Technical Sessions, Wednesday, 2/26/14, 3:00-5:00 pm

	Riparian Management	Fish Conservation	Marine and Estuaries	Is It Getting Hot in Here? Potential Effects of Climate Change
Room	**O'Neill**	**Williams**	**Bloch**	**Sousa**
Moderator	**Bill Wall, USFS**	**Chuck Huntington, Clearwater BioStudies**	**Scott Heppell, OSU**	**Jeremiah Osborne-Gowey, Feather River Consulting**
3:00 pm	Riparian Conifer Thinning and Burning — To Treat or Not to Treat **Bill Wall, USFS**	Early-Run Chinook and Chum Salmon in Oregon's Coastal Basins: A Historical Perspective **Chuck Huntington Clearwater BioStudies, Inc.**	A 40-Year Shift in Benthic Marine Community Dominance in Yaquina Bay, Oregon **Scott Heppell, OSU**	Can Air Temperature Be Used to Project Influences of Climate Change on Stream Temperature? **Ivan Arismendi, OSU**
3:20 pm	Understanding of the Risks and Outcomes of Prescribed Fire Within Riparian Preserves/RHCAs **Spencer Ware, USFS**	Sex Biased Survival and Differences in Migration of Wild Steelhead (*Oncorhynchus mykiss*) Smolts from Two Coastal Oregon Rivers **Neil Thompson, OSU***	The Juvenile Rockfish of Yaquina Bay, Oregon **Amy Jo Lindsley, OSU***	The NorWeST Regional Stream Temperature Database, Model, and Climate Scenarios **Dan Isaak, USFS**
3:40 pm	Effects of Thinning on Production of Dead Trees and Stand Structure **Thomas Spies, USFS**	Oregon Coast Coho Salmon – Is There Room for Optimism? **Scott Lightcap, BLM**	Implications of Geomagnetic Navigation in Pacific Salmon for Marine Fisheries Management **Nathan Putman, OSU**	Local Variability Explains Vulnerability of Trout Populations to Land Use and Climate Change **Brooke Penaluna, USFS**
4:00 pm	Riparian Soils – Indicators from the Past to Predict the Future **Karen Bennett, USFS**	Estimating Productivity and Predicting Adult Returns for the Oregon Coast Coho ESU **Ron Constable, ODFW**	Development of a Rapid Assessment Method for Nearshore Habitat in Hood Canal, Puget Sound, Washington **Demian Ebert, AECOM**	Linkages Between Thermal Heterogeneity and Coho Salmon Emergence in Alaska Streams **Emily Campbell, OSU***
4:20 pm	The Alsea Watershed Study: Logging and the Response of Habitat and Coastal Cutthroat Trout Over 51 Years **Douglas Bateman, OSU**	Can Experimental Spill Management Reverse Declines of Snake River Salmon and Steelhead Populations? **Steve Haeseker, USFWS**	The Effects of Wetland Loss and Conspecific Density on Juvenile Chinook Salmon Foraging in Pacific Northwest Estuaries **Aaron David, University of Washington***	Are We Going to Lose the Female Sex? Effects of Exposure to Elevated Temperature on Early Sexual Development in *Oncorhynchs mykiss* **Neil Thompson, OSU***
4:40 pm	Exploring Riparian Forest Controls on Stream Light Availability and Bottom-Up Drivers of Fish Production in Headwater Streams **Matthew Kaylor, OSU***	Vessel Wake Stranding on the Lower Columbia River — Status and Potential Mitigation Measures **Joe Krieter, ENVIRON**	Contribution of Estuary-Resident Life Histories to the Return of Adult Coho Salmon **Kim Jones, ODFW**	Where the Stream Meets the Road: Prioritizing Culvert Replacement for Fish Passage **Rachel Regan, USGS***
5:00pm	The Challenges of Managing and Restoring Riparian Ecosystems in Eastern Oregon **Gordie Reeves, USFS**	**Fish Culture Committee Meeting** Ryan Couture, ODFW	Marine Perspectives on Hatchery Chinook Salmon Production in the Columbia River Basin **Brian Beckman, NOAA**	**Legislative Committee Meeting** Jeremiah Osborne-Gowey, Feather River Consulting

***Student**

AFFILIATION ACRONYMS

AECOM = AECOM Technology Services, Inc.
BLM = Bureau of Land Mangement
CCUT = Cow Creek Umpqua Tribe
CCPUD = Chelan County PUD
CRITFC = Columbia River Intertribal Fish Commission
CTWS=Confederated Tribes of Warm Springs
ESA = Environmental Science Associates
IDFG = Idaho Department of Fish and Game
NMFS = National Marine Fisheries Service
NOAA = National Oceanic and Atmospheric Administration
PGE = Portland General Electric Company
OCFWRU = Oregon Cooperative Fish and Wildlife Research Unit
ODFW = Oregon Department of Fish and Wildlife
OSU = Oregon State University
SPS = WELL Project, Springfield Public Schools
SS = Stillwater Sciences
USFS = U.S. Forest Service
USFWS = U.S. Fish and Wildlife Service
USGS = U.S. Geological Survey
UW = University of Washington
WF = Western Fishes
WDFW = Washington Department of Fish and Wildlife

Technical Sessions, Thursday, 2/27/14, 8:00-10:00 am

	Fish Culture	New Quantitative Solutions to Old Problems	Everything Lamprey: We've Come a Long Way, Baby!	Native Fishes
Room	**Bloch**	**Wilder**	**Hellman**	**Sousa**
Moderator	**Kelly Reis, ODFW**	**Joshua McCormick, ODFW**	**Bianca Strief, USFWS**	**Jim Capruso, USFS**
8:00 am	National Fish Hatchery Assessment in the Columbia River: Lessons Learned **Doug Olson, USFWS**	Evaluation of Machine Learning and Other Non-Traditional Modeling Techniques for Forecasting Salmon Returns **Joshua McCormick, ODFW**	Pacific Lamprey Restoration and the Tribal Perspective; Understanding Through ACTION **Brian McIlraith, CRITFC**	The Recovery of Oregon Chub: How ESA was Successful, and our strategy post-delisting **Brian Bangs, ODFW**
8:20 am	Development of Conservation Hatchery Programs for Imperiled Species (Part 1) **William R. Brignon, USFWS***	Length and Condition of Wild Spring Chinook Salmon Smolts Influence Age at Maturity **Ian Tattam, ODFW**	Anatomy of a Workshop: Creating a Framework to Increase Knowledge on Lamprey **Benjamin Clemens, ODFW**	The Status of Alvord Chub, *Siphateles alvordensis*, in the Alvord Desert in SE Oregon and NW Nevada **Paul Scheerer, ODFW**
8:40 am	Development of Conservation Hatchery Programs for Imperiled Species (Part 2) **Jeffery Jolley, USFWS**	Upper Willamette River Spring Chinook Prespawn Mortality: Data Synthesis and Prediction of Optimal Management Actions **Michael Colvin, OSU**	Combining Traditional Knowledge and Western Science to Further Lamprey Research and Conservation in the Umpqua River Basin **Kelly Coates, CCUT**	Morphological Diversity of the Speckled Dace, *Rhinichthys osculus*, in Oregon's Desert Springs **Erin Peterson, OSU***
9:00 am	Populating Captive Broodstock Programs – Eggs or Parr? **Timothy Hoffnagle, ODFW**	Accounting for Individual Heterogeneity in Open Jolly-Seber Mark-Recapture Models **Tommy Garrison, Cramer Fish Sciences**	Exploring the Historical, Current, and Future Distribution of Pacific Lamprey in California **Stewart Reid, Western Fishes**	A Pain in the Gutt – Considering Bull Trout Energetics in a Lake with Conflicting Costs and Benefits **Madeleine Eckmann, OSU***
9:20 am	Vertical Orientation in Chinook Fry May Predict Life History Tactics: Mangement, Conservation, and Fish Culture Implications **Julia Unrein, OSU***	Exploring Patterns in Coastal Coho Abundance and Productivity **Matt Falcy, ODFW**	Redd Counts as a Population Monitoring Tool: Assessing Spatial and Temporal Patterns of Spawning Activity to Determine Appropriate Sampling Methods **Luke Schultz, OSU**	Growth of Bull Trout from the South Fork of the Walla Walla River: An Assessment of Individual Variability and Differences Between Life History Forms **Julianne Harris, USFWS**
9:40 am – 10:00 am	Determinants of Downstream Movement Behaviors in Juvenile Spring Chinook Salmon **Eric Billman, OSU**	Measuring the Effects of Water Level Management on Kokanee in Lake Pend Oreille, ID Using a Bootstrap Stock-Recruitment Model **Steve Whitlock, U of Idaho***	The Nature of Stream Substrate Affects the Abundance of Larval Pacific Lamprey (*Entosphenus tridentatus*) in the Willamette Basin **Gabe Sheoships, OSU***	Summertime Movement of Coastal Cutthroat Trout and Pacific Giant Salamanders in Cascade Mountain Headwater Streams **Brian VerWey, OSU***

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Technical Sessions, Thursday, 2/27/14, 10:20 am -12:20 pm

	Fish Culture and Fish Health	New Quantitative Solutions to Old Problems	Everything Lamprey: We've Come a Long Way, Baby!	Native Fishes
Room	**Bloch**	**Wilder**	**Hellman**	**Sousa**
Moderator	**Kelly Reis, ODFW**	**Joshua McCormick, ODFW**	**Bianca Strief, USFWS**	**Jim Capruso, USFS**
10:20 am	The Effect of Diet and Ration on Smolting and Early Male Maturation in White River Spring Chinook **Diana Spangenberg, NOAA**	A Structured Decision Making Approach for Managing Least Chub in Desert Wetlands **Jessica Saenz,OSU***	Pacific Lamprey Passage Considerations and Biological Implications **Ann Gray, USFWS**	Building the Freshwater Biodiversity Atlas: DNA Barcoding at Riverscape Scales to Identify Conservation Units of Sculpins and Westslope Cutthroat Trout **Michael Young, USFS**
10:40 am	Innate and Learned Preferences for Natural Stream vs. Ground Water; Implications for Hatchery Practices and Natal Imprinting in Salmonids **Andrew Dittman, NOAA**	Quantifying Recovery Goals and Action Effects for Southern Eulachon **Tom Wainwright, NOAA**	Anadromous Sea Lampreys Recolonize a Maine Coastal River Tributary After Dam Removal: Ecosystem Engineers? **Robert Hogg, ODFW**	New Developments in Biodiversity Research and Bioinformatics at the Oregon State Ichthyology Collection **Brian Sidlauskas, OSU**
11:00 am	Pathogen and Parasite Survey of Juvenile Salmon Populations in Proximity of Willamette River Basin Hatcheries **Sean Roon,OSU***	A New Class of Spatial Statistical Model for Data on Stream Networks: Overview and Applications **Dan Isaak, USFS**	Pacific Lamprey Abundance and Distribution in Fifteenmile Creek and Recolonization in Hood River After Removal of Powerdale Dam **Matt Fox, CTWS**	There and Back Again: Trajectories of Change in Native Fish Communities in the Willamette River **Stan Gregory, OSU**
11:20 am	Assessment of Disease Outbreak Risks in Hatcheries in the Willamette River System: The Health and Epizootics of Three Oregon Hatcheries in Three Years **Michelle Jakaitis, OSU***	Predicting Coho Salmon Marine Survival by Combining Biologic and Oceanographic Data **Erik Suring, ODFW**	Larval Lamprey Distribution and Habitat Use in Small Stream Channels on the Oregon Coast **Steve Starcevich, ODFW**	**Native Fishes Committee Meeting** Jim Capurso, USFS
11:40 am	*Nanophyetus salminocola* Burdens in Chinook Salmon (*O. tshawystscha*) Prespawning in the Willamette Basin **Crystal Herron, OSU***	Using Radiotelemetry to Estimate Steelhead Abundance and Habitat Use in the Hood River **Phil Simpson, ODFW**	The Influence of Large Wood Restoration on Larval Lamprey in a Pacific Northwest Stream **Rosalinda Gonzalez, OSU***	
12:00 pm – 12:20 pm	Sporulation of *Ceratomyxa shasta* (Myxozoa) After Death in Adult Chinook Salmon **Michael Kent, OSU**	**Marine Habitat and Ecology Committee Meeting** Scott Heppell, OSU	Habitat Associations of Larval Pacific Lamprey in the Willamette River Basin: Implications for Species Recovery **Luke Schultz, OSU**	

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Technical Sessions, Thursday, 2/27/14, 3:00-5:00 pm

	Education, Outreach, and Partnerships	Fish Passage Engineering and Innovations	Everything Lamprey: We've Come a Long Way, Baby!	Escapement Estimation Methods : 50 Years in the Making
Room	**Bloch**	**Wilder**	**Hellman**	**Sousa**
Moderator	**Stephanie Messerle, BLM**	**Ken Loffink, ODFW**	**Bianca Strief, USFWS**	**Gary Vonderohe, ODFW**
3:00 pm	Neanderthal Brain to Homosapian Mind: The Evolution of Social Media in the Science World **Maria Thi Mai, BLM**	Multi-Species Fish Passage … Is It Possible? **Ken Loffink, ODFW**	Pacific Lamprey Spawning and Rearing Habitat in Newly Accessible Reaches of the North Umpqua River Watershed, Oregon **Abel Brumo, Stillwater Sciences**	Winter Steelhead Monitoring on the Oregon Coast and Lower Columbia: Past, Present, and Future **Ryan Jacobsen, ODFW**
3:20 pm	STEP Up and Learn About Tools to Help Engage the Community **Kevin Herkamp, ODFW**	Successful Diversion of Larval Fishes by a Fish Screen and the Impact of Entrainment on Overall Survival **Douglas Markle, OSU**	Extensive Movement of a River Lamprey in Michigan: Cracking the Code 50 Years Later **James Hall, OSU**	An Evaluation of an Index Survey Calibration Technique to Estimate Fall Chinook Spawners in the South Fork Coos River, Oregon **Brian Riggers, ODFW**
3:40 pm	The Benton County Voluntary Program for Riparian Resources **Adam Stebbins, Benton County**	Improving Adult Pacific Lamprey Passage Using Lamprey Structures and Refuges **Kinsey Frick, NOAA**	Seasonal Abundance, Size, and Host Selection of Pacific and River Lamprey in the Columbia River Estuary **Laurie Weitkamp, NOAA**	Estimating Chinook Spawner Abundance Using an Index Survey Calibration Methodology **Shelly Miller, ODFW**
4:00 pm	Coos Bay BLM and Watershed Associations: Building Partnerships to Promote Restoration **Stephanie Messerle, BLM**	Design and Performance of the River Mill Surface Collector **Nick Ackerman, PGE**	Using Incidental Captures to Document Pacific Lamprey in the Entiat River, Washington **Mark Nelson, USFWS**	Estimating Spawner Abundance of Coastal Fall Chinook Populations: Is Non-Random Sampling Optional? **Matt Falcy, ODFW**
4:20 pm	Angler and Public Opinion of Coastal Oregon Fisheries and Wild Fish Conservation **Kevin Goodson, ODFW**	A Creative Solution for Fish Passage at Box Culverts **Karen Hans, ODFW**	Outmigration of Pacific Lamprey in the Sacramento River: Environmental Factors and Implications for Streamflow Management **Damon Goodman, USFWS**	Estimating Abundance of "Resident" Salmonids: A Case Study of Bull Trout **Philip Howell, USFS**
4:40 pm	**Education and Outreach Committee Meeting** Shannon Richardson and Karen Hans (Co-Chairs), ODFW	Fish Passage Improvement in Southern Oregon's Desert Basins **Troy Brandt, River Design Group, Inc.**	Passage of Radio-Tagged Adult Pacific Lamprey at Yakima River Diversion Dams **Ann Grote, USFWS**	Coho Monitoring on the Oregon Coast: Past, Present, and Future **Brianna Sounhein, ODFW**
5:00 pm	**Freshwater Habitat Committee Meeting** Bill Wall, USFS	Improving Fish Passage Design Guidelines for Water Crossings in Tidal Environments **Curtis Loeb, ESA**	Assessing Behavior of Juvenile Pacific Lamprey Using Passive Integrated Transponders **Mary Moser, NOAA**	Coho Monitoring on the Oregon Coast: AUC Calibration Studies **Matt Weeber, ODFW**

***Student**

Technical Sessions, Friday, 2/28/14, 9:00-11:40 am

	Flatwater Fisheries Management	Habitat Studies and Findings	Fish Reintroduction and Monitoring	Escapement Estimation Methods : 50 Years in the Making
Room	**O'Neill**	**Wilder**	**Hellman**	**Williams**
Moderator	**Kyle Bratcher, ODFW**	**Bob Spateholts, PGE**	**Garth Wyatt, PGE**	**Ian Tattum, ODFW**
9:00 am	Malheur Lake: A Terminal Lake Dominated by Common Carp, (Cyprinus carpio) **Linda Beck, USFWS**	Lower Deschutes River Redband Trout Embryo Survival Study **Bob Spateholts, PGE**	"Hey, You, Get Your Hands Off My Wild Fish!" An Overview of Portland General Electric's New Adult Fish Sorting Facility Located at the North Fork Dam Adult Fish Ladder on the Clackamas River Near Estacada, OR **Garth Wyatt, PGE**	Willamette Spring Chinook Salmon: Assessing Trends in Abundance, Distribution, and Diversity **Cameron Sharpe, ODFW**
9:20 am	Fisheries Management in Willamette Valley Reservoirs: Accommodating Changing Priorities and Altered Traditions in Pursuit of Integrating Species Conservation with Angling Recreation **Jeff Ziller, ODFW**	Determining the Habitat Bottleneck — Is it Rearing or Spawning Limited? **Steve Cramer, Cramer Fish Sciences**	Behavior and Dam Passage of Juvenile Chinook Salmon and Steelhead at Detroit Dam and Reservoir **John Beeman, USGS**	Using Aerial Redd Counts and Six Years of Mark-Recapture Data to Estimate Chinook Abundance in South Umpqua, Oregon **Brian Riggers, ODFW**
9:40 am	Status of Tiger Musky Introduction on Northern Pikeminnow Populations in Mayfield Lake and Merwin Reservoir, Washington **Stacie Kelsey, WDFW**	Stream Habitat Surveys: A Modified Approach Using High School Students **Stuart Perlmeter, WELL Project Springfield Public Schools**	Passage Behavior and Survival of Juvenile Spring Chinook During the 2012/13 Fall Creek Reservoir Drawdown **Matthew Nesbit, NOAA**	Estimating the Abundance of Adult Salmonids in the West Fork Smith River **Patrick Burns, ODFW**
10:00 am	Roving Statistical Creel of Upper Klamath Lake and Agency Lake **Mike Harrington, ODFW**	Smolt Migration Survial Is Strongly Correlated with Stream Flow in the Yakima River, Washington **Ian Courter, Cramer Fish Sciences**	Adfluvial Life History in Spring Chinook Salmon from Quartzville Creek, Oregon **Jeremy Romer, ODFW**	Steelhead & Chinook Escapement in the John Day River Basin: Redd Surveys and a Mark-Recapture Approach **Chris Bare, ODFW**
10:20 am	Floy Tagging of Two Different Fish Species in the Tenmile Lakes **Gary Vonderohe, ODFW**	Basin-Wide Evaluation of Winter Steelhead Spawning in the West Fork Smith River **Brian Jenkins, ODFW**	Juvenile Spring Chinook Life-History Characteristics in Willamette Valley Reservoirs **Fred Monzyk, ODFW**	Estimating Freshwater Escapement of Anadromous Salmonids in the Rouge River **Steven Mazur, ODFW**
10:40	Idaho's "Tag You're It" Fish Tagging and Angler Return Program: Project Development, Findings, and Current Applications **John Cassinelli, IDFG**	East Fork Owyhee River Retains the Capacity to Support Salmon and Steelhead **Forrest Carpenter, Cramer Fish Sciences**	Restoring Fish Passage at the Outlet of Suttle Lake – A Tale of Two Dams and a Lost Sockeye Population **Nate Dachtler, USFS**	Methods for Estimating Spawning Escapement of Summer Steelhead in the Methow River Basin **Charles Frady, WDFW**
11:00		Addressing Salmonid Homelessness in the Urban Jungle (Restoring Off Channel Salmon Habitat Within the Urban Zone of Bear Creek (Part 1) **Stephen Koskella, K&C Environmental Services Inc.**	Restoring Anadromy: Identifying Historical Fish Passage Beyond Natural Obstacles in the Oregon Cascades with Stable Isotope Analysis **Sierra Lewis, OSU**	**Natural Production Committee Meeting** Gary Vonderohe and Ian Tattum, ODFW (Co-Chairs)
11:20		Addressing Salmonid Homelessness in the Urban Jungle (Restoring Off Channel Salmon Habitat Within the Urban Zone of Bear Creek (Part 2) **Stephen Koskella, K&C Environmental Services Inc.**	Mortality, Growth, and Tag Retention of Juvenile Spring Chinook Salmon Implanted with Two Types of PIT Tags **Luke Whitman, 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. A community copy of the abstracts will be available at the registration table.