

SETUP

Noon – 7:30 PM • Wednesday, March 4

Boards will be provided and names of poster authors will be indicated on each board. Authors are responsible for their own hanging hardware.

POSTER SOCIAL

8:00 PM – 11:30 PM • Wednesday, March 4

During the social, authors are asked to be with their posters between 8:00 and 9:00 pm.

DISPLAY HOURS

8:00 PM – 11:30 PM • Wednesday, March 4
8:00 AM – 6:00 PM • Thursday, March 5
8:00 AM – 10:20 AM • Friday, March 6

Posters will be on display in the Exhibit Hall.

TAKEDOWN

10:20 AM – Noon • Friday, March 6

Demian Ebert ORAFS Social Media	1	2	William Yeo ORAFS Communications
Ryan Battleson ORAFS Education and Outreach	3	4	Gabe Sheoships ORAFS Diversity, Equity, and Inclusion

Troy Brandt ORAFS Legislative Committee	5	6	Wesley Noone Deschutes River Alliance
Wesley Shum ODFW	7	8	Jesus Vargas ODFW

Eric Bailey ODFW	9	10	Reed Fischer USGS
Mark Terwilliger ODFW	11	12	Kathleen Neely NMFS

Rachel Sanchez-Ruffra* OSU	13	14	Henry Fleener* OSU
Rebecca Howard* OSU	15	16	Katherine Bocskor* SDSU

Claire Rosemond* OSU	17	18	Sage Fox* OSU
Rosemary Pazdral* OSU	19	20	Megan Forte* NOAA

Ann Gray USFWS	21	22	Lora Tennant Nez Perce Tribe
Ailo Adkison UAF	23	24	Sara Hart OSU

Ken Binder Mt Hood Env	25	26	Michael Meeuwig ODFW
Jim Capurso ORAFS Native Fish	27	28	Cory Sipher ORAFS Freshwater Habitat

Kelly Lawrence Michael Harte ORAFS Marine Habitat & Ecology	29	30	Zachary Mize OSU - Cascades
Ian Tattam ORAFS Natural Production	31	32	Ryan Couture ORAFS Fish Culture

KEY TO ACRONYMS ON PAGE 21

*Student

TITLE	AUTHOR, ORGANIZATION
1 ORAFS Social Media Committee	Demian Ebert , Pacific Power
2 ORAFS Communications Committee	JWilliam (Jim) Yeo
3 ORAFS Education and Outreach Committee	Ryan Battleson , ODFW
4 ORAFS Diversity, Equity and Inclusion Committee	Gabe Sheoships
5 ORAFS Legislative Committee	Troy Brandt River Design Group, Inc.
6 Non-insect abundance and their contributions to salmonid parasites in the Deschutes River, Oregon	Wesley Noone Deschutes River Alliance
7 Twenty seven years and counting, Salmon and steelhead monitoring in Tenmile and Cummins Creek, Oregon	Wesley Shum , ODFW

8	Salmonberry River Steelhead: A unique subpopulation of the Nehalem River basin.	Jesus Vargas , ODFW
9	Use of a Side Scan Sonar to Describe Habitat Condition in the Columbia Slough	Eric Bailey , ODFW
10	Going where no salmon has gone before: evaluation of migratory passage of Coho Salmon over Lake Creek Falls	Reed Fischer , USGS
11	The Most Incredible Poster about the ODFW Marine Resources Program Fish Aging Project You'll Ever Read	Mark Terwilliger , ODFW
12	Warm and Wormy: The Climate Change Forecast Fish Fear!	Kathleen Neely , NMFS
13	A Researcher's Guide to the Endangered Species Act Permitting Process	Rachel Sanchez-Ruffra , NOAA
14	Complex Particles: A potential tool for oral vaccine delivery	Henry Fleener , OSU
15	Four decades of change in the Oregon nearshore flatfish fishery through the eyes of science and industry	Rebecca Howard , OSU
16	The Prey Preferences of California Market Squid	Katherine Bocskor , SDSU
17	Influence of oceanographic conditions and food web quality on Black Rockfish body condition	Claire Rosemond , OSU
18	Influence of Soil Particle Size on Carbon Storage of Oregon Coastal Soils	Sage Fox , OSU
19	Streamflow response to lithology and physiography in rain-dominated, coastal watersheds	Rosemary Pazdral , OSU
20	Comparative Analysis of Water Quality Standards for Hatchery Effluent Affecting Salmon Under the Endangered Species Act and the Clean Water Act	Megan Forte , NOAA
21	Seeking Input: Draft Guidelines for How to Minimize Impacts to Lampreys During In-water Work	Ann Gray , USFWS
22	Does temporal variation in smolt estuary entry influence adult returns of Imnaha River Chinook Salmon and steelhead trout?	Lora Tennant , Nez Perce Tribe
23	Incorporating Habitat Information to Improve Salmon Stock-Recruitment Analysis	Milo Adkison , UAF
24	Using Index Surveys to Monitor Winter Steelhead Spawning in the Upper Willamette River Basin	Sara Hart , ODFW
25	Effects of Catch-and-Release Practices on Coho Salmon Mortality in the Lower Cowlitz River	Ken Binder Mount Hood Environmental
26	Detection patterns, abundance, and survival of translocated juvenile Bull Trout in the Odell Lake drainage	Michael Meeuwig , ODFW
27	ORAFS Native Fish Committee	Jim Capurso , USFS
28	ORAFS Freshwater Habitat Committee	Cory Sipher , BLM
29	ORAFS Marine Habitat and Ecology Committee	Kelly Lawrence , ODFW Michael Harte , OSU
30	Prevalence and diversity of parasites in rainbow trout, in lakes and reservoirs of eastern and central Oregon	Zachary Mize , OSU
31	ORAFS Natural Production Committee	Ian Tattam , ODFW
32	ORAFS Fish Culture Committee	Ryan Couture , ODFW

Technical Sessions, Wednesday, 3/4/2020, 3:00-6:00 pm

Room	Fisheries Economics & Human Dimensions	Northwest Pink & Chum Workshop	Crazy Ideas That Just Might Work	Get to Know Your External Committee	Advances in Telemetry	Fisheries Art
	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
Moderator	Allen Molina, ODFW	Kathleen Neely, NMFS	Christina Murphy, OSU	Jason Brandt, ODFW	Matt Knoff, Lotek	Bruce Koike, Little Pond
3:00 PM	The Non-Market Economic Benefits from Recovering Oregon Coast Coho Salmon David Lewis, OSU	Introduction Kathleen Neely, NMFS	Feasibility of Stocking YY Males to Eradicate Brook Trout from an Isolated Washington Stream Brian Davis, USFWS	8:00 - Native Fish, Jim Capurso, USFS	Optimizing 3D positioning capabilities of acoustic telemetry arrays Joshua Murauskus, Four Peaks	Gyotaku, the Japanese Art of Fish Printing as a Bridge for Community Engagement Bruce Koike, Little Pond
3:20 PM	A Primer for Reviewing Socioeconomic Analyses in Environmental Impact Assessments (EIS) Camilla Kennedy, ODFW	Plenary: Arctic Salmon: Community-led initiatives bridge to an Arctic "beyond resilience" Karen Dummall, FAOC	Fingerling Feast or Famine: How Stocking Fingerling Rainbow Trout May Benefit Wild Brown Trout in the Lower Owyhee River Oregon Kirk Handley, ODFW	8:10 - Freshwater Habitat Corey Sipher, BLM	Handle with caution! The often overlooked effects of handling and tagging Nick Ackerman, PGE	Drawn to Nature: The Artwork of Anthony Pedro Anthony Pedro, ODFW
3:40 PM	A Review of Community Support Measures Included in Alaskan Fisheries and a Roadmap for their Use in Sustaining and Rebuilding Small Fishing Communities Alexander Kotlarov, UAKF*	Introduction to Alaska Hatchery Wild Research Project Bill Smoker, UAKF - Retired	Considering new pathways to resiliency through diverse coho life histories. Edward Hughes, CWA	8:20 - Marine Habitat & Ecology, Kelly Lawrence, ODFW	Evaluating swimming behavior during passage of migrating adult Pacific lamprey using accelerometer biotelemetry Sarah Hanchett, UI*	Bridging The Gap Between Science And Art Laura Hauck, USFS
4:00 PM	What shapes coastal visitors' ocean awareness? Haley Epperly, OR Sea Grant/ODFW - MRP	Patterns of occurrence of hatchery-origin pink salmon in five streams in western Prince William Sound, Alaska Pete Rand, PWSSC	Application of Emergency Management Concepts in Assessing The Risk of Hybridization Between Native and Introduced Salmonids Michael Manning, OSU*	8:30 - Fish Culture, Ryan Couture, ODFW	Calculating trap efficiency rates for adult spring Chinook salmon using radio telemetry in the Hood River, Oregon Megan Shearer, CTWS	Art and Science: A Graduate Student's Story Lauren Zatkos, OSU
4:20 PM	Can Subjective Well-being Be Used to Assess Public Responses to Marine Policy? Thomas Swearingen, ODFW - MRP	Relative fitness of hatchery and natural Pink Salmon in Prince William Sound: Part I, Methods Kyle Shedd, ADFG	Uncharted Water: Implementing New Methods and Technology for Habitat Sampling in Non-Wadeable Rivers Matt Strickland, ODFW	8:40 - Natural Production, Ian Tattum, ODFW	Performance of injectable juvenile Salmomid Acoustic Telemetry System (JSATS) Tags in the Yakima and Klickitat Rivers, Washington Amy Hansen, USGS	Weapons of Microdestruction: A Conversation about the Intersection of the Arts and Science Jerri Batholomew, OSU
4:40 PM	What can creel data tell us about angling behavior in a recreational salmon fishery? Alexander Jensen, OSU*	Relative fitness of hatchery and natural Pink Salmon in Prince William Sound: Part II, Results Kyle Shedd, ADFG	Integrating unmanned aerial vehicles into large-scale habitat monitoring in the Columbia River Basin Lauren Burns, CRITFC	8:50 - Legislative, Troy Brandt, RDG	A review of radio telemetry studies to assess fish movement, behavior and survival through Pelton Round Butte Hydroelectric Project in the Deschutes Basin. Gonzalo Mendes, PGE	Music To My Career Jeff Ziller, ODFW
5:00 PM	Pernicious plastics and besieged bivalves: Microplastics in OR razor clams and oysters Britta Baechler, PSU*	Investigation of Contemporary Population Structure of Pink Salmon from Prince William Sound, Alaska Wei Cheng, ADFG*	Making in-stream tributary data findable, accessible, interoperable, and reusable (FAIR). Rebecca Scully, USGS	9:00 - Education & Outreach Ryan Battleson, ODFW	Evaluation of spring Chinook Salmon transportation in the Warm Springs River basin using sensor logging radio tags Alex Bybel, CTWS	
5:20 PM			FLOWPER (FLOW PERmanence): A mobile application for classifying streamflow permanence Emily Heaston, USGS	Meet-n-Greet Committee Chairs	Population Structure and Homing of John Day River Steelhead: Comparison of Genetic Analysis and PIT Tag Monitoring Ian Tattam, ODFW	
5:40 PM				Meet-n-Greet Committee Chairs	Timing is everything... for comedians and adult steelhead Jeremy Henderson, ODFW	

Technical Sessions, Thursday, 3/5/2020, 8:00-10:00 am

Room	Quantitative Analysis	Northwest Pink & Chum Workshop	Climate Change	Native Fish	Fish Habitat	Professional Skills / Diversity, Equity & Inclusion
	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
Moderator	Matt Falcay, ODFW	Kris Homel, ODFW	Davia Palmeri, ODFW	Jim Capurso, USFS	Corey Sipher, BLM	Rebecca Flitcroft, USFS
8:00 AM	Science as Bayesian model averaging, with applications to density-dependence Matt Falcay, ODFW	Revealing patch attractiveness to straying hatchery chum salmon in Southeast Alaska Molly Payne, UAKF*	Adopting a Climate and Ocean Change Policy for the Oregon Department of Fish and Wildlife. Davia Palmeri, ODFW	Do you see what I see? Precision and Bias in Snorkel Surveys Ron Constable, ODFW	Size and abundance of aquatic vertebrates along 10 km of the mainstem of Lookout Creek, OR Ivan Arismendi, OSU	Surviving Continual Change: 7 Resilience Lessons for the Fisheries Professional Demian Ebert, PC
8:20 AM	Examining the false promise of perfect data taken from an uncertain world (Concept Talk) Michelle Jones, ODFW	Influence of intertidal conditions on stream thermal regimes and their effect on incubation duration of Pink Salmon eggs in Alaska's Prince William Sound. Steve Wondzell, USFS	Jordan Cove Energy Project Christine Moffitt, UI - Retired	Borax Lake Chub: summary of recent monitoring and the status of a southeast Oregon endemic Brian Bangs, ODFW	Exploring relationships between stream characteristics and the relative abundance of trout and salmonids in forested headwaters of western Oregon Ashley Sanders, NCASI	How I spent my summer vacation, leading to 30 years with the Federal Government Christine Hirsch, USFS
8:40 AM	Insights from a bad fisherman attempting good fish science: key considerations in detection probability modeling Nicholas Hahlbeck, OSU	Re-thinking survey life values for use in annual Chum salmon (Oncorhynchus keta) escapement calculations Amy Edwards, WDFW	Landscape models to predict fine-scale variation in temperature and drying of Great Basin streams Jason Dunham, USGS	A closer look at two aquatic invaders and potential impacts to fish communities in the Willamette River basin Matt Collier, ODFW	Response of fish and salamanders to experimental canopy gaps in the riparian forest Dana Warren, OSU	Was there a roadmap for this? Perspectives on an NGO career and AFS involvement Dan Dauwalter, TU/WDAFS
9:00 AM	The role of optimization in solving decision-support models for natural resource management Adam Duarte, OSU	Fraser River pink salmon: comparing run size estimates based on two different methods. Erica Jenkins, PSC	Linking post-fire ecosystem responses to catchment characteristics to map wildfire vulnerability of aquatic ecosystems across the Pacific Northwest Vance Almqvist, USEPA	Historical presence of salmon gill-maggots, including an undocumented species William Gerth, OSU	Food web responses to riparian thinning in redwood headwater streams David Roon, OSU*	Continued Service Dylan O'Keefe, ODFW
9:20 AM	Just Rolled into the Shop: Building Bespoke Models for Idiosyncratic Data Generating Processes Dalton Hance, USGS	Competition between Pink and Chum Salmon is mediated by environmental variability in natural populations from Washington Marrisa Litz, WDFW	Assessing thermal tolerance of native fish species across variable thermal regimes Kara Anlauf-Dunn, ODFW	Experimental infection of the parasitic copepod on juvenile Chinook salmon Travis Neal, OSU*	Characteristics of a New Rainbow Trout Population in Spirit Lake, Mount Saint Helens Volcano, 2000-2019. Tara Blackman, MHE	Fisheries Battlegrounds and Identity Loyalty: Reconciling Professional & Personal Perspectives in 2020 Erica Maltz, USRTF
9:40 AM	What's My Story? Challenges Modeling Individual Time-varying Covariates in Space-for-time Mark Recapture Studies with Missing Data Adam Pope, USGS	Linking scale growth to variation in Puget Sound Chum Salmon abundance and productivity Austin Anderson, WDFW	Will a Changing Climate Exacerbate or Facilitate Control of an Aquatic Invasive Species? James Pearson, OSU-USFS	Salmon gill-maggots: Why are they a headache in reservoirs? Christina Murphy, OSU	Satisfying anglers deprived of salmon: An opportunity to enhance warmwater fisheries in the Pacific Northwest Sean Gibbs, MHE	Resilience is Where You Find It Joe Ebersole, USEPA

Technical Sessions, Thursday, 3/5/2020, 10:20 am -12:20 pm

Room	Quantitative Analysis	Northwest Pink & Chum Workshop	Klamath Basin	Native Fish	Fish Habitat	Columbia River Management
	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G	Cascade HI
Moderator	Matthew Falcy, ODFW	Kathleen Neely, NMFS	Troy Brandt, RDG	Jim Capurso, USFS	Scott Lightcap, BLM	Jeff Whisler, ODFW
10:20 AM	Chinook Life cycle modeling in the Columbia River: data, knowledge, assumptions and goals Martin Liermann, NOAA	Pink and chum salmon on the high seas: new insight from a winter expedition to the Gulf of Alaska Laurie Weitkamp, NOAA	How redband roll: ontogenetic shifts, seasonal migration, and what it means for conservation Jonathan Armstrong, OSU	Spring Chinook Salmon Survival and Movement in Response to Altered Flows and Temperatures in the Willamette River, Oregon Jessica Pease, OSU	CRPA Restoration Projects Pete Baki, ODFW	Complex management in a complex system: Columbia River fisheries regulation Jeff Whisler, ODFW
10:40 AM	Accounting for population dynamics improves the use of no-take marine reserves for fishery management Victoria Quennessen, OSU*	Predicting the freshwater range of occurrence for chum salmon in the Chehalis River basin, WA Eric Waitther, WDFW*	Juvenile Redband Trout Distribution and Habitat Use in the Sprague River Jordan Ortega, OSU*	Network-scale spatial patterns of juvenile Chinook salmon size, growth rates, and density in two NE Oregon tributaries Matthew Kaylor, OSU	Connected seasonal habitats are critical for survival of Coho Salmon in the Oregon Coast Range, USA Rebecca Flitcroft, USFS	Selective Fishing in the Lower Columbia River Cameron Duff, ODFW
11:00 AM	A hierarchical approach to joint estimation of juvenile salmonid abundance and snorkel survey detection efficiency Benjamin Staton, CRITFC	Detecting spawning of threatened Chum Salmon over a large spatial extent using eDNA: implications for monitoring recovery Erik Suring, ODFW	Investigating fine-scale population genetic structure of inland and coastal Rainbow Trout in the Klamath Basin prior to one of the largest dam removal projects in history Stanley Piotrowski, OSU*	Isolation and downstream emigration drive persistence of cutthroat trout near American Falls Reservoir: Implications for cutthroat trout conservation Dan Bingham, CFS	Effects of Tide Gates on Juvenile Coho Salmon Passage and Estuarine Habitat Use Guillermo Giannico, OSU	Implementing a video monitoring system for estimating recreational fishing effort Natalie Scheibel, ODFW
11:20 AM	The 'Silver Screen': Determining mitigation requirements for Coho Salmon entrainment through fish screens at a municipal water diversion Julie Binder, MHE	Distribution of Ceratonova shasta in the lower Columbia River Basin and effects of exposure on the survival of juvenile Chum Salmon Kris Homel, ODFW	Decoding a battle to the death: myxozoan infection in rainbow trout Benjamin Americus, OSU*	Fishing for Bull Trout: A statistical creel of the upper Imnaha River catch and release fishery Kyle Bratcher, ODFW	Biological Response Following Habitat and Flow Restoration in a Previously Dewatered Reach Garth Wyatt, PCE	Coded Wire Tag: Where's Your Head at? Sarah Sapienza, ODFW
11:40 AM	Tough places and safe spaces: can refuges save salmon from a warming climate? Marcia Snyder, USEPA	Chum SNP baseline development and implementation Maureen Small, WDFW	Recolonization Potential for Coho Salmon in Tributaries to the Klamath River Above Iron Gate Dam Max Ramos, HSU*	Back in Clack: The status of reintroduced Bull Trout in the Clackamas River Basin Steven Starcewich, ODFW	Food for thought (and salmon): Incorporating prey availability into habitat monitoring for Columbia River basin salmonids Seth White, CRITFC	A Day in the Life: In-season management of Columbia River non-treaty fisheries Jeff Whisler, ODFW
12:00 PM						Chum on the Margins Erick Van Dyke, ODFW

Technical Sessions, Thursday, 3/5/2020, 3:00-5:00 pm

Room	Quantitative Analysis	Northwest Pink & Chum Workshop	Klamath Basin	Native Fish	Fish Habitat
	Cascade C	Cascade D	Cascade E	Cascade F	Cascade G
Moderator	Matt Falcy, ODFW	Kris Homel, ODFW	Troy Brandt, RDG	Jim Capurso, USFS	Corey Sipher, BLM
3:00 PM	Lord, I was born a rambler! Sturgeon: Behavior and Movement of mature White sturgeon in the John Day Reservoir. Peter Stevens, ODFW	Washington Dept. Fish and Wildlife's Lower Columbia River Chum Salmon Recovery Strategy Todd Hillson, WDFW	Enhancement of Coho Salmon in the Mid-Klamath River Demian Ebert, PC	Assessing the genetic origin of Redband Trout (<i>Oncorhynchus mykiss gairdneri</i>) occupying Tumalo Creek and Bridge Creek in Central Oregon Matthew Piteo, USFWS	Non-lethal effects of predation risk on sub-yearling Chinook salmon in Lake Wenatchee, Washington Carlos Polivka, USFS
3:20 PM	Advancements in Stream Production Potential Estimation Techniques Ian Courter, MHE	Washington Department of Fish and Wildlife's Lower Columbia River Chum Salmon Viable Salmonid Parameter Monitoring Program Brad Garner, WDFW	Making New Fish: Integrating Twelve Years of Coho Ecology Studies into Habitat Restoration on the Mid Klamath Charles Wickman, MKWC	Biodiversity of Cottus in western North America: a molecular perspective on the sculpins of the intermountain West Michael Young, NGCWF	Chinook Spawning Distribution in the Middle Fork John Day Basin Chris Bare, ODFW
3:40 PM	Catch-and-Release "Best" Practices Benjamin Briscoe, MHE	Duncan Creek Chum Salmon Reintroduction Program – Results and Lessons Learned Sean Toomey, WDFW	Middle Klamath River Coho Salmon Ecology and Utilization of Constructed Off-Channel Habitats Toz Soto, KT	Factors affecting the susceptibility of juvenile salmonids to avian predation Allen Evans, RTR	Fish Habitat Committee Meeting Corey Sipher
4:00 PM	Effects of Catch-and-Release Mortality on an Idaho Steelhead Population Joshua McCormick, IDFG	Pink & Chum Panel Kris Homel, ODFW Kathleen Neely, NMFS	Coho Salmon Response to Restoration Produced Ecosystem Heterogeneity Betsy Stapleton, ScRWC	Native Fish Committee Jim Capurso	Legislative Committee Meeting Troy Brandt
4:20 PM	A Deterministic Life Cycle Model for Flow Effects on Partially Anadromous Steelhead Populations Mark Roes, MHE	Pink & Chum Panel Kris Homel, ODFW Kathleen Neely, NMFS	Coho Salmon Restoration and Monitoring in McGarvey Creek, Tributary of the Lower Klamath River, California. Jimmy Faulkner, YT	Native Fish Committee Jim Capurso	Education & Outreach Committee Meeting Ryan Battleson
4:40 PM	The Swampy Southeast Versus The Pacific Northwest – Exploring The Technological Challenges of Capturing Metagenomic Information From Drastically Different Ecosystems Laura Hauck, USFS	Pink & Chum Panel Kris Homel, ODFW Kathleen Neely, NMFS	Freshwater Mussels of the Klamath River Emilie Blevins, XERCES	Native Fish Committee Jim Capurso	

* - student

BLM = Bureau of Land Management
 CCBUTI = Cow Creek Band of Umpqua Tribe of Indians
 CFS = Cramer Fish Sciences
 CRITFC = Columbia River Inter-tribal Fish Commission
 CTWS = Confederated Tribes of the Warm Springs
 CWA = Coos Watershed Association
 EPA = Environmental Protection Agency
 FTC = Friends of Tryon Creek
 HSU = Humboldt State University
 IDFG = Idaho Department of Fish & Game
 KRAA = Kodiak Regional Aquaculture Association
 KT = Karuk Tribe
 MHCC = Mt. Hood Community College
 MHE = Mount Hood Environmental
 MKWC = Mid-Klamath Watershed Council
 NCASI = National Council for Air and Stream Improvement

MFWWC = Middle Fork Willamette Watershed Council
 NGCWF = National Genomics Center for Wildlife and Fish Conservation, USDA
 NMFS = National Marine Fisheries Service
 NOAA = National Oceanic and Atmospheric Administration
 ODFW = Oregon Department of Fish and Wildlife
 OSU = Oregon State University
 PC = PacificCorp
 PGE = Portland General Electric
 PSU = Portland State University
 RDG = River Design Group
 RTR = Real Time Research, Inc.
 SRWC = Smith River Watershed Council
 ScRWC = Scott River Watershed Council
 SSNERR = South Slough National Estuarine Research Reserve
 TU = Trout Unlimited
 UAKF = University of Alaska - Fairbanks

UBC = University of British Columbia
 UDWC = Upper Deschutes Watershed Council
 UI = University of Idaho
 USACE- U.S. Army Corps of Engineers
 USBR = US Bureau of Reclamation
 USEPA = U.S. Environmental Protection Agency
 USFS = U.S. Forest Service
 USFWS = U.S. Fish & Wildlife Service
 USGS = U.S. Geological Survey
 USRTF = Upper Snake River Tribes Foundation
 WDAFS = Western Division, American Fisheries Society
 WDFW = Washington Department of Fish & Wildlife
 WEI = Watercourse Engineering, Inc.
 WF = Western Fishes
 YT = Yurok Tribe
 XERCES = Xerces Society for Invertebrate Conservation

Technical Sessions, Friday, 3/6/2020, 8:00-10:00 am

Hatchery Research & Innovation		Film Festival		Klamath Basin		Native Fish		Science Communication	
Room	Cascade C	Cascade D	Cascade E	Cascade F	Cascade E	Cascade F	Cascade F	Cascade G	Cascade G
Moderator	Ryan Couture, ODFW	Blane Bellerud, NOAA Derek Wiley, ODFW	Troy Brandt, RDG	Jim Capurso, USFS	Benjamin Clemens, ODFW				
8:00 AM	Salmon Research at the Oregon Hatchery Research Center David Lawson, ODFW		Applications of a Disease Model for Listed Coho Salmon to Evaluate Flow Regimes Nicholas Som, USFWS/THSU	An attempt to quantify mortality of juvenile salmonids and lampreys due to Northern Pike minnow below John Day and The Dalles dams Andrea Carpenter, ODFW	Top 5 Myths in Natural Resource Communication Kelly Biedenweg, OSU				
8:20 AM	Conceptual decision making model for artificial rearing of fish intended for use in passage studies Olivia Hakanson, OSU		Effects of altered flow regimes on invertebrate hosts of salmon parasites in the Klamath River Julie Alexander, OSU	Exploring Thermal Conditions Occupied by Lampreys in their Southern Range Stewart Reid, WF	Tag-Teaming Science Communication: How "Crowdsourcing" Talent Can Shape and Tell Our Stories Sean Connolly, USFWS				
8:40 AM	Saltwater Marking Otoliths Michael Wachter, KRAA		Managing Klamath River Water Quality Downstream of Iron Gate Reservoir Using a Barrier Curtain Michael Deas, WEI	Effects of dewatering on the behavior, distribution, and abundance of larval lamprey in an Oregon River Juanna Harris, USFWS	It's All in Your Head: the role of conceptual models in science communication Janine Castro, USFWS				
9:00 AM	Effects of Ration Size on Growth Responses and Sexual Maturation in YY Brook Trout Ronald Twibell, USFWS	Film Festival	Assessing patterns and trends of entrained juvenile suckers in Reclamation's Fish Evaluation Station Danielle Hereford, USBR		Be innovatively simple by simply being innovative Carl Schreck, OSU				
9:20 AM	What factors make sites attractive to hatchery strays? Peter Westley, UAKF		Effects of temperature on the survival and growth of Lost River Suckers naturally infected with <i>Ichthyobodo</i> spp. Barbara Martin, USGS		Future Scientists – Conversations with Children David Noakes, OSU				
9:40 AM	Ecological differences of juvenile steelhead produced by natural origin and local hatchery origin adult steelhead spawning in the wild Benjamin Kennedy, USFWS		Mortality of Endangered Juvenile Lost River Suckers Associated with Cyanobacteria Blooms in Mesocosms in Upper Klamath Lake, Oregon Ryan Bart, USGS		Communicating "Essential Understandings Regarding Oregon Indians" and Pacific lamprey in the context of K12 STEM Lisa Blank, OSU				

Technical Sessions, Friday 3/6/2020, 10:20 am -12:00 pm

Hatchery Research & Innovation		Film Festival		Klamath Basin		Stage 0 Restoration		Science Communication	
Room	Cascade C	Cascade D	Cascade E	Cascade F	Cascade E	Cascade F	Cascade G	Cascade G	Cascade G
Moderator	Ryan Couture, ODFW	Blane Bellerud, NOAA Derek Wiley, ODFW	Troy Brandt, RDG	Johan Hogervorst, USFS	Benjamin Clemens, ODFW				
10:20 AM	A Natural-origin Steelhead Population's Response to Exclusion of Hatchery Fish. Ian Courter, MHE		Klamath River Reservoirs - Endangered Suckers and Fish Communities Before Dam Removal Troy Brandt, RDG	How we got to Stage 0 Johan Hogervorst, USFS	Communicating Tribal history and knowledge through interagency consultation Kelly Coates, CCBUTI				
10:40 AM	The effect of variation in water chemistry on stress physiology and survival of endangered Idaho Sockeye and Chinook salmon Don Larsen, NOAA		The Upper Klamath Basin Watershed Action Plan Megan Skinner, USFWS	Short-term Geomorphic and Biological Outcomes on a Stage Zero Restoration Project at Whychus Canyon Preserve, Central Oregon Lauren Mork, UDWC	When do qualifying statements undermine your qualifications? Benjamin Clemens, ODFW				
11:00 AM	Y or Y not: sorting out the maze of olfactory imprinting odors in Chinook salmon Maryam Kamran, OSU	Film Festival	Progressing towards a working landscape: fish screening in the upper Klamath basin Charles Erdman, TU	Short-term Physical and Biological Responses Following Stage 0 Restoration of the South Fork McKenzie River Valley Kate Meyer, USFS	Darwin Was Right: A Scientist Needs a Heart of Stone Robert Lackey, OSU				
01:20 PM	Fish Culture Committee Meeting Ryan Couture		Implementation Plan for the Reintroduction of Anadromous Fishes into the Oregon Portion of the Klamath Basin: An Update Mark Hereford, ODFW	Stream metabolism monitoring on Staley Creek following Stage 0 restoration: dramatic increases in gross primary productivity and respiration may suggest stream-ecosystem regime shift Dylan Keel, MFWWC	Science Communication Panel Benjamin Clemens, ODFW				
11:40 AM	Natural Production Committee Meeting Ian Tattam		A phased sampling approach to monitor recolonization and inform management of anadromous fish in the Klamath River following dam removal Thomas Williams, NMFS	Fivemile Bell Restoration Project: Groundwater and Stream Temperature Monitoring in a Stage 0 Restoration Project Chris Mayes, USFS	Science Communication Panel Benjamin Clemens, ODFW				

Abstracts from the technical sessions and symposia, as well as other conference information, may be found on the ORAFS website at www.orafs.org.