

TWENTY-THIRD ANNUAL MEETING OF THE CALIFORNIA AQUATIC BIOASSESSMENT WORKGROUP

DAVIS, CALIFORNIA
October 18 and 19, 2016

MEETING AGENDA

TUESDAY OCTOBER 18 ARC Ballroom, UC Davis Campus

8:30 – 9:00 **Registration**

9:00 - 9:15 Welcome and Objectives of the Meeting – *Jim Harrington, California Department of Fish and Wildlife (CDFW), Office of Spill Prevention and Response (OSPR), Aquatic Bioassessment Laboratory (ABL)*

9:15 – 9:40 Expanding the Universe of Ecological Indicators in California: a Vision for the Next Decade – *Peter Ode, ABL*

9:40 - 10:00 Overview of the SWAMP Bioassessment Program and Resources – *Calvin Yang, SWRCB*

10:00 – 10:30 Use of RIVPACS-type Multitaxon Distribution Models to Assess Alterations in Regional Biodiversity – *Charles Hawkins, Utah State University*

10:30 – 10:50 **Break**

Session on Aquatic Ecology and Bioassessment Conducted by the United States Geological Survey

10:50 – 11:10 Overview of USGS Regional Stream Quality Assessments and Plans for California RSQA in 2017 – *Pete Van Metre, United States Geological Survey (USGS), Austin, TX.*

11:10 – 11:30 Aquatic Ecology and Bioassessment at the California Water Science Center – *Larry Brown, USGS, Sacramento, CA*

11:30 – 11:50 Assessing Ecosystem Health in a mining-impacted river - USGS investigations of the Clark Fork River, MT Superfund site – *Terry Short USGS, Menlo Park, CA*

11:50 – 12:10 Estimating Unimpaired Streamflows as a Baseline for Assessment of Climate Change and Anthropogenic Modification – *Jason May, USGS, Sacramento, CA*

12:10 – 12:30 Data Analysis as Part of USGS Regional Stream Quality Assessments – *Ian Waite, USGS, Portland, OR*

12:30 – 2:00 **Lunch (on your own)**

Session on Ecohydrology

- 2:00 – 2:20 Introduction to Statewide Efforts to Develop Biologically-relevant Instream Flow Recommendations – *Eric Stein, SCCWRP*
- 2:20 – 2:40 Setting Regional Targets Based on Flow-ecology Relationships to Support Biological Integrity – *Raphael Mazon, SCCWRP*
- 2:40 – 3:00 Managing Functional Environmental Flows in Regulated River Systems – *Sarah Yarnell, Center for Watershed Sciences, UC Davis*
- 3:00 – 3:20 Assessing Hydrologic Change in the Nation's Rivers – *Ted Grantham, UC Berkeley Cooperative Extension*
- 3:20 – 3:40 **Break**
- 3:40 – 4:00 Developing a Coordinated Instream Flow Strategy for California – *Julie Zimmerman, The Nature Conservancy (TNC)*
- 4:00 – 4:20 Discussion

WEDNESDAY OCTOBER 19

ARC Ballroom, UC Davis Campus

- 9:00 – 9:30 Overview of Permitting Process for Scientific Take of Wildlife– *Ona Alminas and Leslie Alber, CDFW*
- 9:30 – 9:50 California Statewide Algae Plan: Past, Present, and Future - *Susanna Theroux, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa*
- 9:50 – 10:35 Garcia River Monitoring Program – Watershed Overview, Status and Trends – *Jonathan Warmerdam, North Coast Regional Water Quality Control Board and Jennifer Carah, TNC, San Francisco, CA*
- 10:35 – 11:00 **Break**
- 11:00 – 11:20 A Rapid Screening Tool for Determining Causes of Biological Impairment in California Streams – *Jerry Diamond, Tetra Tech, Owings Mills, MD*
- 11:20 – 11:50 Reach-scale Riffle and Pool Habitat Vary with Stream Flow, Altering Benthic Community Structure in Reachwide Benthos Samples – *David Herbst, Sierra Nevada Aquatic Research Laboratory (SNARL), Mammoth Lakes CA*
- 11:50 – 12:10 The effects of Drought on Total Dissolved Solids/Conductivity in Streams and Rivers – *John Olson, Desert Research Institute, NV/California State University Monterey Bay*

12:10 – 1:30 **Lunch (on your own)**

1:30 – 5:00 **Special CalSFS Workshop: Hydrology 101:
Understanding the Nexus of Flow and Biology (separate
registration)**

Society for Freshwater Science California Chapter Session

1:30 – 1:45 Riparian restoration scale and stream benefits in California rangelands - *Bronwen Stanford, U.C. Santa Cruz*

1:45 – 2:00 It's time for time: aquatic-terrestrial linkages in California vernal pools - *Jamie Kneitel, C.S.U. Sacramento*

2:00 – 2:15 Evolution and ecology of partial migration in a salmonid fish (*Oncorhynchus mykiss*) - *Suzanne Kelson, U.C. Berkeley*

2:15 – 2:45 Critical role of seasonal tributaries for native aquatic biota in the Sacramento River - *Michael Marchetti, St. Mary's College*

2:45 – 3:00 Break

3:00 – 3:15 Communicating science, creating trust: can you take a message? - *Kat Kerlin, U.C. Davis*

3:15 – 3:30 Piecing it together: Building a story about caddisfly case-building with KQED Science's Deep Look - *Patina Mendez, U.C. Berkeley*

3:30 – 3:45 Science communication and outreach: a view from the mountains - *Brittany Covich, Sierra Nevada Conservancy*

3:45 – 4:00 Panel discussion and Q+A on science communication

Poster presentation: Developing a model to estimate freshwater gross primary production using MODIS surface temperature observations - S. Saberi, K.C. Weathers, H. Norouzi, S. Prakash, J. Boucher, and C. Solomon

4:00 – 5:00 **Annual Meeting of the California Chapter of the Society for
Freshwater Science (CalSFS)**