

EIGHTEENTH ANNUAL MEETING OF THE CALIFORNIA AQUATIC BIOASSESSMENT WORKGROUP

DAVIS, CALIFORNIA
NOVEMBER 9 and 10, 2011

MEETING AGENDA

WEDNESDAY NOVEMBER 9 **ARC Ballroom, UC Davis Campus**

8:00 – 8:30 **Registration**

8:30 - 8:45 [Welcome and Objectives of the Meeting](#) – *Jim Harrington, California Department of Fish and Game, Office of Spill Prevention and Response, Aquatic Bioassessment Laboratory (ABL), Rancho Cordova*

8:45 - 9:55 Updates on the SWAMP Statewide Bioassessment Monitoring

[Status of the Surface Water Ambient Monitoring Program \(SWAMP\) and Recent Accomplishments](#) – *Shakoora Azimi-Gaylon, State Water Resources Control Board (SWRCB), Sacramento*

[Extent of California's Perennial and Non-Perennial Streams](#) – *Jennifer Salisbury, SWRCB*

The Value of a Probabilistic Monitoring Design in SWAMP's Statewide Bioassessment Program – *Dawit Tadesse, SWRCB*

The Condition of California's Wadeable Perennial Streams – *Toni Marshall, SWRCB*

Biology-based Stressor Thresholds - Letting the bugs tell us where enough is enough – *Susan Monheit, SWRCB*

9:55 - 10:15 [Overview and Services Available for Entering SWAMP Bioassessment Data into CEDEN](#) – *Steve Steinberg, SCCWRP*

[Understanding and Using CEDEN](#) - *Karl Jacobs, SWRCB*

10:15 – 10:45 **Break**

10:45 - 11:30 [A Monitoring Network for Detecting the Hydrologic Effects of Climate Change on Sierra Nevada Streams and Biological Indicators](#) - results from the first 2 years– *Dave Herbst, University of California, Sierra Nevada Aquatic Research Laboratory*

11:30 - 11:45 [SWAMP/ABL Bioassessment Training Program](#) – *Jim Harrington, ABL*

Session 1 – Aquatic Invertebrate and Benthic Algae Sampling and Physical Habitat Data Collection

11:45 - 12:15 [Updating the SWAMP Bioassessment Protocol for Collecting Aquatic Invertebrates and Measuring Physical Habitat](#) - Raphael Mazor, *Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, Jim Harrington and Shawn McBride, ABL*

12:15 - 12:45 [Overview and Update on CRAM Procedures used in PSA and Development of CRAM for Various Habitats](#) – *Chris Solek, SCCWRP*

12:45 – 2:00 **Lunch**

Session 1 – Continued

2:00 - 2:30 [Importance of Decontamination in Controlling Aquatic Invasive Species \(AIS\)](#) – *Martha Volkoff, DFG, Habitat Conservation Planning Branch, Invasive Species Program, Sacramento*

2:30 - 2:50 [Spills, Fish Kills and How to Work with DFG for Water Quality Issues](#) – *Janna Rinderneck and Angie Montalvo , DFG, Office of Spill Prevention and Response (OSPR), Sacramento*

Session 2 – Algae Bioassessment Tools and Implementation

2:50 – 3:35 [SWAMP's Tools and Infrastructure for the State's Algae Program](#) – *Lilian Busse, San Diego Regional Water Quality Control Board*

[Algae Inter-Calibration Study: Targeted Riffle and Multi-Habitat Sampling Approaches for Algae Bioassessment](#) - *Matt Cover California State University Stanislaus (CSUS)*

3:35 – 3:45 **Break**

3:45 – 4:15 [Update on the Benthic Algae IBI for Southern California](#) – *Betty Fetscher, SCCWRP*

THURSDAY NOVEMBER 10

ARC Ballroom, UC Davis Campus

Session 3 – Aquatic Invertebrate Laboratory Procedures and Expectations

9:00 – 9:30 [Overview of Freshwater Invertebrate Laboratory Practices and What to Expect from Your Bug Lab](#) – Dan Pickard and Joe Slusark, DFG/Chico State Foundation

9:30 – 9:50 [Processing Freshwater Invertebrates using DNA Barcoding Techniques](#) – Eric Stein SCCWRP

Session 4 – Bioassessment Data Entry and Output

9:50 – 10:05 [Use of the FlexiGrid System for Processing of Physical Habitat data Collected per Multiple Protocols, including SWAMP](#)– Revital Katznelson, UC Berkeley Extension

10:05 – 10:25 [Data In and Data Out: Status on the SWAMP Database and Tools for Biological Data](#) – Marco Sigala, Moss Landing Marine Laboratories

Session 5 – Ambient and Point-Source Bioassessment Data Interpretation

10:25 – 11:10 [Modeling to Improve Precision, Accuracy, and Sensitivity of Biological Indices](#) - Nevada as a case study – Charles Hawkins and Jake Vander Laan, Utah State University, Logan

11:10 – 11:30 **Break**

11:30 – 11:50 [Biological Effects of Hydromodification](#) – Eric Stein, SCCWRP and Matt Cover CSUS

11:50 – 12:10 [Central Coast Agricultural Waiver Bioassessment Results](#) – Sarah Greene Lopez, Central Coast Water Quality Preservation, Inc

12:10 – 12:30 [Malibu Creek Watershed as an Outlier on Water Quality and IBI Scores](#) – Jan Dougall, Las Virgenes Municipal Water District, Calabasas

12:30 – 1:30 **Lunch**

Session 5 Continued

- 1:30 – 1:50 [Effects of Vineyard Coverage and Extent on Benthic Macroinvertebrates in Napa and Sonoma Counties](#) – *Justin Lawrence, UC Berkeley*
- 1:50 – 2:10 [Stressor Identification Process for Dry Creek - Findings and Challenges](#) – *Barbara Washburn, Office of Environmental Health Hazard Assessment Ecotoxicology Program, Sacramento*
- 2:10 – 2:30 [Linking Land Use, Instream Chemical Stressors, and Benthic Invertebrate Assemblages in Nevada Streams](#) – *Jake Vander Laan and Charles Hawkins, Utah State University, Logan*
- 2:30 – 2:50 [Freshwater Amphipods of California and Implications with Bioassessment](#) – *G. O. "Geo" Graening California State University Sacramento*
- 2:50 – 3:10 **Break**
- 3:10 – 3:30 [Bioassessment of San Gabriel River watershed](#) – *Scott Johnson, Aquatic Bioassay & Consulting Laboratories and Kristy Morris, Council for Watershed Health*
- 3:30 – 3:50 [Citizen-based Monitoring Characterizes Water Quality and BMI throughout a Western Sierra Stream](#) – *Joanne Hild and Rachel Durben, Sierra Streams Institute, Nevada City*
- 3:50 – 4:30 Wrap-up of Meeting and Discussion on Forming Workgroups