

# 39<sup>th</sup> Annual Salmonid Restoration Conference

April 19 - 22, 2022 Santa Cruz, CA

*Reconnecting with Resilience*



## Conference Co-Sponsors

Balance Hydrologics, Inc., Bruce Ashley Photography, California Trout - North Coast, California State Coastal Conservancy, CalTrans, cbec, inc., City of Santa Cruz-Water Branch, Cachuma Operation and Maintenance Board, East Bay Municipal Utility District, Environmental Science Associates, Eureka Water Probes, FISHBIO, GHD, Green Diamond Resource Company - CA Timberlands Division, Guadalupe-Coyote RCD, Hanford ARC, HDR, Inc., Humboldt and Mendocino Redwood Companies, ICF International, Marin Municipal Water District, McBain & Associates, Michael Love and Associates, MidPeninsula Regional Open Space District, Monterey Peninsula Water Management District, NOAA Restoration Center, Northern California Water Association, Pacific States Marine Fisheries Commission, Pacific Watershed Associates, Prunuske Chatham, Inc., Redwood Forest Operating Company, Restoration Design Group, RES, Redwood Forest Foundation, Inc. and Usal Redwood Forest Company, San Lorenzo Valley Water District, SHN, Solano County Water Agency, Sonoma Water, Stillwater Sciences, The Nature Conservancy, Trinity River Restoration Program/County RCD, Trout Unlimited, Valley Water, Waterways Consulting, Inc., Westervelt Ecological Services, Wildlife Conservation Board, WRA, Inc.



Thursday, April 21

Plenary Session

Cocoanut Grove Ballroom, 9am—noon

Master of Ceremonies  
Thomas Williams, Ph.D.,  
NOAA Fisheries

Salmon Fishing, More than a Sport:  
How Salmon are Vital to Native American Culture,  
Health, and Prosperity,  
Brook Thompson,  
Native Scholar, Stanford University

Adapting to Increasing Drought Intensity:  
Recommendations for Reform  
in Policies and Practice,  
Jeffrey Mount, Ph.D.  
Senior Fellow, Public Policy Institute of California

Answering the Question Most of Us are Afraid to  
Ask in Southern Salmon Restoration:  
Why Bother?,  
Sean A. Hayes, Ph.D.  
NOAA Fisheries Northeast Fisheries Science Center

Protecting and Restoring  
California’s Ocean Ecosystems,  
Margaret Spring,  
Chief Conservation and Science Officer,  
Monterey Bay Aquarium

SRF Annual Membership Meeting

Bay View Room

The Annual SRF Membership Meeting is open to all and offers an opportunity to meet other members as well as SRF’s dedicated Board of Directors and staff. SRF’s Executive Director, Dana Stolzman, will provide an update on our accomplishments over the past year as well as our plans and projects for the coming year. If you are interested in learning about serving on the SRF Board, please attend. SRF Board terms are two years and we have elected directors and appointed alternates.



12:15pm SRF Annual Membership Lunch in the Bay View Room, Cocoanut Grove. Outdoor lunch on the Aloha Terrace

Afternoon

Approaches for Management and  
Restoration of Central California  
Coastal Lagoons  
Session Coordinators:  
Dane Behrens, ESA, and  
Jim Robins, Alnus Ecological

Room Surf View Room, Dream Inn  
1:30pm Considerations for Management  
of the Mouth State of California’s  
Bar-built Estuaries,  
Kevin O’Connor  
Moss Landing Marine Labs

Logging, Leather, Lime, and  
“Lost Boys”: Reducing Limiting  
Factors for Anadromous  
Salmonids in the San Lorenzo  
River Lagoon,  
Chris Berry, City of Santa Cruz

Lessons Learned from 8 Years  
of Lagoon Management of  
the San Lorenzo River, Santa  
Cruz, California: Using Sand to  
Balance Ecological Function and  
Social Demands,  
David Revell, Ph.D.,  
Integral Consulting

Break 3:15-3:30pm Butano Marsh Channel  
Reconnection and Resilience  
Project: Design, Implementation  
and Preliminary Results,  
Chris Hammersmark, Ph.D., PE,  
and Ryan Dillar, State Parks

Pescadero Marsh:  
A Bar-Built Estuary’s  
Importance to Steelhead,  
Sean Cochran, CDFW,  
and Patrick Samuel, Cal Trout

Projecting Habitat Evolution in  
the Face of Sea Level Rise, a Case  
Study in Pescadero Marsh,  
Matt Jamieson, MFA,  
Integral Consulting

Concurrent Sessions

Drought Response: Identifying the  
Science, Policies and Projects Needed  
to Protect Fisheries and Water  
Resources in a Drying Climate  
Session Coordinators:  
Matt Clifford, Trout Unlimited;  
Monty Schmitt, The Nature Conservancy;  
and Redgie Collins, Cal Trout

Cocoanut Grove Ballroom  
Drought Planning in the Western  
United States: A Review of Drought  
Plans in the Western States and  
Recommendations for California’s  
Future Response,  
Dan Wilson,  
NOAA Fisheries, CA Coastal Office

Exploring Monthly Natural Flow  
Predictions and Applications  
to Dry Year Planning to Protect  
Aquatic Ecosystems,  
Julie Zimmerman, Ph.D.,  
The Nature Conservancy

Drought Response:  
An Overview, Lessons Learned,  
and Moving Forward,  
Erin Ragazzi, Division of Water Rights,  
State Water Resources Control Board

An Ecological Drought Indicator  
Framework for California,  
Ted Grantham, Ph.D., UC Berkeley

Watershed-scale Cooperative  
Solutions: Projects and Approaches  
to Increase Drought and Climate  
Resilience to Sreamflows,  
Fish Habitat and Water Supply  
in Coastal Watersheds,  
Mia van Docto, Trout Unlimited, and  
Monty Schmitt, The Nature Conservancy

Drought Resiliency in the Klamath  
Basin: The Yurok Tribe’s Strategies  
and Approach,  
Mike Belchik, Senior Fisheries Biologist,  
and Thomas Starkey-Owens,  
Water Program, Yurok Tribe

Considering Life-History Variation  
in Salmonid Restoration  
Session Coordinator:  
John Carlos Garza, Ph.D., UC Santa  
Cruz and NOAA Fisheries

Bay View Room, Cocoanut Grove  
Is It Just a Matter of Time? Allowing  
for Changing Phenology in Salmon  
Restoration and Management,  
Michael Tillotson, Ph.D., ICF  
A Multigenerational Pedigree  
Analysis Reveals the Potential  
for Selection on Steelhead  
Life-History Traits,  
Anne Beulke, UC Santa Cruz

Counting the Parts to Understand  
the Whole: Rethinking Monitoring  
of Steelhead in California’s  
Central Valley,  
Tyler Pilger, Ph.D., FISHBIO

Landscape and Life History  
Variation in Southern California  
Steelhead Recovery,  
Mark Capelli,  
National Marine Fisheries Service

Evaluating Estuary Residency and  
Restoration Potential for Chinook  
Salmon in Redwood Creek  
Via a Life Cycle Model,  
Emily Chen, UC Berkeley

Habitat Restoration to Support Life  
History Diversity for Coho Salmon  
in Small Coastal Streams,  
Darren Ward, Ph.D., Cal Poly  
Humboldt

Artificial Intelligence  
and eDNA: Emerging Technologies  
in Salmonid Monitoring  
Session Coordinators:  
Erik Young, Trout Unlimited and Skagit  
Fisheries Enhancement Group;  
and Gabe Rossi, Ph.D., Postdoctoral  
Researcher, UC Berkeley

Sun Room Terrace, Cocoanut Grove  
LOTIC: Convolutional Neural  
Networks and Their Place in  
Monitoring Migratory Fishes,  
Keane Flynn, MS Candidate,  
Aquatic Ecosystem’s Analysis Lab,  
University of Nevada Reno

Automated Salmonid Counting  
Using Sonar Data,  
Justin Kay,  
California Institute of Technology

Pedigree Analysis of Hatchery  
Steelhead from the Mad River,  
California Provides Insight  
into Life-history Patterns and  
Informs Management,  
Andrew Kinziger, Ph.D., Dept. of  
Fisheries Biology, Cal Poly Humboldt

Comparison of Standard and  
Environmental DNA Methods for  
Estimating Chinook Salmon Smolt  
Abundance on the Klamath River,  
Doyle Coyne, MS, Kinziger Lab,  
Cal Poly Humboldt

Comparison of Environmental DNA  
and Snorkel Surveys for Monitoring  
Fish Distributions in Rivers,  
Jason Shaffer, MS student,  
Cal Poly Humboldt

Environmental DNA, Snorkel  
Counts, and the Ratio Estimator:  
An Approach for Rapidly Estimating  
Total Juvenile Coho Salmon in a  
Small Stream,  
Dylan Keel, MS student,  
Kinziger Lab, Cal Poly Humboldt

7-10pm Poster Session and Reception in the Sun Room and Bay View Rooms, Cocoanut Grove

# April 21, Thursday Afternoon Lightning Talks

## Lightning Tales Where Wisdom Sails

Session Coordinators:

Eli Asarian, Riverbend Sciences, and Sarah Phillips, Marin Resource Conservation District

Sun Room, Cocoanut Grove, 1:30pm

Lessons Learned from 40 Years of Watershed Restoration,  
*Don Allan, Mad River Alliance*

How to Maximize Your Grant Writing Efforts,  
*Steve Madrone, Humboldt County Supervisor*

Creek Incision Prevention /Fish Habitat Creation,  
*Freddy Otte, City of San Luis Obispo*

A Few Nuanced Tips for Getting the Most Out of Large Wood-Loading Projects,  
*Tom Leroy, Pacific Watershed Associates*

Turning Forest Fuels into Instream Habitat to Benefit Long-term Ecological Function,  
*Brandt Gutermuth, Trinity River Restoration Program: Bureau of Reclamation*

Restoration Success While Negotiating with Disney Villains, Plus a Perspective on Time,  
*Alison Willy, SRF Board*

Perfect Is the Enemy of Good; A Pragmatic Restorationist's Perspective,  
*Mike Berry, CDFW and DWR*

When Failure Leads to a Plethora of Successes,  
*Sarah Phillips, Marin Resource Conservation District*

How I Began to Listen to Traditional Environmental Knowledge (TEK),  
*Michael Belchik, Yurok Tribal Fisheries Program*

Thinking Like a Natural Historian: Nature Nerd Nuggets from the Professor of Wonderment,  
*Brock Dolman, Occidental Arts & Ecology Center*

### Break 3:15pm

What Makes a Good Mentor and Why is a Mentor Important,  
*Ross Taylor, Ross Taylor and Associates*

Praise for Phil Pister's Species in a Bucket,  
*Eli Asarian, Riverbend Sciences*

So You Want To Be a Stream Scientist,  
*Bill Trush, Ph.D., Cal Poly Humboldt River Institute*

A Different Perspective and Uncomfortable Conversations,  
*Larry Notheis, California Conservation Corps*

Reflections on a Quarter Century in Waders,  
*Sarah Nossaman Pierce, California Sea Grant*

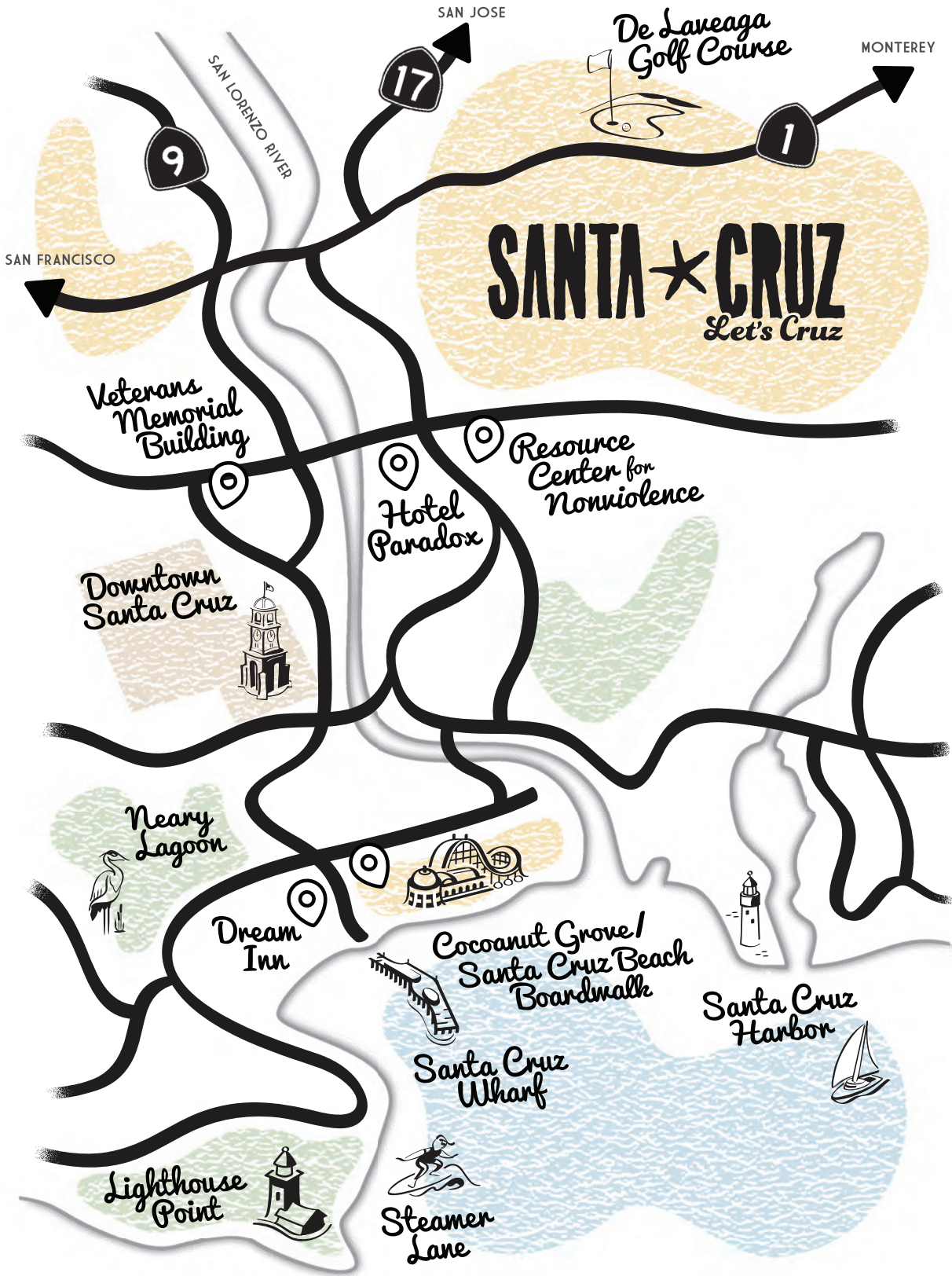
Effectively Engaging Elected officials and Public Agencies to Support and Advocate for Restoration and Conservation Projects,  
*Natalie Arroyo, Eureka City Council*

There Is No EGO in Ecosystem Restoration,  
*Anna Halligan, Trout Unlimited*

Teamwork Makes the Stream Work,  
*Elise Ferrarese, Trout Unlimited*

Cultivating Salmon-saving People and Partnerships,  
*Dave Kajtaniak, California Department of Fish and Wildlife*

## 7-10pm Poster Session Sun Room and Bay Terrace Room, Cocoanut Grove



### Distance Chart

	DREAM INN SANTA CRUZ	VETERANS MEMORIAL BUILDING	COCOANUT GROVE	HOTEL PARADOX	RESOURCE CENTER FOR NONVIOLENCE	DOWNTOWN SANTA CRUZ
DREAM INN SANTA CRUZ		1.1 MILES	0.3 MILES	1.2 MILES	1.2 MILES	1.1 MILES
VETERANS MEMORIAL BUILDING	1.1 MILES		1 MILE	0.5 MILES	0.5 MILES	0.2 MILES
COCOANUT GROVE	0.3 MILES	1.1 MILES		1 MILE	1 MILE	0.7 MILES
HOTEL PARADOX	1.2 MILES	0.5 MILES	1 MILE		0.1 MILES	0.5 MILES
RESOURCE CENTER FOR NONVIOLENCE	1.1 MILES	0.2 MILES	0.7 MILES	0.5 MILES		0.5 MILES
DOWNTOWN SANTA CRUZ	1.1 MILES	0.2 MILES	0.7 MILES	0.5 MILES	0.5 MILES	

April 22, Friday Morning Concurrent Sessions

Seascape Ecology: Growth, Survival, and Foraging in the California Current

Session Coordinators: Cynthia Le Doux-Bloom, Ph.D., Cal Poly Humboldt, and Nate Mantua, Ph.D., NOAA (SWFSC)

Beyond Physical Habitat: the Importance of Prey Availability and Productivity in Recovering Impaired Salmonid Populations

Session Coordinator: Robert Lusardi, Ph.D., UC Davis

Managing Non-native Predatory Fish in California's Salmon Bearing Streams

Session Coordinators: Philip Georgakakos, Ph.D., UC Berkeley; Gabriel Rossi, UC Berkeley, and Abel Brumo, Stillwater Sciences

Hydrologic Management for the Anthropocene

Session Coordinators: David Dralle, Ph.D., Pacific Southwest Research Station, Forest Service, and Tim Bailey, Watershed Research and Training Center

Opportunities for Collaboration: Tools and Initiatives for Increasing our Collective Impact

Session Coordinator: Analise Rivero, Cal Trout

Lagoons, Seascape Ecology, & Beyond Physical Habitat Concurrent Sessions

Dream Inn Meeting Room 175 West Cliff Drive, Santa Cruz



Dream Inn meeting room



Boardwalk walk from Coconut Grove to Dream Inn



The entrance to Coconut Grove is near the Poseidon mural.



Free COVID testings from 8am to 9am and Outdoor Lunches will be served on the Aloha Terrace.

Room

Beach View Room, Dream Inn

Surf View Room, Dream Inn

Sun Room Terrace, Coconut Grove

Coconut Grove Ballroom

Bay View Room, Coconut Grove

9:00am

Twenty-Two Years of Seascape and Salmon Studies on the Pacific West Coast, Nate Mantua, Ph.D., NOAA Fisheries, SWFSC

Salinity Tolerance and Smoltification Differences Between Winter, Fall and Spring-Run Chinook Salmon (Oncorhynchus tshawytscha) Brood Stocks, Leah Mellinger, University of California, Davis

Climate-Driven Variability in Zooplankton in Coastal Waters off Northern California: A Potential Ecosystem Indicator for Klamath River Chinook Salmon, Eric Bjorkstedt, Ph.D., NOAA Fisheries, SWFSC

Putting Fish and Fish Food in the Framework: Using Drift-Foraging Bioenergetics to Make Flow Recommendations, Suzanne Kelson, Ph.D., University of Nevada, Reno and McBain Associates

The Effects of Prey Density and Water Velocity on Capture Success of a Juvenile Salmonid, Kwanmok Kim, UC Santa Cruz and NOAA affiliate

Salmonids Return to Montezuma Wetlands after 150 Years: Fish Use and Productivity Trends in a Sediment Beneficial Reuse Restoration Site, Cassie Pinnell and Chris Jasper, Vollmar Natural Lands Consulting

Landscape-scale and Habitat-level Drivers of Fish Predation in the Sacramento-San Joaquin Delta, Cyril Michel, NOAA Fisheries

Spring Temperature Predicts Upstream migration Timing of Invasive Sacramento Pikeminnow in a Salmon-bearing River, Philip Georgakakos, UC Berkeley

Shade Affects Magnitude and Tactics of Juvenile Chinook Salmon Antipredator Behavior, Megan Sabal, Oregon State University

A Hydrospatial Approach to Measure Habitat Availability for Tidal Wetland Fishes, David E. Ayers, UC Davis

California's Stream Gaging Plan, Priorities for Future Gaging, and Analysis Tools, Valerie Zimmer, State Water Resources Control Board

EcoFIP: An Enhanced Method for Evaluating Large-scale, Multi-objective Floodplain Restoration Opportunities, Luke Tillmann, MS, cbec eco engineering

Moving from Coordination to Collaboration for Transformational Change, Kellyx Nelson, Executive Director, San Mateo Resource Conservation District

Public/Private Partnerships and Coalitions—Leveraging Skills and Avoiding Procurement Conflict, Lisa Hulette, MPA, MBA, WRA, Inc.

Regional Collaborations to Solve the Eel River's Aged and Outdated Hydropower Infrastructure at the Potter Valley Project, Darren Mierau, North Coast Director, Cal Trout

BREAK 10:30-10:45am

California Current Seascape Influences Juvenile Salmon Foraging Ecology at Multiple Scales, Megan Sabal, Ph.D., Oregon State University

Forage Fish Dynamics and Chinook Salmon Diets, John Field, Ph.D., NOAA Fisheries, SWFSC

Thiamine Deficiency in California Salmon: The Ocean is Impacting Freshwater Productivity, Rachel Johnson, Ph.D., NOAA Fisheries, SWFSC

Does "Wilding" Juvenile Chinook Salmon on Agricultural Floodplains Boost Survivorship in California's Central Valley?, Rachelle Tallman, Graduate Student, UC Davis

How BDAs Change Stream Food Webs: What Stable Isotopes Can Teach Us About Food Webs and Beaver Dam Analogs, Brandi Goss, Graduate Group in Ecology, UC Davis

Response of Coho Salmon Populations to Restoration Actions in the Context of Climate Change and a Multi-year Drought in Northern California, Michael Pollock, Ph.D., NOAA Fisheries

Tracking (and Trying to Stop) the Invasion of Sacramento Pikeminnow in the North Fork Eel River, Zane Ruddy, Bureau of Land Management

Pikeminnow Suppression: A Big Success in a Small Watershed, Ken Jarrett, Stillwater Sciences

Informing Management Strategies for Non-native Salmonid Predators Through Applied Ecological Studies: Lessons Learned from the Stanislaus River, Matthew Petersen, FISHBIO

Notes from Underground: The Hydrological Underpinnings of Watershed Response to Drought Across California, David Dralle, Ph.D., Research Hydrologist, Forest Service

Thermal Stratification of River Pools—Field and Numerical Modeling Study, Todd H. Buxton, Ph.D., Bureau of Reclamation

A Hydrologic Baseline for Quantifying Groundwater Contribution to Flows Supporting Critical Salmonid Rearing—Accretion in the San Lorenzo River System, Santa Cruz County, California, Barry Hecht, Balance Hydrologics

High-resolution Water Budget Hydrology to Support Collaborative Water Management for Salmonid Recovery, Mill Creek Watershed, Navarro River, California, Christopher Woltemade, Ph.D., Shippensburg University and Prunuske Chatham

Redwood Creek Estuary Stakeholders Group; Using Strong Collaborative Process to Build Relationships and Trust, Mary Burke, Cal Trout, and Leslie Wolff, NOAA Fisheries

Establishing a Respected Ecological Workforce, Mark Cederborg, Hanford; Jim Robins, Alnus Ecological; and Sally Bolger, Ecological Workforce Initiative

12:15pm

Lunch outside at Coconut Grove Aloha Terrace

# April 22, Friday Afternoon Concurrent Sessions

## Seascape Ecology: Nearshore Habitat Variability and Juvenile Salmon Survival and Distribution

Session Coordinators: *Cynthia Le Doux-Bloom, Ph.D., Cal Poly Humboldt, and Nate Mantua, Ph.D., NOAA Fisheries, SWFSC*

## Beyond Physical Habitat: the Importance of Prey Availability and Productivity in Recovering Imperiled Salmonid Populations

Session Coordinator: *Robert Lusardi, Ph.D., UC Davis*

## Creating Opportunities for Community Involvement to Address Common Urban Stream Management Issues

Session Coordinator: *Jessica Hall, California Urban Streams Partnership*

## Mountain Meadows: Restoring Functions in Headwater Catchments under Changing Climate and Wildfire Regimes

Session Coordinators: *Jay Stallman, Stillwater Sciences and Gabrielle Bohlman, U.S. Forest Service*

## Climate, Habitat, and Genetic Factors Influencing Salmonid Success

Session Coordinator: *Rachel Shea, Michael Love & Associates*

Room

Beach View Room, Dream Inn

Surf View Room, Dream Inn

Sun Room Terrace, Cocoanut Grove

Cocoanut Grove Ballroom

Bay View Room, Cocoanut Grove

1:30pm

An Ecosystem Model Framework to Predict Historical and Future Ocean Conditions Impacting Juvenile Salmon off Central California, *Jerome Fietchter, Ph.D., University of California, Santa Cruz*

Can We Use an Ocean Productivity Model to Estimate Juvenile Salmon Early Ocean Survival? *Mark Henderson, Ph.D., U.S. Geological Survey*

Juvenile Chinook Salmon Growth and Survival after Ocean Entry off Central California: Top-down and Bottom-up Effects in an Individual-Based Model, *Kelly Vashinder, Ph.D., University of California, Santa Cruz*

How Physical Habitat and Prey Abundance Interact to Shape the Growth Opportunities of Salmonids: Examples from Bristol Bay to the Klamath Basin, *Jonny Armstrong, Ph.D., Oregon State University Department of Fisheries, Wildlife, and Conservation Science*

Making a Living in a Seasonal Lagoon: Interactions Among Water Temperature, Prey Availability, and Juvenile Salmonid Growth, *Rosealea M. Bond, UC Santa Cruz and NMFS Southwest Fisheries Science Center*

Puddle Power and the Pivot to Process: A Landscape-scale Recipe to Allow the Sacramento Valley to Make Salmon Again, *Jacob Katz, Ph.D., Cal Trout*

Addressing Property Owner Fears of Creeks, *Jessica Hall, California Urban Streams Partnership*

Engage, Educate, and Empower: Motivating Communities to Get on Board with Restoration in Their Backyards, *Sarah Phillips, Marin Resource Conservation District*

Coalition and Community-based Endangered Steelhead Recovery in Southern California, *Sandra Jacobson, Ph.D., Cal Trout*

Restoring Ecological Function to California's Montane Meadows, *Karen Pope, Ph.D., U.S. Forest Service Pacific Southwest Research Station*

Effects of Twenty Years of Climate Warming and Livestock Grazing on High Elevation Meadows in the Golden Trout Wilderness, *Devyn Orr, Ph.D., USDA ARS*

LTPBR in Sierra Nevada Meadow Systems: A Case Study from the Golden Trout Wilderness, *Sabra Purdy, Trout Unlimited and Anabranch Solutions*

Minimum Flows to Support Smolt Outmigration During Drought, *Brian Kastl, UC Berkeley*

California Drought Influences Steelhead Productivity through Impacts on Spring Smolt Conditions, *Haley Ohms, NOAA SWFSC and UCSC*

Restoration Elements of the Klamath River Renewal Project, *Dan Chase, RES*

BREAK  
3-3:15pm

Integrating Coded-Wire Tags and Genetic Stock Identification in State-Space Models to Characterize Marine Distributions of California's Chinook Salmon, *Alexander Jensen, Ph.D., University of Washington*

Ocean Distribution of West Coast Chinook Salmon Inferred from Coded-Wire-Tags and Genetic Data, *Will Satterthwaite, Ph.D., NOAA Fisheries, SWFSC*

Panel Discussion for AM and PM Seascape Ecology Sessions

Coupling Habitat and Prey Supply with Juvenile Chinook Salmon Growth and Production in the San Joaquin River Restoration Project, *Steve Blumenshine, Ph.D., CSU-Fresno CA Water Institute*

Defining a Basin-scale Restoration Framework to Recover an Endangered Species. An Optimization-Simulation Approach using a Life Cycle Model, *Dr. Francisco Bellido-Leiva, UC Davis*

Reconnecting Salmon with the Productive Capacity of Their Watershed, *Gabriel Rossi, Ph.D., UC Berkeley*

Community-involved Creek Restoration in the Walnut Creek Watershed, *Heather Rosmarin, Friends of Pleasant Hill Creeks*

Planting a Dream: A Community Designed Urban Park Connects People and Nature, *Chelsea Neill, PG, Balance Hydrologics*

Engaging Community to Protect the Pinole Creek Watershed: Assessment of Trash Impacts to Promote a Thriving Ecosystem, *Ann Moriarty, Friends of Pinole Creek Watershed*

The Hundred-Year Summer —PBR, Fire, Flood, and the Return of Beavers to Tasmam Koyom, *Kevin Swift, Swift Water Design*

A Decade of Data and Lessons Learned from Restoring a Sierra Meadow Complex, *David Sharw, PG, Balance Hydrologics*

Restoring Headwaters along Davy Brown Creek in the Los Padres National Forest, *Mauricio Gomez, South Coast Habitat Restoration*

Restoring Key Salmon Habitat in the Klamath River to Increase Population Resilience to Climate, Drought, and Wildfire Impacts, *Will Harling, Mid-Klamath Watershed Council*

Running the Gauntlet: the Burdens of Aquatic Pathogens and River Conditions on California's Central Valley Chinook Salmon, *Camilo Sanchez, UC Davis*

Conservation and Restoration of Adaptive Genomic Variation, *Devon Pearse, NMFS*

Factors Affecting Spatiotemporal Variation in Survival of Endangered Winter-Run Chinook Salmon Outmigrating from the Sacramento River, *Jason Hassrick, ICF Fish and Aquatic Sciences*

6:30pm

Banquet, Awards Ceremony, and Dance at Cocoanut Grove Ballroom

Friday, April 22  
6:30pm

Cocoanut Grove Ballroom

## 2022 SRF Banquet & Awards Ceremony



Anna Halligan and Mary Ann King of Trout Unlimited received the illustrious Restorationist of the Year in 2019.

## Live Music Papiba and Friends of Sambada



Who will be the  
Restorationist of the Year?

# 39<sup>th</sup> Annual Salmonid Restoration Conference at a Glance

Tuesday

Workshop registration at Hotel Paradox Ballroom Foyer  
Field Tour registration at Resource Center for Non-Violence

## Workshops and Field Tours 9am - 5pm

**Fish Passage Design for  
Road Crossings Workshop**  
Hotel Paradox Room D

**Restoration Approaches  
to Instream Large Wood  
Augmentation Workshop**  
Hotel Paradox Room B & C

**All Field Tours Depart from the  
Center for Non-Violence Across  
the street from Hotel Paradox**

**Salmonid Recovery  
in the San Lorenzo River  
Tour**

**Scott Creek Field Tour:  
Ground Zero for Central  
California Coast Coho  
Salmon Recovery Tour**

**Los Padres Fish Passage  
Field Tour**

Wednesday

## Workshops and Field Tours 9am - 5pm

**Fish Passage Design for  
Road Crossings Workshop**  
Hotel Paradox Room D

**Low-Tech Process-based  
Restoration with Beaver  
and Wood Workshop**  
Hotel Paradox Room B & C

**California Environmental  
Flows Framework Workshop**  
Hotel Paradox Room A

**All Field Tours Depart from the  
Center for Non-Violence Across  
the street from Hotel Paradox**

**It Takes a Watershed:  
Fisheries Recovery in  
the Butano / Pescadero  
Watershed Tour**

**Rancho Cañada Restoration  
Project Tour**

**San Gregorio Tour**

**6pm Membership Dinner  
Santa Cruz Veteran's  
Memorial Center**



Thursday

8 - 9am Registration at Cocoanut Grove Lobby

## Plenary Session 9am - noon

**Brook Thompson**  
**Jeffrey Mount, Ph.D.**  
**Sean A. Hayes, Ph.D.**  
**Margaret Spring**

Cocoanut Grove Ballroom

**Lunch 12:15 - 1:15pm  
in Bay Terrace Room**  
**Annual Membership Meeting**

## Afternoon Concurrent Sessions 1:30 - 5pm

**Lagoons**  
Surf View Room, Dream Inn

**Drought Response**  
Cocoanut Grove Ballroom

**Lightning Tales**  
Sun Room, Cocoanut Grove

**Life-History**  
Bay View Room, Cocoanut Grove

**Emerging Technologies**  
Sun Room Terrace, Cocoanut Grove

**7-10pm Poster Session**  
Sun Room and Bay View Room,  
Cocoanut Grove

Friday

## Morning Concurrent Sessions 9am - 12pm

**Seascape Ecology 1**  
Beach View Room, Dream Inn

**Beyond Physical Habitat 1**  
Surf View Room, Dream Inn

**Hydrology**  
Cocoanut Grove Ballroom

**Collaboration**  
Bay View Room, Cocoanut Grove

**Non-Native Species**  
Sun Room Terrace, Cocoanut Grove

## Lunch 12:30 - 1:30pm

## Afternoon Concurrent Sessions 1:30 - 5pm

**Seascape Ecology 1**  
Beach View Room, Dream Inn

**Beyond Physical Habitat 2**  
Surf View Room, Dream Inn

**Urban Streams**  
Sun Terrace Room, Cocoanut Grove

**Mountain Meadows**  
Cocoanut Grove Ballroom

**Factors for Salmonid Success**  
Bay View Room, Cocoanut Grove

**6:30pm Banquet**  
Cocoanut Grove Ballroom



Design & Layout by  
Trees Foundation