

Developing a Citizen Science Program for the Multi-Agency Rocky Intertidal Network (MARINe)

Andrea Maguire and Lisa Gilbane; *Bureau of Ocean Energy Management (BOEM)*

Data Quality in Citizen Science: Applying Technology to Assess Volunteer Participation in Marine Wildlife Research

Cassandra Davis¹, Barbara Ramon¹, Jennifer Lentz¹, and Dan Lawson²; *Aquarium of the Pacific (AOP)*¹ and *National Marine Fisheries*²

Development and Enhancement of the Michigan Invasive Aquatic Plant Citizen Monitoring Program

Angela De Palma-Dow and Jo Latimore; *Michigan State University* and *MiCorps Cooperative Lakes Monitoring Program*

Harmful Algal Bloom Watch (HABwatch): Long Beach

David Merrill, Cassandra Davis, and Jennifer Lentz; *AOP*

Monitoring Coastal Cactus Wren in the Palos Verdes Nature Preserve

Josh Weinik; *Palos Verdes Peninsula Land Conservancy (PVPLC)*

Monitoring Wild Canids in the Palos Verdes Nature Preserve by Josh Weinik; *PVPLC*

Overlap Between Blue Whale Location Patterns and Busy Shipping Lanes May Increase Risk of Ship Strikes off the Coast of Southern California

Brayden Massie, Kailey Macpherson, Diana Pabón, Lindsey McVay, and Jacqueline Olvera; *AOP*

Project CRYSTAL: Citizen Science Goes to School

Rossella Santagata, Hosun Kang, Sarah Kimball, Jennifer J. Long, Sara Ludovise, and

A Special Thank You our Planning Committee and Event Sponsors

Robert S. Grove, Ph.D., *Marine Conservation Research Institute*

Caron Laird, *Marine Conservation Research Institute*

Cassandra Davis, M.Sc., *Aquarium of the Pacific*

Claire Atkinson, *Aquarium of the Pacific*

Corinne Heyning Laverty, *Marine Conservation Research Institute*

Jennifer Lentz, Ph.D., *Aquarium of the Pacific*

Karen Martin, Ph.D., *Pepperdine University; & Grunion Greeters*

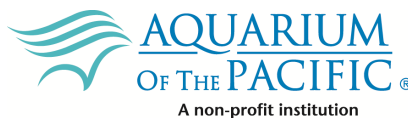
Linda Chilton, *USC Sea Grant*

Mark Chandler, *EarthWatch*

Mary Parsell, *El Dorado Audubon*

Nancy Steale, Ph.D., *Marine Conservation Research Institute*

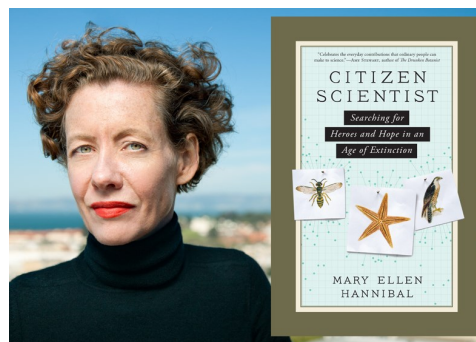
Richard Smart, *Natural History Museum of Los Angeles County*



CITIZEN SCIENCE for Conservation in Southern California SYMPOSIUM

The Aquarium of the Pacific, Marine Conservation Research Institute, and Premier
Welcome you to the 2nd Annual Citizen Science Symposium!

Keynote Speaker



Mary Ellen Hannibal is an author and avid citizen scientist from the Bay Area. Her work focuses on science, culture, and the important connections between people, species, and ecosystems. Her publishing credits include work in *The New York Times*, *Esquire*, and more. She is a recipient of the National Association of Science Writers' Science and Society Award, along with multiple fellowships.

In her most recent book, *CITIZEN SCIENTIST: Searching for Heroes and Hope in an Age of Extinction*, Hannibal illustrates how citizen science may be the last and best hope for solving countless environmental problems. In the process of exploring citizen science, Hannibal traces the roots of the modern Citizen Science project back centuries, to roots in amateur naturalist observations and writings. Her story weaves together personal experience embarking on a journey of citizen science projects with extensive journalistic research in a compelling memoir.

Agenda

8:00 a.m. - 9:00 a.m.	Check In & Complementary Breakfast	<i>Harbor Terrace</i>
9:00 a.m. - 9:10 a.m.	Welcome and Introduction	<i>Ocean Theater</i>
9:10 a.m. - 10:00 a.m.	Keynote Speaker	<i>Ocean Theater</i>
10:00 a.m. - 11:30 a.m.	Lightning Round Presentations	<i>Ocean Theater</i>
11:30 a.m. - 1:00 p.m.	Lunch & Optional BioBlitz	
1:00 p.m. - 3:00 p.m.	Moderated Panel Discussions	<i>Ocean Theater</i>
3:00 p.m. - 4:00 p.m.	Special Session Presentations	<i>Ocean Theater</i>
4:00 p.m. - 6:00 p.m.	Reception with Posters & Book Signing	<i>Veranda</i>
6:00 p.m.	End of Symposium	



The following talks will be presented in the order shown below

Please save all questions for the end of this session

Citizen Science is Community Service

Rosalind Helfand; *West Hollywood College Preparatory School*

Linking Education, Conservation, & Resource Management through Citizen Science

Kaitlin Magliano and Chris Halsch; *Crystal Cove Alliance*

Sand Crab Monitoring as a Way to Engage the Community

Taylor Spesak and Keara Tusso; *Heal the Bay's Santa Monica Pier Aquarium*

Water Quality Monitoring of 303(d) Listed Streams in the San Bernardino National Forest

Sherri Craig¹, Jennifer Byler¹, and Bill Wells²;
Fisheries Resource Volunteer Corps¹ and U.S. Forest Service²

Ocean Water Quality Monitoring in San Clemente

Lisa Kerr and AP Environmental Science Students; *San Clemente High School*

Citizen Scientists Track Reef Health in California

Katie Kozma and Jan Freiwald; *Reef Check Foundation*

Organizing a Watershed-Wide Citizen Science Network

Erika Presley and Erin Snyder; *Riverside-Corona Resource Conservation District*

Estimating Urban Carnivore Populations Using Noninvasive Techniques via Camera Traps

Korinna Domingo; *Santa Monica College*

Southern California Bottlenose Dolphin Catalog Project for Citizen Scientists

Margaret Snelgrove and Kera Mathes; *Aquarium of the Pacific (AOP)*

Ghost Gear, the Damage Abandoned Fishing Gear Causes

Kurt Lieber; *Ocean Defenders Alliance*

Personal Impact and Awareness: A Case Study Examining the Effects of Citizen Science Involvement

Lynn Massey, Heidi Ziegler, Cassandra Davis, Jennifer Lentz, and Peggy Morrison;
Aquarium of the Pacific (AOP)

Ocean Sanctuaries: Marine Citizen Science in San Diego

Bridget Altman; *Ocean Sanctuaries*

Catalina Marine Society Projects

Karen Norris; *Catalina Marine Society*

Snapshot Cal Coast: Mobilizing Community Members to Document Species Ranges Along the California Coast

Alison Young and Rebecca Johnson; *California Academy of Sciences*

Panel 1: How Citizen Science IS Making a Difference (1-2 p.m.)

This panel will provide an overview of local Citizen Science programs, discuss the different types and functions of these programs, their importance, and how citizen science data is being used to make an impact in Southern California academic research, resource monitoring and management, policy, and as a tool for community engagement.

Ron Kilgore, *KNX Radio* (Panel Moderator)

Lila Higgins, *Citizen Science Program Manager*
Natural History Museum Los Angeles County (NHMLA)

Michael Quill, M.A., *Marine Programs Director, LA Waterkeeper and MPA Watch*

Darrel Jenerette, Ph.D., *Associate Professor, UC Riverside Professor*
Lead Researcher, Earthwatch Urban Resiliency Program

Daniela Soleri, Ph.D., *Associate Research Scientist, UC Santa Barbara*

Panel 2: Importance of Study Methodology and Quality Data (2-3 p.m.)

This panel will discuss what data QA/QC is, why it is important, what happens when there isn't robust data QA/QC, and provide examples of breakthroughs that have been made because of citizen science data.

Amber Dance, Ph.D., *Freelance Science Writer* (Panel Moderator)

Erick Burres, *Citizen Monitoring Coordinator, Sr. Environmental Scientist Specialist,*
Clean Water Team - State Water Resources Control Board (SWRCB)

Karen Martin, Ph.D., *Biology Professor, Pepperdine University*
Co-Founder and Executive Director, Grunion Greeters

Gregory Pauly, Ph.D., *Associate Curator of Herpetology*
Natural History Museum of Los Angeles County (NHMLA)

Juliette Finzi Hart, Ph.D., *Oceanographer and Director of Outreach,*
U.S. Geological Survey (USGS)

Citizen Science in the Classroom

Molly Porter, *Natural History Museum of Los Angeles County (NHMLA)*

Building an Engaged Community: Tips for Communicating Citizen Science Projects

Holly Rindge and Linda Chilton; *USC Sea Grant*

ACS/LA Gray Whale Census and Behavior Project Citizen Science: Recruiting and Retaining Volunteers

Alisa Schulman-Janiger, *American Cetacean Society, Los Angeles Chapter*