

27th Annual California Aquatic Bioassessment Workgroup Meeting &

8th Annual California Chapter Society for Freshwater Science Meeting

October 13th & 14th, 2020

AGENDA

Day 1 - Tuesday, October 13, 2020	
9:00 am – 9:10 am	Welcome and Logistics
	Ali Dunn, State Water Resources Control Board and
	Nick Macias, Society for Freshwater Sciences – CA Chapter
9:10 am – 9:35 am	Keynote
	Obi Kaufmann, Coyote Thunder
	Through the Bottleneck: The Ecology of California's Future

rating Temporary Streams into Monitoring and Management:
Southern California Coastal Water Research Project
An introduction to collaborative temporary stream research in the UK
Rachel Stubbington Nottingham Trent University
English temporary streams and why we are interested in them
Judy England Environment Agency, Freshwater Biological Association
and Queen Mary University of London
Chalk stream winterbournes - a case study
Tim Sykes University of Southampton
Terrestrial Invertebrates as Biomonitors in 'Winterbourne' Streams
Rachel Stubbington Nottingham Trent University
Dry-phase Plant Community Responses to Human Impacts in Cool,
Wet Temporary Streams
Chloe Hayes Nottingham Trent University
Identifying Sites of High Terrestrial Invertebrate Richness and Rarity
from Simple Habitat Surveys
Kieran Gething Nottingham Trent University

10:30 am – 10:40 am	Exploring Public Perceptions of Dry Temporary Streams
	Tim Sykes University of Southampton
10:40 am – 11:00 am	Panel Discussion
11:00 am – 11:15 am	Break

Session 2	difornia Danartmant of Eigh and Widdlife
•	alifornia Department of Fish and Wildlife
11:15 am – 11:35 am	A Conceptual Framework and Sampling Methodology for
	Bioassessment in Eelgrass (Zostera marina) Beds in California's
	Estuaries
	David Gillett and Kenneth McCune Gillett, McCune - Southern
	California Coastal Water Research Project; McCune - California State
	University Long Beach
11:35 am – 11:55 am	A Regional Assessment of Trends in Stream Condition in Southern
	California
	Raphael Mazor Southern California Coastal Water Research Project
11:55 am – 12:15 pm	Restoration and Protection Prioritization Tool for Southern California
	Streams
	Jerry Diamond Tetra Tech, Inc.
12:15 pm – 1:15 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:

Virtual Poster Session

The goal of hosting this session is to encourage student attendance and participation in CABW & Cal-SFS, as students are the future members of SFS and the next generation of freshwater scientists!

1:15 pm – 2:15 pm

This years' poster session will come of two forms: virtual posters and lightning talks. You will find all posters and lightning talks available for you to view and enjoy all day throughout the meeting on both days <a href="https://doi.org/10.1501/jhear.150

We will be using the Slack platform to gather questions for the virtual poster presenters and lightning talk presenters. Questions can be submitted all day and long after the meeting is over. This time on the agenda is reserved for a <u>live</u> Q&A session with virtual poster presenters and lightning talk presenters, where you can converse and get live feedback and responses immediately from the presenters.

Click HERE to be directed to the Cal-SFS Business Meeting meeting

If you are interested in participating in the Q&A, please view this <u>Slack</u> <u>Guide</u> for instructions on how to sign up and join (it is free!)

This first day will be the competitive student poster competition, where students can be judged on their virtual posters/lightning talk for a chance to win cash prizes (UG, MS, and PhD categories). These student poster/lightning talk opportunities are aimed to help attract students to attend this meeting and to showcase their current research or projects while learning from other freshwater scientist professionals and about other freshwater activities being conducted by universities, tribes, agencies, and other organizations.

Workshop #1: Beginning R

2:15 - 4:15

The Beginning R Workshop is aimed at folks with little/no experience in R, or who are just beginning to use R. All are welcome, but we will be covering content assuming folks have not used R before.

If you are interested in signing up for the R workshop, please fill out the <u>Registration Form Registration Form</u> and make sure you select "Yes" for "Day 1". We will email the Zoom information out to the <u>first 50 participants</u>. Recordings will be made public after the workshop and will be posted on the <u>State Water Board Program Page</u>.

The session will be approx. 2 hours, with breaks.

Day 2 - Next Page

Day 2 – Wednesday, October 14, 2020

9:00 am – 9:05 am Welcome and Logistics

Ali Dunn | State Water Resources Control Board

Session 3 Panel: Environmental DNA Approaches for Biodiversity and Species Monitoring

Moderator: Suzie Theroux, Southern California Coastal Water Research Project

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9:05 am – 9:10 am	Panel Opening and Introduction
	Suzie Theroux Southern California Coastal Water Research Project
9:10 am - 9:20 am	Advancing eDNA Tools for Bioassessment Applications
	Suzie Theroux Southern California Coastal Water Research Project
9:20 am – 9:30 am	Using Enclosure Experiments to Inform eDNA Interpretation in the
	San Francisco Estuary
	Ann Holmes University of California, Davis
9:30 am – 9:40 am	CDFW's First In-House eDNA Projects: Recent Success in Aiding
	Reintroduction of a Listed Trout and Future Directions with Native
	Fishes
	Kristen Ahrens California Department of Fish & Wildlife
9:40 am – 9:50 am	A Biodiversity Composition Map of California Derived from
	Environmental DNA Metabarcoding and Earth Observation
	Meixi Lin Department of Ecology and Evolutionary Biology, University
	of California - Los Angeles
9:50 am – 10:00 am	Jonah Ventures: Knowledge in Sequence
	Nicole Witzel and Peter Houpt Jonah Ventures and the State Water
	Resources Control Board
10:00 am – 10:20 am	Panel Discussion
10:20 am – 10:25 am	Break

Session 4

Moderator: John Olson, California State University, Monterey Bay

10:25 am – 10:45 am	Surface Water Ambient Monitoring Program (SWAMP) Bioassessment Program: Preview of Statewide Conditions of Perennial Streams & Snapshot of Current Program Efforts
	Ali Dunn State Water Resources Control Board
10:45 am – 11:05 am	Predicting Geographic Distributions of Fishes in Remote Stream
	Networks Using Maximum Entropy Modeling and Landscape
	Characterizations
	Anna Holder Desert Research Institute, California State University,
	Monterey Bay and State Water Resources Control Board

11:05 am – 11:25 am	Climate Change Impacts on a Sierra Nevada Foothill Watershed Two Decades of Citizen-Science Data Demonstrate Climate-Driven Shifts in	
	Perennial Stream Water Quality	
	Jeff Lauder University of California Merced and Sierra Streams	
	Institute, Sierra Streams Institute	
11:25 pm – 12:10 pm	Lunch Break	
Session 5		
Moderator: Keith Bouma	-Gregson, State Water Resources Control Board	
12:10 pm – 12:30 pm	Hypolimnetic Oxygenation to Control Mercury Bioaccumulation in	
	Lakes: Two Case Studies	
	Marc Beutel and Mark Seelos UC Merced Environmental Systems	
	Graduate Group and Valley Water	
12:30 pm – 12:50 pm	Statistically Modeling 28 Years of Periphyton Blooms in an	
	Oligotrophic Lake	
	Karen Atkins Tahoe Environmental Research Center, University of	
	California, Davis	
12:50 pm – 1:10 pm	Managing the Nitrogen to Phosphorus (N:P) Ratio for Improved	
	Aquatic Ecosystem Function	
	Byran Fuhrmann SePRO Corporation. and University of California,	
	Merced	
1:10 pm – 1:20 pm	Break	

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Workshop #2: Intermediate R

2:15 pm - 4:15 pm

The Intermediate R Workshop is aimed at folks with some experience in R. All are welcome, but we will be covering content assuming folks have at minimum covered content from Day 1 and/or used R before.

If you are interested in signing up for the R workshop, please fill out the <u>Registration Form</u> and make sure you select "Yes" for "Day 2". We will email the Zoom information out to the <u>first 50 participants</u>. Recordings will be made public after the workshop and will be posted on the <u>State Water Board Program Page</u>.

The session will be approx. 2 hours, with breaks.