



Northern California Botanists 2022 Symposium

*Tools for a New Decade of
Managing Northern California Plant Communities*

*10-11 January 2022 * Online Symposium*

DRAFT PROGRAM

Monday, 10 January

8:45 Opening Remarks - Live:

Linnea Hanson, President of Northern California Botanists

9:00 - 10:05 Session 1: The Power of Pollinators: Habitat, Conservation, and Plant Interactions

Introduction of Pollination Session

Session Chair: Russell Huddleston, Environmental Protection Agency, Region 9

Gardening for Pollinators.

Pat Reynolds, River Partners

Monitoring Butterfly Populations in the Sierra-Cascade Foothills as Part of a Global Conservation Initiative.

Don Miller, Chico State University

Electric Power Companies Supporting Pollinators and Native Plants in California (and Beyond).

Jessica Fox, Electric Power Research Institute

Pollination Extends to Frugivory in the Pallid Bat, *Antrozous pallidus*.

Dr. Jaclyn Alpert, NatureServe

10:05 - 10:25 Pollination Research Session - Live Q&A

10:30 - 11:35 Session 2: Traditional Ecological Knowledge and Ethnobotany

Introduction to TEK and Ethnobotany Session

Session Chair: Kerry Byrne, Humboldt State University

Overview of Ethnobotany and Plants used in Pomo Basketry.

Dr. Sherrie Smith-Ferri, Grace Hudson Museum

Yurok Tribe Food Sovereignty: Combining Traditional Food Systems, Gardens, and Orchards to Decolonize Diets.

Taylor Thompson, Yurok Tribe Environmental Program, Food Sovereignty Division Manager

The Benefits and Implications of Cultural Burning.

Don Hankins, California State University, Chico

Local Projects using TEK for Climate Adaptation.

Ali Meders-Knight, Mechoopda Tribal Liaison

11:35 - 11:55 TEK and Ethnobotany Session – Live Q&A

12:00 - 1:00 LUNCH

12:00 - 1:00 California Department of Fish and Wildlife Botanists Staff Meeting

1:00 - 1:50 Keynote Address

Introduction of the Keynote Speaker

Kerry Byrne, Humboldt State University

Keynote Speaker: Frank Lake, U.S. Forest Service, Pacific Southwest Research Station

Title of Talk: “Indigenous Knowledge and Ethno- Botany: Tribal Understandings and Connections of Plants and the Environment.”

1:50 - 2:10 Keynote Address – Live Q&A

2:15 - 3:30 Session 3: Poster Session

Session Chair: Barbara Castro, California Department of Water Resources - Retired

3:35 - 4:40 Session 4: New Discoveries

Introduction to New Discoveries Speakers and Talks

Session Chair: Jane Van Susteren, California Department of Forestry

Lineage and Species Discovery in the Remarkably Diverse Tribe Eriogoneae – *Eriogonum* and Relatives.

J. Travis Columbus, California Botanic Garden??

Lovely Lomatiums: New Discoveries, Indigenous Uses, and Conservation Needs.

Kevin Mason, Carex Working Group

New Concepts for What is *Erythranthe guttata* and What is Not.

Steve Schoenig, California Department of Fish and Wildlife (retired) and Cal IPC

Steps toward Understanding Western Bellflowers.

Nancy Morin, Flora of North America

4:40 – 5:00 New Discoveries Session – Live Q&A

5:00 – 5:10 Closing Remarks:

Jane Van Susteren, Vice-President of Northern California Botanists and California Department of Forestry

Tuesday, 11 January

9:00 Second Day Opening Remarks

Jane Van Susteren, Vice-President of Northern California Botanists and California Department of Forestry

9:10 – 10:15 Session 5: Great Basin Restoration Approaches

Introduction to Great Basin Restoration Approaches Session

Session Chair: Allison Nunes, Humboldt State University

Restoration Plant Material Development in the Great Basin Region of the United States: A History and Comparison of Research Approaches.

Francis Kilkenny, U. S. Forest Service, Rocky Mountain Research Station

Conservation Implications of the Discovery of New Locations of a Threatened Species using Iterative Ensemble Niche Modeling.

Israel Borokini, University of California, Berkeley Department of Integrative Biology and Northern California Botanists Board of Directors

Interagency Seed Collection Efforts in the Great Basin Ecoregion.

Jess Kindred, Great Basin Native Seed Collection Lead working for the Great Basin Institute in agreement with the Bureau of Land Management.

Surviving in the Invaded Desert: a trait-based approach to restoration in the Great Basin.

Alison C. Agneray, University of Nevada, Reno

10:15-10:35 Great Basin Restoration Approaches Session – Live Q&A

10:40 – 11:45 Session 6: Riparian Vegetation Restoration from Theory to Practice

Introduction to Riparian Vegetation Restoration from Theory to Practice Session

Session Chair: Rob Thoms, Stillwater Sciences

River Restoration 2.0: A Broader Palette of Options and the Return of the Floodplain.

Pete Downs, University of Portsmouth and University of California, Santa Barbara

Water Stress in Riparian Woodlands from Groundwater Decline and Climate Change – Ecosystem Indicators at Multiple Scales.

John Stella, SUNY

In-Steam Floodplain Restoration Case Studies on the Salmon River.

Deja Malone-Persha, Klamath River Watershed Council

Sierra Meadows Restoration Case Studies or Central Valley/Delta Case Studies.

Amy Merrill, American Rivers

11:45-12:05 Riparian Restoration Session – Live Q&A

12:05-1:00 LUNCH

1:00 – 2:05 Session 7: eDNA

Introduction to eDNA Session

Session Chair: Rachel Meyer, University of California, Santa Cruz

CALeDNA Teams Search for Patterns in Plant, Microbe, and Animal DNA Presence in Vernal Pools, Oases, Rivers, Mountains, and Coasts.

Rachel Meyer, University of California, Santa Cruz and Jason Sexton, University of California, Merced

Fungal Metabarcoding to Illuminate Plant-Fungal Networks in Complex Plant Communities.

Gregory Gilbert, University of California, Santa Cruz

Coastal dune restoration efforts complicated by changes in soil biota and chemistry associated with establishment by non-native invader.

Lorraine Parsons, Point Reyes Nation Seashore, National Park Service

Zeta Diversity Patterns in Metabarcoded Lotic Algal Communities as a Tool for Bioassessment.

Ariel Levi Simons, University of California, Los Angeles

2:05-2:25 eDNA Session – Live Q&A

2:30 – 3:15 Session 9: Lightning Talks

Introduction to Lightning Talks Session – **Live**

Session Chair: Kristen Kaczynski, California State University, Chico

3:20 – 4:25 Session 10: Now the Good News

Introduction to Now the Good News Session

Session Chair: Israel Borokini, University of California, Berkeley Department of Integrative Biology

Preventing Extinction of San Mateo Thornmint.

Christal Niederer, Creekside Science

California Native Plant Society Unveils Fully Rebuilt and Updated Rare Plant Inventory.

Aaron Sims, California Native Plant Society

Angelica lucida Mitigation: Comparison of Transplanting and Seeding Restoration Methods, Humboldt Bay, California.

Emily Teraoka, Stillwater Sciences

Tools for a New Decade of Managing Northern California Plant Communities

Recovery Program for Large-flowered Fiddleneck (*Amsinckia grandiflora*): Recent Successes after 30 years of Experimentation.

Holly Forbes, University of California Botanical Garden At Berkeley

4:25 – 4:45 **Now the Good News Session – Live Q&A**

4:50 – 5:00 **Closing Remarks:**

Linnea Hanson, President of Northern California Botanists and U.S. Forest Service, retired