

DAY 1: TUESDAY, DECEMBER 2

- 8:00 Registration
- 1:00 Welcome: Mike McLean, CTUIR
Tribal Blessing
- 1:05 Tribal Dancers
- 1:30 Announcements/Keynote Introduction
- 1:35 Keynote Speaker: NPT
- 2:05 Keynote Speaker: CTUIR

**SESSION #1:
Diversity in Aquaculture***Session Chair: Mike McLean CTUIR*

- 2:45 William Brignon, USFWS, Captive rearing environment effects bull trout phenotype: implications for recovery strategies
- 3:05 Patrick Blaufuss, U of I, Aquaculture developments for Burbot *Lota lota* intended for population restoration in the Kootenai River
- 3:25 **Afternoon Break**
- 3:45 **Raffle Drawing**
- 3:50 Marc Terrazas, U of I, Determining juvenile burbot susceptibility to stress mediated pathogens
- 4:10 Ron Twibell, USFWS, Evaluation of lipid sources in diets fed to the endangered Lost River sucker (*Deltistes luxatus*)
- 4:30 Alexa Maine, CTUIR, *Anodonta oregonensis*: restoration efforts for an at-risk species
- 4:50 **Announcements/Raffle Drawing/Adjourn**

5:00-9:00 Poster Session/Vendor Social
(*Poster Authors Present*)

DAY 2: WEDNESDAY, DECEMBER 3

8:00 **Announcements/Raffle Drawing**

**SESSION #2:
Aquaculture in Research and Management***Session Chair: Becky Johnson NPT*

- 8:05 Joseph O'Neil, ODFW, Innate and learned preferences for natural stream vs ground water: implications for hatchery practices and natal imprinting in salmonids
- 8:25 Joseph Lemanski, OSU, Characterization of dissolved free amino acids in salmon hatchery water
- 8:45 Dina Spangenberg, NOAA, Smolt quality and spring Chinook salmon survival: a hatchery scale experiment from the Hood River
- 9:05 Deborah Harstad, NOAA, The wild fish growth template improves smolt quality and survival in hatchery reared yearling summer Chinook salmon
- 9:25 Christopher Tatara, NOAA, Volitional release of steelhead removes age 1 and age 2 smolts with nonmigratory behavior

9:50 **Morning Break**
10:20 **Raffle Drawing**

**SESSION #3:
Supplementation, Reintroduction, and Conservation Programs***Session Chair: Jeremy Sommer NPT*

- 10:25 Alene Underwood, Chelan County PUD, New sockeye hatchery in British Columbia intends to expand range of sockeye in Upper Okanagan watershed; a case study on international collaboration
- 10:45 John Holmes, USFWS, Changes in phenotypic and genetic characteristics of natural origin steelhead in a supplemented steelhead population
- 11:05 John Gebhards, NPT, Use of natural origin Chinook salmon for supplementation broodstock: The Johnson Creek Story
- 11:25 Carlin McAuley, NOAA, Captive broodstock program for Nooksack River spring Chinook-We Grow 'Em Big in ~~TEXAS~~ Washington
- 11:45 Timothy Hoffnagle, ODFW, The Grande Ronde basin spring Chinook salmon captive broodstock program: so what worked and what didn't?

12:05 **Lunch**
1:25 **Raffle Drawing**

SESSION #4:**New Technologies/Recirculating Aquaculture***Session Chair: Jon Lovrak CTUIR*

- 1:30 Eric Kinne, WDFW, A new concept in moving fish: the Whooshh Fish Transport System
- 1:50 Duaine Hardie, FFS of BC, A review of airlift water reuse technology at Vancouver Island Trout Hatchery
- 2:10 Craig Eaton, USFWS, Reuse Aquaculture System (RAS) at Hagerman National Fish Hatchery
- 2:30 KC Hosler, PR Aqua, A case study comparison of modern water use strategies for sport fish and enhancement rearing
- 2:50 Catherine Willard, Chelan County PUD, Post-release performance evaluation of Chinook salmon and steelhead reared in partial water reuse circular vessels compared to traditional flow-through raceways
- 3:10 **Afternoon Break**
- 3:30 **Raffle Drawing**

SESSION #5:**Diversity in Aquaculture #2***Session Chair: Alexa Maine CTUIR*

- 3:35 Donella Miller, Yakama Nation, Yakama Nation Sturgeon Management Project
- 3:55 Corey Wright, Blue Leaf Environmental, An overview of white sturgeon collection, sampling and population indexing in the Rocky Reach Reservoir
- 4:15 Ralph Lampman, Yakama Nation, Developing techniques for artificial propagation and early rearing of Pacific Lamprey
- 4:35 James Barron, USFWS, Effects of ammocoete stocking density and ration size on the growth and survival of Pacific lamprey (*Entosphenus tridentatus*)
- 4:55 Sam Onjukka, ODFW, History and results of lamprey health monitoring by Oregon Department of Fish and Wildlife-Fish Health Services
- 5:15 **Announcements/Raffle Drawing/Adjourn**
- 6:00 **Executive Comm. Mtg Walla Walla Room**

DAY 3: THURSDAY, DECEMBER 4

8:00 **Announcements/Raffle Drawing**

SESSION #6:

Fish health/Nutrition/Maturation

Session Chair: John Gebhards NPT

- 8:05 Ann Gannam, USFWS, Evaluation of alternative feeds for Pacific salmon
- 8:25 Mary Peters, USFWS, Fish health management in a captive and endangered Chinook salmon brood-stock
- 8:45 Andy Pierce, CRITFC, Reproductive development in reconditioned female Yakima River steelhead kelts: evidence for consecutive and skip repeat spawning life histories
- 9:05 Lance Clarke, ODFW, A production-level hatchery experiment using diet manipulation to reduce mini-jack rates in Umatilla River fall Chinook salmon
- 9:25 Don Larsen, NOAA, The effect of modulating ration and dietary lipid on growth, smolting, and early male maturation in yearling Umatilla River fall Chinook salmon

9:45 **Morning Break**

10:05 **Raffle Drawing**

SESSION #7:

Related Topics in Fish Culture

Session Chair: Kent Hills NPT

- 10:10 Jerry Chapman, IDFG, Niagara Springs Hatchery renovations and innovations
- 10:30 Christopher Harvey, ODFW, NWFCC 2014: Retrofitting older hatchery infrastructure to accommodate a changing program at Lookingglass Hatchery
- 10:50 Harry Rich and Jim Powell, Seattle City Light and BC Centre for Aquatic Health Sciences, Boundary Native Salmonid Conservation Facility: developing a conservation program in the Pend Oreille River Watershed
- 11:10 John Cassinelli, IDFG, Improving return-to-creel of hatchery catchable rainbow trout in Idaho: catchable size at release.

11:30 **Closing Remarks/Next years conference/
Grand Prize Drawing/Adjourn**

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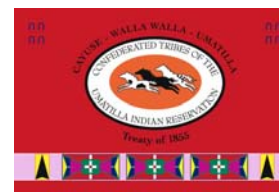
65th ANNUAL NORTHWEST FISH CULTURE CONFERENCE



“Restoring Native Species
in the Pacific Northwest”

DECEMBER 2-4, 2014
Wildhorse Resort and Casino
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Hosted by
Confederated Tribes of the Umatilla Indian
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