

- **Principal Investigator:** Ivar Babb, University of Connecticut
- **Location:** COSEE TEK is based at the University of Connecticut, Avery Point in Groton, CT
- **Website:** [www.coseetek.net](http://www.coseetek.net)
- **Collaborators/Partners:** The University of Connecticut's Northeast Underwater Research Technology & Education Center (NURTEC) and Department of Marine Sciences; Connecticut Sea Grant; Project Oceanology; Mystic Aquarium & Institute for Exploration; American School for the Deaf; National Association of Black Scuba Divers; UConn School of Engineering; and Louis Stokes Alliance for Minority Participation
- **Co-Principal Investigators and Key Project Partners:** Kelly Matis, Mystic Aquarium & Institute for Exploration; Diana Payne, Connecticut Sea Grant; Lauren Rader, Project Oceanology; John Hamilton, NURTEC/University of Connecticut; Michael McKee, NURTEC/University of Connecticut; Kevin Joy, NURTEC/University of Connecticut; Heidi Diersen, James O'Donnell, Penny Vlahos and Evan Ward, UConn Department of Marine Sciences



## COSEE TECHNOLOGY AND ENGINEERING FOR KNOWLEDGE

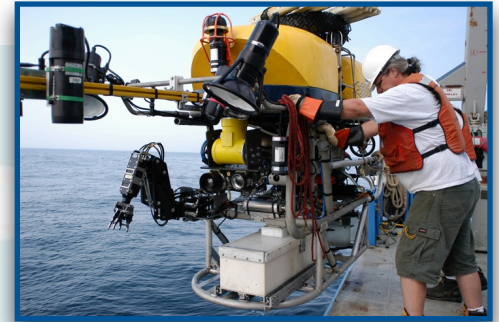
**Mission:** To innovate and adapt approaches to improve the quality, availability, and impact of ocean science education by linking science, technology, and engineering to catalyze learning and communication of STEM topics for teachers, students, scientists, and the public.

**What We Do:** COSEE TEK plans to develop, coalesce, highlight and evaluate Science, Technology, Engineering, and Mathematics (STEM)-related broader impact resources pertaining to a large number of ocean science technologies. To address the need for enhanced integration of technology and engineering into K-12 curricula, COSEE TEK will develop innovative activities and resources based upon the latest undersea technologies and apply emerging information and communication technologies to disseminate this content in meaningful, engaging ways.

**Who We Are:** COSEE TEK consists of a group of scientists, engineers, and educators with experience developing and/or implementing undersea technology for ocean research and education from the University of Connecticut, Project Oceanology and Mystic Aquarium/Institute for Exploration.

**Audience:** Teachers, students, scientists, and others who have an interest in past, present and future application of technologies to explore and understand the ocean.

**Date Established:** Fall 2010



**Why We Were Established:** COSEE TEK was founded to address the crucial linkages between science, technology, and engineering in the field of oceanography and provide educational resources that highlight the history, breadth, and advancement of oceanographic technologies.

**History:** COSEE TEK joined the COSEE Network in October, 2010 and has since begun the development of the center website, the technology database, and Broader Impacts catalog. COSEE TEK has initiated new partnerships with scientists at the University of Connecticut and the U.S. Navy to develop Broader Impact resources to highlight their research and the technologies that enable it.



### What We Offer...

COSEE TEK will provide activities and resources that enhance knowledge, pedagogical insights, community connections and experiences for educators, the research community and the public in formal and/or informal education environments to strengthen broader impacts including:

- The development and facilitation of an Ocean Technology Broader Impacts Network (OTBIN) – a web accessible database of successful broader impact tools focused on technologies.

- Ocean Technology Public Lectures to be offered at the University of Connecticut and at Mystic Aquarium & Institute for Exploration and posted online.



- Professional Development through a Teacher Technology Experience [TTE] consisting of formal and informal educator participation in a Teacher Technology Team and a Teacher Ocean Technology Institutes [TOTI]) that will be feature a community of practice approach wherein educators will work with scientists, technicians and graduate students during a summer field research activity focused on the application of technologies.
- Online Encyclopedia of Ocean Technology.