

## March 22, Saturday Afternoon Concurrent Sessions

### California's Powerful Salmon Restoration Economy

Session Coordinator:  
*Lisa Hulette, The Nature Conservancy*

### Southern and Central California Steelhead Habitat Rehabilitation from Tributaries to Estuaries

Session Coordinator:  
*Scott Dusterhoff, San Francisco Estuary Institute*

### Historical Ecology of Salmonids

Session Coordinator:  
*Dougald Scott, PhD, Northern California Council of Federation of Fly-Fishers*

Room	Auditorium	Ocean View Room	Cabrillo Room
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1:15pm

**Coho Salmon Restoration – The Creation of a Restoration Economy on the North Coast**  
*Lisa Hulette, The Nature Conservancy*

**Optimizing the Coho Salmon Potential Supplementation Landscape**  
*Jeanette Howard, PhD, The Nature Conservancy*

**California Salmon Strongholds: Institutionalizing a 'Protect the Best' Strategy**  
*Curtis Knight, California Trout*

**Habitat Capacity, Limiting Factors, and Effective Restoration Strategies for Steelhead in the Pescadero Creek Watershed**  
*Josh Strange, PhD, Stillwater Sciences*

**Scott Creek: The Restoration of a Critical Coastal Lagoon for Steelhead and Coho Recovery**  
*David Revell, PhD, ESA PWA, and Brandy Rider, Caltrans*

**Assessing Limiting Factors from Tributaries to the Estuary for the Steelhead Population in the Big Sur River**  
*Ethan Bell, Stillwater Sciences*

**Santa Ynez River Steelhead: An Angling History**  
*Mark H. Capelli, PhD, NOAA Fisheries*

**The Status of California Salmon Habitat Based on a GIS Analysis**  
*Charleen Gavette, Brian Chuer, PhD, NOAA Fisheries, and Robin Grossinger, San Francisco Estuary Institute*

**Historical Ecology of Salmonids in the Klamath River Basin: Perspectives on the Role of Traditional Ecological Management by Indigenous Tribes and Lessons for Modern Times**  
*Josh Strange, PhD, Stillwater Sciences*

3:00pm

### Break

**A Biologist's Cost-Benefit Analysis for Salmon Habitat Enhancement**  
*Gregory Andrew, Marin Municipal Water District*

**Moving Beyond a Salmon Restoration Economy—Time to Imbed Preventative Financial Incentives in Everyday Land Use Decisions and Economies**  
*Sungnome Madrone, Mattole Salmon Group*

**The CalTrout Directed Southern CA Steelhead Coalitions—Integrating Efforts, Funding, Capacity, and Resources for Southern CA Steelhead Recovery**  
*Candice Meneghin, CalTrout*

### Break

**Balancing Habitat Needs for Rearing and Migratory Steelhead with other Beneficial Water Uses in the Santa Clara River Estuary**  
*Noah Hume, PE, PhD, Stillwater Sciences*

**Habitat Improvement Plan for Lower Piru Creek; Proposed Gravel Augmentation and Water Release Measure**  
*Linda Purpus, United Water Conservation District*

**Using Imagery and Mapping to Detect Riparian Landscape Changes in Southern California**  
*Brittany Struck, NOAA Fisheries West Coast Region*

### Break

**Salmon as a Contemporary and Historical Critical Fish for California Indian Tribes**  
*Fraser M. Shilling, PhD, Department of Environmental Science and Policy, University of California, Davis, CA*

**Historical Ecology of California Lagoons—Implications for Salmonid Restoration on the Changing California Coast**  
*David K. Jacobs, PhD, Department of Ecology & Evolutionary Biology, UCLA*

**On the Margins: In Search of Steelhead South of the Ventura Watershed**  
*Tom Tomlinson, Jr., PhD., Gould School of Law, USC*



6:30pm

Banquet, Cabaret, Awards Ceremony, & Dancing with Casey Neill & the Norway Rats

# 32<sup>nd</sup> Annual Salmonid Restoration Conference

March 19-22, 2014, Santa Barbara, CA

## Recovery Strategies for Coastal Salmonids



### Plenary Session Friday, March 21

Auditorium, 9:00am

#### Welcome

Dana Stolzman, Executive Director, Salmonid Restoration Federation

#### Introduction to the Plenary Session

Thomas Williams, PhD, NOAA Fisheries

#### Recovery Strategies for Coastal Salmonids

#### –The Social Science of Saving Salmon and Steelhead

Charlotte Ambrose, National Marine Fisheries Service, West Coast Region

#### Drought and California's Climate of Extremes

Frances Malamud-Roam, PhD, co-author of *The West Without Water*, and Senior Environmental Planner at Caltrans

#### Southern Steelhead Habitat: It's All About Water and Boulders

Ed Keller, PhD, University of California, Santa Barbara

#### Adaptive Monitoring to a Large-Scale Restoration Action

George Pess, PhD, Northwest Fisheries Science Center, National Marine Fisheries Service



#### 2014 Conference Co-sponsors

Aspen Environmental Group, Balance Hydrologics, Inc., Cachuma Operation and Maintenance Board, California American Water, California Conservation Corps, California Department of Water Resources, Caltrans, CalTrout, Cardno Entrix, cbec, inc., City of Santa Barbara Creeks Division, Contech Engineered Solutions, ESA PWA, GHD, Greenheart Farms, ICF International, Marin Municipal Water District, Michael Love and Associates, Northern California Council Federation of Fly Fishers, Pacific Gas and Electric Company, Pacific States Marine Fisheries Commission, Pacific Watershed Associates, Patagonia, R2 Resource Consultants, Restoration Design Group, Rincon Consultants, Inc., San Lorenzo Valley Water District, Sierra Nevada Brewing, Solano County Water Agency, Sonoma County Water Agency, South Coast Habitat Restoration, Stantec, Stillwater Sciences, Stoecker Ecological, The Nature Conservancy, Trees Foundation, Trout Unlimited



## March 21, Friday Afternoon Concurrent Sessions

### Fish-Habitat Relationships and the Effectiveness of Habitat Restoration

Session Coordinator:  
**Bob Pagliuco**,  
NOAA Fisheries Restoration Center

### Landscape Ecology of Pacific Salmonids

Session Coordinator:  
**Thomas Williams, PhD**,  
NOAA Fisheries, Southwest Fisheries  
Science Center

### Steelhead Life Histories

Session Coordinator:  
**Jacob Katz**, Cal Trout

Room Auditorium Ocean View Room Cabrillo Room

1:15pm

### Fish-Habitat Relationships and the Effectiveness of Habitat Restoration

*George Pess, NOAA Fisheries, Northwest Fisheries Science Center*

### A Lifecycle Perspective of Climate Impacts on West Coast Salmonids

*Nate Mantua, NOAA Fisheries, Southwest Fisheries Science Center*

### "Drought, Fire, Landslides and El Niño—Oh My": Steelhead Life Histories in Southern California's Dynamic Landscape

*Jacob Katz, CalTrout*

### Effectiveness Monitoring and Adaptive Management for Santa Felicia Dam FERC project on Piru Creek, Ventura County, California

*Mike Booth, United Water*

### Seascape Genetic Analysis of Chinook Salmon in the California Current Reveals Distinct Marine Distributions Among Stocks

*Carlos Garza, PhD, NOAA Fisheries, Southwest Fisheries Science Center*

### Comparing the Demographics of Two Steelhead Populations and Their Habitat Characteristics

*Eileen Baglivio, Department of Natural Resources, Cornell University*

### Dry Season Southern Steelhead Pool Habitat Monitoring on the Lower Santa Ynez River, Santa Barbara County

*Tim Robinson, PhD, Cachuma Conservation Release Board*

### Quantifying the Role of Woody Debris in Providing Bioenergetically Favorable Habitat for Juvenile Salmon

*Lee Harrison, NOAA Fisheries, Southwest Fisheries Science Center*

### Life History Characteristics of Southern Steelhead in the Lower Santa Ynez River Watershed Revealed by Scale Reading

*Sarah Horwath, Cardno Entrix*

3:00pm

### Break

### Break

### Break

### Juvenile Coho Salmon Growth and Behavior: A Comparison Between Natural and Constructed Habitats in the Mid-Klamath Watershed

*Shari Witmore, NOAA Fisheries*

### Parallel Evolution of The Summer Steelhead Ecotype in Multiple Populations of *Oncorhynchus Mykiss* in Oregon and Northern California

*Martha Arciniega-Hernandez, Institute of Marine Sciences, UC Santa Cruz*

### A Perfect Match for Self-Renewal: Steelhead and the Santa Ynez River Ecosystem

*William J. Trush, PhD, Humboldt State University*

### Monitoring of a Dam Removal Project in a Coastal Mendocino County Watershed

*Ross Taylor, Ross Taylor and Associates*

### Are Low Summer Flows Limiting Survival of Salmonids at the Stream and Watershed Scales in the Russian River Watershed, California?

*Amelia Johnson, California Sea Grant*

### Spawning Characteristics of Sympatric Steelhead and Resident Rainbow Trout in Southern California

*Anthony Spina, NOAA Fisheries, West Coast Region*

### Monitoring the Response of Steelhead and Physical Habitat in a Dryland Stream That Is Being Restored Using Beaver

*Michael M. Pollock, PhD, NOAA Fisheries, Northwest Fisheries Science Center*

### Combining Stable Isotope Analysis With Telemetry to Identify Trade-Offs Between Thermal and Trophic Resources for Fish in Thermal Refugia

*Kim Brewitt, UC Santa Cruz*

### Relative Contribution of Anadromous and Resident Adults in an Endangered Southern California Steelhead Population

*Rick Bush, NOAA Fisheries, West Coast Region*



7-10pm

Poster Session and Reception in the Auditorium

## March 22, Saturday Morning Concurrent Sessions

### Southern California Steelhead Recovery Planning and Science

Session Coordinators:  
**Bruce Orr and Ethan Bell**,  
Stillwater Sciences

### Overcoming "It's Just an Urban Stream": Case Studies in Urban Stream and River Restoration

Session Coordinator:  
**Ann Riley, PhD**, SF Bay Regional  
Water Quality Control Board

### Dams: Learning to Live With and Without Them

Session Coordinator:  
**Shawn Chartrand**,  
Balance Hydrologics, Inc.

Room Ocean View Room Cabrillo Room Auditorium

9:00am

### South-Central California Steelhead Recovery Plan

*Mark Capelli, PhD, NOAA Fisheries*

### Is Soil Bioengineering Within an Urban Stream Setting-Mission Impossible?

*Mike Vukman, Restoration Scientist, Stantec Consultants*

### Systematic Framework for Improving Environmental Flows Below Dams in California System

*Ted Grantham, UC Davis and Curtis Knight, CalTrout*

### Instream Flows for Anadromous Fish Passage on the Intermittent and Partly Regulated Santa Maria River, Coastal Southern California

*Derek Booth, PhD, Bren School of Environmental Science and Management, UC Santa Barbara*

### Options for Restoring Habitat To Concrete Channels

*Ann L. Riley, PhD, San Francisco Bay Regional Water Quality Control Board*

### The Roles of Geology, Geography and Climate in Planning Dam Removal

*Brian Chuer, PhD, NOAA Fisheries West Coast Region*

### The City of Santa Cruz Draft Habitat Conservation Plan and Central Coast Steelhead Recovery—Moving Toward Balance

*Chris Berry, City of Santa Cruz Water Department*

### Overcoming Concrete Channels and Restoring Fish Passage Through Mission Creek, Santa Barbara

*George Johnson, Creeks Supervisor, City of Santa Barbara*

### Removal of San Clemente Dam—Project Summary and Challenges

*Rob Maclean, President, California American Water Company, and Jonas Minton, Water Project Advisor, Planning and Conservation League*

10:30am

### Break

### Break

### Break

### Floodplain Rehabilitation as a Hedge against Hydroclimatic Uncertainty: A Case Study of a Steelhead Migration Corridor

*David Boughton and Andrew Pike, NOAA Fisheries*

### Steelhead Restoration Through Daylighting

*Drew Goetting, Principal, Restoration Design Group*

### Removal of San Clemente Dam—Project Summary and Challenges Continued

*Seth Gentzler, P.E., Vice President, URS Corp*

### Regional Assessment of Instream Flows Needs for Steelhead (*O. mykiss*) in San Luis Obispo County

*Ethan Bell, Stillwater Sciences*

### Beaver Impact on City Stream Habitat: Martinez California

*Heidi Perryman, PhD, President & Founder, Worth A Dam*

### Matilija Dam: Taking Another Look

*Paul Jenkin, Surfrider Foundation - Ventura Campaign Coordinator*

### Developing a Monitoring Program That Will Include Measuring Success of Restoration Actions in Promoting Steelhead Recovery

*Dana McCanne, California Department of Fish and Wildlife*

### Benefits and Risks of Using Large Woody Material in Urban Streams

*Jeff Peters and Kevin MacKay, ICF International*

### Branciforte Dam Removal Project, Branciforte Creek, Santa Cruz, California

*Chris Hammersmark, cbec, inc. eco engineering*



### Lillingston Creek Debris Dam Removal: Steelhead Restoration Off the Beaten Path

*Seth Shank and Andrew Raaf, Santa Barbara County Flood Control District*

12:15pm

Saturday Lunch in the Courtyard