

# Adapting Restoration for a Changing Climate Symposium Agenda

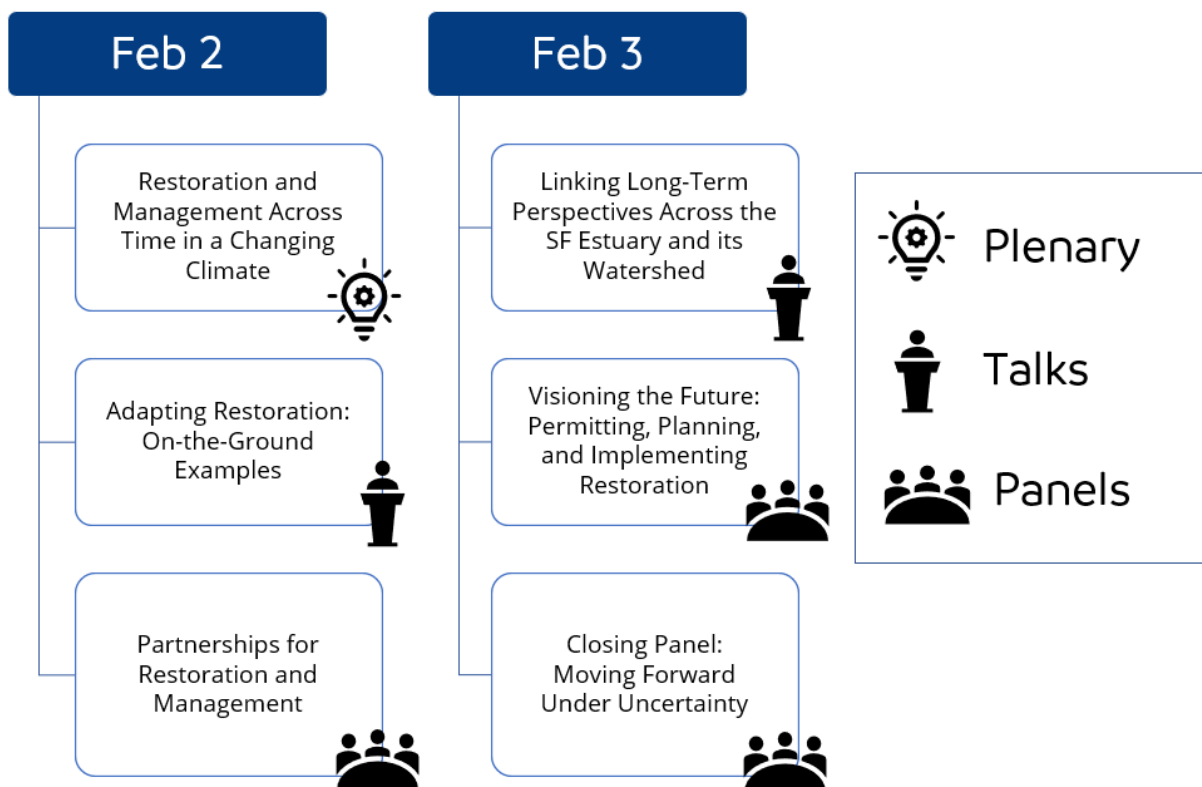
February 2–3, 2022 | Zoom



**Delta  
Science  
Program**

DELTA STEWARDSHIP COUNCIL

## Agenda at a Glance



## Day 1 – February 2, 2022

### Overview

This symposium will explore how restoration projects are incorporating climate change considerations into their planning and implementation in the San Francisco Estuary and beyond. To address this issue, sessions will focus on implementation and science at the project level, and the social and political dimensions that shape projects. Presenters will consider their projects 20, 50, and 100 years in the future. To facilitate cross-system learning, presentations will incorporate examples from the San Francisco Estuary, its watershed, and relevant coastal areas.

Day one will feature plenary sessions on the big picture of managing ecosystems over long time scales. Subsequent sessions will focus on incorporating climate change into restoration project design and the importance of partnerships for developing effective projects. Day two will begin with presentations on issues facing systems across the watershed, from the headwaters to the coast, and conclude with a panel discussion visioning future directions that could better facilitate long-term perspectives into restoration project planning and permitting.

9:00 **Forum overview** – *Dylan Chapple, Delta Science Program*

9:05 **Welcome** – *Laurel Larsen, Delta Science Program*

9:10 **Symposium Engagement Tools** – *Jennica Moffat, Delta Science Program*

### Plenary Session: Restoration and management across time in a changing climate

The opening session will narrate the importance of thinking across multiple nested timescales to plan restoration and management actions that will be able to adapt to climate change. Emphasis will be on lessons learned and pieces of history that remain relevant to adaptive management now and into the future. This session will establish the theme of looking ahead 20, 50, and 100 years to imagine futures as they relate to ecological restoration.

Moderator: Dylan Chapple, Delta Science Program

9:15 **Introduction** – *Dylan Chapple, Delta Science Program*

9:20 **Title TBD** – *Corrina Gould, Sogorea Te' Land Trust*

9:40 **CA Natural Resources Agency 30x30 Initiative and Climate Change** – *Jennifer Norris, California Natural Resources Agency*

- 9:50      **The State of Water: the art and science of biogeography across the Bay-Delta and beyond** – *Obi Kaufmann, artist and author*
- 10:10     **Restoration futures in the SF Estuary** – *Letitia Grenier and Josh Collins, San Francisco Estuary Institute*
- 10:45     **Break**

## Day 1, Session 1: On the ground examples

Building on the broad scope discussed in the plenary session, this session will present “on-the-ground” examples of how climate change is being integrated into restoration implementation and planning. Speakers will give a brief overview of their project goals, objectives, and planning horizons, and provide a look ahead on potential futures for their projects across the next 20, 50, and 100 years. How could the project or effort change, and how could proactive planning ensure that ecological function is still maintained? Individual talks will share key challenges, highlights, and/or lessons learned. Talks will be followed by a panel discussion with the speakers.

Moderator: Marilyn Latta, California State Coastal Conservancy

- 10:55     **Techniques for Shoreline Resilience** – *Kathy Boyer, San Francisco State University*
- 11:10     **Horizontal Levees: Planning and Practice** – *Peter Baye, Consultant*
- 11:20     **Habitat Linkages for Landscape Resilience** – *Stuart Siegel, San Francisco Bay National Estuarine Research Reserve*
- 11:30     **Eco-cultural restoration at Bushy Lake** – *Michelle Stevens, CSU Sacramento*
- 11:40     **Floating Marshes - can this historic ecosystem play a critical role in solving productivity, carbon capture and subsidence control needs?**  
– *Curt Schmutte, Metropolitan Water District Consultant*
- 11:50     **Elkhorn Slough Tidal Wetland Resilience** – *Monique Fountain, Elkhorn Slough National Estuarine Research Reserve*
- 12:00     **Tracking Accretion in Dynamic Tidal Landscapes** – *Karen Thorne, United States Geological Survey*
- 12:10     **Panel Discussion**
- 12:30     **Lunch break**

## Day 1, Session 2: Panel: Partnerships for Adaptive Restoration

Building on the morning session's "on-the-ground" projects, this panel session will highlight the interconnected and multi-entity relationships that define restoration and showcase how these partnerships could be leveraged to best support incorporating climate change into restoration project planning. What are the social interactions that lead to a successful project? How could those relationships and systems be strengthened to improve restoration outcomes on 20, 50, and 100 year time horizons?

Moderator: Brett Milligan, UC Davis

- 1:30     **Overview:** Participatory goal setting and co-design under high uncertainty: the power of partnerships – *Brett Milligan, UC Davis*
- 1:50     **Introduction:** Panelists will give a brief overview of their work in preparation for the panel discussion.
- 2:10     **Panel Discussion**  
*Phoenix Armenta, West Oakland Environmental Indicators Project*  
*Don Hankins, CSU Chico*  
*Campbell Ingram, Delta Conservancy*  
*Jessica Law, The Sacramento Water Forum*  
*Michelle Stevens, CSU Sacramento*
- 3:00     **Close**

## Day 2 – February 3, 2022

### Day 2, Session 1: Linking long-term perspectives across the San Francisco Estuary and its watershed

This session will zoom out to take a broad view of interacting issues from the headwaters of the SF Estuary's watershed to outer coastal areas. How do sediment, flows, and restoration projects interact across time in this highly connected, large-scale system? How can climate change be incorporated into planning across the watershed at 20, 50, and 100 year timescales?

Moderator: John Callaway, University of San Francisco

- 9:00     **Overview** – *John Callaway, University of San Francisco*

- 9:10 **Climate Change Resilience in Sierra Meadows** – *Amy Merrill, American Rivers*
- 9:20 **Restoring Flow Functionality in Dammed Rivers** – *Sarah Yarnell, Center for Watershed Science, UC Davis*
- 9:30 **Mainstem River and Floodplain Restoration** – *Jacob Katz, Cal Trout*
- 9:40 **Sediment for Survival in the SF Estuary** – *Scott Dusterhoff, San Francisco Estuary Institute*
- 9:50 **Reconciling accretion models for Blue Carbon** – *Lisamarie Windham-Myers, United States Geological Survey*
- 10:00 **Panel**
- 10:40 **Break**

## Day 2, Session 2: Panel: visioning the future: permitting, planning, and implementing restoration

What would the ideal future look like for those permitting, planning, and implementing restoration in the system? What steps can be taken now to work towards these futures? What actions and frameworks can we employ to be best prepared to learn from implementation? How do we mindfully check that today's actions minimize unintended consequences and barriers to achieving favorable visions for the future across 20, 50, and 100 year timescales?

Moderator: Letitia Grenier, San Francisco Estuary Institute

- 10:50 **Introduction:** Panelists will give a brief overview of their work in preparation for the panel discussion.
- 11:20 **Panel discussion**  
*Nahal Ghoghaie, Bay Conservation and Development Commission*  
*Brad Henderson, California Department of Fish and Wildlife*  
*Harriet Ross, Delta Stewardship Council*  
*Jeff Mount, Public Policy Institute of California*  
*Charlotte Biggs, Department of Water Resources*  
*Christina Toms, San Francisco Bay Regional Water Quality Control Board*

## Day 2, Closing Panel: Moving Forward Under Uncertainty

This closing panel will build on the previous session and bring together moderators, speakers, and participants to focus on key takeaways and discuss next steps. Discussions will address questions and comments submitted by the audience throughout the symposium.

Moderator: Laurel Larsen, Delta Science Program

12:00 **Panel**

12:45 **Adjourn**

## Adapting Restoration for a Changing Climate Symposium 2021 Planning Committee

*Dylan Chapple, Delta Science Program*

*Brett Milligan, UC Davis*

*Annika Keeley, Delta Science Program*

*Hildie Spautz, CDFW*

*Jennica Moffat, Delta Science Program*

*Michelle Stevens, CSU Sacramento*

*Dana Brechwald, BCDC*

*Michael Vasey, National Estuarine  
Research Reserves*

*Chris Carlson, Solano County RCD*

*Lydia Vaughn, SFEI*

*Lindsay Correa, DWR*

*Sam Veloz, Point Blue*

*Greg Martinelli, CDFW*

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