

# 59<sup>th</sup> Annual Northwest Fish Culture Conference



Hosted By:

Washington Department of Fish and Wildlife

[http://wdfw.wa.gov/fish/management/fish\\_culture\\_conference/index.html](http://wdfw.wa.gov/fish/management/fish_culture_conference/index.html)



*Responsible Stewardship  
for a Sustainable Future*

**Day 1: Tuesday, December 2, 2008**

- 9:00 AM Registration  
12:15 PM Opening Remarks: **Doug Hatfield**, WDFW Hatchery Complex Manager  
12:20 PM Welcome: **Ron Warren**, WDFW, Hatchery Division Manager  
12:35 PM Keynote Address:

## **Session 1 Hatchery Design, Development and Renovation**

Session Chair: **Denis Popochock**, WDFW, Hatchery Complex Manager

- 1:05 PM **Cory Cuthbertson**, WDFW, Building a Better Fish Trap  
1:20 PM **Nathan Jensen**, University of Idaho, Burbot Hatchery Design, Development and Renovations at the University of Idaho  
1:40 PM **Bill Phillips**, WDFW, Planning, Engineering and Construction Support For WDFW Hatcheries  
2:00 PM **Lars Alsager**, IDFG, The Construction and Development of the New Pahsimeroi Fish Hatchery as a Summer Chinook and Summer Steelhead Facility  
2:20PM **Steve Sharon**, WGF, Renovation of Wyoming Game and Fish Department's Dubois Hatchery  
2:40 PM **Jason Rothermel**, WDFW, The Relative Value of a Hatchery Remodel  
3:00 PM Break  
3:25 PM Door Prize Drawing

## **Session 2 Hatchery Design cont.....Fish Health**

Session Chair: **John Kerwin**, WDFW, Fish Pathologist

- 3:30 PM **Jason Hill**, From Hatcheries to Community Centers  
3:45 PM **Les Perkins**, Improved hatchery efficiency through fish screen improvements at the Lower Herman Creek Ponds at the Oxbow Hatchery  
3:55 PM **Mark Polinski**, University of Idaho, Disease Susceptibility of Burbot (*Lota lota maculosa*) Following Challenge with Specific Fish Pathogens

- 4:15 PM **Martin Chen**, WDFW, Experimental Use of Isomet Amidium Chloride Hydrochloride (Trypamidium<sup>1</sup>) to Control Mortality of Adult Chinook Salmon *Oncorhynchus tshawytscha* Due to *Cryptobia salmositica*
- 4:30 PM **Steve Roberts**, WDFW, Fifteen Years Without An IHN Outbreak At Lyons Ferry Hatchery ... Just Good Luck?
- 4:50 PM **Seth Morgan**, ODFW, UV Disinfection at Leaburg Hatchery
- 5:05 PM **John Kerwin**, WDFW, Case History – Infectious Hematopoietic Necrosis Virus in the Chehalis and Queets River Basins
- 5:30 PM Announcements/Door Prize Drawing
- 5:45 PM Trade Show/Poster Session/Social

<b>Day 2: Wednesday, December 3, 2008</b>
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- 7:00 AM Continental Breakfast
- 8:00 AM Door Prize Drawing
- 8:10 AM Introduction/Messages: Doug Hatfield, WDFW

**Session 3 Salmon and Steelhead Recovery**

Session Chair: **Aaron Roberts**, WDFW Hatchery Complex Manager

- 8:15 AM **Barry Berejikian**, NOAA Fisheries, The Hood Canal Steelhead Project: An Overview and Evaluation of Hydraulic Redd Sampling
- 8:40 AM **Ed Jouper**, WDFW, Implementation and Operation of an ESA-listed Hood Canal Summer Chum Recovery Project: The Nuts and Bolts
- 9:00 AM **Thom Johnson**, WDFW, ESA-listed Hood Canal Summer Chum Salmon: A brief update on supplementation programs, natural-origin vs. supplementation-origin returns, and recovery
- 9:20 AM **Jeff Grimm**, WDFW, Otolith Thermal Mass Marking
- 9:40 AM **Genny West**, PRAqua, Progressive Efforts to Conserve Water at State Fish Hatcheries
- 10:00 AM Break
- 10:25 AM Door Prize Drawing

**Session 4 Salmon and Steelhead Culture and Management I**

Session Chair: **Neil Turner**, WDFW, Hatchery Complex Manager

- 10:30 AM **Jon Lovrack**, WDFW, FishBooks: A New Age Approach for Washington State Fish Hatchery Data
- 10:45 AM **Greg Wolfe**, WDFW, Fish Growth Management Methods; Planning and Implementation
- 11:00 AM **Don Larsen**, NOAA Fisheries, Monitoring for Precocious Male Maturation (minijacks) in Hatchery Programs: A case study of upper Columbia River summer Chinook salmon.
- 11:20 AM **B. Beckman**, NOAA Fisheries, Unexpected Effects and Unintended Consequences: Altering Emergence Timing Induces Variability in Chinook Salmon Life History
- 11:40 AM **Samuel Dilly**, Chelan County Public Utility District No. 1, A Comparison of the Health and Performance of Chinook Salmon Reared in Partial Reuse Circular Tanks and Flow-Through Raceways
- 12:05 PM Lunch
- 1:15 PM Door prize Drawing

### **Session 5 Salmon and Steelhead Culture and Management II**

Session Chair: **Jill Phillips**, WDFW, Fish Hatchery Manager

- 1:20 PM **Jeremy Trimpey**, USFWS, Reducing Soreback Mortality in Summer Steelhead at the Hagerman National Fish Hatchery
- 1:40 PM **R.E. Dasher**, Colville Confederated Tribes, Feeding a Natural Marine Based Diet to Improve Quality and Survival of Reconditioned Kelt Steelhead at Cassimer Bar Hatchery
- 2:00 PM **Kirt Hughes**, WDFW, Harvest and Hatcheries
- 2:20 PM **Chad Herring**, WDFW, Application and Use of Ultrasound to Determine Gender Composition of Spring Chinook Salmon (*Oncorhynchus tshawytscha*) Broodstock for Mitigation Programs in the Wenatchee River Basin
- 2:40 PM **A.H. Dittman**, NOAA Fisheries, Using off-site Acclimation/Release Facilities to Expand the Spawning Distribution and Minimize Straying of Supplemented Salmon Populations: Lessons from the Yakima River Spring Chinook Program
- 3:05 PM Break
- 3:20 PM Door Prize Drawing

### **Session 6 Trout and Kokanee Culture and Management**

Session Chair: **Mitch Combs**, WDFW, Fish Hatchery Manager

- 3:25 PM **Theresa I. Godin**, Freshwater Fisheries Society of BC, Development of Sterile and All-Female Kokanee *Oncorhynchus nerka* for Recreational Fisheries in British Columbia
- 3:45 PM **Guy Campbell**, WDFW, Kokanee Captive Brood Stock Program at Spokane Hatchery
- 4:05 PM **Steven Stout**, WDFW, Marblemount Hatchery Production of Ross Lake Wild Rainbow Trout
- 4:20 PM **Doug Crawley**, Freshwater Fisheries Society of BC, Rainbow Trout Alevin Clean-Up Method for Fungus Control
- 4:35 PM **Keith Underwood**, HDR Engineering, Factors Limiting Wild and Hatchery Kokanee in Washington
- 5:00 PM Session End
- 5:10 PM Door Prize

### **Day 3: Thursday, December 4, 2008**

- 7:00 AM Continental Breakfast
- 7:40 AM Door Prize Drawing
- 7:45 AM Introduction/Messages: Doug Hatfield, WDFW

### **Session 7 Non-Salmonid Fish Culture and Management**

Session Chair: **Bruce Bolding**, WDFW, Warmwater Fisheries Manager

- 7:50 AM **Bruce Bolding**, WDFW, Use of Hatchery Reared Warmwater Fish in Washington
- 8:10 AM **Tammy Gish**, WDFW, Warm and Cool Water Culture and Production Activities at Meseberg Hatchery
- 8:25 AM **Mike Erickson**, WDFW, Walleye Culture and Extended Rearing Techniques at Meseberg Hatchery
- 8:40 AM **Mike Rust**, NOAA Fisheries, Lingcod Culture
- 9:00 AM Session End

### **Hall of Fame Presentation**

Presenter: **Craig Busack**, WDFW, Science Division Manager

Recipient: **Howard Fuss**, WDFW Research Scientist

9:05 AM Award Ceremony

9:25 AM Break

### **Session 8 Hatchery Science**

Session Chair: **Andy Appleby**, WDFW Hatchery Biologist

09:45 AM **Andy Appleby**, WDFW, Columbia River Hatchery Scientific Review Group  
Overview of Process, Principles, Methods and Observations

10:15 AM **Craig Busack**, WDFW, The proportionate natural influence (PNI) statistic: a tool for  
management of integrated hatchery programs

10:35 AM **Kent Dimmit**, WDFW, Hatchery Reform, The Puget Sound and Washington Coast Hatchery  
Action Implementation Plan or "Hatchery 2020"

10:50 AM **James Dixon**, WDFW, Hatchery Reform, Willapa Bay

11:05 AM **Ed Eleazer**, WDFW, Summer Chinook Stock Collection and Integration Efforts at Wallace  
River Hatchery

11:25 AM Session End

### **11:45 AM Scholarship Award**

Presenter: **Pat Phillips**

11:50 AM Closing Remarks – Doug Hatfield

11:55 AM Grand Prize Drawings – Pat Phillips and Crew

### **Poster Session (5:40-7:30, Tuesday December 2<sup>nd</sup>)**

Session Chair: **Guy Campbell**, WDFW, Fish Hatchery Manager

1. **Mark Polinski**, IDFG, Evaluation of Formalin and Hydrogen Peroxide Use during Egg Incubation of Burbot (*Lota lota maculosa*)
2. **Martin Chen**, WDFW, Experimental Use of Isomet Amidium Chloride Hydrochloride (Trypamidium<sup>1</sup>) to Control Mortality of Adult Chinook Salmon *Oncorhynchus tshawytscha* Due to *Cryptobia salmositica*
3. **Jeff Lombard**, WDFW, Production of Triploid Trout at Washington Department of Fish and Wildlife Hatcheries
4. **Brian Lyon**, WDFW, Rearing the Ancient Giants – Washington Department of Fish and Wildlife White Sturgeon Conservation Aquaculture at Columbia Basin Hatchery
5. **Joshua Benton**, WDFW, Use of Modern and Technologically Advanced Equipment and their advantages.  
(Matsusaka Ltd. Electronic Juvenile Fish Pump & Cana-Vac Adult Fish Pump)
6. **Kent Dimmit**, WDFW, The All-H Hatchery Analyzer (AHA)
7. **Travis Maitland**, WDFW, Evaluating the spawning distribution and timing of spring Chinook salmon in the Chiwawa River using carcass recovery data.
8. **Robert Hoover**, IDFG, History and the Mystery
9. **Nathan Jensen**, Development of Intensive Culture Methods for Burbot *Lota Lota*

