

**CHANGING CHANNELS: THE SCIENCE OF STREAM PROCESSES AND RESTORATION IN THE RUSSIAN RIVER
WATERSHED
CLOVERDALE CITRUS FAIRGROUNDS AUDITORIUM
JANUARY 26, 2018**

Registration and continental breakfast 8-8:30

1. **Welcome:** Supervisor James Gore, Sonoma County 4th District

2. **The Big Picture – Watershed and Channel Processes: Ecological and Human Responses** 8:45-10:00

Stream and Watershed Processes: What are the causes of entrenchment in the Russian River?
G. Mathias Kondolf, PhD, Chairman, Russian River Independent Science Review Panel

Channel entrenchment – Ecological and Human Responses - Laurel Marcus Executive Director,
California Land Stewardship Institute

Questions: 10:00 minutes

Break: 10:00-10:15

3. **Approaches to Address Entrenchment and Restore Stream Dynamics** 10:20-12:00

River Restoration Prescriptions that Work--Frankenstein, C3PO or Pinocchio? – Doug Shields, PhD,
member, Russian River Independent Science Review Panel

A Regulatory Approach to Channel Entrenchment – the Napa River/Sonoma Creek WDR permit –
Michael Napolitano, San Francisco Bay Regional Water Quality Control Board

Demystifying Gravel Augmentation – Rocko Brown, PhD, Cramer Fish Sciences

Restoration Approaches in the Green Valley Watershed-Response to Incision, Flooding and Drought–
Matt O'Connor, PhD, O'Connor Environmental, Inc.

Questions: 10:00 minutes

Lunch 12:00-1:00

4. **Approaches to Change the System** 1:00-2:10

Forward to the Past, Gravel Pits to Floodplains– Brian Cluer, PhD, National Marine Fisheries Service

Riparian Data, Mapping and Modeling to Support Long Term Riparian Corridor Conservation–
Karen Gaffney, Conservation Planning Manager, Sonoma County Agricultural Preservation & Open
Space District

Post-fire Hazard Assessment and Remediation: To Seed or Not to Succeed - Michael Harding

Implementing Managed Bank Retreat: the Carneros Creek Example –Laurel Marcus, Executive
Director, California Land Stewardship Institute

Questions: 10:00 minutes

5. **Looking Ahead** 2:20-3:25

Hydrologic Characterization and a Coupled Watershed and Groundwater-Flow Model of the Russian River Watershed—Tracy Nishikawa, PhD, US Geological Survey

An Update on Groundwater Sustainability Plans:

Sonoma County – Marcus Trotta; Principal Hydrogeologist, Sonoma County Water Agency

Mendocino County – Brian Wallace, Civil Engineer, LACO Associates

Climate Change – How Will Creek and River Channels Respond – Alan and Lorrie Flint, PhDs, US Geological Survey

Questions: 10:00 minutes

Break 3:35-3:50

7. **Panel Discussion** 3:50 – 4:20

Proposed Science Forum

8. **Closing Remarks** – Supervisor Carre Brown, Mendocino County 1st District

Funding for this Event is Provided by the Resource Legacy Fund



CLSI: 550 Gateway Drive Gateway Dr. Suite 108. Napa, CA 94558. Phone: (707) 253-1226