

October 10–11, 2017

Scottish Rite Center, 1547 Lakeside Drive, Oakland, CA

State of the **13th Biennial** San Francisco Estuary Conference

GREAT EGRET: VERNE NELSON

Plenary Program **TUESDAY, OCTOBER 10, 2017**

9:00 AM **Welcome**

9:05 AM **Have Fun Storming the Castle: Working Together for a Healthy Estuary Today**
Amy Hutzler, Deputy Executive Officer, State Coastal Conservancy

9:20 AM **Ways of Seeing, Tales to Tell: John Steinbeck, Ed Ricketts, and “The Bay as It Is”**
Mary Ellen Hannibal, Author, “Citizen Scientist: Searching for Heroes and Hope in an Age of Extinction,”
and “The Spine of the Continent”

9:45 AM **Restoration Lessons from the Past**
Philip Williams, Past-President, Philip Williams and Associates

10:05 AM **Investing in California’s Conservation Future: Science, Balance, Action, and Results**
Paul Souza, Pacific Southwest Regional Director, U.S. Fish and Wildlife Service

10:25 AM **Outstanding Environmental Awards**

Presenter: Alexis Strauss, Acting Regional Administrator, EPA Pacific Southwest Region

10:40 AM **BREAK**

Leaders on Protecting the San Francisco Estuary

11:00 AM **Moderator:** Greg Dalton, Climate One

Panel Members:

John Laird, California Secretary for Natural Resources
Bob Wieckowski, California Senator, District 10
Rob Bonta, California Assemblymember, District 18
Dave Pine, Supervisor, County of San Mateo

12:00 PM **Estuary Legacy Award**

Presenter: Sam Schuchat, Executive Officer, State Coastal Conservancy

12:15 PM **LUNCH**

Lake Merritt Site Visit

Participants can pick up their lunch and cross the street to participate in a 20-minute lunchtime site visit and presentation on the shoreline of lake merritt (approximate start time is 12:35 pm).

Concurrent Sessions TUESDAY AFTERNOON, OCTOBER 10, 2017

Habitats & Living Resources

A Decade of Adaptive Management: South Bay Salt Pond Restoration Project

- 1:35 PM **Introduction**
Cheryl Strong, USFWS
- 1:40 PM **Sediment: The Macro and Micro of Patterns in the South Bay**
Maureen Downing-Kunz, USGS and John Callaway, USF
- 2:05 PM **Mercury: Physical and Biological Insights**
Darell Slotton, UC Davis
- 2:30 PM **Snowy Plovers: Doing More with Less?**
Karine Tokatlian, SFBBO
- 2:55 PM **South Bay Salt Pond Restoration Project: How are We Doing and Where are We Going?**
John Bourgeois, South Bay Salt Pond Restoration Project

3:20 PM **BREAK**

The Future of Restoration: The Low-Hanging Fruit is Gone!

- 3:40 PM **Introduction**
Beth Huning, SF Bay Joint Venture
- 3:45 PM **Finding Opportunities at the Estuary's Margin**
David Thomson, SFBBO and Amber Manfree, UC Davis
- 4:10 PM **Restoration Aspects of Carbon and Subsidence Reversal**
Lisamarie Windham, USGS
- 4:35 PM **Coping with Barriers to Marsh Restoration**
Julian Meisler, Sonoma Land Trust

Climate Resilience

Delta Restoration Planning: Integrating Multiple Objectives and Providing for Local Engagement

- 1:35 PM **Introduction**
Campbell Ingram, Delta Conservancy
- 1:40 PM **A Delta Renewed: A Guide to Science-Based Ecological Restoration in the Delta**
Letitia Grenier, SFEI
- 2:05 PM **The Delta Plan: Protect, Restore, and Enhance the Delta Ecosystem**
Jessica Law, Delta Stewardship Council
- 2:30 PM **Delta Conservation Framework: Building Community and Integrated Practices for Delta Conservation**
Christina Sloop, CDFW
- 2:55 PM **Regional Restoration and Agricultural Sustainability Planning: Informing Best Ecological Outcomes with Least Impact to Land Uses**
Campbell Ingram, Delta Conservancy

3:20 PM **BREAK**

Enhancing Urban Biodiversity in an Increasingly Urbanized World

- 3:40 PM **Introduction**
Robin Grossinger, SFEI
- 3:45 PM **Re-Oaking Silicon Valley: A Science Strategy for Re-Establishing Ecological Functions**
Erica Spotswood, SFEI
- 4:10 PM **Managing among the Masses: Preserving Biodiversity in America's Most Heavily Visited National Park**
Michael Boland, Presidio Trust
- 4:35 PM **Linking Open Space and Urban Biodiversity Planning**
Nicole Heller, Peninsula Open Space Trust

Water Quality

Suisun Bay and Marsh: Where the Delta Meets the Bay

- 1:35 PM **Introduction**
Stuart Siegel, SF Bay NERR
- 1:40 PM **Suisun Marsh: California's Largest Marsh and Its Connection to Suisun Bay**
Stuart Siegel, SF Bay NERR
- 2:05 PM **Are Fish Kills a Thing of the Past? Improving Dissolved Oxygen in Suisun Marsh**
Barbara Baginska, SF Bay Water Board
- 2:30 PM **Juvenile Fish Nurseries in Emergent Tidal Marshes of Suisun Marsh**
Denise Colombano, UC Davis
- 2:55 PM **Selenium in Suisun Bay – Tracking Change Post-TMDL**
Jay Davis, SFEI

3:20 PM **BREAK**

Progress and Challenges in Tackling Pesticides in the Estuary

- 3:40 PM **Introduction**
Jan O'Hara, SF Bay Water Board
- 3:45 PM **Identifying an Unexpected Source of Urban Pesticide Pollution: Pet Flea Control Products**
Rebecca Sutton, SFEI
- 4:10 PM **Protecting Surface Water from Pesticide Related Toxicity: Science Driven Prevention and Mitigation**
Jennifer Teerlink, CDFW
- 4:35 PM **Efforts to Reduce Pesticide Related Toxicity in the Delta and Its Tributaries in the Central Valley**
Danny McClure, Central Valley Water Board

Stewardship

Resilience through Social Equity: Planning Approaches for Climate Equity, Inclusion and Healthy Watersheds

- 1:35 PM **Environmental Justice as Resilience: Water, Climate, People, and Place**
Colin Bailey, Environmental Justice Coalition for Water
- 1:50 PM **PANEL**
*Hannah Doress, Shore Up Marin
Marcus Griswold, SKEO, Sausal Creek Walkable Watershed in Fruitvale
David Ralston, BAAQMD
Doria Robinson, Urban Tilth*

3:20 PM **BREAK**

Community-Based Participatory Research

- 3:40 PM **Introduction**
Aaron Haiman, Delta Conservancy
- 3:45 PM **Community-University Research Partnerships for Environmental Justice**
Jonathan London, UC Davis
- 4:00 PM **Community Environmental Monitoring as a Tool to Address Health Disparities**
Catalina Garzon-Galvis, CA Environmental Health Tracking Program
- 4:15 PM **How the West Oakland Environmental Indicators Project Got Involved with Citizen Science**
Margaret Gordon, West Oakland Environmental Indicators Project
- 4:30 PM **FACILLITATED DISCUSSION**

Plenary Program WEDNESDAY, OCTOBER 11, 2017

9:00 AM Opening Remarks

Moderator: Steven Ritchie, Assistant General Manager of the Water Enterprise, San Francisco Public Utilities Commission

9:05 AM Managing in an Era of Increasing Variability: Building Resiliency into our Social, Political and Eco Systems

Grant Davis, Director, California Department of Water Resources

9:25 AM Policy Recipe for Water Reliability and Resiliency in California: What Are the Ingredients?

Steven Moore, Vice Chair, State Water Resources Control Board

9:45 AM Infrastructure Stability in Increasingly Unstable Times

Steven Ritchie, Assistant General Manager of the Water Enterprise, San Francisco Public Utilities Commission

10:05 AM Jean Auer Award

Presenter: Carl Wilcox, Policy Advisory to the Director for the Delta, California Department of Fish and Wildlife

10:25 AM BREAK

The New Wave of Climate Resilience

10:45 AM Water –By Design– As Leverage for Transformative Impact

Henk Ovink, Special Envoy for International Water Affairs, Kingdom of The Netherlands

11:10 AM Panel Discussion: What will the next wave of “resiliency” look like? We will explore this question during a moderated conversation among panelists from various sectors who are changing the way we think about resiliency planning and implementation in the Bay Area.

Panel Members:

Josh Bradt, Environmental Planner, SFEP

Letitia Grenier, Resilient Landscapes Program Director, SFEI

Kiran Jain, Chief Operating Officer and General Counsel of Neighborly and former Chief Resiliency Officer, Oakland

Lindy Lowe, Planning Director, BCDC

Rachelle Reichert, Artist, San Francisco

12:00 PM Lunch & Poster Session

Premier Sponsor:

Delta Stewardship Council

Major Sponsors:

Bay Area Clean Water Agencies

State Coastal Conservancy

Anchor Co-Sponsors:

Cargill

City of San Jose, Environmental Services Department

San Francisco Public Utilities Commission

Co-Sponsors:

Balance Hydrologics

Bay Planning Coalition

California Department of Fish and Wildlife

California Department of Water Resources

California Natural Resources Agency

Central Contra Costa Sanitary District

Contra Costa County Flood Control & Water Conservation District

Delta Protection Commission

Ducks Unlimited

East Bay Regional Parks District

Friends of the San Francisco Estuary

Natural Resources Defense Council

Sacramento Regional County Sanitation District

San Francisco Bay Conservation and Development Commission

San Francisco Bay Joint Venture

San Francisco Estuary Institute

Santa Clara Valley Water District

Sonoma County Water Agency

Sonoma Land Trust

U.S. Environmental Protection Agency

Zone 7 Water Agency

Concurrent Sessions WEDNESDAY AFTERNOON, OCTOBER 11, 2017

Habitats & Living Resources

Species Response to Restoration and Environmental Change I

- 1:20 PM **Introduction**
Navroop Jassal, SCVWD
- 1:25 PM **Species Response to Habitat Restoration and Management in San Francisco Bay**
Joy Albertson, USFWS
- 1:50 PM **Waterbird Nesting Ecology and Management in San Francisco Bay**
Josh Ackerman, USGS
- 2:15 PM **Evaluating Tidal Wetland Restoration: 20 years of Physical and Biological Monitoring at the Sonoma Baylands Restoration**
Michelle Orr, ESA
- 2:40 PM **Ridgway's Rail Response to Adaptive Tidal Marsh Restoration**
Julian Wood, Point Blue Conservation Science
- 3:05 PM **BREAK**

Species Response to Restoration and Environmental Change II

- 3:25 PM **Introduction**
Julian Wood, Point Blue Conservation Science
- 3:30 PM **Evaluating Tidal Marsh Benefits through the (Fish) Eye of the Beholder: Understanding How Fish Communities Respond to Wet and Dry Periods in the Upper Estuary**
Lenny Grimaldo, ICF
- 3:55 PM **Does Loss of Estuary Surf Scoters Indicate Declining Subtidal Habitats?**
John Takekawa, CA Audubon
- 4:20 PM **Humpback Whales Foraging in San Francisco Bay**
Bill Keener, Golden Gate Cetacean Research

Climate Resilience

Science Innovations for Sea Level Rise Adaptation

- 1:20 PM **Introduction**
Letitia Grenier, SFEI
- 1:25 PM **Natural Breaks: A New Framework for Place-Based Sea Level Rise Adaptation in SF Bay**
Julie Beagle, SFEI and Laura Tam, SPUR
- 1:50 PM **Adapting Tidal Marshes for Climate Change: Coarse Material Placement and High Tide Refuge Enhancement for Wildlife**
Kathy Boyer, SFSU
- 2:15 PM **The Beneficial Reuse of Dredged Sediments to Construct Ecotone Levees: Challenges and Results from Lower Novato Creek**
Roger Leventhal, MCFCWCD
- 2:40 PM **Community-Based Visioning For Resilience in Richmond**
Heidi Nutters, SFEP
- 3:05 PM **BREAK**

San Francisco Bay Sediment — Bringing Clarity to a Turbid Topic

- 3:25 PM **Introduction**
Naomi Feger, SF Bay Water Board
- 3:30 PM **Sediment Supply to San Francisco Bay: Today and Into the Future**
David Schoellhamer, USGS
- 3:55 PM **Sediment Savvy: Developing a Sediment Strategy for Bayland Resilience**
Scott Dusterhoff, SFEI
- 4:20 PM **Managing Mud: A Regional Focus for a Valuable Resource**
Brenda Goeden, BCDC

Water Quality

Maximizing the Benefits of Green Stormwater Infrastructure

- 1:20 PM **Introduction**
Josh Bradt, SFEP
- 1:25 PM **Municipal Green Stormwater Infrastructure Planning**
Jill Bicknell, SCVURPPP
- 1:50 PM **The Watershed Planning Game: Engaging Community Members in Assessing Infrastructure Tradeoffs**
Rosey Jencks, Brown & Caldwell
- 2:15 PM **Environmental Justice Benefits and Consequences**
Nahal Ghoghaie, EJCW
- 2:40 PM **Valuating Multiple Benefits & Vulnerabilities**
Brent Bucknum, Urban BioFilter
- 3:05 PM **BREAK**

Managing Trash Impacts in the SF Estuary

- 3:25 PM **Introduction**
Chris Sommers, EOA, Inc.
- 3:30 PM **Stormwater Trash Reduction Success Stories and Remaining Challenges**
Napp Fukuda, City of San Jose
- 3:55 PM **A New Trash Monitoring Program for Bay Area Receiving Waters**
Chris Sommers, EOA, Inc.
- 4:20 PM **Developing Trash Monitoring Methods for California**
Shelly Moore, SCCWRP and Tony Hale, SFEI

Stewardship

The Future of the California Bay-Delta Estuary Science Enterprise: How Can Science Best Inform Policy-Makers and Long-Term Planning Efforts?

- 1:20 PM **PANEL**
This session will feature lessons learned from scientists and policy experts working around the country to address some of the most challenging aspects of ecosystem science and management.
CO-MODERATORS:
Jessica Law, Delta Stewardship Council and Mike Chotkowski, USGS
PANELISTS:
*John Callaway, Delta Lead Scientist
Josh Collins, SFEI
Randy Fiorini, Delta Stewardship Council
Jason Peltier, Delta Mendota Water District
Richard Roos-Collins, Water and Power Law Group
Carl Wilcox, CDFW
Leo Winternitz, GEI*

3:05 PM **BREAK**

Hope or Hype: How does On-Site Water Reuse Fit into the Future of the San Francisco Bay-Delta Estuary?

- 3:25 PM **PANEL**
A lively moderated discussion will highlight the opportunities and challenges presented by onsite water reuse, which encompasses on-site capture and reuse of stormwater, grey and black water. The session will look at multiple scales of onsite water reuse.
MODERATOR:
Heather Cooley, Pacific Institute
PANELISTS:
*Scott Wiener, California Senator, District 11
Josiah Cain, Sherwood Design Engineers
Sebastien Tilmans, Codiga Resource Recovery Center, Stanford University
Ian Wren, San Francisco Baykeeper*