



## 29th Annual California Aquatic Bioassessment Workgroup Meeting & 10th Annual California Chapter Society for Freshwater Science Meeting October 11th & 12th, 2022 FINAL AGENDA

Location: Cal-EPA Building Byron Sher Auditorium [1001 I street Sacramento Ca, 95814](#)

### Day 1 – Tuesday, October 11, 2022

9:00 am – 9:10 am

#### Welcome and Logistics

Ali Dunn | *State Water Resources Control Board*

John Olson | *California State University, Monterey Bay and Society for Freshwater Sciences – CA Chapter*

### Session 1

9:15 am – 9:35 am

#### DNA-based Approaches for Biomonitoring: What's Next?

Susanna Theroux | *Southern California Coastal Water Research Project*

9:40 am – 10:00 am

#### Incorporation of eDNA into Traditional Bioassessment Monitoring: A San Diego Regional Approach

Chad Loflen | *California Water Quality Control Board - San Diego Region*

10:05 am – 10:25 am

#### The Development of a Novel eDNA Assay for the Detection of the Invasive *Caulerpa prolifera*

Tanner Waters | *University of California- Los Angeles*

10:30 am – 10:50 am

#### Molecular Approaches to Identify and Monitor Toxic Cyanobacteria in California Lakes

Jayne Smith | *Southern California Coastal Water Research Project*

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10:50 am – 11:05 am

**Break**

**Session 2**

11:05 am – 11:25 am

**Examining Shifts in Drying Regimes Across California**

Jessica R. Ayers | *Department of Environmental Science, Policy and Management, University of California, Berkeley, Berkeley, CA*

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11:30 am – 11:50 am

**A Modeled Insect Richness Index for use Across Flow Permanence Gradients: How Does it Compare with the CSCI?**

Jennifer Courtwright | *Utah State University*

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11:55 am – 12:15 pm

**Current Understanding of Application of California's Surface Water Ambient Monitoring Program Bioassessment Indices to Intermittent Streams**

Ali Dunn | *State Water Resources Control Board*

**Lunch Break**

**12:15 pm – 1:45 pm**

**Cal-SFS Business Meeting**

12:20 pm – 12:50 pm

**Cal-SFS Business Meeting** – To be held concurrently during lunch break

**Poster Session**

1:30 pm – 3:00 pm

Poster presenters will be available during this time to present their work and answer questions.

The goal of hosting a poster session is to encourage student attendance and participation at CABW & Cal-SFS, as students are the future members, researchers, and managers of freshwater in California!

**Cal-SFS Sponsored Workshop: California Environmental Flows Framework Workshop: Overview, Application, and Tools**

1:45 pm – 3:45 pm

Workshop presentation and demonstration

**Location: Byron Sher Auditorium**

3:45 pm – 4:45 pm

Hand-on demonstration of the tools

**Location: Coastal Hearing Room**

**Registration:** [Register for the Workshop](#)

**Workshop details:** The [California Environmental Flows Framework](#) (CEFF) is a management approach to efficiently develop scientifically defensible environmental flow recommendations that balance human and ecological needs for water. CEFF was developed to help managers improve the speed, consistency, standardization, and technical rigor in establishing environmental flow recommendations statewide. This workshop will provide an overview of CEFF, introduce technical tools that were developed to support CEFF implementation, and highlight case study applications that address a suite of management questions. The workshop will include presentations and interactive elements, including a demonstration of CEFF tools, and will be oriented towards practitioners working to assess and protect environmental flows in California's rivers and streams.

**Materials needed:** If you are interested in participating in a hands-on demonstration of CEFF tools, including the [natural flows database](#) (web-based) and [functional flows calculator R package](#), please bring your laptop. The functional flows calculator R demonstration will require personal laptops with [R Studio installed](#).

**Donation:** Cal-SFS donation amount of \$20 is suggested to support student attendance at the Society for Freshwater Science annual meeting. Donation options include 1) check made out to Cal-SFS, 2) Venmo to @CalSFS-John-Olson, or 3) Paypal to: cal.chap.sfs@gmail.com

**Instructor:** [Kris Taniguchi-Quan](#)

**Happy hour/ Mixer!**

Information to be provided at the meeting.

**Day 2 Agenda – Next Page**

## Day 2 – Wednesday, October 12, 2022

9:00 am – 9:10 am

Welcome and logistics

Ali Dunn | *State Water Resources Control Board*

John Olson | *California State University, Monterey Bay and Society for Freshwater Sciences – CA Chapter*

### Session 3

9:10 am – 9:30 am

**Vision for an Open-Source Landscape Assessment Visualization Tool to Identify Healthy Watersheds and High-Quality Waters in California**

Corey Clatterbuck | *State Water Resources Control Board*

9:35 am – 9:55 am

**Prioritizing Stream Protection, Restoration and Management Actions Using Landscape Modeling and Spatial Analysis**

Eric Stein | *Southern California Coastal Water Research Project*

10:00 am – 10:20 am

**Interpreting Biointegrity and Biostimulatory Indicators in Modified Channels: An Update on Statewide and Regional Studies**

Raphael D. Mazor | *Southern California Coastal Water Research Project*

10:20 am – 10:35 am

**Break**

### Session 4

10:35 am – 10:55 am

**Vulnerability of Arroyo Toad to Hydrologic Change**

Katie Irving | *Southern California Coastal Water Research Project*

11:00 am - 11:20 am

**Modeling the Distribution of the Amphibian Pathogen *Batrachochytrium dendrobatidis* to Inform Conservation Management**

Umarfarooq Abdulwahab | *Utah State University*

11:25 am – 11:45 am

**Science Supporting the Statewide Biostimulation, Cyanotoxins, and Biological Condition Provisions**

Joseph Westhouse | *State Water Resources Control Board & Southern California Coastal Water Research Project*

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11:50 am – 12:10 am

**Assessing Biotic Conditions in the Carmel River after Dam Removal and River Reroute**

Janelle Vasquez-Nicholas | *California State University Monterey Bay*

**Lunch Break**

**12:10 pm – 1:40 pm**

**Session 5**

1:40 pm – 2:00 pm

**The Benefits of Harvesting Rainwater**

Dennis Evans | *Urban Rain Gardens*

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2:05 pm – 2:25 pm

**Current and Future Thermal Vulnerability in Sierra Nevada Streams**

Kyle Leathers | *University of California Berkeley*

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2:30 pm – 2:50 pm

**Under Budget: Quantifying Reservoir Greenhouse Gas Emissions in Pursuit of Net Zero**

Mark Seelos | *Valley Water*

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2:55 pm – 3:15 pm

**Hydroacoustic Sensing of Methane Storage in California Reservoirs**

Alexander Forrest | *University of California - Davis, Tahoe Environmental Research Center, Valley Water*

4:00 pm

**Meeting adjourn**