

Discussion Panels

Panel 1: Understanding the Nature of Science and Citizen Science's Role

Jennifer Lentz, Education and Citizen Science Programs Coordinator, Aquarium of the Pacific: *Moderator*

Heidi Ballard, Associate Professor, Environmental Science Education and UC Davis Chancellor's Fellow, UC Davis School of Education

Dan Lawson, Fisheries Biologist, NOAA Fisheries, West Coast Region Protected Resources Division

Katherine Pease, Watershed Scientist, Heal the Bay

Rebecca Johnson, Citizen Science Research Coordinator, California Academy of Sciences

Panel 2: Engaging Local Communities

Sanden Totten, KPCC Science Reporter: *Moderator*

Beth Pratt, California Director, National Wildlife Federation

Cassandra Davis, Sea Turtle Monitoring Program and Education Volunteer Coordinator, Aquarium of the Pacific

Susan von Thun, Senior Research Technician and Social Media Associate, Monterey Bay Aquarium Research Institute

Dirk Burcham, WIES-Catalina Conservation Divers

Posters

A Framework of Citizen Science: How the Nature of the Resource Influences Methods and Outcomes: Sarah Chase and Dr. Arielle Levine, San Diego State University, Geography Department

A Teaching Aid to Enable Better Turtle Observation Data Collection: Heidi Ziegler and Dennis Ertzman, Los Cerritos Wetlands Sea Turtle Monitoring Project

Aliso Creek Turtle Organization and Rescue: Michael Skibsted, St. Mary's School

Creating Pathways for Exploring and Monitoring Freshwater and Aquatic Environments: Erick Burres, State Water Resources Control Board-Clean Water Team

Los Angeles Coastal California Naturalists: Holly Rindge and Linda Chilton, USC Sea Grant

Whale CITE: A Citizen Science Program for Whale Sightings Along the U.S. West Coast: Dan Lawson, Monica DeAngelis, Sarah Chase, Melissa Kent, Michelle Ferraro, Jacob Marziaz, Jen Jelincic, Arielle Levine, and Ellen Hines, NOAA NMFS West Coast Region



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CITIZEN SCIENCE

for Conservation in Southern California

SYMPOSIUM

The Aquarium of the Pacific and its Marine Conservation Research Institute welcome you to our Citizen Science Symposium!

Keynote Speaker



Caren Cooper, PhD, is Assistant Director of the Biodiversity Research Lab at the North Carolina Museum of Natural Sciences and adjunct assistant professor at North Carolina State University. Cooper's citizen science research lab focuses on promoting community participation in avian research for stewardship and pollution biomonitoring and mapping. For 14 years Cooper helped design several citizen science projects at the Cornell Lab of Ornithology. Cooper also collaborates with social scientists to study citizen scientists to understand land stewardship and conservation behaviors, as well as the societal implications of participatory research. Cooper was involved in the formation of the Citizen Science Association, leading the committee to create a new journal, *Citizen Science: Theory and Practice*. Cooper is also a Senior Fellow in the Environmental Leadership Program with a focus on science communication. Cooper is a blogger with SciStarter, syndicated to Citizen Science Salon at Discover Magazine and Citizen Science in the PLOS Blogging Network and guest blogger at Scientific American. Cooper is founder and moderator of citizen science Twitter-chats (#CitSciChat). You can follow her on Twitter @CoopSciScoop.

A Special Thank You to Our Committee Members

Claire Atkinson, Senior Manager of Communications, Aquarium of the Pacific

Bob Grove, Board Member, Marine Conservation Research Institute

Corinne Heyning Laverty, Vice Chair, Marine Conservation Research Institute

Lee Kats, Vice Provost, Pepperdine University

Caron Laird, Secretary, Marine Conservation Research Institute; Senior Communications Manager, California State University Office of the Chancellor

Karen Martin, PhD, Professor of Biology, Pepperdine University

Mary Parsell, Conservation Chair, El Dorado Audubon

Richard Smart, Coordinator, Citizen Science Program, Natural History Museum of LA County

Nancy Steale, Board Member, Marine Conservation Research Institute

Melissa Studer, Marine Conservationist, Beach Ecology Coalition and All Ashore Grunion Greeters

Gitte Venich, Program Manager, Earthwatch Institute

Agenda

8:00am - 9:00am – Check In & Complementary Breakfast
Harbor Terrace

9:00am - 9:10am – Welcome and Introduction
Ocean Theater

9:15am - 9:45am – Keynote Speaker
Ocean Theater

10:00am - noon – Lightning Rounds
Ocean Theater

Noon - 1:00pm – Lunch

1:00pm - 3:00pm – Panels
Ocean Theater

3:00pm - 4:00pm – Special Sessions
Ocean Theater

4:00pm - 5:30pm– Meet & Greet Poster Reception
Harbor Terrace & Ocean Science Center

5:30pm - End of Symposium

Lightning Round Presentations : 10am—noon, Ocean Theater

Order of presentations subject to change

Citizen Science for Natural Resource Management – Does participation foster awareness and stewardship?: Sarah Chase and Dr. Arielle Levine; San Diego State University, Geography Department

Using Citizen Science to Identify Sevengill Sharks: Barbara Lloyd and Michael Bear; Ocean Sanctuaries

Mission Bay Pollution Survey: Laura Coleman

Los Cerritos Wetlands Bird Counts: Mary Parsell; El Dorado Audubon, local chapter of The National Audubon Society

Empowering and Supporting Naturalists in Biodiversity Documentation for Research, Conservation, and Community Building: Alison Young and Rebecca Johnson; California Academy of Sciences

Happywhale: A Citizen Science Web Platform to Improve the Participatory Experience and Quality of Whale Photographic Identification Studies: Ted Cheeseman, John Calambokidis, Ken Southerland, and Kiirsten Flynn; Happywhale.com

Lightning Round Presentations Continued

Sand Crab Monitoring as a Way to Engage the Community About Ocean Health: Taylor Spesak and Catherine Hoffman; Heal the Bay

Long Beach Fish Study: William Preston Bowling; Friends of the Los Angeles River (FoLAR)

Urban Tides Community Science Initiative: Holly Rindge and Linda Chilton; USC Sea Grant

Catalina Conservancy Divers: Lessons Learned for Volunteer-Based Monitoring: Dirk Burcham and Thomas W. Turney; WIES-Catalina Conservation Divers


Reef Check California – How Scuba Divers Become Expert Citizen Scientists: Jan Freiwald and Colleen Wisniewski; Reef Check California


Visualizing Sea Turtle Surfacing Data: Heidi Ziegler; Los Cerritos Wetlands Sea Turtle Monitoring Project


From Baseline Data Collection to On-Going Resource Management-12 Years of Engaging Community in Citizen Science Along the San Diego River: Shannon Quigley-Raymond; San Diego River Park Foundation

Community HABwatch Program: Holly Rindge and Linda Chilton; USC Sea Grant

Ongoing Activities: 12pm—1pm, Tidal Zone Classroom

 **Sea Turtle Monitoring:** Counting sea turtles using pre-recorded footage from the monitoring program on the San Gabriel River

 **Dolphin and Whale Identification:** Using photos to ID whales and dolphins

 **Water Quality Testing:** Viewing water samples under a hi-res microscope to look for harmful algal blooms

Special Sessions: 3pm—4pm, Ocean Theater

Citizen Science as a Tool for Engaging Communities in Science Education
Lila Higgins, Manager, Citizen Science Program, Natural History Museum

Ensuring a Legacy for Your Citizen Science Environmental Monitoring Data
Erick Bures, Citizen Monitoring Coordinator and Senior Environmental Scientist (Specialist), Clean Water Team - State Water Resources Control Board

Increasing Public Awareness and Engagement Through Citizen Science
Cassandra Davis, Sea Turtle Monitoring Program and Education Volunteer Coordinator, Aquarium of the Pacific

Citizen Science And MPA Monitoring in Support of the State
Marisa Villarreal, Project Scientist, Ocean Science Trust