



33rd Annual Salmonid Restoration Conference

March 11-14, 2015 ~ Santa Rosa, CA

Fisheries Restoration: Planning for Resilience

Conference Co-sponsors



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33rd Annual Salmonid Restoration Conference

Fisheries Restoration: Planning for Resilience

In March of 2015, Salmonid Restoration Federation will produce the 33rd Annual Salmonid Restoration Conference in Santa Rosa, California. The theme of this year's conference is "Fisheries Restoration: Planning for Resilience." The conference agenda will highlight habitat restoration techniques, validating effectiveness monitoring, as well as strategies and mechanisms to restore and recover salmonids. The conference agenda will also explore key recovery actions and implementation priorities in Pacific Northwest salmon recovery plans and efforts to plan for resilience in California's landscape.

Workshops will include: an urban creek workshop highlighting efforts to interface with communities; the 4th Annual California Coastal Monitoring Program workshop focused on monitoring central coast coho salmon populations; a fish passage and protection workshop focused on taking a watershed approach; a captive broodstock symposium & Warm Springs hatchery tour; a workshop entitled, "Innovative Trans-Boundary Approaches to Coho Salmon Recovery," and an Aquatic Invasive Species workshop.

Field tours will include: Bio-Engineering and Floodplain Restoration on the Russian and Napa Rivers; Large Wood and Off-Channel Habitat Projects in Western Sonoma; Lagunitas Creek Watershed: Stem to Stern Salmon Enhancement; Improving Summer Streamflows in Coho Streams Tour; Redwood Creek and Muir Beach Restoration Projects; and a Dry Creek Habitat Enhancement Project Tour.

Concurrent sessions include a recovery and implementation track with the following sessions: West Coast Salmonid Recovery Plans and Strategies, Mechanisms for Salmonid Recovery Planning and Implementation Strategies, and Coho Salmon Habitat Restoration in Northern California: Prioritization and Implementation at ESU to Site Scales. There will be a climate, drought, and flow changes track with the following sessions: Climate Change Vulnerability Assessments: The Road to Resilience and Adaptation; Managing for Drought: Advances in Groundwater Policy, Recharge, and Flow Enhancement Practices; and Changing Flow Regimes in the Eel and Russian Rivers. A physical and environmental track will include Instream Wood Loading Projects in Northern California: Status and Challenges, and Beyond the Thin Blue Line: Floodplain Processes, Habitat, and Importance to Salmonids. Additional sessions focus on validating effectiveness monitoring of habitat restoration, strategically planning for salmon restoration, building diverse partnerships, and watershed recovery efforts in highly altered systems.

The Plenary session will feature a keynote address by Congressman Jared Huffman. Ann Riley, author of *Restored Urban Streams*, will talk about how successful restoration projects happen, and Brian Spence of NOAA Fisheries will give a presentation on the "Historical Context for Interpreting Early Accounts of Pacific Salmon in California's Coastal Watersheds." Lynn Ingram, author of *The West Without Water*, is an invited keynote.

Other conference events will include the SRF Annual Meeting and membership dinner on Thursday evening with a special screening of the film *DamNation*, a poster session and reception on Friday night, and a cabaret and banquet with a wild Copper River salmon dinner and live dance band on Saturday evening. For more information about the conference, please visit www.calsalmon.org.



Planning for Drought Resilience at a Watershed Scale

A majority of Californians regard drought preparedness and water planning as a priority for our state's future. The Water Bond passed by over 67% and California finally has groundwater legislation on the books. How the recently passed Water Bond and the groundwater legislation roll out will largely be determined by allocations and groundwater sustainability plans developed at a local level. Tina Leahy, a Principal Consultant on the Assembly Water, Parks & Wildlife Committee, explains, "In times of "normal" precipitation, groundwater makes up about 40% of the state's overall supply. In times of drought that percentage can shoot upwards of 60% and for some areas groundwater is always 100% of their local water supply." California is dependent on groundwater and planning must be coordinated on a regional and watershed level.

Salmonid Restoration Federation has been engaged in a community water conservation effort in Redwood Creek, a watershed that borders that Mattole River and flows into the South Fork Eel River. This forested area suffers from the legacy impacts of logging, rural sub-divisions, and lack of municipal infrastructure to protect natural resources. Coho salmon are listed as a threatened species in the SONCC Recovery Plan. The South Fork of the Eel River provides important coho and steelhead spawning and rearing habitat and is key to the recovery of coho salmon in this Evolutionary Significant Unit (ESU). Tributaries to the South Fork Eel still provide spawning and rearing habitat but suffer from the cumulative effects of unregulated water diversions and excessive low flows. The major factors impacting coho salmon in Redwood Creek and the South Fork Eel River are lack of cool water refugia, insufficient water quantity which inhibits migratory success, poor water quality, lethal temperatures, and excessive sediment.

SRF emphasizes a place-based approach when developing a collaborative streamflow improvement strategy for North Coast watersheds. Such a strategy values local and inter-generational knowledge-sharing and participation, emphasizes the intrinsic value of non-human creatures indigenous to the watershed (particularly of native salmon), and is motivated by a desire to improve the landscape for the benefit and enjoyment of future generations. Under the right circumstances, place-based collaborative restoration can provide an effective framework for encouraging local citizens to become active participants and caretakers of the places that they call home. (*Resilience In a Time of Drought*, Schremmer 2014, http://calsalmon.org/files/documents/tools/GuideForCollectiveAction_2014.pdf).

SRF is actively exploring the feasibility of a "technology transfer" of Sanctuary Forest's Mattole headwaters water storage and forbearance program. A water conservation program in Redwood Creek will likely be different from the pioneering program that was established in the Mattole due to current availability of grant funding, differences in basic geology and hydrology of the watershed, and varying human water use practices. SRF is exploring several options that would benefit landowners and help improve flows, including a low-interest loan fund for purchasing water storage, coordinating voluntary forbearance in the summer months to ensure adequate flows in the tributaries, and working with Humboldt County Supervisors to remove economic barriers to participation. Incentivizing water

storage and community engagement are essential to the success of this Redwood Creek water conservation effort.

SRF's summer water conservation efforts included low-flow monitoring and analysis, educating landowners about water rights and the Emergency Tank Registration Program, and providing assistance to landowners as they file for their riparian and appropriative water rights. SRF is expanding this effort to include water quality monitoring, technical assistance, and an in-depth feasibility study to understand what reaches would most benefit from a coordinated water conservation program that would enhance flows and salmon habitat.

This proposed feasibility study will produce synthesized flow data, make flow and storage target recommendations, perform aquatic and geomorphic assessments to determine environmental impacts, conduct a preliminary geotechnical assessment of storage sites, and prepare conceptual designs for high priority projects. By partnering with community stakeholders, legislators, scientists, and other non-profits, SRF hopes to build a model of watershed planning and resilience that can be applied to other watersheds on the North Coast.



South Fork Eel River

SRF 2015 Conference Registration

Fisheries Restoration: Planning for Resilience

Name: _____ Phone (work): _____

Address: _____ (home): _____

_____ Email: _____

Affiliation: _____

Advanced Registration Closes February 11, 2015

Workshops & Field Tours

	Advanced Registration	Late Registration	Fee
☞ Wednesday, March 11			
1. Urban Creek Restoration Workshop & Tour	\$60	\$70	_____
2. Innovative Approaches to Coho Salmon Recovery Workshop	\$60	\$70	_____
3. Bioengineering and Floodplain Restoration Projects on the Russian and Napa Rivers Tour	\$60	\$70	_____
4. Lagunitas Creek: Stem to Stern Salmon Enhancement Tour	\$60	\$70	_____
5. Large Wood Placement Methodologies Tour	\$60	\$70	_____
☞ Thursday, March 12			
6. Fish Passage & Protection: Taking a Watershed Approach Workshop	\$60	\$70	_____
7. Captive Broodstock Symposium & Warm Springs Hatchery Tour	\$60	\$70	_____
8. California Coastal Monitoring Program: Monitoring Central Coast Salmon Populations Workshop	\$60	\$70	_____
9. Dry Creek Habitat Enhancement Project Tour	\$60	\$70	_____
10. Redwood Creek and Muir Beach Restoration Projects Tour	\$60	\$70	_____
11. Improving Summer Stream Flows in Coho Streams Tour	\$60	\$70	_____
<i>Thursday Evening SRF Membership Dinner & Screening of DamNation</i>	\$20	\$25	_____

Conference

☞ Friday & Saturday, March 13 & 14

SRF Member	\$140	\$170	_____
Non-member	\$190	\$220	_____
Student (with ID)	\$90	\$100	_____
Saturday Evening Banquet	\$45	\$55	_____

SRF Membership

Membership: \$35 Alevin \$50 Fry \$100 Smolt \$250 Jack \$500 Spawner _____

Payment Total _____

Method of Payment: Check Money Order Purchase Order

Purchase Orders will only be accepted for 5 or more people registering. Each registrant will need to fill out an individual form.

VISA MasterCard Credit Card# _____ Exp. Date _____

Mail form and payment to: SRF Conference, PO Box 784, Redway, California 95560 (Make checks payable to: SRF)
Phone: (707) 923-7501 • Fax: (707) 923-3135 • Email: srf@calsalmon.org

Please Note: We do not give refunds • Receipts are emailed, so print legibly • This form is available at www.calsalmon.org

Workshops & Tours

Wednesday, March 11

Urban Creek Restoration: Interfacing with the Community

Workshop Coordinator: Ann Riley, San Francisco Bay Regional Water Quality Control Board, and **Tour Coordinators:** Steve Brady, City of Santa Rosa, and Brian Hines, Trout Unlimited

This workshop will span the breadth of topics with which anyone involved in urban stream restoration must stay current. Presentations at the workshop will include the use of regional curves as a design tool, new funding opportunities and legislation affecting them, case studies in restoration, citizen involvement strategies, and a panel on how to resolve some of the common issues that confront practitioners in urban settings.



The Urban Creek workshop will culminate with a brief trolley tour of the City of Santa Rosa Prince Memorial Greenway project and the Lower Colgan Creek restoration project.

A “Living River” Runs Through It, The Napa Creek Flood Management Project, Leslie Ferguson, San Francisco Bay Regional Water Quality Control Board

Monitoring the Value of Fish Habitat Improvements Along the Restricted Napa River Corridor: Lessons for Urban and Rural Environments, Jonathan Koehler, Senior Biologist, Napa County Resource Conservation District

The Regional Curve Project, Creating A Restoration Design Tool While Benefiting the Community, Roger Leventhal, P.E. Marin County Flood Control District and Ariana Rickard, California Urban Streams Partnership

Landscape Scale Urban Creek Restoration in Marin County, CA, Greg and Rachel Kamman, Kamman Hydrology & Engineering Inc.

The Funding Conundrum: Problem—Vision—Solution, Mike Carlson, Contra Costa County Flood Control and Water Conservation District

Whose Watershed Is This? Community Engagement in Urban Watershed/Creek Restoration, Joshua Bradt, California Urban Streams Partnership

Marsh Creek Flood Control Channel Restoration—A Model for Community Partnerships for Contra Costa’s 50-Year Plan for Converting Channels to Creeks, Rich Walkling, Restoration Design Group

Colgan Creek Urban Stream Restoration and Watershed Education Interactive Web Mapping and Website Water Quality Testing, Brian Hines, Trout Unlimited, and Ashlee Llewellyn, Edd Clark & Associates

A Case of Beaver-assisted Restoration in an Urban Stream, Heidi Perryman, PhD, President, Worth A Dam

Meeting the Needs of an Active Community while Restoring the Habitat of Salmonids on Incline and Third Creeks in the Lake Tahoe Basin, Charles Miller, Cardno Entrix

Innovative Trans-Boundary Coho Salmon Recovery Workshop

Workshop Coordinators: Stephen Swales, Fisheries Branch, California Department of Fish & Wildlife, and Charlotte Ambrose, NOAA Fisheries

This workshop will focus on innovative, trans-boundary approaches to coho salmon recovery that may help prevent further population extirpations and eventually lead to full recovery. It is anticipated that the fresh perspectives and lessons learned at the workshop will assist with the development and implementation of new approaches to the recovery of California coho salmon.



Coho Salmon Recovery Plans in California have been finalized. This workshop will highlight Pacific Northwest and California efforts to recover wild coho salmon populations.

California Coho Salmon—A Species ‘at the Edge’: An Assessment of Current Recovery Status, Stephen Swales, California Department of Fish and Wildlife

Are California Coho Salmon Doomed? How to Improve Their Prognosis by Applying Lessons Learned from Studies on Canadian Coho Salmon, J.R. Irvine, Pacific Biological Station, Fisheries and Oceans, Canada

Use of System Dynamic Modeling as a Tool for Coho Recovery in Olema Creek, Point Reyes National Seashore, Michael Reichmuth, National Park Service

Creating Rearing Habitat for ESA Listed Coho Salmon With Multiple Life History Strategies, Michael Wallace, California Department of Fish and Wildlife

Investigation of the Relationship Between Physical Habitat and Salmonid Abundance in Two Coastal Northern California Streams, Sean Gallagher, California Department of Fish and Wildlife

The Effectiveness of Artificial Upstream Migration Flows for Coho Salmon, Eric Ettlinger, Marin Municipal Water District

Coho Salmon in a Spring Creek: Life History Tactics of Coho Salmon in the Shasta River and a Method for Quantifying Survival to Evaluate and Prioritize Restoration Efforts, Chris Adams, California Department of Fish and Wildlife

Population Spatial Structure is an Essential Metric for Defining and Prioritizing Coho Salmon Restoration Projects, Justin M. Garwood, Environmental Scientist, California Department of Fish and Wildlife

Juvenile Coho Salmon (*Oncorhynchus kisutch*) Exhibit Compensatory Mechanisms in a Large Volcanic Spring-fed River, Robert Lusardi, PhD, UC Davis Center for Watershed Sciences and CalTrout

What You Do Matters: The Latticework of Federal Listing Factors, Charlotte Ambrose, NOAA Fisheries



This ESA PWA project is one of the most ambitious agricultural landowner-initiated ecosystem restoration projects to date in California which enhances 4.5 miles of habitat for endangered Chinook salmon and steelhead trout, using a combination of selective grading to create inset floodplain benches, instream structures (unanchored large woody debris), berm setbacks and invasive plant removal and native species revegetation. Photo: Jorgen Blomberg

Bioengineering and Floodplain Restoration Projects on the Russian and Napa Rivers

Field Tour Coordinators: Evan Engber, Bioengineering Associates, and Jorgen Blomberg, ESA PWA

Bioengineering Associates will provide an overview of bioengineering techniques and a tour of two bioengineering restoration projects on the Russian River including the Asti winery and the Odd Fellows Recreation Club which won the American Fisheries Society—Western Division—2014 Award of Excellence in Riparian Management. These two sites feature a large number of bioengineering techniques used to rebuild large, damaged riparian areas. In the afternoon, ESA PWA will lead a tour of the Napa River Restoration Rutherford Reach project which was designed to protect and enhance fish and wildlife habitat, reduce bank erosion, enhance flood management, and reduce Pierce’s disease pressure on vineyards.



The Lagunitas Creek watershed tour will visit the restored Giacomini Wetlands. Photo: Ross Taylor

Lagunitas Creek Watershed: Stem to Stern Salmon Enhancement

Field Tour Coordinators: Gregory Andrew, Marin Municipal Water District, and Ross Taylor, Ross Taylor and Associates

Lagunitas Creek in western Marin County is a coastal watershed that supports the largest and most stable population of endangered coho salmon in Central California as well as a robust population of threatened steelhead trout. This field tour will travel from the estuary to the headwaters and will highlight estuary and wetlands restoration including the Giacomini wetlands project within the tidally-influenced estuary of lower Lagunitas Creek and Tomales Bay. This tour will also feature erosion control projects, fish passage techniques, and in-channel and off-channel habitat enhancement.

Large Wood Placement Methodologies Field Tour

Field Tour Coordinators: John Green, Gold Ridge RCD, Lauren Hammack, Prunuske Chatham, Inc., and Chris Blencowe, Blencowe Watershed Management

The absence of naturally recruited wood in stream channels has resulted in simplified stream channels and degraded habitat in salmonid watersheds throughout the Pacific region. Over the past couple of decades, the placement of large wood in stream channels has been widely used to provide for channel and habitat complexity until natural wood recruitment occurs. On this tour we will visit project sites in western Sonoma County where different methods have been used to return large wood to stream channels, and discuss the effectiveness, feasibility, advantages and disadvantages of each method, as well as their relative cost in various settings.



The Large Woody Debris tour will highlight different large wood loading methodologies and results.

Photo: John Green

Aquatic Invasive Species Workshop

Workshop Coordinator: Catherine Mandella, Aquatic Invasive Species Manager, Bay Delta Region, CA Department of Fish and Wildlife

This workshop will cover several issues surrounding aquatic invasive species including quagga and Zebra mussel which cause the highest damage to aquatic ecosystems, infrastructures, economies, agriculture and recreation. Participants will learn about the history of specific invasives and how to identify and report these organisms. The workshop will demonstrate methods and protocols for inspecting and decontaminating gear, vessels and equipment.

Troubled Waters—Biological Invasion of our Aquatic Resources, Ronald Smith, United States Fish and Wildlife Service

Impacts Lessons Learned, Related Issues and Prevention Methods to the Highly Invasive Quagga and Zebra Mussels, Catherine Mandella, CA Department of Fish and Wildlife

Controlling Invasive Aquatic Weeds in the Sacramento-San Joaquin Delta, Angela Llaban, California Department of Parks and Recreation, Division of Boating and Waterways

Thursday, March 12

Fish Passage and Protection: Using a Watershed-Scale Perspective

Workshop Coordinator: Michael Love, Michael Love & Associates

This workshop will focus on collaborative efforts to address fish passage and protection on a watershed basis. Case histories will be used to demonstrate how successful planning among multiple stakeholders concerning fish passage, screening, operations, and in-stream flows has led to substantial on-the-ground improvements for fish. Presenters will also describe some of the technical analysis and solutions used to restore fish populations, including operational changes to existing dams, modifications

of natural barriers, fish routing and energetics, and innovative fishways to accommodate more complex water management strategies.

Watershed Scale Passage: Exploring Missing or Weak Links—What Has and Has Not Worked?, Marcin Whitman, California Department of Fish and Wildlife

Fish Passage Forum: Identifying Physical Barriers to Fish Passage and Social Barriers to Remediation, Michael Bowen, California Coastal Conservancy

Juvenile Coho Salmon and Steelhead Leap Test, David K. White, National Marine Fisheries Service

Achieving Comprehensive Fish Passage In A Sub-Basin Of The Eel River, Ross Taylor, Ross Taylor and Associates

Manastash Creek Restoration Program—Dams, Diversions, and Instream Flow, Michael C. Garello, PE, HDR Engineering, Inc.

NMFS-sponsored Studies for Anadromous Fish Reintroduction in the Upper Yuba River Watershed, 2010-2014, Rick Wantuck, NOAA Fisheries

Upper Yuba River Anadromous Salmonid Reintroduction Plan, Noble Hendrix, QEDA Consulting

The Importance of Alameda Creek within NMFS' Recovery Planning Framework and Ongoing Efforts to Return Steelhead Trout to the Watershed, Joshua Fuller and Amanda Morrison, National Marine Fisheries Service, West Coast Region

Applying the Ecosystem and Diagnosis and Treatment Method in Alameda Creek: A Moving-Window Habitat Analysis to Explore Population Impacts of Passage Barriers and Their Removal, Grant Novak, ICF International

Lower Alameda Creek Fish Passage and Protection, Steve Allen, GHD, Shane O'Nesky and Therese Wooding, Alameda County Water District

Restoring Access to Alameda Creek's Lowest Steelhead Tributary, Leslie Koenig, Alameda RCD, and Michael Love, Michael Love & Associates



Historic culvert to be replaced on Stonybrook Creek as part of recovering steelhead in Alameda Creek watershed. Photo: Michael Love

Determining the Feasibility of Fish Passage, Calaveras Dam Replacement Project, California,

Jonathan Stead, URS Corporation

Arroyo Mocho Stanley Reach Pilot Project—Floods, Fish, & Finance, Elke Rank, Zone 7 Water Agency

Overcoming Challenges with the Strawberry Creek Watershed-Scale Habitat Restoration Orick, California, Rachel Shea, Michael Love & Associates

Implementation of a Multifaceted Fish Passage Improvement Project on the Russian River—Mirabel, Jonathon Mann, HDR, and Steve Koldis, Sonoma County Water Agency



Ben White holding an adult male coho during a ripeness sort at Warm Springs Hatchery. Photo: U.S. Army Corps of Engineers

Captive Broodstock Symposium and Warm Springs Hatchery Tour

Workshop Coordinators: Erick Sturm, NOAA Fisheries, and Ben White, U.S. Army Corps of Engineers

This workshop will cover a range of topics about running a captive broodstock program including state and federal regulations and permitting processes of captive broodstock programs, genetic issues of rearing and spawning multiple generations in captivity, funding issues, using captive broodstock progeny for research to help restore the species, monitoring all life stages of the broodstock progeny once released to the wild, and issues that arise in normal day to day operations. Presentations will be followed by a panel discussion and tour of the Warm Springs Coho Salmon Captive Broodstock hatchery on Lake Sonoma.

A Closer Look at the Release Strategies of a Captive Broodstock Program, Rory W. Taylor, United States Army Corps of Engineers, Warm Springs Hatchery

Putting the Red Back in Redfish Lake—20 Years of Captive Broodstock Progress Towards Saving the Pacific Northwest's Most Endangered Population of Salmon, Thomas A. Flagg, NOAA Fisheries

Monitoring Coho Salmon in the Russian River as Part of the Russian River Coho Salmon Captive Broodstock Program, Nick Bauer, UC Cooperative Ext.

A Regional Approach to Captive Rearing in Support of Recovery Objective in the Northern CCC Coho Salmon ESU, Robert Coey, NOAA Fisheries and Manfred Kittel, CA Department of Fish and Wildlife

Using a Captive Broodstock Program to Assist in the Recovery of Coho Salmon (*Oncorhynchus kisutch*) South of the Golden Gate, Erick Sturm, NOAA Fisheries, Southwest Fisheries Science Center

Genetic Broodstock Management of Endangered Coho Salmon (*Oncorhynchus kisutch*): a Tale of Two Conservation Hatchery Programs, Elizabeth A. Gilbert-Horvath, NOAA Fisheries, Southwest Fisheries Science Center

Managing Precocious Maturation in Chinook Salmon (*Oncorhynchus tshawytscha*) Captive Broodstock for the San Joaquin River Restoration Program, Paul Adelizi, California Department of Fish and Wildlife

Evaluating Effects of Release Timing on Subsequent Movement and Marine Survival of Coho Salmon Smolts from the Big Creek Captive Rearing Program, Brian Spence, NOAA Fisheries, Southwest Fisheries Science Center

4th Annual California Coastal Monitoring Program Workshop: Monitoring Central Coast Coho Salmon Populations Today and Beyond

Workshop Coordinator: Kevin Shaffer, California Department of Fish and Wildlife

This 4th annual workshop will focus on significant monitoring projects that constitute the State's efforts to build a comprehensive monitoring program for coastal populations of coho and Chinook salmon and steelhead. Presenters will highlight their techniques, data collection, analyses, and future priorities in the Central Coast ESU's most significant watersheds. The workshop will demonstrate the continued collaboration of the State, the federal government, water agencies, private entities, and landowners to gather important data on coho salmon.

Introduction to the 2015 Workshop: The Significance of Central California Coast Coho Salmon for the Progress of and Expansion of Population Monitoring in California, Kevin Shaffer, California Department of Fish and Wildlife

Scott Creek Life Cycle Monitoring Station: Informing the Recovery of Southern Coho Salmon, Joseph D. Kiernan, NMFS, Southwest Fisheries Science Center

Overcoming the Complexities of CMP Implementation in the Russian River, Aaron Johnson, Sonoma County Water Agency

Russian River Salmonid Population Monitoring: Addressing Multiple Monitoring Objectives within the Framework of the Coastal Monitoring Plan, Mariska Obedzinski, California Sea Grant and U.C. Cooperative Extension

Update on the Lagunitas Creek Life-Cycle Monitoring Station: Applying the CMP to a Small Coastal Watershed, Gregory Andrew, Marin Municipal Water District

How Dual Frequency Identification Sonar Deployment is Advancing CMP- Preliminary Performance and The Future, Kristine Atkinson, California Department of Fish and Wildlife

Putting One Foot in Front of the Other: A Step by Step Discussion Among Partners for Implementing the California Coastal Salmonid Monitoring Plan, David W. Wright, Campbell Global, LLC

Incorporating a Habitat Component of the California Coastal Salmonid Monitoring Plan, Sean Gallagher, California Department of Fish and Wildlife

The Status of Coastal Salmonid Monitoring Efforts in Central California, Future Priorities, Needs, and Obstacles to Monitoring Anadromous Salmonids in the Central California Coast, George Neillands, California Department of Fish and Wildlife

Dry Creek Field Tour: Partnerships in Habitat Enhancement and Monitoring for Salmonid Recovery

Tour Coordinators: Justin Smith and Neil Lassettre, Sonoma County Water Agency, and Playalina Bojanowski, Sonoma Resource Conservation District

This tour features salmonid habitat enhancement projects and monitoring programs on both private and public lands that demonstrate long-term partnerships that strategically implement conservation practices within the Dry Creek Basin. Tour projects will highlight collaborative efforts guided by the Russian River Biological Opinion, Coho Partnership, and the Captive Broodstock Program and that are implemented by agencies, NGOs and landowners. Project sites are located in the Dry Creek watershed and feature engineered log jams, off-channel and in-channel habitat enhancements, fish passage improvement projects, and hydrologic enhancements including off channel irrigation ponds and frost fans to restore spring and summer time stream flow.



Grape Creek instream habitat improvement project in the Dry Creek watershed.
Photo: Greg Fisher

Redwood Creek and Muir Beach Restoration Projects

Tour Coordinators: Carolyn Shoulders, Golden Gate National Recreation Area, Michael Reichmuth, Point Reyes National Seashore, and Mike Jensen, Prunuske Chatham, Inc.

This tour will showcase the restoration of natural function in Redwood Creek and its major tributary, Green Gulch

Creek, to sustain complex habitat for coho salmon and steelhead trout. The project reconnects long-isolated floodplains, creates off-channel habitat, increases instream complexity with a wide variety of large wood including salvaged live wood, and enhances riparian and adjoining wetland habitat with extensive revegetation. The tour will also demonstrate integration of restoration with heavy recreational use at Muir Beach and GGNRA's adjoining trail network, and a working organic farm at Green Gulch.



Construction at Green Gulch farm. Photo: Mike Jensen

Improving Summer Streamflows in Coho Streams Using Rainwater and Off-channel Water Storage Projects

Tour Coordinator: John Green, Gold Ridge Resource Conservation District

This will be a full-day combined workshop and tour. In the morning, we will discuss the background of flow improvement efforts in western Sonoma County, including the history of this multi-stakeholder effort, scientific foundation for these programs, potential legal issues in developing off-channel and rainwater catchment projects, and program effectiveness monitoring. During the afternoon tour, we will visit several project sites and discuss advantages and disadvantages of various methods, along with obstacles to be overcome in implementing these projects.

Designing and Implementing Rainwater Catchment and Off-channel Water Storage Projects, John Green, Gold Ridge Resource Conservation District

Hydrologic Foundations for Restoring Streamflow in Coastal California Watersheds, Matthew Deitch, Center for Ecosystem Management and Restoration

Taking Some of the Low Out of Flow: Coastal Instream Flow Projects and Water Rights, MaryAnn King, Trout Unlimited

Conservation Hydrology Pondering, Planning, and Implementation, Brock Dolman, OAEC Water Institute

Improving Summer Streamflows in Coho Streams

In coastal California's Mediterranean climate, demand for water tends to be highest when water is most scarce, and water extraction from rivers and streams can lead to diminished streamflow and degraded water quality, imperiling juvenile



Rainwater catchment tanks to store winter water for summer use. Photo: John Green

salmonids. Under the exceptional drought conditions of the past two years, these impacts have become even more severe. In western Sonoma County, the Russian River Coho Partnership, Gold Ridge Resource Conservation District, Occidental Arts and Ecology Center WATER Institute, Prunuske Chatham, Inc., and our partners have employed several methods for reducing the impacts of water diversion on streamflows, including developing alternative water sources, constructing water storage, and changing the timing of water diversion to enhance summer flows.



2015 Conference Logistics & Events

Conference Location

Wells Fargo Center for the Arts
50 Mark West Springs Rd.
Santa Rosa, CA 95403



Conference Events

Wednesday and Thursday workshops and field tours are 9am to 5pm. Field tours depart promptly at 9am so please come to the facility early to pick up your registration packet and pack a lunch for the day. Vans are provided for field tours.

The SRF Annual Membership Meeting will be at 5:15pm on Thursday followed by a networking social and membership dinner and a film screening of DamNation.

Poster Session

To register for the poster session, please email poster@calsalmon.org or register online at www.calsalmon.org

Call for Award Nominations

SRF presents awards for outstanding achievements in the salmonid restoration field. If you would like to nominate someone for the Restorationist of the Year award, the Lifetime Achievement award or the Golden Pipe award, please submit 200 words describing the accomplishments of the nominee by January 8, 2015 to srf@calsalmon.org.

Conference Host Hotels

SRF has set up group blocks at several hotels:

Fountaingrove Inn

(www.fountaingroveinn.com): The closest hotel to the Wells Fargo Center for the Arts is the boutique Fountaingrove Inn at 101 Fountain Grove Parkway, Santa Rosa, CA 95403. The Fountaingrove Inn will honor state and federal per diem rates during the weekdays and offer a 20% discount on their standard rate on the weekends (\$180 plus sales tax). Please call ASAP to reserve this rate: (800) 222-6101. Group Codes are: **SRF Government** with documentation, or **SRF Non-Government** (\$119 for NGOs).

The Hilton Sonoma Wine Country

(www.hiltonsonomahotel.com): Located at 3555 Round Barn Blvd, Santa Rosa, CA 95403, this hotel is offering rooms for all participants at \$121 for all nights. There are 50 rooms in this group block. Services include parking, health club access, and complimentary use of the business center. To get this rate, you must call (800) 486-1542 and book your room by February 9, 2015.

Flamingo Conference Resort and Spa

(www.flamingoresort.com): This is a "Personality Hotel" and is quite fabulous but a longer commute to the conference venue. They are offering 30 rooms at \$90.00 for Superior King or Double room (\$104.00 including Continental Buffet Breakfast), \$114.00 for Executive King (larger room with king bed and sitting area with sofa bed) (\$129.00 including breakfast) and \$199.00 for a Suite rate that includes breakfast.

Banquet, Cabaret, and Dance!

The banquet includes a wild Copper River salmon dinner, local wine and beer, an awards ceremony, fun-filled Cabaret, and a lively band. The banquet will most likely sell out, so please buy your tickets in advance.



SRF Membership Dinner and DamNation Film Screening

This powerful film odyssey across America explores the sea change in our national attitude from pride in big dams as engineering wonders to the growing awareness that our own future is bound to the life and health of our rivers. Dam removal has moved beyond the fictional Monkey Wrench Gang to go mainstream. Where obsolete dams come down, rivers bound

back to life, giving salmon and other wild fish the right of return to primeval spawning grounds, after decades without access. DamNation's majestic cinematography and unexpected discoveries move through rivers and landscapes altered by dams, but also through a metamorphosis in values, from conquest of the natural world to knowing ourselves as part of nature.



Photo: Ben Knight

DamNation producer and underwater photographer Matt Stoecker emerges from the icy tail waters below the former Elwha Dam in a scene from DAMNATION.

Plenary Session

Keynote Congressman Jared Huffman represents the 2nd District of California (North Bay to the North Coast) and has been a long-time watershed and fisheries champion.

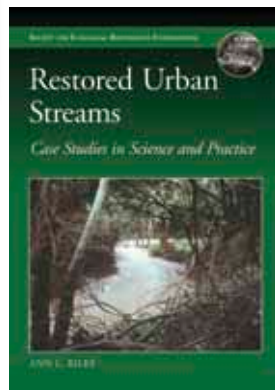


Intertribal Gathering and Elders Dinner with Wiyot tribal representatives, Congressman Huffman, Assembly Member Chesbro, and videographer Thomas Dunklin.

Restored Urban Streams

Thirty years ago, the best thinking on urban stream management prescribed cement as the solution to flooding and other problems of people and flowing water forced into close proximity. Urban streams were perceived as little more than flood control devices designed to hurry water through cities and neighborhoods with scant thought for aesthetics or ecological considerations. Stream

restoration pioneers like hydrologist Ann Riley and other like-minded field scientists imagined that by restoring ecological function and with careful management, streams and rivers could be a net benefit to cities instead of a net liability. In the intervening decades, Riley has spearheaded numerous urban stream restoration projects and put to rest the long-held misconception that degraded urban streams are beyond help.



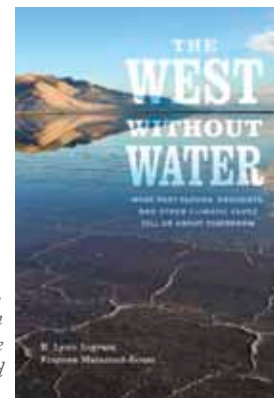
Riley's keynote will address findings in her new book.

What has been missing, however, has been detailed guidance for restoration practitioners wanting to undertake similar urban stream restoration projects that worked with, rather than against, nature. This book presents the author's thirty years of practical experience

managing long-term stream and river restoration projects in heavily degraded urban environments.

The West Without Water

The West Without Water documents the tumultuous climate of the American West over twenty millennia, with tales of past droughts and deluges and predictions about the impacts of future climate change on water resources. Looking at the region's current water crisis from the perspective of its climate history, the authors ask the central question of what is "normal" climate for the West, and whether the relatively benign climate of the past century will continue into the future.



Lynn Ingram, author, will present on California's climate and the Paleo-record on drought.

Conference Sessions

Friday, March 13

Plenary Session

Master of Ceremonies: Thomas Williams, PhD, Southwest Fisheries Science Center, NOAA Fisheries

Swimming Upstream: Salmon Protection in a Tough Political Climate, Congressman Jared Huffman, U.S. Congress

How Do Successful Restoration Projects Happen?, Ann Riley, San Francisco Regional Water Quality Control Board, and author of *Restored Urban Streams*

Historical Context for Interpreting Early Accounts of Pacific Salmon in California's Coastal Watersheds, Brian Spence, Southwest Fisheries Science Center, NOAA Fisheries

California's Climate in Perspective: Paleoclimate Records of Past Droughts and Floods, Lynn Ingram (invited), author of *The West Without Water*

Afternoon Concurrent Sessions

West Coast Salmonid Recovery Plans and Strategies

Session Coordinator: Charlotte Ambrose, California Programs Coordinator, NOAA Fisheries, and Nora Berwick, Recovery Coordinator, NOAA Fisheries, West Coast Region

Implementing Mechanisms for Coho Salmon, Chinook Salmon and Steelhead Recovery across NOAA's West Coast Region, Charlotte Ambrose, California Programs Coordinator, NOAA Fisheries

Recovering Steelhead on the Edge: South-Central and Southern California, Mark Capelli, Steelhead Recovery Coordinator, NOAA Fisheries

Recovering Central Valley Chinook Salmon and Steelhead, Brian Ellrott and Ryan Wulff, Salmon Recovery Coordinators, NOAA Fisheries

Putting Recovery Plans into Action in Southern Oregon and Northern California, Julie Weeder, Salmon Recovery Coordinator, NOAA Fisheries

Implementation Mechanisms for Recovering Bi-State Middle Columbia River Steelhead, Nora Berwick, Salmon Recovery Coordinator, NOAA Fisheries

Implementation Mechanisms in Oregon for Recovering Middle Columbia River Steelhead, Rosemary Furfey, Salmon Recovery Coordinator, NOAA Fisheries

Climate Change Vulnerability Assessments: The Road to Resilience and Adaptation

Session Coordinator: Michael J. Furniss

A Brief Introduction to Vulnerability Assessments: Conceptual Model, Terminology, and Early Lessons, Michael J. Furniss, MJ Furniss & Associates

Choosing and Using Climate Change Scenarios for Vulnerability Assessments of California's Salmonids, Nathan J. Mantua, NOAA Fisheries

California Golden Trout: Can their Warming Streams Handle Cattle Grazing and Climate Change?, Kathleen R. Matthews, Pacific Southwest Research Station

Multi-year Drought Effects on Sacramento River Winter-run Chinook, Josh Israel, PhD, U.S. Bureau of Reclamation

Flow Availability Assessment for Salmonid Recovery Planning, Russian River Watershed, CA, Jeremy Kobor, Senior Hydrologist, O'Connor Environmental, Inc.

Predicting Tidal Lagoon Response to Future Conditions Using a Simple Quantified Conceptual Model, Dane Behrens, PhD, ESA PWA

Instream Wood Loading Projects in Northern California: Status and Challenges

Session Coordinator: Tom Leroy, Pacific Watershed Associates

Low-cost Restoration Techniques for Rapidly Increasing Wood Cover in Coastal Coho Salmon Streams, Jen Carah, The Nature Conservancy

Developing Plans to Integrate Wood Loading Techniques into Watershed Scale Restoration Planning, Tom Leroy and Chris Moore, Pacific Watershed Associates

Watershed Scale Fish Habitat Restoration in Tributaries of the Lower Klamath River, Rocco Fiori, Yurok Tribal Fisheries Restoration Program

Heliwood Placement in the Mattole Estuary, Sungnome Madrone and Drew Barber, Mattole Salmon Group



The Confederated Tribes of the Umatilla Indian Reservation used helicopters to place large wood.

Photo: archive of Confederated Tribes of the Umatilla Indian Reservation

Can the CHaMP Protocol Detect Habitat Changes Resulting From the Addition of Large Wood to a Northern California Stream?, Elizabeth Mackey, California Department of Fish and Wildlife

Using Helicopters to Improve Salmonid Habitat in a Snake River Tributary, Combining Aerial and Ground Implementation Strategies to Address Habitat Deficiencies, Eric D. Hoverson, Confederated Tribes of the Umatilla Indian Reservation Fisheries



Habitat Program

Chasing Salmon—Strategically Planning for Salmon Restoration in Coastal California

Session Coordinators: Lisa Hulette, The Nature Conservancy, and Kevin Shaffer, CA Department of Fish and Wildlife

A New Salmon Joint Venture for California: Collaboration for Recovery, Rene Henery, Trout Unlimited

Streamflows for Salmon & Trout—A Focused Coalition of The Nature Conservancy, California Trout, and Trout Unlimited, Matt Clifford, Trout Unlimited

Integration of Watershed and Fisheries Recovery in California's Private and State Timberland Operations and Regulatory Processes, Richard Gienger, Sierra Club

A Salmon Safe Harbor Agreement for Dry Creek—Piloting a New Tool in the ESA Tool Box for the National Marine Fisheries Service in the Russian River, Robert Coey and Dan Wilson, NOAA Fisheries

Yurok Tribe Fisheries Restoration and Perspective in the Lower Klamath, Sarah Beesley, Yurok Tribal Fisheries Program

Are We Resilient—How Will Californians Implement Effective Anadromous Restoration?, Kevin Shaffer, California Department of Fish and Wildlife

The Continuum of Conservation: Achieving Long Term Ecosystem Goals Through Integrated Programs and Diverse Partnerships

Session Coordinator: Karen Gaffney, Conservation Planning Manager, Sonoma County Agricultural Preservation & Open Space District

Innovative Tools, Data and Planning for Riparian Corridor Conservation, Tom Robinson and Karen Gaffney, Sonoma County Agricultural Preservation & Open Space District

Conserving Stream Ecosystems and Working Lands in Perpetuity, Misti Arias and Sheri Emerson, Sonoma County Agricultural Preservation & Open Space District

The North Coast Resource Partnership: Multiple Benefits for Watersheds & Communities, Jen Jenkins Kuszmar, Planning Supervisor, County of Humboldt, and Leaf Hillman, Director of Natural Resources and Environmental Policy, Karuk Tribe

Deepening the Roots of Conservation Science, Chuck Striplen, PhD, San Francisco Estuary Institute

Engaging Diverse Communities in Restoration and Conservation, Raquel Ortega and John Griffith, California Conservation Corps

Saturday, March 14

Morning Concurrent Sessions

Mechanisms for Recovery Implementation for West Coast Salmonids

Session Coordinators: Charlotte Ambrose, NOAA Fisheries and Nora Berwick, NOAA Fisheries, West Coast Region

Working with Veterans to Implement Recovery Plans in CA, Bob Pagliuco, NOAA Fisheries Restoration Center

Coalition Based Steelhead Recovery Efforts in Coastal Southern California, Sandra Jacobson, CalTrout

Coho Recovery South of the Golden Gate: Partnerships for Preventing Local Extinction, Expanding Populations and Building Ecosystem Resiliency, Jim Robins, Alnus Ecological

Partnering to Advance Central Valley Salmon and Steelhead Recovery, Andrey Purkey and Claire Thorp, National Fish and Wildlife Foundation, Western Water Program

Recovery Plan Implementation Through the Eel River Forum, Darren Mierau, California Trout

Implementing Steelhead Recovery at the Local Level in the Bi-State Walla Walla Basin, Brian Wolcott, Walla Walla Basin Watershed Council

Salmon Recovery—Local Solutions to Regional Challenges, Steve Martin, Snake River Salmon Recovery Board

Managing for Drought: Advances in Groundwater Policy and Recharge Practices

Session Coordinator: Amy Trainer, JD, Environmental Action Committee of West Marin

Funding the Future and Touching the Third Rail: How California Passed a Water Bond & Finally Regulated Groundwater, Tina Cannon Leahy, California State Assembly Committee on Water, Parks and Wildlife

An Integrated Approach for Enhancing Dry Season Flows in North Coastal California, Joel Monschke, Stillwater Sciences

Instream Flow Objectives for Priority Sacramento Tributaries, Daniel Schultz, State Water Resources Control Board

Tools to Promote Restoration of Both Communities and Instream Habitats in the Shasta River and Beyond, Amy Campbell, The Nature Conservancy

Engineered Groundwater Recharge in the Upper Mattole River, Brad Job, Pacific Watershed Associates

California Water Law, Water Transactions for Instream Flow, and New Opportunities to Integrate Surface and Groundwater Accounting, Tom Hicks, JD

Beyond the Thin Blue Line: Floodplain Processes, Habitat, and Importance to Salmonids

Session Coordinators: Brian Cluer and Tommy Williams, NOAA Fisheries

Detecting and Designing Synchronous Channel and Floodplain Habitats, Rocko Brown, UC Davis

Development of a Multi-threaded Wetland Channel Complex and the Implications for Salmonids, Lauren Hammack, Prunuske Chatham, Inc.

Restoration of Fluvial Processes, Floodplains, and Habitat in Lower Butano Creek, Chris Hammersmark, cbec, inc.

Doomed to Die on the Straight and Narrow. Can We Break the Levee to Let Recovery Flow?, Sean Hayes and Jeffrey Jahn, NOAA Fisheries

You are What you Eat: Isotope Tools to Track Floodplain Rearing of Native Fishes, Rachel Johnson, Southwest Fisheries Science Center, NOAA Fisheries

Cost-effective Planning for Large-Scale Floodplain Habitat Restoration in the Salmon River, Western Siskiyou County, California, Jay Stallman and Joel Monshke, Stillwater Sciences



Green Gulch floodplain restoration at the Zen Center as well as Redwood Creek floodplain restoration in Golden Gate National Recreation Area.

Photo: Brian Cluer

Validating Effectiveness Monitoring: Session 1

Session Coordinators: Neil Lassette and Justin Smith, Sonoma County Water Agency

Improving Monitoring: Identifying the Missing Links Between Stream Restoration: From Design to Evaluation, Zan Rubin, Landscape Architecture and Environmental Planning, UC Berkeley

Comparison of Benthic Invertebrate Community Structure and Diet Composition of Steelhead Trout (*Oncorhynchus Mykiss*) in Dry Creek, California, Andrea Dockham, Sonoma County Water Agency

Jam 'in for Salmon: Monitoring Channel Response to Large Wood Placement, Kathleen Morgan, Gualala River Watershed Council

Immediate Fish Response to Stream Habitat Enhancement in the Spawning Reach of a Highly Altered Central Valley Stream, Andrea Fuller, FISHBIO

Broadening the View of "Limiting Factors" vs "Process-based" Restoration Strategies to Maximize Systematic Endangered Species Planning and Recovery in the West, Derek Booth, Cardno Entrix

Validating Restoration Design and Implementation Actions at the Upper Junction City Channel Rehabilitation Site, Trinity River, CA—Embracing Uncertainty and Learning From Progress, David Bandrowski, Trinity River Restoration Program, U.S. Bureau of Reclamation

Challenges and Applications for Salmonid and Watershed Recovery in Highly Altered Systems

Session Coordinator: Cynthia LeDoux-Bloom, PhD, Senior Fisheries Scientist, AECOM

River Regulation: The Decoupling of Salmon and Freshwater Habitats, Joe Merz, PhD, Cramer Fish Sciences

Survival Improvements at Fish Guidance Systems Designed to Improve Safe Downstream Passage of Anadromous and Catadromous Fish, Shane Scott, Principal, S. Scott & Associates LLC

Making Use of a Big Estuary—California Chinook Salmon Fry and Salty Water, Yvette Redler, NOAA Fisheries

Salmon Feeding Strategies and the Bioenergetic Modeling of Juvenile Chinook Salmon Growth During a Drought in the San Joaquin River, Taylor Spaulding, California State University, Fresno

Genetic Analysis of Central Valley Steelhead: Patterns, Processes, and Recovery Planning in a Modified Landscape, Devon E. Pearse, NOAA Fisheries

Measuring the Effects of an Invasive Species and Drought on the Macroinvertebrate Community Composition in Topanga Creek, California, Lizzy Montgomery, Resource Conservation District of the Santa Monica Mountains, and Crystal Garcia, Watershed Stewardship Program and Resource Conservation District of the Santa Monica Mountains



Aerial panorama of Lake Pillsbury flanked by the Eel and Russian River watersheds. Photo: Thomas Dunklin

Afternoon Concurrent Sessions

Beyond the Thin Blue Line: Floodplain Processes, Habitat, and Importance to Salmonids

Session Coordinators: Brian Cluer and Tommy Williams, NOAA Fisheries

Mimicking Hydrologic Process to Restore Ecological Function, Jacob Katz, CalTrout

Building Landscape Hydrologic Resilience To Climate Change Is Analogous to, and Synonymous with Salmonid Ecosystem Restoration, John McKeon and Brian Cluer, NOAA Fisheries

The Rise of the Stage Zero Channel as a Stream Restoration Goal, Michael Pollock, Northwest Fisheries Science Center, NOAA Fisheries

Restoration of Riparian Forests and Riparian Ecosystem Processes and Implications for Salmon Restoration, Katie Ross-Smith, Cardno Entrix

Yolo Bypass Widening into the Elkhorn Basin: A Multi-Benefit Opportunity for Floodplain Habitat, Flood Relief and Fish Passage, Jai Singh, cbec.inc

Enhancing Channel and Floodplain Connectivity: Improving Salmonid Winter Habitat on Lagunitas Creek, Marin County, California, Greg Kamman, PG, CEG, Kamman Hydrology & Engineering, Inc.

Validating Effectiveness Monitoring: Session 2

Session Coordinators: Neil Lassette and Justin Smith, Sonoma County Water Agency

Dry Creek Habitat Enhancement Project Adaptive Management Plan: Evaluating Physical and Biological Response, Neil Lassette, Sonoma County Water Agency

Monitoring the Effectiveness of Fish Passage Projects in Coastal Northern California, Ross Taylor, Ross Taylor and Associates

Validating the Effectiveness of an Off-channel Habitat Enhancement Project in Green Valley Creek through use of PIT Tag Detection Systems, Mariska Obedzinski, CA Sea Grant, UC Cooperative Extension

Changes in Stream Habitat Conditions in the Mattole River Watershed Over Two Decades, Nathan Queener, Mattole Restoration Council

Enhancing Salmon and Steelhead Habitat in the Nimbus Basin, Lower American River, California, Chris Hammersmark, cbec, inc. eco engineering

Cattle Exclusionary Fencing and Off-Channel Watering on Salsipuedes Creek (Santa Ynez River) in Support of Southern Steelhead, Scott B. Engblom, Cachuma Operation and Maintenance Board

Coho Salmon Habitat Restoration in Northern California: Prioritization and Implementation at ESU to Site Scales

Session Coordinators: Daniel Porter, The Nature Conservancy and Jay Stallman, Stillwater Sciences

Determining What Actions to Implement in Your Watershed: A Guide for SONCC Coho Salmon, Julie Weeder, NOAA Fisheries

Building on Recovery Planning: a Process for Identifying, Quantifying, Prioritizing, and Validating Cost-effective Coho Salmon Restoration Actions, Joshua Strange, PhD, Stillwater Sciences

2d Hydrodynamic Based Logic Modeling Tool for River Restoration Decision Analysis: A Quantitative Approach to Project Prioritization, David Bandrowski, Trinity River Restoration Program, USBR

A Multi-faceted Approach to Restoring the Sediment Impaired Elk River in Humboldt County, CA, Bonnie Pryor, Northern Hydrology and Engineering

A Science Framework and Reach-wide Plan for Restoring Coho Salmon Habitat in Lower Ten Mile River, Jay Stallman, Stillwater Sciences, and Lauren Hammack, Prunuske Chatham, Inc.

Coho Habitat Restoration Strategies & Projects, Russian River Tributaries, Sonoma County, Matt O'Connor, O'Connor Environmental, Inc.

Navigating Water Flow Changes in the Eel and Russian Rivers

Session Coordinator: Dougald Scott, PhD

Maintaining Flows And Water Quality For Eel River Coho Recovery—Taking Lessons From The Russian River, Scott Greacen, Friends of the Eel River

Potter Valley Project Overview: Licensing, Operations, and Fisheries Protection, Paul Kubicek, Pacific Gas and Electric Company

Potter Valley Project Blockwater Investigation, Alison P. O'Dowd, Humboldt State University, River Institute

Lake Mendocino's Role in Russian Flow and Fisheries Management, David Manning, Sonoma County Water Agency

Long-Term Trends In Streamflow in the Eel/Russian Basins and California's North Coast, Eli Asarian, Riverbend Sciences.

Is There a Place for Percentage Flow Management in California's North Coast Region?, Gabriel Rossi, McBain Associates Applied River Sciences, and Darren Mierau, Cal Trout

Salmonid Restoration Federation

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SRF News

Water Conservation and Coho Salmon Recovery Workshop

February 7, 2015, Briceland, CA

SRF, Sanctuary Forest, and NOAA Fisheries will host a workshop and coho salmon recovery open house to highlight the newly released SONCC coho salmon recovery plan, water conservation opportunities for rural landowners, and explore how to implement local strategies to support habitat restoration that would benefit wild salmon populations. This

workshop will feature water storage options, forbearance programs, landowner incentives, and water rights.

8th Spring-run Chinook Symposium

Summer 2015, Chico, CA

The 8th Annual Spring-run Chinook symposium will highlight recent restoration efforts in Butte and Battle Creek, regional status reports on Spring-run populations, genetics, FERC relicensing, climate variability, and population trend monitoring.



Salmonid Restoration Federation has launched a merchandise page that features Ray Troll's new bestseller "Return of the Sockeye" and some classic tees & sweatshirts like "Spawn Till you Die" and "Salmon Family Tree." Purchasing merchandise through SRF is a great way to support the organization and look fabulous. <http://salmonid-restoration-fed.myshopify.com>

18th Annual Coho Confab

August 21-23, 2015, Western Sonoma

SRF, in cooperation with the California Department of Fish and Wildlife, Gold Ridge Resource Conservation District, and other non-profits and fisheries agencies will explore coho recovery strategies and techniques. The Confab will feature tours of large woody debris placement, water conservation efforts, stream bank stabilization, and fish passage projects. This Confab will visit exemplary restoration sites in Willow Creek, Dutch Bill watershed, Dry Creek, Mark West, and other tributaries of the Russian River.



Willow Creek, an example of self-restoration from drainage ditch to Stage Zero wetland floodplain complex in 1-2 decades, including use by coho, steelhead and chinook.

Photo: Brian Cluer