

Salmonid Restoration Federation's

25th Salmonid Restoration Conference

March 7-10, 2007

Santa Rosa, California



Celebrating a Generation of Salmonid Restoration and Recovery



Co-Sponsors:



Americorps Watershed Stewards Project, California Conservation Corps, California State Coastal Conservancy, Cal Trout, CalTrans, City of Santa Rosa—Creek Stewardship Program, Coastwalk, Department of Fish and Game, Department of Water Resources, Eyak Preservation Council, Fetzer Vineyards, Forest, Soil, and Water, Inc., Goldridge RCD, Humboldt Baykeeper, Marin County RCD, Marin Municipal Water District, Meadowbrook Conservation Associates, Mendocino County RCD, NOAA Restoration Center, Pacific Coast Fish Wildlife Wetlands Restoration Association, Pacific Coast Federation of Fishermen Associations, Pacific Watershed Associates, Philip Williams and Associates, Ltd, Prunuske Chatham, Inc., San Francisco Estuary Institute, Solano County Water Agency, Sonoma County Open Space District, Sonoma County Water Agency, Southern Sonoma County RCD, Sotoyome RCD, Stoecker Ecological Consultants, Sycamore Associates LLC, The Bay Institute, Trees Foundation, Trout Unlimited, US Fish and Wildlife Service, USDA Natural Resources Conservation Service, Winzler and Kelly

training workshops & field tours

Wednesday, March 7

Workshop:

Workshop 1: Fish Passage Barrier Removal Tools

The array of fish barrier removal tools is constantly changing. This workshop will highlight developments in website databases, fish passage design innovations, barrier assessments, and unique implementation tools that can help you in your own projects as well as tour some local fish passage projects and share experience in tailgate discussions.

Workshop Moderators: Leah Mahan, NOAA Restoration Center and Darcy Aston, Program Director, FishNet 4C

The Passage Assessment Database, a Tool for Stream Habitat Connectivity Restoration, Martina Koller, Pacific State Marine Fisheries Commission

Innovations in Approaches to Solving Fish Passage Problems, Mike Love, Mike Love & Associates

Design Methods for Improving Fish Passage and the Costs, Christine Jordan, Assistant Program Manager Five Counties Salmonid Conservation Program, Trinity County Planning Dept.

Horse Creek Damolition—A Case Study of Successful Dam Removal Using Explosives, Matt Stoecker, Ecological Services

Private-Public Partnerships for Fish Barrier Removal: The Experience in Sonoma Creek, Lisa Micheli, Restoration Program Manager Sonoma Ecology Center

House Creek Dam Removal: A Case Study and Lessons Learned, Leah Mahan, NOAA Restoration Center

County Road Crossing Inventories: Priorities for Fish Barrier Removal, Darcy Aston, Program Director, FishNet 4C

Promoting Natural Channel Evolution: a Solution to Fish Passage Issues in Willow Creek, Sonoma County, Lauren Hammack, Geomorphologist, Prunuske Chatham, Inc.

Field Tours:

Sustainable Winegrape Growing Practices Along the Northcoast

Tour leaders: Kent Reeves, East Bay MUD, and Ann Thrupp, Director of CA Sustainable Winegrowing Association

Participants will visit Fetzer and Bonterra vineyards and Preston winery involved in sustainable winegrape growing practices in Sonoma and Mendocino counties to see RCDs and NRCS projects to restore watersheds, and salmonid habitat. After the tour we will have an opportunity to taste wines at the Fetzer Winery in Hopland.

Upper Sonoma Creek Watershed Salmonid Habitat Enhancement Sites: Working within a Hydrologically Diverse System—Successes, Land Owner Objections, Modifications, and New Technical Considerations

Tour leaders: Lisa Micheli, PhD, fluvial geomorphologist; Will Pier, fisheries restoration specialist; Mark Newhouser, riparian vegetation project manager, Sonoma Ecology Center.

This tour will visit 10 salmonid habitat enhancement installation sites, on three creeks that were treated with log and boulder in stream installations, and revegetated with native plants.

In-Stream Restoration and Bioengineering Practices

Tour leaders: Mike Jensen, Prunuske Chatham, Inc., Evan Engber, Bioengineering Associates, Brita Dempsey, Students and Teachers Restoring a Watershed (STRAW) Project, Project of the Bay Institute, Michael Lennox, UC Cooperative Ext.

This full day event will start with a slide show of the project sites and an overview of project considerations and design details. Afterwards we will tour local in-stream restoration and bioengineering projects.

S&F Annual Meeting 5:30-6:30pm

Thursday, March 8

Workshops:

Estuary and Lagoon Restoration Workshop

Coordinators: Leah Mahan and Gillian O'Dougherty, NOAA Restoration Center

This workshop will bring together researchers, planners and restoration practitioners to discuss estuarine restoration at an ecosystem level and as it specifically relates to salmonid restoration and recovery. Speakers will cover a variety of topics from research to planning to implementation and post-project monitoring.

Are Physical Changes in Small Estuaries Limiting Salmon and Steelhead Production in Northern California: Clues and Enhancement Opportunities from Salmon Creek, Lauren Hammock, Prunuske Chatham, Inc.

Restoring Ecosystem Function to the Carmel Lagoon, John McKeon, National Marine Fisheries Service

The Dynamic Dance: Habitat Understanding and Enhancement of the Mattole Estuary?, Drew Barber, Mattole Salmon Group

Limiting Factors for Salmonids in Coastal Estuaries and Lagoons, Steve Cannata, California Department of Fish and Game

Salt River Estuary Enhancement: Restoring the Legendary Eel River a Piece at a Time, Michael Bowen, California Coastal Conservancy

Tidal Marsh Restoration in Humboldt Bay, Darren Mireau, McBain and Trush

Designing, Permitting, and Building Estuary Restoration Projects in Humboldt Bay, California, Don Allan, Redwood Community Action Agency

Working with Landowners, Multiple Partners and Natural Processes to Enhance Off-channel Estuarine Habitat, Smith River, Del Norte County, California, Zachary S. Larson, Smith River Watershed Coordinator and Rocco Fiori, Fiori GeoSciences

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Salmonid Restoration Federation

Salmon Restoration Federation 2007 Conference

Individual Registration Form (PLEASE USE ONE FORM PER PERSON)

• Advanced Registration Must Be Postmarked By February 14, 2007 •

Name: _____ Phone (work): _____
 Address: _____ (home): _____
 _____ email: _____
 Affiliation: _____ Please check box if you are a presenter

Training Workshops & Field Tours

Wednesday, March 7, 2007

	Advance Registration	Late Registration	FEE
1. Fish Passage Barrier Removal Tools Workshop	\$50	\$60	_____
2. Sustainable Winegrape Growing Practices Tour	\$50	\$60	_____
3. Upper Sonoma Creek Watershed Tour	\$50	\$60	_____
4. Instream Restoration and Bioengineering Practices Tour	\$50	\$60	_____

Thursday, March 8, 2007

5. Estuary & Lagoon Restoration Workshop	\$50	\$60	_____
6. Dam Removal and FERC Relicensing Workshop	\$50	\$60	_____
7. Dutchbill Creek Watershed Restoration Project Tour	\$50	\$60	_____
8. Planned Grazing for CA Native Grassland Management Tour	\$50	\$60	_____
9. Headwaters to Mouth: Austin Creek Watershed Tour	\$50	\$60	_____
10. Prince Memorial Greenway short tour (5:15- 6:45pm)	\$20	\$20	_____

* Field tours include a bagged lunch and transportation. Please wear clothing, raingear and shoes appropriate for field tours.

Wild and Scenic Environmental Film Festival

	\$7	\$10	_____
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Conference

March 9-10, 2007 (includes Friday and Saturday lunch and a copy of the Proceedings)

SRF Member (individual membership only)	\$100	\$130	_____
Non-member	\$150	\$180	_____
Student (with photocopy of student ID)	\$70	\$80	_____

Saturday Banquet

(Preference: Salmon____ Chicken ____ Vegetarian____)	\$30	\$30	_____
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Membership

New Renewal

Individual Memberships: \$25 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 _____

Approval Signature _____

Mail form and payment to: SRF Conference, PO Box 784 Redway, CA 95560 (Make checks payable to: SRF)
 phone: (707) 923-7501 • fax: (707) 923-3135 • e-mail: srf@calsalmon.org

Please Note: We do not give refunds • Receipts provided upon request. • This form is available at www.calsalmon.org

Dam Removal and FERC Relicensing

Coordinator: California Hydropower Reform Coalition

This workshop will discuss what the FERC relicensing process is, who is involved in the process, restoration opportunities, what the key opportunities for public involvement are, upcoming projects in California, and examples of dam removal through the FERC process.

CHRC—The FERC Relicensing Process and Dam Removal, Keith Nakatani, Director, California Hydropower Reform Coalition

Removing Dams on the Mokelumne: A Case Study of the FERC Relicensing Process, Pete Bell, Foothill Conservancy

Stakeholder Conflict in Adaptive Management, Dave Steindorf, CA Stewardship Director, American Whitewater

Visualize the Klamath River Un-Dammed: Using an Interactive Model to Envision Dam Removal, Steve Rothert, Director, California Field Office, American Rivers

Moving the Message: Effective Media and Grassroots Outreach, Craig Tucker, Klamath Campaign Coordinator, Karuk Tribe

Fuel for the Fire: Does Science Provide the Answers Sought by Participants of a License Proceeding Involving Dam Removal?, Eric Ginney, PWA Environmental Hydrology

Trials on Fishways and Other Mandatory Conditions in Hydropower Licenses, Richard Roos-Collins, Director of Legal Services, Natural Heritage Institute

A Perspective on Incentives, Costs, and Process Involved in FERC Relicensing Proceedings—A Cautionary Perspective, Guy Phillips, PhD. Economics

Field Tours:

Rivermouth to Ridgeline Tour of Dutch Bill Creek Watershed Restoration Projects

Tour Coordinator: Brock Dolman, Occidental Arts & Ecology Center

This field tour will focus on the Dutch Bill Watershed, a tributary of the lower Russian River where participants will see applied watershed restoration techniques, from instream structures, fish passage, dam removal, advanced road reshaping, upland headcut & fuel load mitigation, stormwater recharge, wildlife habitat enhancement, and community education and organizing. Dutch Bill is considered to be one of the most critical watersheds for the recovery of endangered coho salmon and steelhead in the Russian River. Additional tour leaders include Gold Ridge RCD staff and restoration specialist Doug Gore of Dragonfly Stream Restoration.

Using Planned Grazing in the Management of Native Grasslands and Riparian Areas

Tour Coordinators: Kent Reeves, California Native Grasslands Association and Stephanie Larson, UC Cooperative Extension Livestock Manager

This tour will visit three sites on Thursday, March 8 to view grazing management practices that benefit native grasslands, riparian areas, and ultimately fish and wildlife. We will visit the Walker Creek and McDonald Ranches in western Marin County. The McDonald Ranch was featured in the California Cattlemen's Association publication *Grazing for Change*. We will then turn our attention to the Point Reyes National Seashore and the range management program that includes livestock and reintroduced tule elk.



The Prince Memorial Greenway provides recreation as well as enhanced habitat for fish and wildlife in downtown Santa Rosa.

photo: courtesy City of Santa Rosa archive

Restoration from Headwaters to Mouth: a Tour of Cooperative Approaches to Restoration in the Austin Creek Watershed

Tour Coordinators: John Green, Pacific Watershed Associates and Sierra Cantor, Fisheries Biologist, Sotoyome, Resource Conservation District, and Bob Coey, Dept. Fish and Game

The Austin Creek watershed harbors some of the best habitat in the Russian River basin, and is home to a number of federally-listed threatened and endangered species, including coho salmon, steelhead trout, and freshwater shrimp. The field tour will visit recently completed restoration projects ranging from upslope sediment reduction and native riparian re-vegetation projects to the "Lower Austin Creek Migration Improvement Project" near the confluence with the Russian River.

Prince Memorial Greenway Tour: The Benefits and Constraints of Urban Creek Restoration

Tour Coordinators: former Santa Rosa City Councilmember Steve Rabinowitsh, Steve Chatham, Principal of Prunuske Chatham, Inc., Supervising Engineer Dave Montague and Environmental Specialists Steve Brady and Alistair Bleifuss of the City of Santa Rosa Public Works Department.

A walking tour of Santa Rosa Creek: Discover how citizens sparked the transformation of a concrete lined channel into an award-winning greenway that provides environmental, social, and economic benefits to the community. Discussion of contaminated soils, flood protection, limited right-of-way, funding, and other obstacles to creek restoration in the urban environment.

Wild and Scenic Environmental Film Festival—Thursday 7-10pm

See back page for info.



A Rainbow Trout

drawing: courtesy Trees Foundation archive

Logistics on page 12

Conference events & sessions

Friday, March 9

Plenary Session 8:30 am to noon

Plenary Moderator: Seth Zuckerman, author of *Salmon Nation Taking Wood Out and Putting it Back in Again: A Generation of Salmonid Restoration in Marin and Sonoma Counties*, Liza Prunuske, Prunuske Chatham, Inc.

Coho Habitat Restoration in Urbanizing Watersheds: Beware Non-point Source Pollution, Nathaniel Scholz, Research Zoologist, Ecotoxicology and Environmental Fish Health Program, Northwest Fisheries Science Center

Climate Change and Watersheds, Freeman House, author of *Totem Salmon*

Climate Change and the Future of California Salmonids, Peter Moyle, Fisheries Biologist, University of California, Davis and author of *Inland Fishes of California*

Friday Afternoon Concurrent Sessions

The Future of California Salmon—Water Quality and Quantity Issues Downstream of Large Reservoirs

Session Chair: Tom Stokely, Trinity County Planning Dept.

Assessing Effects of Groundwater Accretion and Surface Water Flow on Temperatures in the Scott & Shasta Rivers, Bryan McFadin P.E. & Matt St. John, Water Resource Control Engineer, North Coast Water Quality Control Board

Addressing Low Flows in California TMDLs, Samantha K. Olson, Staff Counsel NCRWQCB

Inter-Relationships Between Water Quality/Quantity in Klamath/Trinity/Sacramento Systems, Michael Deas, Ph.D, P.E. Principal, Watercourse Engineering, Inc.

The Tribal Perspective on Water Quality and Quantity, Kevin McKernan, Director Yurok Tribe Environmental Program

Will We Run Out of Cold Water for Salmon During the Next Drought?, Tom Stokely, Trinity County Planning Department

The Scott River Experience with Water Code Section 1707 Water Transfers, Gary Black, Siskiyou County Resource Conservation District and Robert E. Donlan, Ellison, Schneider & Harris

Coho Recovery in California

Session Chair: Dave Lewis, UC Coop Ext.

NOAA Fisheries Coho Recovery Plan, Charlotte Ambrose, National Marin Fisheries Service North-Central California Coast Recovery Coordinator

CDFG Coho Recovery Plan, Manfred Kittle and Joe Pisciotto, California Department of Fish and Game Coho Recovery Planners

Russian River Coho Salmon Captive Broodstock Program, Louise Conrad, Pacific States Marine Fisheries Commission Hatchery Biologist and Mariska Obedzinski UC Cooperative Extension and Sea Grant Program Monitoring Coordinator

2007 Conference Registration Form

Coho Response to Habitat in the Lagunitas and Olema Creek Watersheds, Brannon Ketchum, Point Reyes National Seashore Hydrologist

The Role of Genetics in Coho Recovery, Carlos Garza, NOAA Fisheries Coho Recovery in Santa Cruz and San Mateo Counties, NMFS Santa Cruz Laboratory and Monterey Salmon and Trout Project

Salmonid and Watershed Education

Session Coordinator: Stephanie Lennox, Envirichment

The STRAW Project (Students and Teachers Restoring A Watershed), Brita Dempsey and Laurette Rogers, STRAW of the Bay Institute—Students and Teachers Restoring A Watershed

Creating the Cultural Conditions for Restoring the Lost Fish of the Yuba, Jason Rainey, Executive Director, & Jeff Martinez, RiverTeachers Director, South Yuba River Citizens League

Taking Action—Helping Students Plan and Implement an Environmental Project, Connie O’Henley, Executive Director, Sarah Paddock Education/Outreach Project Manager, Central Coast Salmon Enhancement

Salmon Camp Research Team, Dan Calvert, Program Coordinator, Salmon Camp Research Team

Place Based Education at Salmon Creek School, Laurel Anderson and two middle school students, Salmon Creek School

Evolving Towards Effectiveness: 8 Years of Bioassessment, Bugs and Human Behavior in Santa Rosa, California, Stephanie Lennox, Envirichment

Education and Grassroots Action: Two Integrally Linked Pieces of the Puzzle for Coho Recovery in the Lagunitas Watershed, Marin County, CA, Todd Steiner and Paola Bouley, Salmon Protection and Watershed Network (SPAWN)

Poster Session & Reception 7-10pm

Saturday, March 10

Saturday Morning Concurrent Sessions:

Measuring Watershed Condition and Management Performance

Moderator: Fraser Shilling, UC Davis

Measuring Watershed Condition and Management Performance, Fraser Shilling, Research Scientist, Department of Environmental Science and Policy, University of California, Davis

Aligning Socio-Economic and Ecological Condition Valuation, Rainer Hoenicke, Deputy Director, San Francisco Estuary Institute

Meeting and Measuring Water Quality Objectives, Lauma Jurkevics, Division of Financial Assistance, State Water Resources Control Board

CDFG Salmonid Habitat Indicators and Rating System, Scott Downie, Senior Biologist, Coastal Watershed Planning and Assessment Program, California Department of Fish and Game

Riparian and Aquatic Habitat Trajectory on North Coast Ranches, Michael Lennox, UC Cooperative Extension

Evaluating and Managing for the Effect of a Changing Climate on Stream Temperatures, Peter Miller, Department of Landscape Architecture and Environmental Planning University of California at Berkeley

State Framework to Measure Programmatic Performance, Stefan Lorenzato, Watershed Program, Department of Water Resources

Enhancement, Rehabilitation, and Restoration: What's the Difference and Why Should the Fish Care?

Session Coordinator: Eric Ginney, PWA Environmental Hydrology

An Overview of California Restoration to Date: The Big Picture Via the National River Restoration Science Synthesis (NRRSS), Shannah Anderson, UC Berkeley

Changing Restoration Paradigms: Research from the Russian River, Adina Merenlender, UC Berkeley

Stream Enhancement Projects: The Good, the Bad, and the Ugly, Betty Andrews, PWA Environmental Hydrology

Ecologically Meaningful Restoration and Rehabilitation: Considerations of Floodway Width, Scott McBain, McBain & Trush

Restoring the Lower San Joaquin River: Is it Reasonable?, John Cain, Natural Heritage Institute

Dynamic Geomorphic Processes, Human Impacts, and Floodplain Restoration, Joan Florsheim, UC Davis

Coastal Watershed Planning and Restoration

Session Coordinators: Karen Gaffney, West Coast Watershed, and Paola Bouley, SPAWN

Integrated Watershed Planning in North Coastal California, Karen Gaffney, Restoration Ecologist, West Coast Watershed

A Search for Better Tools to Measure Impairment or Recovery of Salmonid Populations, Charley Dewberry, Ecotrust, Portland

Watershed and Forest Restoration On Private, Rural Lands: New Insights From The Mattole Valley, Chris Larson, Mattole Restoration Council

Highly Impacted Tributaries of the Upper Lagunitas Watershed: Most Important Coho Spawning and Rearing Habitat?, Todd Steiner and Paola Bouley, Salmon Protection and Watershed Network (SPAWN)

Rincon Creek Watershed Plan, Michelle Bates, Tetra Tech, Inc. and Mauricio Gomez, Community Environmental Council

Homeless in the Creek? Do LWD Structures Work to Improve Coho Habitat: A Comparison Between Lagunitas Creek (Marin County) and the Pacific Northwest, Leslie Ferguson, UC Davis and Regional Water Quality Control Board

Coastal Marin Watershed Planning and Ecological Restoration, Brannon Ketcham, Point Reyes National Seashore.

Evaluating S.F. Estuary and South Coast Watersheds for Steelhead Restoration, Gordon Becker, Senior Scientist, Center for Ecosystem Management and Restoration

Saturday Afternoon Concurrent Sessions

Chinook Fisheries Closures: the Economic, Cultural, and Recovery Impacts

Session Coordinator: Zeke Grader, Pacific Coast Federation of Fishermen's Associations (PCFFA)

Responding to Disaster: Fishermen Actions to Address Fish Kill and its Impacts, Zeke Grader, PCFFA

Bringing the Klamath Salmon Back Home, Troy Fletcher, Fisheries Manager, Yurok Tribe

Local and Regional Impacts of Fishery Closures: A Klamath River Example, Guy Phillips, Economist

Native American Cultural Impacts of the Loss of Salmon, Jene McCovey, Yurok Tribal member and traditional storyteller

2006 Pacific Coast Fishing Disasters Ushers in Put-up or Shut-up Time on the Klamath River, Bill Kier, Kier and Associates

Toxic Cyanobacterial Blooms in Copco and Iron Gate Reservoirs, Susan Corum, Karuk Tribe Department of Natural Resources

North Coast Water Diversions: Can Coho Go with the Flow?

Session Coordinator: Rob Dickerson, Trout Unlimited

Invasive Plant Species: Landscape Scale Impacts to Aquatic Habitat, Water Quality & Quantity, Karen Gaffney, West Coast Watershed

Like Water for Coho: Solutions for Managing Water Diversions and Maintaining Instream Flows in Salmon and Steelhead Tributaries, Brian Johnson, Trout Unlimited

Upcoming TMDLs in the Russian River, Brian McFaddin, North Coast Regional Water Quality Control Board

Russian River Watershed Adaptive Management Plan, Dan Smith, USACE Engineering Research and Development Center

North Coast Regional Water Quality Control Boards Proposed Riparian, Floodplains, and Wetland Policy, Dave Hope, NCRWQCB

Stream Flow and Habitat Scaling Along a Spatial Gradient: Do Current Management Policies in Northern Coastal California Offer the Same Protections to Anadromous Salmonids Throughout the Drainage Network?, Mathew Deitch, UC Berkeley

The Mattole Flow Program: Effort and Experiences in the Restoration of Instream Flows, Tasha McKee, Sanctuary Forest

Summer Flow Variability and Juvenile Steelhead Survivorship in Russian River Tributary Streams, Ted Grantham, UC Berkeley

Regional Land Use Planning and Implementation Strategies in Aquatic Conservation

Session Coordinators: Bill Weaver and Danny Hagans, Pacific Watershed Associates

Setting Regional Priorities for Watershed Restoration, David Bayles, Executive Director, Pacific Rivers Council

California Water Law Can Help Salmon—A Short "How To" Guide, Alan Levine, Coast Action Group

Land Use, Water Quality and Stream Habitat—Is a New Strategy Needed in Rural Counties?, Mark Lancaster and Sandra Pèrez, Five Counties Salmonid Conservation Program, Trinity County Natural Resources Division

First Priority Implementation Strategies for Sediment Control in Ecologically Valuable Watersheds, Todd Kraemer, William Weaver and Danny Hagans, Pacific Watershed Associates

Planning and Implementation Strategies to Protect and Restore Aquatic Resources in the North Coast Region, Holly Lundborg, Associate Engineering Geologist, NCRWQCB

Cabaret & Banquet

6:00 pm Wild Salmon Banquet

7:00 Awards & Cabaret

8:30 pm Dance



Salmonid Restoration Federation