



71st Annual NWFCC

Cultivating Success – The Future of Aquaculture in the Northwest Region

December 6-8, 2022

Portland, Oregon

Day 1: December 6 2022						
Time Begin	Time End	Registration				
9:00	13:00					
		Session	Session Chair	Presenter	Representing	Title
13:00	13:10	Opening Remarks		Nate Wilke	USFWS	
13:10	13:20	Native American Invocation		Ron Suppah	Confederated Tribes of the Warm Springs Reservation	
13:20	13:40	Key Note Address		Chris Tataara	NOAA	
13:40	14:00	Fish Health and Nutrition, Part I	Bill Gale, USFWS	Bonnie Johnson	USFWS	The USFWS AADAP Program – Supporting Fish Drug Approvals
14:00	14:20			Paige Maskill	USFWS	Aquatic Animal Drug Approval Partnership Program: Introduction to INADS
14:20	14:40			Julie Harris	USFWS	Predicting pathogen prevalence in salmon populations using pooled tissue samples
14:40	15:00			Dr. Aimee Reed	ODFW	Thiamine supplementation improves survival and body condition of hatchery-reared steelhead (<i>Onchorhynchus mykiss</i>) in Oregon
15:00	15:20	Break				
15:20	15:30	Raffle Drawing				
15:30	15:50	Fish Health and Nutrition, Part II	Bill Gale, USFWS	Dr. Karly Hatcher	CDFW	<i>Lactococcus</i> in California Hatcheries
15:50	16:10			Dr. Katherine Onofryton	AquaTactics Bimeda	Strategies to Improve Fish Vaccination
16:10	16:30			Ian McDonald	USFWS	Inside Out: Using External Morphological Features to Diagnose Internal Spinal Deformities
16:30	16:50			Dr. Kevin Kwak	CDFW	Treating for Thiamine Deficiency Complex in Chinook Salmon at California Hatcheries
16:50	17:10	Raffle Drawing and NWFCC Hall of Fame Inductees				
17:30	22:00	Trade Show, Poster Session, and Social				

Day 2: December 7 2022

Time Begin	Time End	Session	Session Chair	Presenter	Representing	Title	
8:00	8:10	Raffle Drawing and Announcements					
8:10	8:30	Hatchery Innovations and Technology, Part I	Todd Gilmore, USFWS	Kevin Jensen	McMillen, LLC	Yakama Nation Coho Facility Part 1: Design	
8:30	8:50			D.J. Brownlee	Yakama Nation YKPF	Yakama Nation Coho Facility Part 2: Facility Context and Operations	
8:50	9:10			Kevin Hoffman	Onalaska School District	Onalaska High School Steelhead Production	
9:10	9:30					Onalaska High School Rainbow Trout and Coho Salmon Production	
9:30	9:50					Onalaska High School Partial Recirculating Aquaculture System	
9:50	10:10	Break					
10:10	10:20	Raffle Drawing					
10:20	10:40	Hatchery Innovations and Technology, Part II	Todd Gilmore, USFWS	Mark Hasebrock	HDR	Construction of the Native Salmonid Conservation Facility	
10:40	11:00			Ronald Twibell	USFWS	Effects of rearing system on growth responses and saltwater tolerance of Spring Chinook Salmon (<i>Oncorhynchus tshawytscha</i>)	
11:00	11:20			Jodi Burns	McMillen, LLC	Fall Creek Fish Hatchery: One Solution for Species Reintroduction after Barrier Removal	
11:20	11:40			Dr. Jesse Trushenski	Riverence Holdings, LLC	Piper Redux: Status update regarding revision of Fish Hatchery Management	
11:40	13:20	Lunch					
13:20	13:30	Raffle Drawing					
13:30	13:50	Advances in Conservation Science	Jeremy Voeltz, USFWS	Andrew Pierce	CRITFC	Partial-year continuous light treatment reduces precocious maturation in age 1+ hatchery reared male Spring Chinook Salmon (<i>Oncorhynchus tshawytscha</i>)	
13:50	14:10			Steve Stowell	IDFG	Niagara Springs White Sturgeon Hatchery: A Repatriation Approach to Snake River White Sturgeon Culture	

Day 2 (continued): December 7 2022

Time Begin	Time End	Session	Session Chair	Presenter	Representing	Title
14:10	14:30	Advances in Conservation Science	Jeremy Voeltz, USFWS	Matt Piteo	USFWS	Retention of passive integrated transponder tags in hatchery YY male brook trout: effect of tag size, implantation site, and double tagging
14:30	14:50			Hayden Fitte	IDFG	Aligning Development of Summer Steelhead from a Series of Spawning Events Using Water Temperature Manipulation
14:50	15:10	Break				
15:10	15:20	Raffle Drawing				
15:20	15:40	Mixed Bag	Jeremy Voeltz, USFWS	BayLee Moser	Oregon Hatchery Research Center	A Review of Methods to Reduce Warming Water in Hatcheries
15:40	16:00			Chandler Smith	Aquasend	Using real-time data monitoring and collection to access fish health and conduct site surveys, an introduction to the Beacon®
16:00	16:20			Terry Jackson	CDFW	The National Pollutant Discharge Elimination System, Regional Water Quality Control Boards and the California Department of Fish and Wildlife's Fish Hatcheries - Challenges, Confusion, Years of Data (are we actually polluters?)
16:20	16:40	Raffle Drawing				
17:30	19:30	Executive Committee Meeting				

Day 3: December 8 2022

Time Begin	Time End	Session	Session Chair	Presenter	Representing	Title
8:00	8:10	Raffle Drawing and Announcements				
8:10	8:30	Rearing and Release Strategies, Part I	Jeremy Voeltz, USFWS	Dr. Michael Banks	OSU	Improving return numbers by adopting breeding strategies observed more fit among wild fish: Initial evidence from a three-year experiment at Sandy Hatchery, Oregon.
8:30	8:50			Crystal Herron	OSU	The Surrogate Wild Fishes Rearing Method Mitigates the Stress Response in Juvenile Chinook Salmon and Steelhead Trout
8:50	9:10			Jennifer Krajcik	Oregon Hatchery Research Center	Can Hatchery Rearing Practices Influence the Onset of Fin Erosion in Steelhead Trout?
9:10	9:30			Eric Hammonds	ODFW	Volitional Release and Circulars
9:30	9:50			Dina Spangenberg	NOAA	Big Fish, Small Fish, Less Fish, More Fish; Tradeoffs Between Size and Abundance In Rearing Deschutes Spring Chinook Salmon
9:50	10:10			Break		
10:10	10:20	Raffle Drawing				
10:20	10:40	Rearing and Release Strategies, Part II	Jeremy Voeltz, USFWS	Deborah Harstad	NOAA	The effect of reducing dietary lipid and food availability on smolt quality, age structure and adult returns in yearling fall Chinook salmon: a production scale hatchery experiment
10:40	11:00			Kelsey Lear	IDFG	Rearing strategies for steelhead in a partial reuse aquaculture system
11:00	11:20			Justin Baker	USFWS	Increasing Juvenile Survival of Upriver Bright Fall Chinook at Willard National Fish Hatchery Through Alternative Release Strategies
11:20	11:40			Will Lubenau	IDFG	Performance of diploid and triploid Fall Chinook Salmon in Idaho lakes and reservoirs
11:40	12:00			Scott Everett	NPT	Kelt Reconditioning – Safety Net for Snake River Steelhead
12:00	12:10	Closing Remarks				
12:10	12:30	Grand Prize Raffle Drawings				