

# Wednesday, April 21 Workshops

9am

#### Accelerating Coho and Steelhead Recovery (9am-12:30pm)

Workshop Coordinators: Matt Clifford, Trout Unlimited, and Monty Schmitt, The Nature Conservancy

State of the Salmon Curtis Knight, California Trout

Implementing Priority Recovery Actions for Coho Salmon in the Central California Coast Stephen Swales, Ph.D., California Department of Fish and Wildlife and Erin Seghesio, NOAA Fisheries

How to use the Salmon Habitat Restoration Priorities (SHaRP) Process to Enhance Inclusion and Support in On-the-ground Restoration Planning Julie Weeder, NOAA Fisheries, Allan Renger, California Department of Fish and Wildlife

The North Coast Salmon Project: a Synergistic Approach to Coho Salmon Recovery Jonathan Nelson, California Department of Fish and Wildlife

Accelerating Steelhead and Coho Recovery Using the Habitat Restoration and Enhancement Act and other Programmatic Permits Katie Haldeman, Sustainable Conservation; and Lucy Haworth, California Department of Fish and Wildlife

**Building Local Capacity:** An Overlooked Element in the Implementation of Habitat Restoration Kellyx Nelson, San Mateo RCD

**Exploring the Riffle Crest Thalweg** (RCT) as a Tool for Assessing the Ecological Performance of **Streamflow Diversion** (9am-5pm)

Workshop Coordinators: Bill Trush, Ph.D., River Institute and Department of Environmental Science and Management, Humboldt State University; Valerie **Zimmer.** State Water Resources Control Board; Katrina Nystrom, Salmonid Restoration Federation.

By restricting streamflow (Q) diversions to a relatively small percentage change in ambient riffle crest thalweg depth (RCT) in unregulated streams, key ecological processes will be protected. This workshop (1) introduces basic RCT concepts, (2) reviews recent RCT research/monitoring, (3) connects stream hydraulics to stream ecosystem processes for evaluating ecological performance, and (4) prioritizes ample opportunity for discussion, hands-on data analysis, and practical applications.

**Speaking of Science** (9am-12:30pm) Workshop Coordinator: Janine Ĉastro, USFWS Vancouver, WA

This workshop is focused on improving oral presentation skills for planners, scientists, engineers, and others who participate in restoration and conservation projects. Participants will leave the workshop with an improved skill set, including a checklist to develop and deliver impactful presentations. The workshop is highly interactive and builds on the collective experience of the audience and the instructor.

Register for Gather film screening which will be available during the week of the conference.



**Gather Film Screening** Join the film screening panel with Director Sanjay Sanjay Rawal and Ancestral Guard representative, Sammy Gensaw, for a discussion.

2pm

# Professional Development Panel (2-4pm)

Making Restoration a Career in Five Words—Curiosity, Interdisciplinary, Collaborating, Sharing, and Amplifiers Mike Love, Engineer and Founder, Michael Love and Associates

Goldi-Lorax's Pursuit of Here, There, and Everywhere Sarah Phillips, Urban Streams Program Manager, Marin Resource Conservation District

Fisheries Biology: Endangered Species, Introversion, and the Deep Love of a Creek Eric Ettlinger, Aquatic Ecologist, Marin Municipal Water District

Civil Servant: Cultivating a Career in Public Service with a Vision of Being Replaced Raquel Ortega, District Director, California Conservation Corps



	Thursday, April 22						
	Plenary Session (9am-12:30pm)						
9am							
	Deep Restoration (Without and Within): Tending Old Wounds, Healing Systems, and Recovering Belonging Rene Henery, Ph.D., California Science Director, Trout Unlimited  OCEAN						
Break	The Difference A Year Makes Chuck Bonham, Director of the California Department of Fish and Wildlife Lifetime Achievement Awards  OUTBREAK Confronting the Rising Tide of Marine Disease						
	Ocean Conditions and the Emergence of Thiamine Deficiency in Central Valley Chinook Salmon Nate Mantua, Ph.D., NOAA/NMFS Southwest Fisheries Science Center						
12:30pm	Ocean Outbreaks Heating Up with Climate Change Drew Harvell, Ph.D., Professor, Ecology and Evolutionary Biology, Cornell University						
1-1:15pm	Virtual Book Signing with Drew Harvell, <i>Ocean Outbreak</i>						
1:30pm	Afternoon Concurrent Sessions (1:30pm-5pm)						
	Understanding Historical Context to Inform Current Salmonid Recovery Planning Session Coordinator: Jay Stallman, Stillwater Sciences	The Influence of Food Webs on Salmonid Growth and Performance: A Forgotten Link to Species Resilience Session Coordinator: Robert Lusardi, Ph.D., UC Davis					
	Forgotten Legacies: Understanding and Mitigating Historical Human Alterations of River Corridors Ellen Wohl, Ph.D., Colorado State University, Fluvial Geomorphology Department	and California Trout  Food Webs and Juvenile Steelhead Behavior in Coastal California—Towards a Foodscape Perspective Gabriel Rossi, Ph.D., UC Berkeley					
	Years in their Ears: What do Fish Earbones Tell us about Spring-run Chinook Salmon Success? Flora Cordoleani, Ph.D., UC Santa Cruz and National	Abundant Prey Availability Improves Juvenile Coho Growth Under Warming Stream Temperatures Robert Lusardi, Ph.D., UC Davis and California Trout					
	Oceanic and Atmospheric Administration What Ancient Salmon Bones Can Teach us about Recovering California's Salmon Populations Malte Willmes, UC Santa Cruz and NOAA Fisheries	Eye Lenses as an Archival Tool to Determine Off-Channel Habitat Use During Juvenile Out-migration in Adult Winter-run Chinook Carson Jeffres, Ph.D., UC Davis					
3pm	Break	Break					
	Yuba River Salmon Impacted since the Gold Rush: An Analysis to Modify Aging Infrastructure, Restore Volitional Passage and Remove Mercury from the Aquatic Environment Carrie Monohan, Ph.D., The Sierra Fund and California State University Chico Novel Physical Evidence of the Historical Nativity	Water Residence Time Drives Aquatic Ecosystem Productivity on a Managed Floodplain Jacob Montgomery, Central Valley Science Program Director, California Trout					
		Summer Foraging Behaviour in Juvenile Coho Salmon and Steelhead Trout Across a Heterogeneous Landscape Rachael Ryan, UC Berkeley Making Sense of Making Salmon: Recipes for Routing Landscape Carbon into Fisheries Biomass Jacob Katz, Ph.D., Lead Scientist, California Trout					
	of Chinook Salmon "Oncorhynchus tshawytscha" in the Guadalupe River Watershed of Santa Clara County, California Richard B. Lanman, MD, Guadalupe-Coyote Resource Conservation District and Institute for Historical Ecology						
	Legacy Effects of Timber Harvesting on Salmonid Habitat at Caspar Creek and Avenues for Improving Habitat During Future Timber Harvests  Paul Richardson, USDA Forest Service  Pacific Southwest Research Station						
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5:30pm

**Poster Session** 

#### Morning Concurrent Sessions (9am-12:30pm) Friday, April 23 (Un)Dam it! Dam Removal **Anadromous Salmonid Habitat Suitability Criteria** 9am and Fish Passage Projects in California Session Coordinator: Mark Gard, Ph.D., Session Coordinators: California Department of Fish and Wildlife Darren Mierau, CalTrout Review of Central Valley Anadromous Salmonid If It's Broke, Why Fix It? Crumbling Concrete Habitat Suitability Criteria Coming to a Small Hydro Project Near You Mark Gard, Ph.D., California Department Chris Shutes, California Sportfishing Protection Alliance of Fish and Wildlife The Eel River Potter Valley Project—Modernizing Hydro-Large Scale Floodplain Rearing Habitat Rehabilitation: Power Infrastructure in one of California's Wildest Rivers Southport Levee Setback Darren Mierau and Redgie Collins, Cal Trout Chris Bowles, cbec eco engineering Battle Creek Salmon and Steelhead Restoration Project Increasing Lateral Connectivity to Benefit Juvenile Mary Marshall and Trang Nguyen, USDOI, Salmonids on the Lower Yuba River: The Hallwood Bureau of Reclamation Side Channel and Floodplain Restoration Project April Sawyer, cbec eco engineering Break 10:30am Break **Progress Towards Removal** of Rindge Dam in Malibu Creek Wanted: Project Site—A Framework for Evaluating Sandra Jacobson, Ph.D., Cal Trout, Director South Coast Possible Restoration Sites Region and Danielle LeFer, Ph.D., California Department I.D. Wikert, U.S. Fish and Wildlife Service of Parks and Recreation, Angeles District Quantifying Dynamic Floodplain Habitat for Juvenile Klamath Dam Removal; (Re) Moving Forward Salmon using a Hydrospatial Approach Mike Belchik, Senior Fisheries Scientist, Yurok Tribe Alison Whipple, San Francisco Estuary Institute The Impacts of Dam Construction and Removal on the Using Aerial Redd Survey Data and a Two-dimensional Genetics of Recovering Steelhead "Oncorhynchus mykiss" Hydraulic Models to Construct a Temperature Dependent Populations across the Elwha River Watershed Spawning Resource Selection Function for Winter-run Alexandra Fraik, Washington State University Chinook Salmon, Peter N. Dudley, NOAA Fisheries Afternoon Concurrent Sessions (1:30-5pm) 1:30pm The Science Informing Salmonid Reintroductions **Hydrologic Management Insights** Session Coordinator: Carlos Garza, Ph.D., NOAA Fisheries, from Instrumented Watersheds Southwest Fisheries Science Center and UC Santa Cruz Session Coordinators: Tim Bailey, Watershed Research and Training Center, and David Dralle, Ph.D., Pacific Southwest The Science Informing Salmonid Reintroductions Research Station, U.S. Forest Service Carlos Garza, Ph.D., NOAA Fisheries, Southwest Fisheries Science Center and UC Santa Cruz Quantification of Water Storage and Non-perennial Runoff Dynamics in a Semi-arid Catchment Head of Reservoir to Ocean; Innovations Connecting Amanda Donaldson, Ph.D. student, UC Santa Cruz Restoration and Reintroductions for ESA Listed Salmonids Stacie Smith, D.Env., NOAA Fisheries Hyporheic Restoration: Lessons from Meacham Creek, OR Byron Amerson, Environmental Science Associates Capacity of Two High Sierra Rivers in California for Reintroduction of Anadromous Salmonids Variability of Headwater Stream Network Extent is Highly David A. Boughton, Ph.D., NOAA/UC Santa Cruz Sensitive to Projected Impacts of Climate Change Christine Leclerc, Simon Fraser University Recolonization Potential for Coho Salmon to Tributaries to the Klamath River Above Iron Gate Dam Developing California's Stream Gaging Plan (SB 19) Max Ramos, Humboldt State University Valerie Zimmer, State Water Board 3:15pm Break Supplementing Mendocino Coho Salmon Advancing Voluntary Flow Enhancement Projects Populations via Captive Rearing in California's Small Streams and Rivers Bob Coey, and Libby Gilbert-Horvath, NOAA Fisheries Amy Campbell, The Nature Conservancy, Instream Flows Project Director Dam, That Was a Wild Ride. Steelhead Passage Up, Down, and Around the Los Padres Dam in California Effects of Flow Augmentation on Coho Salmon Haley Ohms, Ph.D., UC Santa Cruz/NOAA

Smolt Passage in Porter Creek, a Tributary

Sarah Nossaman Pierce, California Sea Grant

The Recession of Freedom—Investigating the Drivers of within-reach Movement for Oversummering Juvenile Steelhead and Coho Salmon in a Drying Stream

to the Russian River, California

Gabriel Rossi, Ph.D., UC Berkeley

#### **Gather Panel** 5:30pm

to the San Joaquin River

The Return of the King: Reintroduction of Chinook Salmon

Anthony Clemento, Ph.D., UC Santa Cruz/NOAA

## SRF Virtual Conference Schedule-at-a-Glance

### Wednesday, April 21

Workshops	
9am-noon	Speaking of Science Workshop
9am-12:30pm	Coho and Steelhead Recovery Workshop
9am-5pm	Instream Flow Workshop
Other Events	
2-4pm	Professional Development Panel
5:30-6:30pm	SRF Annual Meeting

### Thursday, April 22

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Plenary and After	OUTBREAK Confronting the Rising Tide of Marine Disease	
9am-12:30pm	Plenary Session	
1pm	Virtual Book Event with Drew Harvell	
1:30pm	Afternoon Concurrent Sessions	DREW HARVELL

Understanding Historical Context to Inform Current Salmonid Recovery Planning The Influence of Food Webs on Salmonid Growth and Performance: A Forgotten Link to Species Resilience

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#### **Other Events**

5:30pm Interactive Poster Session

#### Friday, April 23

Concurrent Sessions						
9am-12:30pm Morning Concurrent Sessions						
Dam Removal and	(Un)Dam it! I Fish Passage Projects in California	Anadromous Salmonid Habitat Suitability Criteria				

#### 1:30-5:30pm Afternoon Concurrent Sessions

The Science Informing Salmonid Reintroductions

Hydrologic Management Insights from Instrumented Watersheds

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5:30pm Gather Film Screening Panel



Join the film screening panel with Director Sanjay Rawal and Ancestral Guard representative, Sammy Gensaw, for a discussion of the film.