fitness impacts in the wild Maureen Hess Columbia River Inter-Tribal Fish Commission
11:20-11:40	Interactions between Fluctuating Reservoir Water Levels and Bull Trout (<i>Salvelinus confluentus</i>) Ecology Anthony Prisciandaro University of Idaho	Natural origin abundance and productivity response to Chinook salmon supplementation in Johnson Creek Ryan Kinzer Nez Perce Tribe
11:40-12:00	Exploring responses of salmon to river restoration using simple food chain models Joe Benjamin U.S. Geological Survey	Modeling spatially explicit life history strategies in juvenile Snake River Fall Chinook Salmon Jens Hegg University of Idaho
12:00-2:10	Business Luncheon – Eagle Room	

Thursday, March 5th - Concurrent Sessions

7:00-5:00	AV Table Open	Meadow
Session Name	2B – Food Webs / Trophic Structure / Diets	3B – Stocking / Hatchery Evaluations
Moderator	Steve Brink Idaho Power Company	Eric Pankau Idaho Department of Fish and Game
Room	Summit	Waters
2:10-2:20	Introduction	Introduction
2:20-2:40	Trophic Structure of the Fish Assemblage in Priest Lake, Idaho Elizabeth Ng University of Idaho	Competition Between Wild Trout and Stocked "Catchable" Trout: Literature Review and Thoughts on a Long-Standing Debate Dan Schill Idaho Department of Fish and Game
2:40-3:00	White Sturgeon Diets: They are what eat, which is a little bit of everything! Blaine Parker Columbia River Inter-Tribal Fish Commission	Improving Return-to-Creel of Hatchery Catchable Rainbow Trout in Idaho: Catchable Size at Release John Cassinelli Idaho Department of Fish and Game
3:00-3:20	Evaluating the Kokanee Growth Response to Nutrient Restoration in Dworshak Reservoir, Idaho. Sean Wilson Idaho Department of Fish and Game	Predation Rate of American White Pelicans on Stocked Catchable Rainbow Trout in Idaho Reservoirs Patrick Kennedy Idaho Department of Fish and Game
3:20-3:40	Break - Falcon	Break – Falcon
Moderator	Steve Brink Idaho Power Company	Stuart Rosenberger Idaho Power Company
3:40-3:50	Introduction	Introduction
3:50-4:10	Stable isotope analysis of fish liver in food web studies: a methods investigation Megan Skinner Washington State University	Summary of past and potential future conservation aquaculture release strategies for Kootenai River Burbot and White Sturgeon Cara Holem-Bell Kootenai Tribe of Idaho
4:10-4:30	Of Olives and Carp: Interactive effects of two invaders on linked stream-riparian food webs Kaleb Heinrich Idaho State University	Identification of SNP markers for Parentage Based Tagging of Burbot <i>Lota lota</i> using restriction-site-associated DNA sequencing Matthew Campbell Idaho Department of Fish and Game
4:30-4:50	Messiness Matters: Evidence from Food Web Studies of the Importance of Spatial Complexity to River Fishes" Colden Baxter Idaho State University	The Effects of Specific Gravity on Inventory Methods for Hatchery Rainbow Trout Eric Pankau Idaho Department of Fish and Game

Thursday, March 5th

5:00 -6:00	Poster Session – Falcon
6:00 - ???	Dinner Buffet - Fund Raiser / Auction Hawk - Eagle

Friday, March 6th

7:30-9:00	Breakfast Bar	Falcon
8:00-11:00	Conference Registration	Meadow
8:00-10:00	AV Table Open	Meadow
Session Name	4A – Grazing Management / Life Histories/ Restoration	5A – Internet / Documentation and Socio-Economics
Moderator	Scott McLean Bureau of Land Management	Mike McLeod Idaho Power Company
Room	Summit	Waters
8:20-8:30	Introduction	Introduction
8:30 – 8:50	Managing livestock grazing in riparian areas on public lands in the 21st century. Brett Roper U.S. Forest Service	The National Stream Internet Project Dan Isaak U.S. Forest Service
8:50-9:10	Linkages between grazing indicators, habitat diversity, and fish diversity in Goose Creek Daniel Dauwalter Trout Unlimited	Project Documentation: the Key to our Future and the Story of our Past Katherine Pierson U.S. Geological Survey
9:10-9:30	Chinook Carcass Recovery (Efficiency and Condition) Tyler Gross Pacific States Marine Fisheries Commission / Idaho Department of Fish and Game	Socio-Economic and Environmental Factors Influence the Relevance of Natural Resource Christine Moffitt University of Idaho
9:30-9:50	Restoration of Patterson Big Springs Creek: A Lesson in Habitat Connectivity for Chinook Salmon (Oncorhynchus tshawytscha). Mike Biggs Idaho Department of Fish and Game	One-year and two-year retention rates for PIT-tags in three body locations and VIE tags for wild trout of spawning size. Elizabeth Mamer Idaho Department of Fish and Game

Friday, March 6th (continued)

9:50-10:10	Break – Falcon		Break – Falcon
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Session Name	4A – Salmonid Populations		5A – PIT Tags and Passage
Moderator	Rob Van Kirk Henry’s Fork Foundation		John Anderson Idaho Power Company
Room	Summit		Waters
10:10-10:20	Introduction		Introduction
10:20-10:40	The Salmonid Population Viability Project: Estimating Viability across Broad Regions under Changing Climates Helen Neville Trout Unlimited		Identifying and Analyzing False Positives, Misreads, and General Weirdness in PIT Tag Detection Data Dave Marvin PEK Ventures
10:40-11:00	Hybrid zone structure in westslope cutthroat trout and rainbow trout in Northern Rocky Mountain headwater streams Michael Young U.S. Forest Service		Lamprey drag force modeling for use in design of Lamprey Passage Structures (LPS) Hattie Zobott University of Idaho
11:00-11:20	The Cold-Water Climate Shield: Delineating Refugia for Preserving Salmonid Fishes Through the 21st Century Dan Isaak U.S. Forest Service		The Effect of Turbulence in Hydropower Dam Fish Passageways on Pacific Lamprey Passage J. Channing Syms University of Idaho
11:20-11:40	Using aerial imagery to predict occurrence and density of redband trout in a remote, desert landscape Dan Dauwalter Trout Unlimited		Technical developments providing improved downstream passage of diadromous fish Andy Peters Pacific Netting Products
11:50-12:00	Best Paper / Poster Awards Closing Remarks Tom Curet ICAFS President		
12:00-2:00	Post Meeting ExCom Meeting – Pines		

List of Posters Presentation Authors (Alphabetized by Presenter)

<p style="text-align: center;">Stream Habitat Restoration: A Low-Cost, Low-Impact Method of Installing Large Woody Debris (LWD) Ryan Banks Pacific States Marine Fisheries Commission and Idaho Department of Fish and Game Presenter: Ryan Banks ryan.banks@idfg.idaho.gov (208) 799-5010</p>
<p style="text-align: center;">Using aerial imagery to quantify change in riparian habitat and beaver occurrence, 1991-2013, related to improved grazing practices Robin Bjork¹, Kurt Fresenmyer¹, Carol Evans² ¹Trout Unlimited, ²Bureau of Land Management Presenter: Robin Bjork rbjork@tu.org (208) 345-9800</p>
<p style="text-align: center;">Investment in Mentoring to Promote Diversity in Conservation Professions Elizabeth Braker¹, Christine M. Moffitt^{2,3}, Kerri Vierling³, Courtney Conway^{2,3}, and Michael Quist^{2,3} ¹Environmental Science Program, ²USGS Cooperative Fish and Wildlife Unit, ³Department of Fish and Wildlife Sciences, Presenter: Elizabeth Braker brak8333@vandals.uidaho.edu (305)527-4123</p>
<p style="text-align: center;">Genotyping-in-Thousands by sequencing (GT-seq): A cost effective SNP genotyping method based on custom amplicon sequencing Nate Campbell, Stephanie Harmon, Shawn Narum Columbia River Inter-Tribal Fish Commission Presenter: Nate Campbell camn@critfc.org (208) 837-9096</p>
<p style="text-align: center;">One fish, two fish, red fish, blue fish; genetic results identify the origin of Chinook salmon in an “extirpated” population in central-Idaho Lytle Denny¹, Matt Smith², Denise Hawkins² ¹Shoshone-Bannock Tribes, ²Abernathy Fish Technology Center Presenter: Lytle Denny ldenny@sbtribes.com (208) 252-2007</p>
<p style="text-align: center;">An Update on Snake River Sockeye Salmon Production at Springfield Fish Hatchery Danielle Dorsch, Doug Engermann, Brandon Filloon, Leah Schulz Idaho Department of Fish and Game Presenter: Danielle Dorsch danielle.dorsch@idfg.idaho.gov (208) 420-5674</p>
<p style="text-align: center;">Distribution and life cycle of the giant salmon fly (Pteronarcys californica) in the Portneuf Valley, Idaho Adam Eckersell, Mattew Schenk, Crismon Kendra, Colden Baxter Idaho State University Presenter: Adam Eckersell schematt@isu.edu (208) 282-2139</p>
<p style="text-align: center;">A thermal map for all Idaho streams Matt Groce, Dan Isaak, Dave Nagel U.S. Forest Service Presenter: Matt Groce matthewcgroce@fs.fed.us (208) 373-4369</p>

<p>Kootenai Tribe of Idaho's Kootenai River Native Fish Conservation Aquaculture Program Cara Holem-Bell, Shawn Young, Sue Ireland Kootenai Tribe of Idaho Presenter: Cara Holem-Bell cholem-bell@kootenai.org (208) 267-3620</p>
<p>Climate Shield Cold-Water Refuge Streams for Cutthroat Trout Dan Isaak, Mike Young, Dave Nagel, Dona Horan, Matt Groce U.S. Forest Service Presenter: Dan Isaak disaak@fs.fed.us (208) 373-4385</p>
<p>Climate Shield Cold-Water Refuge Streams for Bull Trout Dan Isaak, Mike Young, Dave Nagel, Dona Horan, Matt Groce U.S. Forest Service Presenter: Dan Isaak disaak@fs.fed.us (208) 373-4385</p>
<p>Does State and Federal Regulation of Suction Dredging in Idaho Adequately Protect Aquatic Resources? Daniel Kenney U.S. Forest Service Presenter: Daniel Kenney dkenney@fs.fed.us (208) 476-8319</p>
<p>Steelhead Escapement Monitoring Using a Resistance Board Weir in Joseph Creek, Washington/Oregon Paul Kucera, Skyler WhiteTemple, John Robbins, Travis Hodsdon Nez Perce Tribe, Department of Fisheries Resources Management Presenter Paul Kucera paulk@nezperce.org (208) 621-3549</p>
<p>Determining food web relationships that may limit the quality of the Kokanee (<i>Oncorhynchus nerka</i>) fishery in Buffalo Lake, WA Brian Lanouette and Barry C. Moore Washington State University Presenter: Brian Lanouette brian.lanouette@gmail.com (360) 601-3690</p>
<p>Methods used by the Shoshone-Bannock Tribes to conduct a Chinook salmon (<i>Oncorhynchus tshawytscha</i>) reintroduction project in Yankee Fork Salmon River, Idaho Carlos Lopez, Justin Guardipee, Noah Suppah, Joi Thomas Shoshone-Bannock Tribes Presenter: Carlos Lopez clopez@sbtribes.com (208) 251-1379</p>
<p>Population genetic structure of Yellowstone and Bonneville cutthroat trout in a contact zone Ernest Keeley, Janet Loxterman, Kendra Knapp, Selena Gregory Idaho State University Presenter: Janet Loxterman loxtjane@isu.edu (208) 282-6167</p>
<p>Homing vs. Straying; Spawning Patterns of Fluvial Yellowstone Cutthroat Trout in the South Fork of the Snake River Conor McClure¹ and Brett High² ¹Brigham Young University-Idaho, ²Idaho Department of Fish and Game Presenter: Conor McClure mcc12042@byui.edu (907) 750-5167</p>
<p>Effects of Gill-Net Trauma, Barotrauma, and Deep Release on Post-Release Mortality of Lake Trout Elizabeth L. Ng¹, Michael Quist¹, Jim Fredericks² ¹University of Idaho, ²Idaho Department of Fish and Game Presenter: Elizabeth Ng ng1262@vandals.uidaho.edu (908) 872-9103</p>

<p>Who Followed “Following Fishes”: A report on the “Following Fishes” lesson plan pilot project Leslie Reinhardt Idaho Department of Fish and Game/Pacific States Marine Fisheries Commission Presenter: Leslie Reinhardt leslie.reinhardt@idfg.idaho.gov (208)465-8404 ext 269</p>
<p>Adult Salmon Escapement Monitoring in the Secesh River Idaho using Dual Frequency Identification Sonar John Robbins and Paul Kucera Nez Perce Tribe Presenter: John Robbins johnr@nezperce.org (208) 634-5290</p>
<p>Juvenile Kootenai River White Sturgeon survival analysis using Program Mark Pete Rust¹ and Steve Dinsmore² ¹Idaho Department of Fish and Game, ²Iowa State University Presenter: Pete Rust pete.rust@idfg.idaho.gov (208) 769-1414</p>
<p>Columbia Basin Steelhead Reconditioning Studies Jeff Stephenson¹, Doug Hatch¹, David Fast², Ryan Branstetter¹, Andrew Pierce¹ ¹Columbia River Inter-Tribal Fish Commission, ²Yakama Nation Fisheries Presenter: Jeff Stephenson stej@critfc.org (208) 837-9096 x1121</p>
<p>Precision of Hard Structures for Estimating the Age of Burbot Marc Terrazas, Zachary Klein, Michael Quist University of Idaho Presenter: Marc Terrazas terr2081@vandals.uidaho.edu (406) 240-5203</p>
<p>Reactions to Declining and Displaced Populations of Plains Topminnow Joe Thiessen University of Kansas – Kearney Presenter: Joe Thiessen thiessenjd@lopers.unk.edu (208) 407-9893</p>
<p>Differences in Nutrient Input Type Determine Annual Fish Growth in Idaho’s Yankee Fork Lytle Denny^{1,2}, Colden Baxter¹, Martin Ventura^{1,2} ¹Idaho State University Stream Ecology Center, ²Shoshone-Bannock Tribes Presenter: Martin Ventura ventmart@isu.edu (608) 843-9386</p>
<p>Development of SNP genetic markers for estimating population size and parentage based tagging application Ninh Vu¹, Matthew Campbell², Shawn Narum³ ¹Pacific State Marine Fishery Commission and Idaho Department of Fish and Game, ²Idaho Department of Fish and Game, ³ Columbia River Inter-Tribal Fish Commission Presenter: Ninh Vu ninh.vu@idfg.idaho.gov (208) 939-6713</p>
<p>Population genetics of Columbia River Redband Trout, <i>Oncorhynchus mykiss gairdneri</i>, in Dry Creek, Idaho Sarah Walsh¹, Chris Walser¹, Matthew Campbell², Helen Neville³, Laura Redfield⁴ ¹College of Idaho, ²Idaho Department of Fish and Game, ³Trout Unlimited, ⁴Pacific States Marine Fisheries Commission/Idaho Department of Fish and Game Presenter: Sarah Walsh sarah.walsh@yotes.collegeofidaho.edu (208) 936-5027</p>
<p>Population Characteristics of Largemouth Bass in Hayden Lake, Idaho: Influence of Environmental and Biological Factors on Growth and Recruitment Carson Watkins and Jim Fredericks Idaho Department of Fish and Game Presenter: Carson Watkins carson.watkins@idfg.idaho.gov (208) 369-0295</p>

Worldwide patterns of invertebrate drift production in lotic ecosystems with implications for drift-feeding fishes

Ryan Whitworth, Tyson Hallbert, Ernest Keeley
Idaho State University

Presenter: Ryan Whitworth whitrya2@isu.edu (208) 221-5904

Evaluating Single Nucleotide Polymorphisms for assessing movement and reproductive success of rainbow trout *Oncorhynchus mykiss* in the Buffalo River, Idaho and their contribution to the Henrys Fork fishery

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List of Oral Presentations Authors (Alphabetized by Presenter)

<p style="text-align: center;">Movement of Juvenile Burbot Stocked in a Tributary of the Kootenai River Zachary Beard¹, Michael Quist¹, Ryan Hardy², T.J. Ross² 1University of Idaho, 2Idaho Department of Fish and Game Presenter: Zachary Beard bear4516@vandals.uidaho.edu (414) 534-4747</p>
<p style="text-align: center;">Exploring responses of salmon to river restoration using simple food chain models Joe Benjamin¹, Ryan Bellmore¹, Michael Newsom², Jason Dunham¹, Alex Fremier³ ¹U.S. Geological Survey –FRESC, ²U.S. Bureau of Reclamation, ³Washington State University Presenter: Joe Benjamin jbenjamin@usgs.gov (208) 559-2418</p>
<p style="text-align: center;">Restoration of Patterson Big Springs Creek: A Lesson in Habitat Connectivity for Chinook Salmon (Oncorhynchus tshawytscha) Mike Biggs Idaho Department of Fish and Game Presenter: Mike Biggs mike.biggs@idfg.idaho.gov (208) 756-6022</p>
<p style="text-align: center;">Microhabitat Use by Native and Nonnative Fishes in the Kootenai River, Idaho Philip Branigan¹, Michel Quist¹, Susan Ireland², Brad Shepard³ ¹University of Idaho, ²Kootenai Tribe of Idaho, ³Wildlife Conservation Society Presenter: Phil Branigan bran4826@vandals.uidaho.edu (208) 892-9011</p>
<p style="text-align: center;">Identification of SNP markers for Parentage Based Tagging of Burbot Lota lota lota using restriction-site-associated DNA sequencing Matthew Campbell¹, Amanda Matala², Ryan Hardy¹, Shawn Narum² ¹Idaho Department of Fish and Game, ²Columbia River Intertribal Fish Commission Presenter: Matt Campbell matthew.campbell@idfg.idaho.gov (208) 939-6713</p>
<p style="text-align: center;">Improving Return-to-Creel of Hatchery Catchable Rainbow Trout in Idaho: Catchable Size at Release John Cassinelli Idaho Fish and Game Presenter: John Cassinelli john.cassinelli@idfg.idaho.gov (208) 465-8404</p>
<p style="text-align: center;">Changes in patterns of streamflow from unregulated watersheds in Idaho, Western Wyoming and Northern Nevada Greg Clark U.S. Geological Survey Presenter: Greg Clark gmclark@usgs.gov (208) 387-1324</p>
<p style="text-align: center;">Lives of the Snake River Steelhead Trout Populations Timothy Copeland¹, Michael Ackerman², Kristin Wright² ¹Idaho Department of Fish and Game, ²Idaho Department of Fish and Game/Pacific States Marine Fisheries Commission Presenter: Tim Copeland tim.copeland@idfg.idaho.gov (208) 465-8404</p>
<p style="text-align: center;">A Retrospective (circa 1800–2014) on Abundance, Spatial Distribution, and Management of Snake River Basin Fall Chinook Salmon ¹Billy Connor, ²Bill Arnsberg, ³Jim Chandler, ⁴Tom Cooney, ³Phil Groves, ⁵Glen Mendel, ⁵Debbie Milks, ⁶Dennis Rondorf, ³Stuart Rosenberger, ⁵Mark Schuck, ⁶Ken Tiffan, ²Bill Young ¹U.S. Fish and Wildlife Service, ²Nez Perce Tribe, ³Idaho Power Company, ⁴National Marine Fisheries Service, ⁵Washington Department of Fish and Wildlife, ⁶U.S. Geological Survey Presenter: Billy Connor william_connor@fws.gov (208) 476-2242</p>

<p align="center">Lake Pend Oreille and the Clark Fork River: Yesterday and Today – Part II Joe DosSantos¹ and Chip Corsi² ¹Avista Corporation, ²Idaho Department of Fish and Game Presenter: Chip Corsi charles.corsi@idfg.idaho.gov (208) 769-1414</p>
<p align="center">Clearwater River steelhead at the reservoir/river interface: movement patterns and timing Matthew Corsi and Veronica Corbett Idaho Department of Fish and Game Presenter: Matthew Corsi matthew.corsi@idfg.idaho.gov (208) 799-5010</p>
<p align="center">Using aerial imagery to predict occurrence and density of redband trout in a remote, desert landscape Dan Dauwalter, Kurt Fesenmyer, Robin Bjork Trout Unlimited Presenter: Dan Dauwalter ddauwalter@tu.org (208) 345-9800</p>
<p align="center">Linkages between grazing indicators, habitat diversity, and fish diversity in Goose Creek Daniel Dauwalter, John Walrath, Drew Reinke Trout Unlimited Presenter: Dan Dauwalter ddauwalter@tu.org (208)345-9800</p>
<p align="center">A hierarchical investigation of factors that influence the spatial ecology of juvenile Chinook salmon (<i>Oncorhynchus tshawytscha</i>) in the Yankee Fork Salmon River, Idaho, USA Lytle P. Denny¹ and Colden V. Baxter² ¹Shoshone-Bannock Tribes, ²Idaho State University Presenter: Lytle Denny ldenny@sbtribes.com (208) 252-2007</p>
<p align="center">Movement, Distribution, and Habitat Use of Westslope Cutthroat Trout in the South Fork Clearwater River Basin Marika Dobos¹, Michael Quist¹, Matthew Corsi², Joseph Dupont² ¹University of Idaho, Moscow, ²Idaho Department of Fish and Game Presenter: Marika Dobos do6458@vandals.uidaho.edu (503) 970-0818</p>
<p align="center">Lake Pend Oreille and the Clark Fork River: Yesterday and Today – Part I Joe DosSantos¹ and Chip Corsi² ¹Avista Corporation, ²Idaho Department of Fish and Game Presenters: Joe DosSantos Joe.Dossantos@avistacorp.com (406) 847-2729</p>
<p align="center">Comparison of three aging structures for two Idaho sport fish: redband trout and bluegill Dennis Daw¹, Dan Schill², Peter Koetsier¹, Liz Mamer² ¹Boise State University, ²Idaho Department of Fish and Game Presenter: Dennis Daw dennis.daw@u.boisestate.edu (208) 921-2510</p>
<p align="center">Chinook Carcass Recovery (Efficiency and Condition) Tyler Gross¹ and Matt Corsi² ¹Pacific States Marine Fisheries Commission/Idaho Department of Fish and Game, ²Idaho Department of Fish and Game Presenter: Tyler Gross tyler.gross@idfg.idaho.gov (208) 799-5010</p>
<p align="center">Saving One of Idaho's Large River Fish Icons: Kootenai River Burbot Ryan S. Hardy¹, Shawn P. Young², Sarah M. Stephenson³, Kenneth D. Cain⁴ ¹Idaho Department of Fish and Game, ²Kootenai Tribe of Idaho, ³Ministry of Forests, Lands and Natural Resource Operation, BC, ⁴University of Idaho Presenter: Ryan Hardy ryan.hardy@idfg.idaho.gov (208) 769-1414</p>

<p align="center">Does water still flow downhill? Managing flows and fish in Idaho's Large rivers</p> <p align="center">Peter Hassemer Idaho Department of Fish and Game Presenter: Pete Hassemer pete.hassemer@idfg.idaho.gov (208) 334-3791</p>
<p align="center">Modeling spatially explicit life history strategies in juvenile Snake River Fall Chinook Salmon</p> <p align="center">Jens Hegg¹, Brian Kennedy¹, Rich Zabel², Paul Chittaro² ¹University of Idaho, ²National Oceanic and Atmospheric Administration, Northwest Fisheries Science Center Presenter: Jens Hegg hegg1432@vandals.uidaho.edu (509) 592-8867</p>
<p align="center">Of Olives and Carp: Interactive effects of two invaders on linked stream-riparian food webs</p> <p align="center">Kaleb Heinrich and Colden Baxter Idaho State University Presenter: Kaleb Heinrich heinkale@isu.edu (208) 282-2139</p>
<p align="center">Supplementation with local, natural-origin broodstock may minimize negative fitness impacts in the wild</p> <p align="center">Maureen Hess¹, Craig Rabe², Jason Vogel², Doug Nelson², Shawn Narum¹ ¹Columbia River Inter-Tribal Fish Commission, Hagerman Genetics Lab, ²Nez Perce Tribe Presenter: Maureen Hess hesm@critfc.org (208) 837-9096 x1117</p>
<p align="center">Summary of past and potential future conservation aquaculture release strategies for Kootenai River Burbot and White Sturgeon</p> <p align="center">Cara Holem-Bell¹, Shawn Young¹, Ryan Hardy², Sara Stephenson³ ¹Kootenai Tribe of Idaho, ²Idaho Department of Fish and Game, ³British Columbia Ministry of Forest, Lands, and Natural Resource Operations Presenter: Cara Holem-Bell cholem-bell@kootenai.org (208) 267-3620</p>
<p align="center">Imaging Sonar to Assess White Sturgeon <i>Acipenser transmontanus</i> in the Snake River</p> <p align="center">Jacob Hughes and Phil Bates Idaho Power Company Presenter: Jacob Hughes JHughes@idahopower.com (208) 388-6915</p>
<p align="center">Restoring the Kootenai: A Tribal Approach to Restoration of a Large River in Idaho</p> <p align="center">Susan Ireland Kootenai Tribe of Idaho Presenter Sue Ireland ireland@kootenai.org (208) 267-3620</p>
<p align="center">The Cold-Water Climate Shield: Delineating Refugia for Preserving Salmonid Fishes Through the 21st Century</p> <p align="center">Dan Isaak, Mike Young, Dave Nagel, Dona Horan and Matt Groce United States Forest Service Presenter: Dan Isaak disaak@fs.fed.us (208) 373-4385</p>
<p align="center">The National Stream Internet Project</p> <p align="center">Dan Isaak¹, Erin Peterson², Dave Nagel¹, Jay Ver Hoef³ and Jeff Kershner⁴ ¹U.S. Forest Service, ²CSIRO, ³NOAA; ⁴US Geological Survey Presenter: Dan Isaak disaak@fs.fed.us (208) 373-4385</p>
<p align="center">Predation Rate of American White Pelicans on Stocked Catchable Rainbow Trout in Idaho Reservoirs</p> <p align="center">Patrick Kennedy, Kevin Meyer, David Teuscher, Arnie Brimmer Idaho Department of Fish and Game Presenter: Pat Kennedy pat.kennedy@idfg.idaho.gov (208) 465-8404</p>

<p>Natural origin abundance and productivity response to Chinook salmon supplementation in Johnson Creek Ryan Kinzer and Craig Rabe Nez Perce Tribe Presenter: Ryan Kinzer ryank@nezperce.org (208) 630-3750</p>
<p>Habitat Use of Non-Native Burbot in a Western Non-Wadeable River Zachary Klein¹, Michel Quist¹, Darren Rhea², Anna Senecal² ¹University of Idaho, ²Wyoming Department of Game and Fish Presenter: Zach Klein Klei7686@vandals.uidaho.edu (303) 249-4190</p>
<p>Population Dynamics of Burbot in the Green River of Wyoming Zachary Klein¹, Michael Quist¹, Darren Rhea², Anna Senecal² ¹University of Idaho, ²Wyoming Department of Game and Fish Presenter: Zach Klein Klei7686@vandals.uidaho.edu (303) 249-4190</p>
<p>The Monarch of Large River Icons – Idaho’s White Sturgeon Ken Lepla Idaho Power Company Presenter Ken Lepla KLepla@idahopower.com (208) 388-2921</p>
<p>Spatially Continuous Fish Sampling Braden Lott Quantitative Consultants, Inc. Presenter: Braden Lott braden@qcinc.org (208) 310-9149</p>
<p>One-year and two-year retention rates for PIT-tags in three body locations and VIE tags for wild trout of spawning size Elizabeth R.J.M Mamer and Kevin Meyer Idaho Department of Fish and Game Presenter: Liz Mamer liz.mamer@idfg.idaho.gov (208) 465-8404 x270</p>
<p>Identifying and Analyzing False Positives, Misreads, and General Weirdness in PIT Tag Detection Data Dave Marvin PEK Ventures Presenter: Dave Marvin Dave.Marvin.USA@gmail.com (503) 705-7849</p>
<p>Genetic stock identification (GSI) to evaluate stock-of-origin from a mixed sample of kelt steelhead sampled at Lower Granite Dam, Snake River Basin Andrew Matala¹, Doug Hatch¹, Shawn Narum¹, Scott Everett², Mike Ackerman³ ¹Columbia River Inter-Tribal Fish Commission, ²Nez Perce Tribe, ³Pacific States Marine Fisheries Commission Presenter: Andrew Matala mata@critfc.org (208) 316-5655</p>
<p>Socio-Economic and Environmental Factors Influence the Relevance of Natural Resource Christine M. Moffitt University of Idaho Presenter: Christine Moffitt cmoffitt@uidaho.edu (208) 885-7047</p>
<p>Asian Clams Can Pose a Significant Threat to Aquatic Resources Updates on the Lake Pend Oreille Infestation and Management Christine Moffitt¹, Frank Wilhelm¹, Tom Woolf², Bob Kibler³ ¹University of Idaho, ²Idaho Department of Agriculture, ³U.S. Fish and Wildlife Service Presenter: Christine Moffitt cmoffitt@uidaho.edu (208) 885-7047</p>

<p align="center">Snake River Restoration: Restoring River Processes and Native Habitats</p> <p align="center">Ralph Myers¹, David Primovich², Chris Randolph¹ Idaho Power Company, The Freshwater Trust Presenter: Ralph Myers rmyers@idahopower.com (208) 388-2358</p>
<p align="center">The Salmonid Population Viability Project: Estimating Viability across Broad Regions under Changing Climates</p> <p align="center">Helen Neville¹, Seth Wenger², D. Dauwalter¹, Erin Landguth³, Dan Isaak⁴, Jason Dunham⁵, Charles Luce⁴, Robin Bjork¹ ¹Trout Unlimited, ²University of Georgia, ³University of Montana, ⁴U.S. Forest Service, ⁵U.S. Geological Survey, Presenter: Helen Neville hneville@tu.org (208) 345-9800</p>
<p align="center">Effects of Harvest Regulations on Population Dynamics of Lake Trout in Priest Lake, Idaho</p> <p align="center">Elizabeth Ng¹, Michael Quist¹, Jim Fredericks² ¹University of Idaho, ²Idaho Department of Fish and Game Presenter: Elizabeth Ng ng1262@vandals.uidaho.edu (908) 872-9103</p>
<p align="center">Trophic Structure of the Fish Assemblage in Priest Lake, Idaho</p> <p align="center">Elizabeth Ng¹, Michael Quist¹, Jim Fredericks² ¹University of Idaho, ²Idaho Department of Fish and Game Presenter: Elizabeth Ng ng1262@vandals.uidaho.edu (908) 872-9103</p>
<p align="center">The Effects of Specific Gravity on Inventory Methods for Hatchery Rainbow Trout</p> <p align="center">Eric Pankau, Beau Gunter, Bryan Grant, John Cassinelli Idaho Department of Fish and Game Presenter: Eric Pankau eric.pankau@idfg.idaho.gov (208) 427-6364</p>
<p align="center">White Sturgeon Diets: They are what eat, which is a little bit of everything!</p> <p align="center">Blaine Parker Columbia River Inter-Tribal Fish Commission Presenter: Blaine Parker parb@critfc.org (503) 731-1268</p>
<p align="center">Aquifer Management and River Flows</p> <p align="center">Brian Patton Idaho Department of Water Resources Presenter: Brian Patton brian.patton@idwr.idaho.gov (208) 287-4837</p>
<p align="center">Technical developments providing improved downstream passage of diadromous fish through use of barrier and collection nets and floating surface collectors at high-head dams</p> <p align="center">Andy Peters Pacific Netting Products Presenter: Andy Peters andy@pacificnettingproducts.com (360) 297-0858</p>
<p align="center">Project Documentation: the Key to our Future and the Story of our Past</p> <p align="center">Katherine Pierson¹, Rebecca Scully¹, Jennifer Bayer¹, Keith Steele² ¹U.S. Geological Survey/ Pacific Northwest Aquatic Monitoring Partnership, ²Steele Sitka Technology Group Presenter: Katherine Pierson kpierson@usgs.gov (509) 538-2299 ext. 273</p>
<p align="center">Interactions between Fluctuating Reservoir Water Levels and Bull Trout (<i>Salvelinus confluentus</i>)</p> <p align="center">Anthony Prisciandaro and Dennis Scarnecchia University of Idaho Presenter: Anthony Prisciandaro prisciandaroa@hotmail.com (208) 871-3529</p>

Evaluation of the standardized electrofishing project for the Upper Colorado River Endangered Fish Recovery Program

James B. Reynolds¹ and Jan C. Dean²

¹University of Alaska Fairbanks, ²U.S. Fish and Wildlife Service, Natchitoches National Fish Hatchery
Presenter: Jim Reynolds jbreynolds@alaska.edu (480) 286-1395

Managing livestock grazing in riparian areas on public lands in the 21st century.

Brett Roper

U.S. Forest Service

Presenter: Brett Roper broper@fs.fed.us (435) 755-3566

Stock Assignment of Fluvial Rainbow Trout *Oncorhynchus mykiss* in the Kootenai River, Idaho Using Otolith Microchemistry: Lessons Learned and Future Directions

T.J. Ross¹, Scott A. Carleton², Michael C. Quist³, Jim Dunnigan⁴, Ryan Hardy¹

¹Idaho Department of Fish and Game, ²U.S. Geological Survey, New Mexico Cooperative Fish and Wildlife Research Unit, ³U.S. Geological Survey, Idaho Cooperative Fish and Wildlife Research Unit, ⁴Montana Fish, Wildlife and Parks

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Competition Between Wild Trout and Stocked "Catchable" Trout: Literature Review and Thoughts on a Long-Standing Debate

Dan Schill

Idaho Department of Fish and Game

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Stable isotope analysis of fish liver in food web studies: a methods investigation

Megan Skinner and Barry Moore

Washington State University

Presenter: Megan Skinner megan.skinner@email.wsu.edu (360) 931-2886

The Effect of Turbulence in Hydropower Dam Fish Passageways on Pacific Lamprey Passage

J. Channing Syms, Mark Kirk, Daniele Tonina, Chris Caudill

University of Idaho

Presenter: Channing Syms rex2gsu@yahoo.com (208) 830-1979

Coeur d'Alene River Restoration

Kajsa Van de Riet

Idaho Department of Environmental Quality

Presenter: Kajsa Van de Riet kajsa.vanderiet@deq.idaho.gov (208) 666-4633

Effects of groundwater management on hydrologic regimes in the Snake River Basin, and implications for water and fisheries management

Rob Van Kirk

Henry's Fork Foundation

Presenter: Rob Van Kirk rob@henrysfork.org (208) 652-3567

Accuracy and precision of Kokanee age estimates from four different structures

Nick Wahl, Bill Ament, Bill Harryman, Andy Dux

Idaho Department of Fish and Game

Presenter: Nick Wahl nicholas.wahl@idfg.idaho.gov (208) 769-1414

Challenges in Monitoring a Large River Overwintering Fluvial Bull Trout Population

Richard A. Wilkison

Idaho Power Company

Presenter: Rick Wilkison rwilkison@idahopower.com (208) 388-2963

Evaluating the Kokanee Growth Response to Nutrient Restoration in Dworshak Reservoir, Idaho.

Sean Wilson

Idaho Department of Fish and Game

Presenter: Sean Wilson sean.wilson@idfg.idaho.gov (208) 750-4244

Hybrid zone structure in westslope cutthroat trout and rainbow trout in Northern Rocky Mountain headwater streams

Michael Young, Kevin McKelvey, Michael Schwartz, Taylor Wilcox

Rocky Mountain Research Station, U.S. Forest Service

Presenter: Michael Young mkyoung@fs.fed.us (406) 396-1209

Apparent Fish-Assemblage Changes in Idaho Rivers

Don Zaroban

Idaho Department of Environmental Quality

Presenter: Don Zaroban don.zaroban@deq.idaho.gov (208) 373-0405

Lamprey drag force modeling for use in design of Lamprey Passage Structures (LPS)

Hattie Zobott¹, Ralph Budwig¹, Christopher Caudill², Bob Basham¹

¹University of Idaho – Center for Ecohydraulics Research, ²University of Idaho, Department of Fish and Wildlife

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