2025 Poster Program

Table of Contents

Adaptation and Resilience

Delta Conservancy Proposition 4 Grant Program
Anji Shakya, Sacramento-San Joaquin Delta Conservancy

Operationalizing Equity in Nature-Based Coastal Adaptation: Assessing Practitioner Perspectives from the San Francisco Bay, California
Olivia Won, University of California, Santa Cruz & San Francisco Bay National Estuarine Research Reserve & University of California, Berkeley

Enhancing Resilience through Conventional and Nature-Based Solutions: A Flood Risk Reduction Strategy for an Urban Estuarine System in the Philippines
Jeffrey Reyes, University of the Philippines, Los Baños

Greening the Gray: Experimental Tests of Living Seawall Approaches to Renovating San Francisco's Seawall
Andrew Chang, Smithsonian Environmental Research Center - West

Living Breakwaters in SF Bay
Austin Payne, Upright Engineering

Advancing Collaborative Science

Assessing the Impact of Delta Science Program Funded Research on Decision Making in the Delta
Ash Zemenick, Delta Stewardship Council

Science Action Agenda Snapshot Progress Summary
Ash Zemenick, Delta Stewardship Council

Delta Stewardship Council Update to the Delta Science Plan
Hollis Jones, Delta Stewardship Council

Launching a Regional Climate Science Consortium
Jessica Bode, Coastal Policy Solutions

Laying the Foundation for a Delta Modeling Collaboratory: A Project-based Collaborative Modeling Approach to Complex Management Challenges
Maggie Christman, Delta Stewardship Council

Climate Change

Extreme Climates Modify Aquatic Macroinvertebrate Community's Responses to Environmental Variability
Pin-Yuan Chen, University of California, Davis

Effects of Ocean Acidification and Nutrient Additions on Invasive Amphipod Herbivory of Eelgrass in San Francisco Bay
Amy M. Yoger, Estuary & Ocean Science Center, San Francisco State University

Can An Eelgrass Dominated Bay Ameliorate Acidification In An Urban Estuary?
Mehak Suji, WRA, Inc.

Community Engagement and Science

Blooming Plankton of Lake Merritt, Oakland CA
Janai Southworth, Rotary Nature Center Friends & San Francisco Microscopical Society

Tracking Aquatic Invertebrates in an Urbanized Estuary - Keeping an Eye on Oakland's Lake Merritt in 2022-2023
Richard Hasegawa, Rotary Nature Center Friends

Lake Merritt Underwater - Views Before and After Environmental Catastrophes
David K. Wofford, Rotary Nature Center Friends

The Waters of Lake Merritt, Oakland, California
David Wofford, Rotary Nature Center Friends

Chinook Salmon Occurrences in Lake Merritt, Oakland, California, from 2021 to 2025
Katharine M. Noonan, Lake Merritt Institute

Dissolved Oxygen in an Urban Tidal Estuary - Oakland CA's Lake Merritt 2022- 2025
Sheesam Gurung, Rotary Nature Center Friends & New Voices Are Rising, Rose Foundation

California Naturalist Certification Courses: Providing Equitable Access to Nature and Stewardship for the Generations of Naturalists to Come
David K. Wofford, Rotary Nature Center Friends

Scout's Adventure to Coyote Creek: Connecting K–5 Students to Nature through On-Campus Performance Art
Molly Curtis, Keep Coyote Creek Beautiful

Participatory Science Networks for a Trash-Free SF Bay
High School Interns High School Interns, Earth Team

Can Citizen Scientists Determine the Bay Area Stream Type of Local Creeks Using a Smartphone App?
Ari Pasternack, Davis Senior High School

Degradation of Baylands Ecological Density and Flood Risk in the San Francisco Bay: A UAS-Based Study
Srivathsan Ramanujam, NorCal Conservation & Archbishop Mitty High School

Women+ of Wildlife Annual Resource Retreat: A Case Study on the Importance of Dedicated Spaces for Marginalized Groups in Wildlife
Carla Angulo, WRA Environmental Consultants

Data/Tools

Marsh Phenology from Remote Sensing: Multi-scale Indicators for Wetland Functions and Change
Iryna Dronova, University of California, Berkeley

Building a Process-Based Biogeochemical Model to Improve Net Ecosystem Carbon Balance Estimates in Tidal Wetlands
Inbar Amitay, California State University, East Bay

Geomorphic River Reach Classification for Streams in the San Francisco Bay Area
Zhihao Wang, University of California, Davis

The Bay Adapt Currents Dashboard: Metrics that Move with the Tides
Katie Fallon, San Francisco Bay Conservation and Development Commission (BCDC)

Ecological Restoration

Heron's Head Park Shoreline Resilience Project: Observations from Two Years of Post-Construction Monitoring
Eddie Divita, Environmental Science Associates

Nature-Based Shoreline Erosion Protection and Habitat Levee Reconstruction at the Sears Point Tidal Wetland Restoration Project
Stuart Siegel, Siegel Environmental

Natural Sedimentation: Sears Point Tidal Wetland Restoration
Stuart Siegel, San Francisco Bay National Estuarine Research Reserve

Hydrologic Improvements to a Centennial Tidal Marsh: The Sonoma Creek Marsh Enhancement Project
Dan Gillenwater, Gillenwater Consulting

The Role of Mitigation Banks in San Francisco Bay Estuary Recovery
Trevor Kumec, Resource Environmental Solutions (RES)

Tracking Lateral Carbon Fluxes Across Salinity and Land-Use Gradients to Inform Estuarine Restoration and Resilience
Brandon Broach, California State University, East Bay

Fish in the Estuary

Dispatch from the Bay's Fish Passage Renaissance: Reconnecting Wildcat Creek
Ariel Frink, FlowWest

Assessing the Life History of Central Valley Steelhead Using Otoliths
Feng Zhao, UC Davis

Assessing Longfin Smelt Age, Maturation, Fecundity and Life History within the San Francisco Estuary
Alex Lama, UC Davis

Fish in the Estuary (continued)

A Multi-gear Approach to Evaluate Impacts of the San Francisco Bay Living Shorelines Project on Fish Community Abundance and Diversity
Matea Djokic, FISHBIO

Advancing Scientific Understanding and Management of the Delta Through a Food Web Perspective
Jonathan Huang, Delta Stewardship Council

Impacts of the 2022 Harmful Algal Bloom on Green and White Sturgeon in the San Francisco Estuary
Jim Hobbs, UC Davis

Fish Communities across the Estuary: Spatial Community Analysis
Jim Hobbs, UC Davis

Elasmobranchs in Lower South SF Bay (LSB)
James Ervin, University of California, Davis

Flatfishes in Lower South SF Bay (LSB)
James Ervin, University of California, Davis

Gobiids in Lower South SF Bay (LSB)
James Ervin, University of California, Davis

Clupeiforms in Lower South San Francisco Bay.
James Ervin, University of California, Davis

Longfin Smelt across the Estuary
Levi Lewis, UC Davis

Monitoring Aquatic Species Responses to Tidal Wetland Restoration in the San Francisco Estuary
Jim Hobbs, UC Davis

Science Communication

Delta Science Tracker: Advancing collaboration and transparency for One Delta, One Science
Maggie Christman, Delta Stewardship Council

Delta Plan Success Metrics Inform Management Priorities
Martina Koller, Delta Stewardship Council

"Science is Life" = What 10 Experts Say about the Estuary and Bay–Delta and How it Sustains Life in California
Lauren Muscatine, UC Davis

Sediment

Watershed Sediment Supply into the Future: A Case Study for the Petaluma River
Kyle Stark, San Francisco Estuary Institute

Monitoring Suspended Sediment Flux from Fluvial and Estuarine Sources in Tidal Slough Habitats of South San Francisco Bay
Joseph Verdian, Stillwater Sciences

Bay Sands: Sources, Transport, and Supply - What We've Learned
Brenda Goeden, Bay Conservation and Development Commission

Species and Communities

Analyzing Ballast Water Treatments, Invasive Species, and Pathogens, and A Decade-Long Analysis on the San Francisco and Baltimore Ports
Jasmin Ibarra-Cortes, University of San Francisco

Bird Nests as Botanical Time Capsules
Justen Whittall, Santa Clara University

"Corm Condos": Nesting on the Bay Bridge is an urban estuary success story
Meredith Elliot, Point Blue Conservation Science

Rapid Recolonization by California Black Rails of Restored Tidal Wetlands in Suisun Bay
Leonard Liu, Environmental Science Associates

Gray Whale Influx and Mortality in San Francisco Bay, 2018-2025
Josephine Slaathaug, The Marine Mammal Center & Sonoma State University

Investigating Body Condition, Skin Condition, and Behavior of Gray Whales (Eschrichtius robustus) During Year of Record Presence in San Francisco Bay
Adelle M. Wilkin, The Marine Mammal Center

Evaluating San Francisco Bay as Gray Whale (*Eschrichtius robustus*) Foraging Grounds Following an Unusual Mortality Event
Aalea Grimes, The Marine Mammal Center

State of the Conservation and Management of the Salt Marsh Harvest Mouse
Katie Smith, WRA Environmental Consultants & Mammalian Ecology and Conservation Unit, UC Davis

Water Quality

Nutrient Attenuation Trend Observations in Lower South Bay
Ayish Ghanesh, San José-Santa Clara Regional Wastewater Facility

Does Stratification Drive Harmful Algal Blooms in the Stockton Deep Water Channel?
Sienna White, UC Berkeley

Baseline Monitoring of Water Quality and Mercury from Fluvial and Estuarine Sources in Tidal Slough Habitats of South San Francisco Bay
Maia Singer, Stillwater Sciences

Metal Bioaccumulation Patterns in Mollusks: A Literature Review
Allison Luengen, University of San Francisco

Fate of PFAS in Horizontal Levees Treating Municipal Wastewater
Anthony DeSalvo, University of California, Berkeley

Water Quality (continued)

From Stormwater to Safe Seafood: Tackling PCBs in the San Francisco Bay
Lisa Sabin, EOA, Inc.

Watershed-Level Planning for Sustainable Water Resource Management in Santa Clara County
Heidi Williams, Santa Clara Valley Water District

Geochemical Lessons Learned from a 10-year Investigation of a Small Oakland Watershed-lake-creek System
Kristina Faul, Mills College at Northeastern University