



## 28th Annual California Aquatic Bioassessment Workgroup Meeting & 9th Annual California Chapter Society for Freshwater Science Meeting October 12th & 13th, 2021 AGENDA

### Day 1 – Tuesday, October 12, 2021

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| 9:00 am – 9:10 am | <p>Welcome and Logistics</p> <p>Ali Dunn   <i>State Water Resources Control Board</i></p> <p>Angela De Palma – Dow   <i>County of Lake Water Resources and Society for Freshwater Sciences – CA Chapter</i></p> |
| 9:10 am – 9:35 am | <p><b>Keynote</b></p> <p>Anecita S. Agustinez   <i>Department of Water Resources</i></p>  |

### Session 1: Moderator: Ali Dunn, *State Water Resources Control Board*

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| 9:40 am – 10: 00 am  | <p><b>Community Science Resilience: 20-Year Review of Watershed Monitoring with Sierra Streams Institute</b></p> <p>Alexandra Cisneros Carey   <i>Sierra Streams Institute</i></p>                                  |
| 10:05 am – 10:25 am  | <p><b>Macroinvertebrate Distribution Across an Impacted Watershed in the California Central Coast: Implications for Future Monitoring Efforts</b></p> <p>Sarah Stinson   <i>University of California, Davis</i></p> |
| 10:25 am – 10: 35 am | <p><b>Break</b></p>   |

### Session 2: Moderator: Chad Loflen, *California Regional Water Quality Control Board, San Diego*

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|---------------------|---|
| 10:35 am – 10:55 am | <p><b>Monitoring and Assessment Tools that Recognize the Unique Functions of California's Temporary Waters</b></p> <p>Joseph A Morgan   <i>U.S. Environmental Protection Agency, Region 9</i></p> |
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11:00 am – 11:20 am      **The Drying Regimes of Non-Perennial Rivers and Streams**  
Adam N. Price | *Department Earth and Planetary Sciences, University of California, Santa Cruz, California*

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11:25 am – 11:45 am      **Establishing Flow Targets for Management Through Flow-Ecology Analysis: A Functional Flow-Ecology Approach**  
Katie Irving | *Southern California Coastal Water Research Project*

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11:45 am – 1:00 pm      **Lunch Break**  
  
**Cal-SFS Business Meeting** – to be held concurrently during lunch break. This Business Meeting will have the following separate zoom meeting link to access:  
  
[The Cal-SFS Business Meeting](#) will be held in a separate Zoom Meeting.

**Session 3: Moderator: Shuka Rastegarpour, State Water Resources Control Board**

1:00 pm – 1:20 pm      **Biological Objectives for the San Diego Region**  
Chad Loflen | California Regional Water Quality Control Board, Region 9, San Diego

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1:25 pm – 1:45 pm      **Assessing and Managing Biological Integrity in Modified Channels: Updates on Regional and Statewide Studies**  
Raphael Mazor | *Southern California Coastal Water Research Project*

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1:45 pm – 1:50 pm      Meeting Wrap up and Announcements

**Poster Session**

2:00 pm – 3:30 pm      This years' Poster Session will be virtual. The goal of hosting a poster session is to encourage student attendance and participation in CABW & Cal-SFS, as students are the future members, researchers, and managers of freshwater in California!

You will find all posters available for you to view and enjoy all day on both days on the [Cal-SFS Website](#).

The "live" virtual poster session will be held in a [Zoom Rooms video conference](#).

Zoom Rooms is a platform that will allow you have a discussion with the poster author in a single video conference room, just like how you would interact in-person. Posters can be presented in different rooms giving the audience and the presenters a chance to interact, ask questions, follow discussion, both in verbal, audio formats and through the chat feature. The time on the agenda for the poster session is for

live Q&A with the poster presenters and co-authors. During this time, the posters will be judged by the Cal-SFS student poster judging committee. During this live session, audience and presenters can convers and get live feedback (verbal or through chat) from the audience and immediate responses from presenters.

If you are interested, make sure that you enter the [Zoom Rooms video conference](#) meeting during this time of the session. Once you enter the video conference meeting, the main room will have a list of all of the poster titles with their corresponding breakout rooms that each poster is in. You can select which room you want to enter by clicking on the “Breakout Rooms” button at the bottom of the zoom screen (if the Breakout Room button is not visible, check under “More”). Then click on “Join” next to the room you want to enter and select “yes” when prompted. When you are done visiting a poster and talking to the author, you can select “Leave Room” button at the bottom right which will take you back to the main room. You can then enter other rooms. If you have problems or questions, there will be a facilitator in the main room that will help. Once you are done, you can leave the Zoom Rooms video conference meeting by clicking on “Leave”.

It is highly encouraged to attend this unique virtual poster session experience to interact and engage with the poster authors!

3:30 pm

**Meeting adjourn**

**Day 2 Agenda – Next Page**

## Day 2 – Wednesday, October 13, 2021

9:00 am – 9:10 am

Welcome and logistics

Ali Dunn | *State Water Resources Control Board*

Angela De Palma – Dow | *County of Lake Water Resources and Society for Freshwater Sciences – CA Chapter*

### Session 4: Moderator: Carly Nilson, *State Water Resources Control Board*

9:15 am – 9:35 am

**An Assessment of Threats to Endangered and Threatened Freshwater Species in California**

Gary Qin | *University of California, Riverside*

9:40 am – 10:00 am

**Coupling Habitat and Macroinvertebrate Diversity with Juvenile Chinook Salmon Growth and Production in The San Joaquin River Restoration Project**

Steve Blumenshine | *California State University, Fresno*

10:05 am – 10:25 am

**Nutrient and Mineral Cycling in Relationship Aquatic Ecosystem Structure: How Can Data Better Inform Management?**

Byran Fuhrmann | *SePRO Corporation, EutroPHIX Division*

10:30 am – 10:50 am

**DNA-Based Methods Used to Identify Toxin-Producing Cyanobacteria in California Waterbodies**

Jayme Smith | *Southern California Coastal Water Research Project*

10:50 am – 11:00 am

**Break**

### Session 5: Estuary Panel Moderator: Jennifer Siu, *United States Environmental Protection Agency*

11:00 am – 11:15 am

**A Framework for Bioassessment and Monitoring of California's Estuaries**

Jan Walker | *Southern California Coastal Water Research Project*

11:15 am - 11:30 am

**Case Study: The Application of EMPA Assessment Tools in Carmel River Estuary**

Kevin O'Connor | *Central Coast Wetlands Group at Moss Landing Marine Labs*

11:30 am – 11:45 am

**Predicting Fish Assemblages in California Estuaries, Russian River Estuary Random Forest Modeling**

Michelle Tarian | *California State University Monterey Bay*

11:45 am – 12:15 pm

**Panel, Q&A Discussion**

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12:15 pm – 1:00 pm

**Lunch Break**

**Cal-SFS Traditional Ecological Knowledge Session and Panel Workshop**

In 2020, Cal-SFS and CABW attendants expressed interest in a Tribal Ecological Knowledge (TEK) workshop. In response, organizers of this year's Cal-SFS and CABW have planned a TEK Session. The session will include presentations by each invited speaker so that attendees can get a better understanding of the speaker's work with freshwater systems and Tribal communities. After all speakers have presented, they will join a panel for further discussion and Q&A that will be moderated by Cal-SFS Fellows.

The panel discussions and Q&A will be used to enable speakers to share information, advice, and knowledge on how students, early career aquatic scientists, and career agency scientists can better cooperate, partner, and work with and alongside Tribes. This is particularly important when working in systems that are culturally important for Tribes and for recognizing that non-indigenous, western science protocols and methods have a history of intentionally and unintentionally extracting TEK, data, and resources from Tribal communities without consent or reparations as well as excluding Tribes from processes and conversations that they should have been a part of.

This history has impacted water quality data integrity and resulting water policy in California as well as relationships between Tribes and water management agencies. Moreover, non-indigenous academic and career pathways usually do not prepare students for working with Tribes, which is a huge disservice to the ultimate goals of successful freshwater science and management.

This single session can't solve all these aforementioned social, political, and educational issues. However, we hope this session will address part of the education gap, start conversations, raise awareness, increase collaboration, and create a lasting dialog and partnerships that can be used for those working with Tribes in freshwater systems now and into the future.

**Cal-SFS Session**

1:00 pm – 1:15 pm

**Introduction to Cal-SFS, TEK session**

Angela De Palma – Dow | *County of Lake Water Resources and Society for Freshwater Sciences – CA Chapter* and;

John Olson | *California State University, Monterey Bay*

1:15 pm – 1:30 pm

**Clear Lake Tules and Beyond: Collaborative Tribal Beneficial Use Development**

Sarah Ryan | *Big Valley Band of Pomo Indians*

1:30 pm – 1:45 pm

**TBD**

Keith Parker | *Yurok Tribe of California*

1:45 pm – 2:00 pm

**Bursting Through Concrete: Indigenous Water Planning in Tovaangar**

AnMarie Mendoza | *University of California, Los Angeles*

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2:00 pm – 2:15 pm

**Building Understanding Across Worldviews to Increase Recognition of Tribally Specific Beneficial Uses**

Dr. Beth Rose Middleton | *University of California, Davis*; and

Atta Stevenson | *California Indian Water Commission*

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**Cal-SFS Panel**

2:15 -2:20

**Break**

2:20 - 2:30

**Panel and Fellows Introduction**

2:30 - 3:15

**Panel, Q&A Discussion**

Moderated by Cal-SFS Fellows: Melissa, Will, Kyle, Alyssa, and Robin

3:15 - 3:30

**Final Thoughts and Acknowledgments**

**Poster Session**

3:30 pm – 4:00 pm

This years' Poster Session will be virtual.

If you have not yet already checked out all the amazing posters, this is the time to do it! You will find all posters available for you to view and enjoy all day on both days on the [Cal-SFS Website](#).

4:00 pm

**Meeting adjourn**