



66th Annual Northwest Fish Culture Concepts:

A Workshop for Fish Culturists "Angling for Sustainability"

December 1 – 3, 2015 Holiday Inn Portland South Wilsonville, Oregon

Hosted by:

The Oregon Department of Fish & Wildlife



Day 1: Tuesday December 1st

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9:00am	Registration Begins
1:10pm	Welcome: Scott Patterson (ODFW)
1:20pm	Welcome: Curt Melcher (ODFW)
1:40pm	Keynote Speaker, Steve Williams
Coggion #1.	A quagultura in Figheries Management
	Aquaculture in Fisheries Management
Session Chair:	Ryan Queen (ODFW)
2:10pm	Kyle Bratcher (Oregon Dept. of Fish and Wildlife) Getting
	paid to fish? Using a tag-reward model to evaluate a
	stocked trout fishery in Wallowa Lake, Oregon
2:30pm	Michelle Scanlan (Oregon State University) Trans-located
_	Atlantic salmon (Salmo salar): Using geomagnetic
	orientation responses for invasion risk assessment
2:50pm	Andy Dittman (NWFSC, NMFS) Effects of hatchery-rearing
	practices on olfactory imprinting in Pacific salmon
3:10pm	Afternoon Break
3:40pm	Door Prize Drawing
3:50pm	Garth Wyatt (Portland General Electric (PGE)) "Hey you,
	get your hands off me!" An overview of PGE's new hands-
	free adult fish sorting facility at the North Fork Dam on the
	Clackamas River near Estacada, Oregon
4:10pm	Todd Alsbury (Oregon Dept. of Fish and Wildlife)
•	Controlling stray hatchery fish with various styles of weirs
4:30pm	Terry Shrader (Oregon Dept. of Fish and Wildlife) <i>Use of</i>
	fluorescent grit marking as a means of mass marking
	salmonids
4:50pm	Hall of Fame Induction
5:00pm	Announcements/Door Prize Drawing/Adjourn
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Poster Session/Vendor Social

5:30-9:00pm

Day 2: Wednesday December 2 nd		Day 2: Wednesday December 2 nd (cont.)		
6:00-7:30am 8:00am	Breakfast Announcements/ Door Prize Drawing	Session #3:	Effects of Climate Change and Drought (cont.)	
	New Technologies in Aquaculture Doug Curtis (ODFW)	11:20am	Mark Drobish (US Fish and Wildlife Service, Dworshak NFH) Hot summer temperatures have unique impacts to	
8:10am	<u>Darrel Nice</u> (Tetra Tech) <i>Construction and startup of a new Sockeye Hatchery in British Columbia</i>	11:40am	Dworshak National Fish Hatchery Kathleen Cole (U of Hawaii) Comparison of family, source	
8:30am	<u>Patrick Cooney</u> (Smith-Root) <i>Electric fish handling gloves:</i> new technology for immobilizing and handling	TI. Todan	and rearing temperature effects on early gonad development and phenotypic sex in wild and hatchery steelhead (Oncorhynchus mykiss)	
8:50am	<u>Todd Deligan</u> (Whooshh Innovations) <i>Head-first and hands-free: advances in use of the Whooshh system since 2014</i>	12:00pm	Lunch Break (Taco Bar provided by Holiday Inn, \$14)	
9:10am	Whooshh Demonstration in the parking lot		Research in Aquaculture #1 Deb Eddy (ODFW)	
9:30am	Morning Break	1:20pm	Door Prize Drawing	
	Session #3: Effects of Climate Change and Drought Session Chair: Kyle Wilson (ODFW)		<u>Dina Spangenberg</u> (NWFSC, NMFS) <i>Physiological</i> measures of smolt quality at time of release successfully	
9:50am	Door Prize Drawing		predict relative smolt to adult performance in the Hood River Spring Chinook salmon	
10:00am	Brian Beckman (NWFSC, NMFS) The NE Pacific Ocean and Columbia River Salmon returns: past, present and future	1:50pm	<u>Don Larsen</u> (NWFSC, NMFS) Using physiological indices to estimate residualism rates in hatchery reared winter-run steelhead trout (Oncorhynchus mykiss) in the Hood River, Oregon	
10:20am	Mark Clifford (California Dept. of Fish and Wildlife) California Department of Fish and Wildlife hatcheries as drought safe haven: self-contained recirculating aquaculture systems for fish populations in peril			
		2:10pm	Neil Thompson (Oregon State University) The effects of high rearing density on the potential for domestication selection in hatchery culture of steelhead (Oncorhynchus mykiss)	
10:40am	Michael Dege (California Dept. of Fish and Wildlife) Year- around drought monitoring, impacts and rescues of McCloud River Redband trout	2:30pm	Marc Johnson (Oregon Dept. of Fish and Wildlife) Outmigration, saltwater readiness, growth and survival of triploid summer steelhead	
11:00am	Eric Jones (California Dept. of Fish and Wildlife) Drought impacts on McCloud River Redband trout: recirculating	2:50pm	<u>David Noakes</u> (Oregon State University) <i>OHRC Research Plan: mate choice, domestication and straying</i>	
	aquaculture systems used as a safe haven at Mt. Shasta Hatchery	3:10pm	Afternoon Break	

Day 2: Wednesday December 2nd (cont.)

	Fish Health and Nutrition Craig Banner (ODFW)	6:00-7:30am 8:00am	Breakfast Announcements/Door Prize Drawing
3:30pm	Door Prize Drawing	Session #6:	Research in Aquaculture #2
3:40pm	Phong Nguyen (Smith-Root, Inc.) Humane fish slaughter: A	Session Chair:	Deb Eddy (ODFW)
	comparison of animal welfare standards in the United States and the United Kingdom. What is the next step?	8:10am	<u>Carlin McAuley</u> (NOAA Fisheries, Manchester Research Station) <i>Salmon broodstocks in seawater – life in a 20'</i>
4:00pm	Rick Stocking (Oregon Dept. of Fish and Wildlife)		ocean – the Manchester experience
	Copepod-induced morbidity of spring Chinook smolts in the Upper Deschutes River: Implications for reintroduction success	8:30am	Timothy Hoffnagle (Oregon Dept. of Fish and Wildlife) The
4:20pm	Sarah Bjork (Oregon Dept. of Fish and Wildlife) Assessment		influence of size at release on performance of Imnaha River Chinook Salmon hatchery smolts
1.20рш	of Ceratonova shasta in the Clackamas River upstream of Clackamas Hatchery	8:50am	Cameron Sharpe (Oregon Dept. of Fish and Wildlife)
4:40pm	Katie Haman (Washington Dept. of Fish and Wildlife) <i>Is</i>		Performance of Upper Willamette River hatchery spring Chinook salmon released in the fall and spring
-	DRAXXIN a good substitute for Gallimycin?	9:10am	Julia Unrein (Oregon State University) Applications of
5:00pm	<u>Derek Gibbs</u> (Oregon Dept. of Fish and Wildlife) <i>An overview of Columnaris: Diagnosis and treatment</i>		alternative rearing strategies to produce juvenile migratory phenotypes in spring Chinook salmon
5:20pm	Nikolas Zymonas (Oregon Dept. of Fish and Wildlife) Implications of pathogens for captive-rearing and reintroduction of Bull Trout (Salvelinus confluentus) in the Upper Willamette Basin, Oregon	9:30am	Heather Stewart (Oregon State University) You've got to know when to hold 'em: Determination of appropriate transport and release timing of juvenile Chinook salmon
5:40pm	Announcements/Adjourn	9:50am	Morning Break
6:30pm	Ex-Com Meeting (Hospitality Room)		

Day 3: Thursday December 3rd

Day 3: Thursday December 3rd (cont.)

Session #7: Miscellaneous Programs and Techniques

Session Chair: Diane Deal (ODFW)

10:10am	Door Prize Drawing
10:20am	Mary Moser (NWFSC, NMFS) Implanting PIT tags in larval Pacific Lamprey
10:40am	<u>Dan Magneson</u> (US Fish and Wildlife Service, Quilcene NFH) "June Hogs:" The legend of the SuperSalmon
11:00am	Eric Pankau (Idaho Dept. of Fish and Game) The effects of specific gravity on inventory methods for hatchery Rainbow Trout
11:20am	Neil Ashton (Aquaculture Research Institute, U of Idaho) Burbot conservation aquaculture: A decade of advancements in the Kootenai Region
11:40am	Kristen Homel (Oregon Dept. of Fish and Wildlife) Addressing the critical uncertainties in the reintroduction of Chum salmon to Oregon tributaries of the Columbia River.
12:00am	<u>Dan Stefanovic</u> (Okanagan Nation Alliance, KŁ CPOLK STIM Hatchery) KŁ CPOLK STIM Hatchery and the use of cryopreservation for conservation of Okanagan Sockeye salmon (Oncorhynchus nerka)
12:20pm	Closing Remarks (including 2016 NWFCC) Raffle Prize Drawing Adjourn

2015 NWFCC Organizing Committee:

Scott Patterson Erik Withalm Brett Requa **Guy Chilton** Linda Lytle Mark Traynor Manny Farinas Greg Grenbemer Tami Edmunds Dan Straw Shari Beals John Thorpe **Greg Davis** Deb Eddy Greg Lipsiea Ryan Couture **2015 NWFCC Session Moderators:** Deb Eddy **Doug Curtis** Diane Deal Ryan Queen Kyle Wilson Craig Banner



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