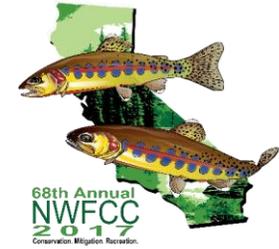




## 68th NWFFC Final Schedule Redding, CA



Talk Number	Time begin	Time End	Total Time (min)	Session Number	Session Name	Name	Representing	Title
<b>Day 1 December 5 2017</b>								
Registration	9:00	13:00		<b>Registration Desk Open</b>				
Intro 1	13:00	13:10	10	Intro	Opening Remarks	Mark Clifford	CDFW	Welcome and Introduction (role of public hatcheries-mitigation, conservation, recreation, restoration) and evolving sciences
Intro 2	13:10	13:20	10	Intro	Native American Invocation	Gary Blackhawk	Confederated Tribes of the Umatilla (CTUIR)	Invocation
Intro 3	13:20	13:40	25	Intro	Key Note	Tony Vaught	CA Aquaculture Association	Private and Public Aquaculture/Benefits of aquaculture for society (food production, recreation, collaborations)
Talk 1	13:40	14:00	20	1 - Farhat Bajjaliya	Hatcheries for Conservation	Bryan Grant	IDFG	Utilizing Conservation Aquaculture for Bonneville Cutthroat Trout in Idaho
Talk 2	14:00	14:20	20	1 - Farhat Bajjaliya	Hatcheries for Conservation	Kaitlin Gooding	USFWS	USFWS Livingston Stone National Fish Hatchery
Talk 3	14:20	14:40	20	1 - Farhat Bajjaliya	Hatcheries for Conservation	Corene Jones	USFWS	Applied Conservation Genetics at the Lahontan National Fish Hatchery Complex
Talk 4	14:40	15:00	20	1 - Farhat Bajjaliya	Hatcheries for Conservation	Thomas Reeves	USFWS	Lahontan Cutthroat Trout Conservation Hatchery: Building on Success and Improving Fish Culture Efficiencies
Break 1	15:00	15:20	20	Break	Afternoon Break			
Drawing 1	15:20	15:30	10	Drawing 1	Door Prize Drawing 1			
Talk 5	15:30	15:50	20	2 - Carlos Garza	Hatcheries for Conservation	Bryan Johnson	Colorado Parks and Wildlife	Culturing Colorado's Native Greenback Cutthroat

Talk 6	15:50	16:10	20	2 - Carlos Garza	Hatcheries for Conservation	Beau Jones	CDFW	McCloud River Redband Trout Program
Talk 7	16:10	16:30	20	2 - Carlos Garza	Hatcheries for Conservation	Chris Tataara	NOAA NWFS	Optimizing steelhead smolt production from natural-origin broodstock
Talk 8	16:30	16:50	20	2 - Carlos Garza	Hatcheries and Climate Change	Dean Marston	CDFW	California Golden Trout: Drought Rescue and Return
Talk 9	16:50	17:10	20	2 - Carlos Garza	Hatcheries and Climate Change	Sarah Austing	USFWS Red Bluff	Led Astray: The Impacts of Drought on Fall Chinook Salmon at Coleman National Fish Hatchery
Drawing 2	17:10	17:20	10	Drawing 2	Door Prize Drawing 2			
Poster and Social	17:30	20:00	150	Social	Poster Session and Vendor Social			

## Day 2 December 6 2017

Good Morning and Drawing 3	8:00	8:10	10	Drawing 3	Door Prize Drawing 3			
Talk 10	8:10	8:30	20	3 - Esteban Soto	Fish Health and Nutrition	Esteban Soto	UC Davis	Environmental and fish health assessment of Lahontan cutthroat trout ( <i>Oncorhynchus clarkii henshawi</i> ) from Walker River basin
Talk 11	8:30	8:50	20	3 - Esteban Soto	Fish Health and Nutrition	Bryan Barney	UC Davis	Monitoring the Impacts of Pathogens at Increasing Water Temperatures in Chinook Salmon in the Sacramento-San Joaquin Delta
Talk 12	8:50	9:10	20	3 - Esteban Soto	Fish Health and Nutrition	Scott Foott	USFWS	Ceratonova shasta and Parvicapsula minibicornis infection in Sacramento and Feather River juvenile Chinook salmon: Spatial, temporal, and river condition influence on disease severity.
Talk 13	9:10	9:30	20	3 - Esteban Soto	Fish Health and Nutrition	Blythe Marshman	CDFW, Shellfish Health	Maintaining the Health of Endangered White Abalone ( <i>Haliotis sorenseni</i> ) in a Captive Breeding Program
Talk 14	9:30	9:50	20	3 - Esteban Soto	Physiology	Paul Adelizi	CDFW R4	Managing Precocious Maturation in Chinook Salmon ( <i>Oncorhynchus tshawytscha</i> ) Captive Broodstock
Break	9:50	10:10	20	morning break	Morning Break			
Drawing 4	10:10	10:20	10	Drawing 4	Door Prize Drawing 4			
Talk 15	10:20	10:40	20	4 - Dean Marston	Physiology	Deborah Harstad	NOAA NWFS	The Mac & Jack study: Size and domestication effects on minijack rates of summer Chinook salmon from McCall Fish Hatchery, Idaho
Talk 16	10:40	11:00	20	4 - Dean Marston	Physiology	Peter Galbreath	CRITFC	Effect of Broodstock Age on Precocial Maturation of Male Chinook Salmon Smolts - Minijacks
Talk 17	11:00	11:20	20	4 - Dean Marston	Physiology (ctd.)	Dina Spangenburg	NOAA NWFS	Photoperiod: A potentially underappreciated phenomenon in salmon physiology and culture?
Talk 18	11:20	11:40	20	4 - Dean Marston	Genetics	Richard Le Boucher	IMV Technologies	Year-round availability of genetic material through cryopreservation of milt in salmonids

Hall of Fame	11:40	12:00	20	4	Hall of Fame	Brett Willson	NWFCC Hall of Fame	
Lunch	12:00	13:20	80	Lunch	Lunch			
Drawing 5	13:30	13:30	10	Drawing 5	Door Prize Drawing 5			
Talk 19	13:30	13:50	20	5 - Jeff Rodzen	Genetics	Carlos Garza	NOAA SWFSC	Genetic monitoring of salmon and steelhead programs
Talk 20	13:50	14:10	20	5 - Jeff Rodzen	Genetics	Neil Thompson	NOAA SWFSC	Evidence for Genetic Adaptation to Captivity and a Potential Mechanism to Account for Domestication in Hatchery-Reared Steelhead
Talk 21	14:10	14:30	20	5 - Jeff Rodzen	Genetics	Stephen Brightwell	CDFW Feather R Hatchery	Chinook and Steelhead Salmon Gamete tracking
Talk 22	14:30	14:50	20	5 - Jeff Rodzen	Genetics	Evan Carson	USFWS Bay Delta	Razorback sucker, Rio Grande silvery minnow, and considerations on the supplementation of wild populations
Talk 23	14:50	15:10	20	5 - Jeff Rodzen	Genetics	Daphne Gille	UC Davis	Development of a Hatchery and Genetic Management Plan for Delta Smelt ( <i>Hypomesus transpacificus</i> )
Break	15:10	15:30	20	Break	Afternoon Break			
Drawing 6	15:30	15:40	10	Drawing 6	Door Prize Drawing 6			
Talk 24	15:40	16:00	20	6 - Evan Carson	Genetics	Jeff Rodzen	CDFW	Recommendations for Inland Trout Conservation Hatchery Programs
Talk 25	16:00	16:20	20	6 - Evan Carson	Operations and Husbandry	Michael Schwemm	USFWS	Current status and future management directions of the Devils Hole pupfish
Talk 26	16:20	16:40	20	6 - Evan Carson	Operations and Husbandry	Jon Lovrak	CTUIR Department of Natural Resources	Umatilla Coho Program – A Study On Adaptive Management Strategies For Success
Talk 27	16:40	17:00	20	6 - Evan Carson	Operations and Husbandry	Dave Lunsford	CDFW Feather R Hatchery	Oroville Dam Spillway Crisis Response at Feather River Hatchery
Drawing 7	17:00	17:10	10	Drawing 7	Door Prize Drawing 7			
Exec Com Meeting	18:30	20:00			Executive Committee Meeting			

### Day 3 December 7 2017

Good Morning and Drawing 8	8:00	8:10	10	Drawing 8	Door Prize Drawing 8			
Talk 28	8:10	8:30	20	7 - Mark Adkison	Technology and Infrastructure	Terry McCarthy	Water Management Technologies	Microscreen Filtration and UV Disinfection in Fish Culture
Talk 29	8:30	8:50	20	7 - Mark Adkison	Technology and Infrastructure	Steve Sharon	WY Game and Fish	Use of RAS Technology in Serial Re-Use Fish Culture and Lessons Learned
Talk 30	8:50	9:10	20	7 - Mark Adkison	Technology and Infrastructure	Andrew Lemley	CDFW	Aquamanager Database
Talk 31	9:10	9:30	20	7 - Mark Adkison	Technology and Infrastructure	Kostas Seferis	Aquamanager	Improved production efficiency and fish management using data mining and machine learning

Talk 32	9:30	9:50	20	7 - Mark Adkison	Technology and Infrastructure	Steve Dearden	Whooshh Innovations	Sockeye Over Cle Elum Dam – A 2017 Fish Passage Pilot
Break	9:50	10:10	20	Break	Morning Break			
Drawing 9	10:10	10:20	10	Drawing 9	Door Prize Drawing 9			
Talk 33	10:20	10:40	20	8 - Andrew Lemley	Technology and Infrastructure	Don MacKinlay	Canada DFO	Optimizing Aeration Tower Design for Salmon Hatcheries
Talk 34	10:40	11:00	20	8 - Andrew Lemley	Technology and Infrastructure	Bill Branch	CDFW	TRC Triploid Machine Repair/Rebuild (a visual tutorial)
Talk 35	11:00	11:20	20	8 - Andrew Lemley	Mixed Bag	Tony Vaught	CA Aqua Association	Overview of Private Aquaculture in California
Talk 36	11:20	11:40	20	8 - Andrew Lemley	Mixed Bag	Cody Leonard	CDFW	CDFW Hatcheries: Fulfilling a Commitment
Closing Remarks	11:40	11:45	5	Closing Remarks	Closing Remarks and Invitation to 2018 NWFCC			
RAFFLE	11:45	12:00	15	Raffle Drawing	Grand Prize Raffle Drawings			