

SAN JOAQUIN RIVER
RESTORATION PROGRAM



PROGRAM

2018 San Joaquin River Restoration Program Science Meeting

Collaborating for the Future

DAY 1

(AUGUST 22)

8:30 am Venue opens

9:00 am – 9:20 am Opening Remarks – Don Portz, Program Manager, San Joaquin River Restoration Program, U.S. Bureau of Reclamation

9:20 am – 11:30 am **Session 1 – Upper Watershed Science and Hydrologic Forecasting**

Moderator: Chad Moore, Restoration Flow & Science Coordinator, San Joaquin River Restoration Program, U.S. Bureau of Reclamation

Speaker 1: Michael Anderson, Ph.D., P.E., State Climatologist, California Department of Water Resources
Observations and Expectations of a Warming World and the San Joaquin Watershed

Speaker 2: Kat Bormann, Project Scientist, Airborne Snow Observatory, National Aeronautics and Space Administration – Jet Propulsion Laboratory

The Airborne Snow Observatory: high-quality snow measurements for the entire watershed

Speaker 3: Scott Havens, Ph.D., U.S. Department of Agriculture, Agricultural Research Service
Operational physical based snow modeling integrated with ASO: advancements and challenges in WY2018

Speaker 4: Mohammad Safeeq, Ph.D., Assistant Adjunct Professor, University of California-Merced
Hydrologic Response to Disturbance and Forest Fuel Treatments in Sierra Nevada

Speaker 5: David Rizzardo, P.E., Chief, Snow Surveys Section/Water Supply Forecasting, California Department of Water Resources

Modernizing the Snow Surveys Program to Improve Runoff Forecasting

Speaker 6: Rufino Gonzalez, P.E., South-Central California Area Office, U.S. Bureau of Reclamation
Managing Millerton Lake Water Supply Forecast and Allocations

11:30 am – 1:00 pm **Lunch on your own**, farmers market across the street at Cesar Chavez Plaza
Poster presenters – please make sure your poster is up by lunchtime

1:00 pm – 2:00 pm **Janine M. Castro, Ph.D., R.G.**
Geomorphologist, U.S. Fish and Wildlife Service and National Marine Fisheries Service, and Technical Director of the PSU River Restoration Professional Certificate Program
“Restoration through Collaboration – Examples from the Pacific Northwest”

2:00 pm – 3:30 pm **Session 2 – Groundwater and Subsidence**

Moderator: Mark Morberg, P.L.S., Chief of Surveys and Mapping Branch, U.S. Bureau of Reclamation

Speaker 1: Jonathan Traum, P.E., U.S. Geological Survey
Monitoring, Data Analysis, and Numerical Simulations of Land Subsidence in the San Joaquin Valley

Speaker 2: Sothea Oeun, Engineer, Water Resources, California Department of Water Resources
Subsidence Impacts on Flow Capacity along the San Joaquin River and Eastside Bypass

Speaker 3: Jarrett Martin, P.E., Central California Irrigation District
A Viable Solution to Subsidence in California

Speaker 4: Steve Ottemoeller, Water Resources Manager, Friant Water Authority
Subsidence – A Critical Challenge to Friant-Kern Canal Water Deliveries

3:30 pm – 5:00 pm **Poster Session**

5:00 pm **Day 1 Ends**

DAY 2

(AUGUST 23)

8:00 am Venue opens

8:30 am - 10:20 am **Session 3 – Managed Flows for Restoration: Growing Fish and Food in the San Joaquin Valley**

Moderator: Tom Johnson, Restoration Administrator, San Joaquin River Restoration Program

Speaker 1: Peter Vorster, Hydrogeographer, The Bay Institute & San Joaquin River Technical Advisory Committee

Assessing and Managing San Joaquin River Flow Gains and Losses

Speaker 2: Steve Ottemoeller, Water Resources Manager, Friant Water Authority

Water Management Challenges and Opportunities

Speaker 3: Tom Johnson, Restoration Administrator, San Joaquin River Restoration Program

Block Flows and Pulse Flows: Putting Theory into Reality

Speaker 4: Scott McBain, San Joaquin River Technical Advisory Committee

100 Degrees and 267 Miles to Go: Water Temperature Management Considerations in the Upper San Joaquin River

10:20 am - 10:40 am Break

10:40 am - 11:30 am **Pop up talks!**

Benefits of the Open and Transparent Water Data Act for the San Joaquin River Restoration Program

Mark Tompkins, San Joaquin River Restoration Program Technical Advisory Committee

Multi-Benefit Weed Control: The San Joaquin River Invasive Species Management and Jobs Creation Project

Jeff Holt, River Partners

Floodplain Grading and Revegetation Preliminary Design of Reach 2B

Blair Greimann, U.S. Bureau of Reclamation

Two-dimensional Hydraulic, Vegetation, and Sediment Modeling of Preliminary Reach 2B Improvements

Dan Dombroski, U.S. Bureau of Reclamation

A Tool for Predicting the Effect of Flow and Sand Accumulation on Salmonid Egg Survival

Matthew A. Meyers, Ph.D., P.G., California Department of Water Resources

The Floodplain Expansion and Ecosystem Restoration Project at Dos Rios Ranch

Jason Faridi, River Partners

Trinity River Restoration Program Overview

Caryn Hunt DeCarlo, Executive Director, Trinity River Restoration Program

Trinity River Restoration Program Outreach

Kevin Held, Outreach Coordinator, Trinity River Restoration Program

11:30 am - 1:00 pm Lunch on your own

1:00 pm - 2:30 pm **Session 4 – Overcoming Obstacles in Improving Fish Passage in California Waterways**

Moderator: Paul Romero, Supervising Engineer, California Department of Water Resources

Speaker 1: Jeremy Lorberau, P.E., Technical Services Center, U.S. Bureau of Reclamation

Numerical and Physical Modeling of the Compact Bypass Control Structure and Fish Ladder

Speaker 2: Alexis Phillips-Dowell, P.E., California Department of Water Resources

Chowchilla Bypass Fish Passage Dilemma

Speaker 3: Seth Gentzler, P.E., AECOM

Fish Passage Design Challenges Associated with the San Clemente Dam Removal Project

DAY 2

(AUGUST 23 - CONTINUED)

Speaker 4: Anne Elston, Pacific States Marine Fisheries Commission

Statewide Inventory of Anadromous Fish Passage Barriers and Its Importance in Restoring Habitat Connectivity

2:30 pm - 2:50 pm Break

2:50 pm - 5:00 pm **Session 5 – Spring-run Chinook Salmon: Understanding and Rebuilding the Central Valley's Most Prolific Historical Run**

Moderator: Donnie Ratcliff, Central Valley Supervisor, U.S. Fish and Wildlife Service

Speaker 1: John Carlos Garza, National Oceanic and Atmospheric Administration – Southwest Fisheries Science Center and University of California Santa Cruz

Genetic Analysis Informs Reintroduction of Spring-run Chinook Salmon to the San Joaquin River

Speaker 2: Paul Adelizi, California Department of Fish and Wildlife

Interim Salmon Conservation and Research Facility Operations for the SJRRP

Speaker 3: Pat Ferguson, California Department of Fish and Wildlife

Spring-run Holding and Spawning

Speaker 4: Zachary Sutphin, U.S. Bureau of Reclamation

San Joaquin River Rotary Screw Trap Monitoring

Speaker 5: Colby Hause, University of California Davis

Spring-run Smolt Survival from the Restoration Area to the Ocean

Speaker 6: Hilary Glenn, National Marine Fisheries Service

The Status of Central Valley Spring-run Chinook Salmon

5:00 pm Meeting Adjourns

5:30 pm Please make sure all posters are removed by 5:30 pm