

Schedule Overview

Monday, June 19th

7:00p-9:00p Registration

Tuesday, June 20th

7:00a-8:00a Registration

8:00a-5:30p Continuing Education

5:00p-7:00p Registration

5:30p-8:00p Social Mixer and Poster Preview Session (Salmon Hall)

Wednesday, June 21st

7:00a-8:00a Registration

7:00a-8:00a Continental Breakfast

8:00a-8:15a Welcome

8:15a-9:00a Keynote by Dr. Jim Winton (USGS Emeritus Scientist)

9:00a-10:00a Session 1 – Viruses

10:00a-10:30a Break

10:30a-12:00p Session 2 – Viruses II and Lab Techniques

12:00p-1:30p Lunch and Poster Sessions

1:30p-2:30p Session 3 – Mesocosms and Molecular Studies

2:30p-3:00p Break

3:00p-3:45p Session 4 - *Renibacterium salmoninarum*

3:45p-5:00p Session 5 – Special Session I

6:00p-8:00p Banquet (Salmon Hall)

Thursday, June 22nd

7:00a-8:00a Continental Breakfast

8:15a-10:00a Session 6 – eDNA and Parasitology

9:45a-10:15a Break

10:30a-12:00p Session 7 – Myxozoans and Immunology

12:00p-1:00p Lunch and WFDW Business Meeting

1:00p-1:45p Session 8 - Special Session II

1:45p-2:30p Roundtable Discussion: The Use of Antimicrobials and Alternatives in a Changing Regulatory Environment

2:30p Closing Remarks

Oral Presentation Schedule

Wednesday, June 21st

	8:00	Bruce Stewart and Ken Warheit - Welcome	
	8:15	Jim Winton	Keynote - On the Horizon: Challenges and Opportunities in Fish Health
Page		Session - 1	Viruses (Moderated by Marcia House)
12	9:00	Emiliano Di Cicco	Heart and Skeletal Muscle Inflammation Disease Diagnosed on a British Columbia Salmon Farm Through a Longitudinal Farm Study
13	9:15	Kyle Garver	Investigations into Piscine Reovirus Pathogenesis
14	9:30	Paul Hershberger	Long Term Shedding of Viral Hemorrhagic Septicemia Virus from Pacific Herring
15	9:45	Knut Falk	Infectious Salmon Anaemia Virus: Evolution from Non-Virulent HPRO Type to Virulent HPR-Deleted Virus
	Break	10:00-10:30	
Page		Session - 2	Viruses II and Lab Techniques (Moderated by Ted Meyers)
16	10:30	Gael Kurath	Generalist and Specialist IHN Virus in Pacific Northwest Salmonids
17	10:45	Bill Batts	Comparison of Russian IHN Virus Glycoprotein Sequences to Historical Virus Strains
18	11:00	Kevin Snekvik	Inhibition of IHN Virus by Broad Spectrum Antiviral Compounds
19	11:15	Jie Ma	Establishment of a Novel and Highly Permissive Cell Line for the Efficient Replication of Cyprinid Herpesvirus 2
20	11:30	J. Christopher Wilson	The Fish Health Section's QA-QC Program: An Update
21	11:45	Ian Gardner	To Pool or Not to Pool? : Guidelines for Pooling of Aquatic Animal Specimens for Surveillance Purposes
	Lunch	12:00-1:30	Poster Session, box lunch
Page		Session - 3	Mesocosms & Molecular (Moderated by Kenneth Warheit)
22	1:30	Diane Elliott	Mesocosm Studies to Assess Survival, Health, Growth and Movement of Hatchery-Reared Lost River Suckers (<i>Deltistes luxatus</i>) in Upper Klamath Lake
23	1:45	Rick Cordes	Confirmation of <i>Tetracapsuloides bryosalmonae</i> Causing Mortality in Wild Mountain Whitefish in the Yellowstone River, Montana
24	2:00	Joanna Borucinska	A Study of Selected Biomarkers of Health in Cod <i>Gadus morhua</i> L. Collected from the Southern Baltic off the Polish Coast

2017 Western Fish Disease Workshop Program

25	2:15	Krishna Thakur	A Comparison of Infectious Agents Between Hatchery-Enhanced and Wild Out-Migrating Juvenile Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) from Cowichan River, British Columbia
	Break	2:30-3:00	
Page		Session - 4	<i>Renibacterium salmoninarum</i> (Moderated by Joan Thomas)
26	3:00	Phong Nguyen	Field Detection of Aquaculture Pathogens Using a Handheld qPCR System
27	3:15	Ian Gardner	Field Evaluation of Diagnostic Sensitivity and Specificity of Five Tests for Surveillance for Bacterial Kidney Disease in Atlantic Salmon
28	3:30	Linda Rhodes	Single Nucleotide Polymorphisms in an Avirulent Strain of <i>Renibacterium salmoninarum</i>
Page		Session - 5	Special Session I (Moderated by Betsy Bamberger)
29	3:45	Hugh Mitchell	Vaccinating Fish: Reasons To Do It and Reasons Not To
30	4:00	Paula Galloway	Functional Dietary Supplements to Support Fish Health Challenges
31	4:15	Francis Baleta	Utilization of Sargassum Extracts as Immunostimulants for Rainbow Trout: Effects of Route Administration on Growth and Immune Response
32-33	4:30	Catherine Hadfield	Immune Stimulants in Fish
Thursday, June 22nd			
Page		Session - 6	eDNA and Parasitology (Moderated by Matt Stinson)
34	8:15	Esteban Soto	The Use of Environmental DNA in Aquatic Pathogen Surveillance in Post-Fire Areas in Las Plumas National Forest, CA
35	8:30	Sascha Hallett	Detection of the Invertebrate Host of Salmonid Myxozoan Parasites Using eDNA
36	8:45	Claire Howell	Development and Application of a Molecular Quantification Method for <i>Ichthyophthirius multifiliis</i> in the Lower Klamath River, CA
37	9:00	Martin Chen	<i>Nanophyetus salmincola</i> Infection and Toxic Contaminant Exposure in Steelhead Trout Outmigrating from Puget Sound Rivers: Implications for Early Marine Survival
38	9:15	Rachel Powers	Detection of <i>Nanophyetus salmincola</i> in Water, Snails and Fish Tissues by Quantitative PCR
39	9:30	Susan Gutenbergger	The Living Head Syndrome: A Study of Paraplegia in Carson Spring Chinook Fingerlings
	Break	9:45-10:15	

Page		Session - 7	Myxozoans and Immunology (Moderated by Sean Roon)
40	10:15	Barry Rickman	Fish Pathology - A Few Projects from Australia
41	10:30	Jerri Bartholomew	Weapons of Micro-Destruction - Understanding Stinging Cells of Parasitic Cnidaria
42	10:45	Laura Taggart-Murphy	The Role of Immunoglobulin T in the Immune Response to <i>Ceratonova shasta</i>
43	11:00	Nilima Renukdas	Characterization of TLR-4 in Fathead Minnow Challenged with Columnaris (<i>Flavobacterium columnare</i>) in Ultra-Low Flow System
Page		Session - 8	Special Session II (Moderated by Nora Hickey)
44	11:15	Michelle Jakaitis	Twenty Years of Disk-Diffusion Testing Indicates No Meaningful Loss of Antibiotic Sensitivity for Multiple Pathogens Isolated from IDFG-Operated Hatcheries
45	11:30	Claire Miller	Antimicrobial Susceptibility Testing: Background and Special Considerations in Aquaculture
46	11:45	Martin Chen	Evaluating the Health of Juvenile Coho and Chinook Salmon Fed a Diet Supplemented with Sodium Fluoride
	Lunch	12:00-1:00	Box lunch, WFDW Business Meeting
47	1:00	David Burbank	Probiotics in Aquaculture; Development of a Probiotic to Reduce Coldwater Disease-Associated Mortality
48	1:15	Esteban Soto	Development of Vaccines Against Piscine Francisellosis
49	1:30	Tim Kniffen	The Fight Against Infectious Diseases: Some Factors Influencing Antibiotic Treatment Success or Failure
50	1:45	Round Table:	The Use of Antimicrobials and Alternatives in a Changing Regulatory Environment
		Panel Members:	<div style="border: 1px solid black; padding: 5px;"> Dave Erdahl, Aquatic Animal Drug Approval Partnership Program Katie Haman, Syndel USA Tim Kniffen, Merck Animal Health Sonia Mumford, United States Fish and Wildlife Service Doug Munson, Idaho Department of Fish and Game Esteban Soto, University of California- Davis Jim Winton, Western Fisheries Research Center </div>
	2:30	Closing Remarks	

Page	Posters	
51	Francis Baleta	Seaweed Extracts as Immunostimulants: Alternative Approach for Improved Health Management of Farmed Fish
52	Francis Baleta	Growth and Immune Response of <i>Pangasius hypophthalmus</i> Fed Diets Containing Seaweed Extracts as Immunostimulants
53	Tyson Fehringer	The Effects of Well Size and Plate Age on the Detection of Infectious Hematopoietic Necrosis Virus
54	Sioned Sitkiewicz	Effects of the Parasite <i>Ichthyophonus</i> on Groundfish Growth and Condition
55	Damien Barrett	Investigating the Genetics of Disease Resistance to the Parasite <i>Ceratonova shasta</i> in <i>Oncorhynchus mykiss</i>
56	Amelia Mahony	Physiological Effects of <i>Kudoa thyrsities</i> on Atlantic Salmon (<i>Salmo salar</i>)
57	Kalyn Hubbard	Pathogen-Related Mortality in Juvenile and Pre-Spawn Spring Chinook Salmon in the Deschutes River Basin, with a Focus on <i>Ceratonova shasta</i>
58	Patrick D. Mathews	Myxozoan Parasites of Amazonian Ornamental Fish
59	Martin Chen	Host Reaction to <i>Nanophyetus salmincola</i> Infection: Evidence That Some Metacercaria Do Not Survive in Heavily Infected Fish
60	Matt Stinson	Validation of Improved <i>Listonella (Vibrio) anguillarum</i> Vaccine in Coho Salmon
61	Evi Emmenegger	Experimental Challenges of Two Species of North American Sturgeon Fish Species with Two Nidoviruses and a Herpesvirus
62	Lauren Norris	Effects of Cryopreservation on Zebrafish (<i>Danio rerio</i>) Pathogens
63	Daniel Hernandez	Subclinical Infection of Ocean and Stream-Type Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) with U and M Genogroup Isolates of IHNV
64	Patrick Hutchins	A qPCR Assay for Detecting the Proliferative Kidney Disease Parasite in Fish Tissue and eDNA Samples
65	Bonnie Besijn	Susceptibility of Waterborne <i>Nanophyetus salmincola</i> Cercaria to Treatment
66	Ashley MacKenzie	Temporal and Spatial Patterns of <i>Ichthyophonus</i> in Puget Sound Herring