

DAY 1: Tuesday, December 11, 2012

9:00 Registration
 1:00 Welcome/Announcements: Doug Olson
 1:10 Keynote Speaker: Charlie Smith

SESSION #1: RECIRCULATING AQUACULTURE AND HATCHERY INNOVATIONS**Session Chair: Chris Starr**

1:30 **Tristan Robbins**, Freshwater Fisheries Society of BC. Advanced, Delayed and Out of Season Spawning Dates in Rainbow Trout

1:50 **Chris Jeszke**, IDFG Ashton Fish Hatchery. Development of Daughterless Technology (Trojan Sex Chromosomes) for Control of Introduced Brook Trout.

2:10 **Todd Pearsons**, Grant County PUD, Ephrata WA. Hitting the Right Target: Rearing Innovations

2:30 **KC Hosler**, PR Aqua Supplies Ltd., Nanaimo, BC. Progressive Water Use Strategies Conserve Water and Meet Production Goals.

2:50 **Ray Billings**, Freshwater Fisheries Society of BC, Victoria BC. Utilizing Airlift Water Reuse Technology to Help Achieve Electrical Energy Savings.

3:10-3:30 Afternoon Break / Raffle Drawing * (3:25)

SESSION #2: RECIRCULATING AQUACULTURE AND HATCHERY INNOVATIONS**Session Chair: Matt Hall**

3:30 **Jeff Milton**, ADFG Sports Fish Hatchery Program Supervisor, Anchorage AK. Cold Water RAS Hatchery Construction and Operation: Challenges and Successes

3:50 **Steve Sharon**, Wyoming GFD, Use of RAS Technology in Serial Re-Use Fish Culture – Why?

4:10 **Ian Adams**, Partial Water Re-Use Systems, Operations and Maintenance.

4:30 **Brian Vinci**, The Freshwater Institute, Shepherdstown, WV. Water Re-Use Systems, Water Velocities and Fish Fitness – What is the Connection?

4:50 **Grace Karreman**, Aquatic Life Sciences, Nanaimo BC. Biosecurity and Recirculating Systems.

5:10 Announcements/Adjourn (Raffle Drawing *)
 5:10-9:00 Trade Show, Round Table, and Poster Session Social

DAY 2: Wednesday, December 12, 2012

8:00 Announcements: Larry Telles
 8:05 Raffle Drawing*

SESSION #3: PROGRESSIVE FISH CULTURE**Session Chair: Jim Bowker**

8:10 **Chris Tataara**, NOAA Manchester. Transition to a Locally Adapted Steelhead Stock.

8:30 **Deborah Harstad**, NMFS Seattle, WA. Variation in Early Male Maturation and Smolting of Juvenile Summer Chinook Salmon and Varying Over-winter Temperature Regimes.

8:50 **Eric D. Lauver**, Grant County PUD, Ephrata WA. Precocious Male Straying: A Case Study of Spring Chinook Mini-jack Straying and Distribution from a Captive Brood Program.

9:10 **Brian Beckman**, NOAA Seattle, WA. Stuck in the Middle: Contrasting Effects of Release Size on Early Male Maturation and In-river Survival of SCS Smolts.

9:50-10:20 Morning Break / Raffle Drawing* (10:15)

SESSION #4: PROGRESSIVE FISH CULTURE**Session Chair: Travis Collier**

10:20 **Josh Marauskas**, Chelan County PUD, Wenatchee WA. Increased Performance of Spring Chinook Salmon Reared in Partial Re-Use Circular Vessels Compared to Flow Through Raceways.

10:40 **Dina Spangenberg**, NOAA Seattle, WA. Environmental Effects on Smolt Quality and Early Male Maturation in Spring Chinook Salmon.

11:00 **Andrew Dittman**, NOAA Seattle WA. Early Imprinting of Hatchery-reared Salmon to Targeted Spawning Locations: A New Imprinting Paradigm for Supplementation Programs?

11:20 **Don Larson**, NOAA Fisheries, Seattle WA. The Effect of Modulating Ration and Dietary Lipid on Growth, Smolting and Early Male Maturation in Yearling Umatilla River Fall Chinook Salmon.

11:40 **Lance Clarke**, ODFW LaGrande, OR. Acclimation Strategies Improve Post-release Performance of Hatchery Salmon and Steelhead in NE Oregon.

12:00 – 1:10 Lunch / Raffle Drawing* (1:05)

SESSION #5: HATCHERY OPERATIONS/ NEW TECHNOLOGY**Session Chair: David Hand**

1:10 **Douglas Munson**, IDFG, Eagle Fish Health Laboratory. Renovations at Niagara Springs Hatchery – Benefits and Challenges.

1:30 **Becky Johnson**, Nez Perce Tribe, Integrating Conservation Hatchery Principles with Tribal Treaty Reserved Harvest Opportunities

1:50 **Christina Iverson**, WDFW, Lower Columbia River Hatchery Program Modifications Using Modeling Technology.

2:10 **Tom Flagg**, NOAA Manchester, Hatcheries and Management of Aquatic Resources (HaMAR).

2:30 **Patrick Luke**, Yakama Nation. Artificial Propagation of Pacific Lamprey: Lessons Learned and Path Forward.

2:50 - 3:20 Afternoon Break / Raffle Drawing* (3:15)

SESSION #6: FISH HEALTH AND NUTRITION**Session Chair: Ann Gannam**

3:20 **Mary Peters**, USFWS, Successful Disease Management of Spring Chinook Captive Broodstock at Little White National Fish Hatchery.

3:40 **Guppy Blair & Sonia Mumford**, USFWS. What every fish culturist should know about Antibiotics.

4:00 **Ray Brunson**, Retired USFWS, Controlling Bacterial Coldwater Disease with Fish Culture Methods.

4:20 **Ken Cain**, UofI, Coldwater Disease Research: Update on Vaccine Licensing and Commercialization Status.

4:40 **David Thompson**. USFWS, Larval Pacific lamprey *Entosphenus tridentatus* are not susceptible to common fish rhabdoviruses of the Pacific Northwest.

5:00 **Bonnie Johnson**, USFWS, Aquatic Animal Drug Approval Program, Bozeman MT. National INAD Program Overview.

5:20 Announcements/Adjourn (Raffle Drawing*)

5:30 Portland Room: NWFCC Ex-Com Meeting

DAY 3: Thursday, December 13, 2012

8:00 Announcements: Doug Olson
8:05 Raffle Drawing*

SESSION #7: MISCELLANEOUS TOPICS IN FISH CULTURE

Session Chair: Nate Wiese

8:10 **John Holmes**, USFWS, Differences in Egg Size Between Natural-origin and Genetically Similar Hatchery-origin Winter Steelhead in Abernathy Creek, Washington.

8:30 **Dan Magneson**, USFWS Quilcene NFH, Hoover, Bonneville, Shasta, Grand Coulee Dams – The Great Depression, WWII, and Fishery Resources

8:50 **Mitch Combs**, WDFW Sherman Creek Hatchery. White Sturgeon US Conservation Aquaculture on the Trans Boundary Reach.

9:10 **Mike McLean**, CTUIR. Practical Application of Electro-Anaesthesia in the Field.

9:30 **Maureen Kavanagh**, USFWS, Columbia River. Does the Use of Electronarcosis on Adult Coho Salmon Prior to Spawning Affect Mortality and Fry Growth?

9:50 – 10:15 Morning Break / Raffle Drawing* (10:10)
10:15 **Fish Culture Hall of Fame Induction**

SESSION #8 MISCELLANEOUS TOPICS IN FISH CULTURE

Session Chair: Robbette Schmit

10:40 **Michael Gauvin**, ODFW. Utilizing Round Butte Hatchery in the Reintroduction of Anadromous Fish in the Deschutes River.

11:00 **James D. Bowker**, USFWS, Bozeman MT. Sedating Fish with AQUI-S20E: Will My Fish Still Be Alive if I Take Time for Another Cup of Coffee?

11:20 **Beau J. Gunter**, IDFG, Grace Fish Hatchery, ID. Effects of Initial Feed Timing on Triploid Rainbow Trout Fry at Grace Fish Hatchery

11:40 **Helena E. Christiansen**. USGS. Identifying an Optimal Anesthetic for Juvenile Pacific Lamprey.

12:00 **Closing Remarks / Adjourn / Grand Prize Drawing*
Next Year's Meeting**

*Must be present to win at Raffle Drawings!

THANK YOU VENDORS AND THE FOLLOWING FOR THEIR GENEROUS DONATIONS & TIME:

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Portland Downtown Marriott Waterfront
Portland, Oregon**



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U.S. FISH & WILDLIFE SERVICE**