

September 20 & 21 10th Biennial

State of the San Francisco Estuary Conference, Oakland Marriott City Center

Opening Gala at the Aquarium of the Bay
5:00 PM September 19, 2011, Pier 39, San Francisco

Plenary Session TUESDAY, SEPTEMBER 20, 2011

9:00 am **Welcome**

Jean Quan, Mayor of Oakland (invited)

Opening Remarks

Alexis Strauss, Director, Water Division, U.S. EPA Region 9

State of the Bay: Indicators of Bay Health and What They Tell Us— Findings from the Newly-Released State of the San Francisco Bay Report

Moderator: Alexis Strauss, Director, Water Division, U.S. EPA Region 9

9:10 AM **State of the Bay 2011**

Andrew Gunther, Executive Director, Center for Ecosystem Management and Restoration

9:30 AM **State of the Bay 2011: Baylands**

Josh Collins, San Francisco Estuary Institute

9:50 AM **State of the Bay 2011: Fish and Flows**

Christina Swanson, Science Center Director, Natural Resources Defense Council

10:10 AM **Q&A**

10:20 AM **Climate Change and the State of the Bay: Stephen Schneider Tribute Presentation**

Terry Root, Senior Fellow, Woods Institute for the Environment, Stanford University

10:50 AM **BREAK**

Pathways to Progress: Panel Discussion

Moderator: Alexis Strauss, Director, Water Division, U.S. EPA Region 9

11:10 AM **Environmental Managers Share What's Working and What's Not for the Challenges Raised by the State of the Bay Report**

Michael Carlin, Deputy General Manager, San Francisco Public Utilities Commission

Patrick Lowe, Deputy Director, Napa County Conservation, Development, and Planning Department

Sam Schuchat, Executive Officer, State Coastal Conservancy

Melody Tovar, Deputy Director, Environmental Services Department, City of San Jose

11:50 AM *Jean Auer Award*

12:05 PM **Above the South Bay: Intimate Aerials of a Landscape in Transition**

Cris Benton, UC Berkeley

12:20–1:20 PM **LUNCH**

Species/Restoration

Battling Invasive Species in San Francisco Bay—Start Early, Finish Strong!

Moderator: Marilyn Latta, SCC

- 1:20 PM** Early Detection and Rapid Response to Prevent Tomorrow's Invasive Species Problems Today
Dan Gluesenkamp, California Early Detection Networks
- 1:40 PM** The Kelp Kickers: Response to a New Invasion in San Francisco Bay
Chela Zabin, SERC and UC Davis
- 2:00 PM** Perennial Pepperweed (*Lepidium latifolium*) Invasion of Estuarine Tidal Marshes; Is it time for Regional Coordination?
Donna Ball, H. T. Harvey & Associates
- 2:20 PM** Invasive Spartina Project: 10 Years of Successful Control within Endangered Species Habitat
Erik Grijalva and Jen McBroom, SF Estuary Invasive Spartina Project
- 3:00 PM** BREAK

Bay Fish and Wildlife

Moderator: Kathy Hieb, DFG

- 3:20 PM** State of the Bay: Marsh and Water Bird Indicators of Estuarine Condition
Nadav Nur, PRBO Conservation Science
- 3:40 PM** Protecting California Clapper Rails and Tidal Salt Marsh Habitat: Endangered Species Management or Ecosystem Restoration?
Michael Casazza, US Geological Survey
- 4:00 PM** Monitoring the Effect of Salt Pond Restoration on Fish Populations in South San Francisco Bay
James Hobbs, UC Davis
- 4:20 PM** Changing Food Habits of Harbor Seals in San Francisco Bay
Corinne Gibble, MLML
- 4:40 PM** Lange's Metalmark: Endangered Butterfly of the San Joaquin River
Susan Euing, USFWS

Management Challenges

Climate-driven Ecological Changes: Management Implications I

Moderator: Andrew Gunther, Bay Area Ecosystems Climate Change Consortium (BAECCC)

- 1:20 PM** Introduction
Andrew Gunther, BAECCC
- 1:25 PM** Projecting our Future Regional Climate: Resources and Challenges
Alan Flint, US Geological Survey
- 1:45 PM** Coastal Upwelling and the Importance of Ocean Forcing in San Francisco Bay
John Largier, Bodega Marine Laboratory
- 2:05 PM** Modeling the Physical Impacts of Climate Change on San Francisco Bay
Patrick Barnard, US Geological Survey
- 2:25 PM** Adapting to Sea Level Rise and Storm Hazards along the Outer Coast: Lessons Learned and Implications for San Francisco Bay
Kelley Higgason, Gulf of the Farallones NMS

2:45 PM Q&A

3:00 PM BREAK

Climate-driven Ecological Changes: Management Implications II

Moderator: Andrew Gunther, BAECCC

- 3:20 PM** Scenarios of San Francisco Bay Marsh Habitat Sustainability using a Data-driven Numerical Model
Kathleen Swanson, US Geological Survey
- 3:40 PM** Adapting Tidal Marsh Restoration Planning to Rising Sea Levels
Samuel Veloz, PRBO Conservation Science
- 4:00 PM** Ecosystems as Carbon Sinks: Wetlands Restoration as a Climate Mitigation Strategy
Stephen Crooks, ESA, Inc.
- 4:20 PM** Climate change and Shoreline Infrastructure: the Adapting to Rising Tides Project
Lindy Lowe, BCDC

4:40 PM Q&A

Water Quality

Improving Water Quality I

Moderator: Meg Sedlak, SFEI

- 1:20 PM** State of the Bay: Water Quality Indicators
Jay Davis, SFEI
- 1:40 PM** Beach Water Quality
Mike Kellogg, City and County of SF
- 2:00 PM** New Safe Eating Guidelines for Bay Fish
Margy Gassel, Office of Environmental Health Hazard Assessment
- 2:20 PM** Impacts of the 2007 Cosco Busan Oil Spill on Fish
Nat Scholz, NOAA
- 2:40 PM** Water Quality Based Regulatory Actions
Thomas Mumley, SF Bay Water Board
- 3:00 PM** BREAK

Improving Water Quality II

Moderator: Thomas Mumley, SF Bay Water Board

- 3:20 PM** Bay Bioinvasions
Andy Cohen, Center for Research on Aquatic Bioinvasions
- 3:40 PM** The Mothball Fleet—Using Regulatory Tools to Improve Water Quality
Bruce Wolfe, SF Bay Water Board
- 4:00 PM** Contaminants in Harbor Seals
Denise Greig, Marine Mammal Center
- 4:20 PM** Managing Emerging Contaminants: The Flame Retardants Example
Naomi Feger, SF Bay Water Board
- 4:40 PM** California's Green Chemistry Initiative: Opportunity to Impact Water Quality
Debbie Raphael, Department of Toxics Substances Control

Sustainable Communities

Creating Resilient Urban Watersheds

Moderator: Lisa Owens Viani, SFEF

- 1:20 PM** Resilient Landscapes: Lessons from History
Robin Grossinger, SFEI
- 1:50 PM** Conservation Hydrology: Making Cities Think Like Forests; Learning from Beavers
Brock Dolman, Occidental Arts and Ecology Center
- 2:20 PM** Shoreline Resilience
Peter Baye, Coastal Ecologist
- 2:50 PM** Q&A
- 3:00 PM** BREAK

LID, Flood Control, and Climate Change: What is the Role of LID in Boosting Estuary Resilience?

A panel discussion among leading Bay Area LID Practitioners

Moderator: Rosey Jencks, SFPUC

3:20 PM Panel Members:

Anne Cook, Bay-Friendly Landscaping and Gardening Coalition—**Bay-Friendly: An Integrated LID Program**

Carol Mahoney, Zone 7 Water Agency—**LID and Flood Protection: Digging Deeper**

Matt Fabry, San Mateo Countywide Water Pollution Prevention Program—**Green Streets in San Mateo County**

Wendy Goodfriend, BCDC—**LID: A Tool in the Community Resiliency Toolbox**

Peter Schultze-Allen, City of Emeryville Public Works—**LID Projects in Emeryville: Lessons Learned**

Brock Dolman, Occidental Arts and Ecology Center—**LID Techniques in Less Urban Watersheds**

Plenary Session WEDNESDAY, SEPTEMBER 21, 2011

Doing More with Less; Moving Toward Long-term Sustainable Use of Delta and Bay Water

Moderator: Gary Wolff, StopWaste.org

9:00 AM Welcome

Gary Wolff, StopWaste.org

9:10 AM Achieving the Delta Plan's Co-equal Goals

Phil Isenberg, Chair, Delta Stewardship Council

9:30 AM An Abundance of Straws: The Role of the State Water Board Protecting Public Trust Resources and Providing for Other Beneficial Uses

Frances Spivy-Weber, Vice Chair, State Water Resources Control Board

9:50 AM The Bay Delta Conservation Plan: Increased Supply Reliability and Restoration of the Delta Ecosystem

Jerry Meral, Deputy Secretary of the California Natural Resources Agency

10:10 AM Stumbling into the Future: Is There Any Reason for Optimism?

Peter Gleick, The Pacific Institute

10:30 AM BREAK

10:50 AM Panel Discussion

Moderator: Gary Wolff, StopWaste.org

11:25 AM Where Does the River Meet the Sea? Connections and Boundaries in the San Francisco Estuary

Wim Kimmerer, San Francisco State University

11:55 AM *Outstanding Environmental Awards*

12:10 PM LUNCH & POSTER SESSION

Premier Sponsor:

State Coastal Conservancy

Anchor Co-sponsors:

Bay Area Clean Water Agencies

Bay-Friendly Landscaping & Gardening Coalition

Cargill

City of San Jose

Delta Science Program

Friends of the San Francisco Estuary

San Francisco Public Utilities Commission

The Bay Institute

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Central Contra Costa Sanitary District

Citizens Committee to Complete the Refuge

Contra Costa County Flood Control District

Ducks Unlimited

ESA PWA

East Bay Regional Parks

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Marin Audubon Society

Natural Resources Defense Council

PRBO Conservation Science

Romberg Tiburon Center, SFSU

San Francisco Bay Joint Venture

Save The Bay

SF Bay Water Board

Sonoma Land Trust

Sonoma County Water Agency

US Army Corps of Engineers

US EPA

US Fish & Wildlife Service

Zone 7 Water Agency

Species/Restoration

Wetlands Restoration: Values, Lessons Learned, and Next Steps I

Moderators: Beth Huning, SF Bay Joint Venture and Amy Hutzel, State Coastal Conservancy

- 1:25 PM South Bay Salt Pond Restoration Project: Successes, Challenges, and Next Steps
John Bourgeois, State Coastal Conservancy
- 1:45 PM Napa-Sonoma Marshes Wildlife Area Restoration Efforts: How the Environment is Responding
Karen Taylor, DFG
- 2:05 PM Mudflat Loss During South San Francisco Bay Salt Pond Restoration: The 800 Pound Sea Level Rise Gorilla
Bruce Jaffe, US Geological Survey
- 2:25 PM Striking a Balance between Restoration and Public Access at Breuner Marsh
Brad Olson, East Bay Regional Park District
- 2:45 PM Q&A
- 2:55 PM BREAK

Wetlands Restoration: Values, Lessons Learned, and Next Steps II

Moderators: Beth Huning, SF Bay Joint Venture and Amy Hutzel, State Coastal Conservancy

- 3:15 PM Community-based Restoration—Challenges and Opportunities
Anthony Khalil, Literacy for Environmental Justice
- 3:30 PM Subtleties of the Subtidal: Habitat Goals and Next Steps in Implementation
Marilyn Latta, State Coastal Conservancy
- 3:45 PM The High Marsh/Upland Ecotone: An Undervalued, Endangered, and Extremely Valuable Part of the Tidal Marsh Ecosystem
Howard Shellhammer, H. T. Harvey & Associates
- 4:00 PM Sediment Supply and Demand in a Changing Estuary
Brenda Goeden, BCDC
- 4:15 PM Valuing the Coastal Protection Services of Wetlands
Gregory Guannel, Natural Capital Project
- 4:30 PM Q&A

Management Challenges

The People Factor in Delta Ecosystem Restoration

Moderator: Jessica Davenport, BCDC

- 1:25 PM Exploring Past Landscapes of the Delta: Gaining Insights for the Future
Alison Whipple, SFEI-ASC
- 1:40 PM Delta Conservancy: Advancing Environmental Protection and Economic Well-being
Campbell Ingram, Delta Conservancy
- 1:55 PM Economic Sustainability: The Human Side of the Delta
Michael Machado, Delta Protection Commission
- 2:10 PM Wildlife-Friendly Farming
Brent Tadman, Conservation Farms and Ranches
- 2:25 PM Balancing the Water Needs of San Joaquin Farmers and Fish
John Netto, USFWS
- 2:40 PM Discussion: What Have We Learned From Experience on the Ground?
Moderator: Leo Winternitz, The Nature Conservancy
- 2:55 PM BREAK

Ecosystem Restoration in an Evolving Delta

Moderator: Alex Westhoff, Delta Protection Commission

- 3:15 PM Sacramento-San Joaquin Delta Subsidence and Its Consequences
Steve Deverel, HydroFocus, Inc.
- 3:30 PM Carbon Sequestration: Creating Markets for Reversing Subsidence and 'Growing' Wetlands
Belinda Morris, Environmental Defense Fund
- 3:45 PM A Paradigm Shift in Habitat Restoration: Lessons from Liberty Island
Carl Wilcox, DFG
- 4:05 PM Dutch Slough Tidal Marsh Restoration in the Sacramento-San Joaquin Delta
Michelle Orr, ESA PWA and Patty Quickert, DWR
- 4:25 PM A Vision for Tidal Restoration in the Suisun Marsh
Stuart Siegel, Wetlands and Water Resources

Water Quality

Nutrients in a Changing Estuary: Emerging Issues with a Vintage Water Quality Problem

Moderator: Naomi Feger, SF Bay Water Board

- 1:25 PM Changing Phytoplankton Dynamics in San Francisco Bay—Steady Upward Trends
Tara Schraga, USGS, Menlo Park
- 1:45 PM Linkages between Nutrients and Harmful Algal Blooms: How Real is the Threat?
Raphael Kudela, UC Santa Cruz
- 2:05 PM Nutrients in the Delta—the Role of Ammonium
Chris Foe, Central Valley Regional Water Quality Control Board
- 2:25 PM The Need for Criteria: Building a Nutrient Assessment Framework for San Francisco Bay
Martha Sutula, Southern California Coastal Water Research Project
- 2:45 PM Q&A
- 2:55 PM BREAK

Let's Pick Up the Trash

Moderator: Thomas Mumley, SF Bay Water Board

- 3:15 PM Introduction
Thomas Mumley, SF Bay Water Board
- 3:25 PM Developing a Method for Trash Flux Measurement in Creeks
Dale Bowyer, SF Bay Water Board
- 3:40 PM Responding to the Problem: Trash Reduction through Partnerships & Collective Impact
Melody Tovar, City of San Jose
- 3:55 PM SFEP's Efforts to Help Municipalities Capture Trash and Comply with the Stormwater Permit
Janet Cox, SFEP
- 4:10 PM Jumping on the "Ban" Wagon
Allison Chan, Save the Bay
- 4:25 PM Changing the Business Culture to Reduce Trash at the Source
Miriam Gordon, Clean Water Action
- 4:40 PM Q&A

Sustainable Communities

Watershed Stewardship

Moderator: Harry Seraydarian, North Bay Watershed Association

Communicating Results

- 1:25 PM National, Statewide and Bay Area Experience with Watershed Indicators
Fraser Shilling, UC Davis
- 1:45 PM Linking Stormwater Monitoring with Watershed Management Needs
Terri Fashing, Marin County Stormwater Pollution Prevention Program
- 1:55 PM Iconic Brands & Integrated Regional Campaigns: Their Value to Improving Water Quality through Outreach
Cheryl Wessling, City of San Jose

Current Watershed Issues

- 2:15 PM Newly Forming Collaborations and Partnerships in the Bay Area for Coordinated Water Resources Management
Harry Seraydarian, North Bay Watershed Association
- 2:25 PM Contemporary Flood and Floodplain Management and U.S. Army Corps Levee Policy
Mitch Avalon, Contra Costa County Public Works Department
- 2:40 PM Small Inner-city Non-profits Do the Heavy Lifting in Watershed Improvement Programs
Doria Robinson, Urban Tilth
- 2:55 PM BREAK

Restoring Rivers in Bay Area Anchor Watersheds

Moderator: Leslie Ferguson, SF Bay Water Board

- 3:15 PM Steelhead in San Francisco Estuary Tributaries: Evidence of a Successful Keystone Species Approach to Conservation
Gordon Becker, CEMAR
- 3:40 PM Napa River Project: A National Model
Ann Riley, SF Bay Water Board
- 4:05 PM Restoration and Fisheries Monitoring in the Napa River, Documenting Change in an Anchor Watershed
Jonathon Koehler, Napa RCD
- 4:25 PM Alameda Creek Steelhead Restoration
Tim Ramirez, SFPUC

4:45 PM ADJOURN