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- **Location:** COSEE California is based at the Lawrence Hall of Science, University of California, Berkeley
- **Website:** www.coseeca.net/
- **Collaborators/Partners:** Lawrence Hall of Science, University of California, Berkeley; Scripps Institution of Oceanography/University of California, San Diego; San Diego Unified School District; College of Exploration; University of Hawaii; COSEE NOW; COSEE GL; COSEE West
- **Co-Principal Investigators, and Key Project Partners:** Catherine Halversen and Lynn Tran, Lawrence Hall of Science; Michael Senise, San Diego Unified School District; Peter Tuddenham, College of Exploration; Nigella Hillgarth and John Orcutt, Scripps Institution of Oceanography, UCSD; Kanesa Duncan, University of Hawaii, Manoa; Judy Lemus, University of Hawaii, Manoa; Clyde Sakamoto, Maui College, University of Hawaii

COSEE CALIFORNIA

Mission: COSEE California is dedicated to creating collaborations among scientists and educators that enhance the public's understanding and appreciation of the ocean. We focus on developing and widely disseminating models and approaches that engage scientists and educators in promoting ocean literacy.

What We Do: COSEE California brings ocean scientists and educators together to promote ocean sciences literacy in several ways:

- **Ocean Literacy Campaign:** COSEE California is a leader in the nationwide grassroots effort to develop the Ocean Literacy Scope and Sequence for Grades K-12, which provides teachers, program developers, textbook writers, assessment developers and standards committees guidance on ocean science concepts appropriate for each grade band: K-2, 3-5, 6-8, 9-12. Efforts also include the development of an Ocean Literacy Survey and Index to measure the impact of these efforts.
- **Communicating Ocean Sciences (COS):** The COS courses, professional development programs and scientist workshops are co-taught by scientist/educator teams to introduce undergraduate and graduate students, informal educators and scientists to learning theory and pedagogy, and are currently taught at dozens of colleges/universities and informal science institutions in the U.S. and Japan.
- **Teaching Ocean Sciences in the 21st Century:** COSEE CA is using technological advances in computing and information and communications technology to link ocean science researchers, educators and the public. Scientists work with educators to develop on-line ocean sciences resources for middle and high school instruction, link to classrooms using video conferencing technology, develop educational games focused on ocean research, and reach millions through the UCSD-TV Perspectives on Ocean Science speaker series.



Who We Are: COSEE California is a partnership between the Lawrence Hall of Science at University of California, Berkeley; Scripps Institution of Oceanography; College of Exploration; San Diego Unified School District; and the University of Hawaii at Manoa.

Audience: Ocean scientists, university science instructors, undergraduate science majors, K-12 classroom teachers, informal educators.

Date Established: Fall 2002

Why We Were Established: COSEE CA was established to develop exceptional tools, resources and programs that can be used nationwide to elevate the prominence of ocean sciences in the K-12 and informal science education communities and to help scientists communicate science more effectively to diverse audiences.

History: In our first five years, COSEE CA developed strategies for engaging scientists and educators in high functioning partnerships, developed innovative college courses (Communicating Ocean Sciences), developed a Marine Careers Web Site, launched a K-12 MARE Center at Scripps, and co-created the Ocean Literacy Campaign. Since 2007 we have begun the expansion of the Ocean Literacy Campaign, the adaptation and widespread dissemination of the Communicating Ocean Sciences courses, and the new development of Ocean Sciences Teaching Tools for 21st Century Classrooms.



What We Offer...

COSEE California engages teachers, scientists, and informal educators in a broad range of programs, including:

- Scope & Sequence for Ocean Literacy Principles encourages scientists and educators to work together to determine how ocean sciences ideas and concepts can be organized and taught at different grade bands
- Communicating Ocean Sciences courses bring educators and scientists together to teach college students how to communicate about their science knowledge to the public
- 21st Century Classroom makes scientists and their research real and approachable for middle and high school students

Example Offerings...

- Annual Communicating Ocean Sciences Instructors Workshop
- Virtual Field Trip for Middle School Students to a Scripps Marine Lab
- Communicating Ocean Sciences Informal Educators Workshops
- Ocean Literacy Workshops for Professional Developers