

Watershed Health Indicators and Data Science Symposium - Agenda

2nd Annual - June 29 and 30, 2017

CalEPA-Byron Sher Auditorium

Thursday, June 29, 2017

9:00-10:00	Registration, Check-in, Networking	
10:00-10:10	Welcome, Introductions	Steve Moore, Vice Chair State Water Board
10:10-10:40	Keynote Speaker – Data Science, Designed	Dan Hammer, Earth Genome
	Session 1-Synthesis –More than the Sum of the Parts	Moderator –Ali Dunn
10:40-11:00	Consideration of Non-Stationary Sediment Dynamics in Watershed Based Plans	Dr. Andrew Gray, UC Riverside
11:00-11:20	Factoring Pesticides of Emerging Concern in the TMDL Process	Bryn Phillips, UC Davis
11:20-11:40	Developing a Screening Causal Assessment Framework for California’s Waters	David Gillett, SCCWRP & Grant Sharp, OC Public Works
11:40-12:00	Central Coast Healthy Watersheds assessment: Integrating Surface Water, Groundwater, and Land Use Data into a Regional Assessment to Support Management Decision-Making	Karen Worcester, CCWQCB
12:00-1:15	Lunch	Posters, Networking
	Session 2 – New Technology and Data	Moderator-Erick Bures
1:15-1:30	High-Frequency Nutrient and Biogeochemical Monitoring: Connecting the Dots between Drivers and Effects of Constituent Concentrations	Tamara Kraus, USGS
1:30-1:45	Using Small Unmanned Aerial Systems (sUAS) for Environmental Mapping and Monitoring	Steve Steinberg, SCCWRP
1:45-2:00	Use of FlowCAM in the Sacramento-San Joaquin Delta: An Innovative Technology to Rapidly and Reliably Perform Particle Analysis	Sarah Lesmeister, CDWR
2:00-2:15	Artificial Intelligence, Image Recognition & Conservation, or How to Make Computers Do the Boring Parts of Your Job	Kate Wing, K/W Consulting
2:15-2:45	<i>Short talks about emerging technology in watershed monitoring and data science by Industry Leaders and time to visit display</i>	See Special Session Information
2:45-3:00	Networking Break	
3:00-3:30	<i>Short talks about emerging technology in watershed monitoring and data science by Industry Leaders and time to visit displays</i>	See Special Session Information
	Session 3 - Emerging Laboratory Methods and Analyses	Moderator – Claire Waggoner
3:30-3:50	Passive Sampling of Surface Waters in the Sierra Region of Northern California for Pesticides used in <i>Cannabis</i> and Timber Cultivation	Megan McWayne, USGS
3:50-4:10	Test-driving a New CEC Framework to Effectively Screen for Chemical Occurrence and Effects in Aquatic Environments	Alvina Mehinto, SCCWRP
4:10-4:30	Development and Evaluation of an Environmental DNA (eDNA) Protocol to Monitor Wild Delta Smelt	Mandi Finger, UC Davis
4:30-4:50	Case Studies: Application of DNA-based Tools for Cyanobacterial Monitoring	Tim Otten, Bend Genetics
4:50-5:00	Wrap up and Adjourn	Greg Gearheart

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9:00-9:10	Welcome back-Summary	Greg Gearheart
	Session 4a- Managing urban runoff informed by monitoring program data	Moderator- Eric Stein
9:10-9:30	Pragmatic Model Design and BMP Field Verification for Improved Stormwater Management Tracking	Gary Conley, 2 nd Nature
9:30-9:50	The Urban Drool Tool: Investigating Unnatural Water Balance and Flow in Orange County	Amanda Aprahamian, OC Public Works Monobina Mukherjee, Moulton Niguel Water District
	Session 4b - Environmental flows – lots of tools, lots of decision	Moderator-Erin Ragazzi
9:50-10:10	A Coordinated Approach for Developing Statewide Environmental Flow Regulations in California	Julie Zimmerman, TNC
10:10-10:30	Developing Tier 1 Environmental Flow Targets using a Functional Flows Approach	Sarah Yarnell, UC Davis
10:30-10:45	Networking Break	
10:45-11:05	Development of Recommended Flow Targets to Support Biological Integrity Based on Regional Flow-ecology Relationships for Benthic Macroinvertebrates in Southern California Streams	Eric Stein, SCCWRP
11:05-11:25	Question-Driven Flow Criteria: Overview of Regional and Site-Specific Approaches for Assessing Instream Flow Needs for Fish and Wildlife in California	Robert Holmes, CDFW
11:25-11:40	Quality Assurance Tools for Instream Flow	Will Hagan, Moss Landing Marine Laboratories
11:40-12:00	Tracking Fates of Central Valley Freshwater Flows (data visualization)	Greg Reis, The Bay Institute
12:00-12:30	Flow Panel Discussion	
12:30-1:30	Lunch	
1:30-2:45	Unveiling of first Water Quality Status Report	Greg Gearheart, SWRCB-OIMA Lori Webber, SWRCB-SWAMP
2:45-3:00	Wrap up, Next Events, and Adjourn	Greg Gearheart