

C • M O R E S U M M E R S Y M P O S I A S E R I E S

This symposium, presented by the Center for Microbial Oceanography: Research and Education (CMORE) in partnership with the Agouron Institute and the Gordon and Betty Moore Foundation, is open to the public



Using 21st Century Technology to Address the Big Questions of 20th Century Oceanography



Moderated by **Dave Karl**

linking genomes to biomes

SYMPOSIUM 3: Friday, July 01, 2011

Coffee: 8:30 am; Program begins at 9:00 am • C-MORE Hale, Conference Center, 1950 East West Rd, UH Mānoa

Oceanography is a relatively young discipline with its fundamental foundations dating to less than a century ago. In 1931 Henry Bryant Bigelow, the founding Director of Woods Hole Oceanographic Institution and chair of the U. S. National Academy of Sciences Committee on Oceanography, compiled a summary of extant knowledge "***Oceanography: Its scope, problems and economic importance.***" Among other conclusions, this seminal work emphasized that oceanography is

impossible unless one goes to sea — observations are fundamental to understanding — and that technology drives opportunity and the creation of new knowledge. Now, four score later, we are on the verge of an explosion in new knowledge based largely on the application of novel technologies. We have invited four of the leading authorities to share their novel approaches and discoveries. It should be an exciting day! Please join us.

Invited Speakers

John Cullen

Dalhousie University

Ken Johnson

Monterey Bay Aquarium Research Institute

Ricardo Letelier

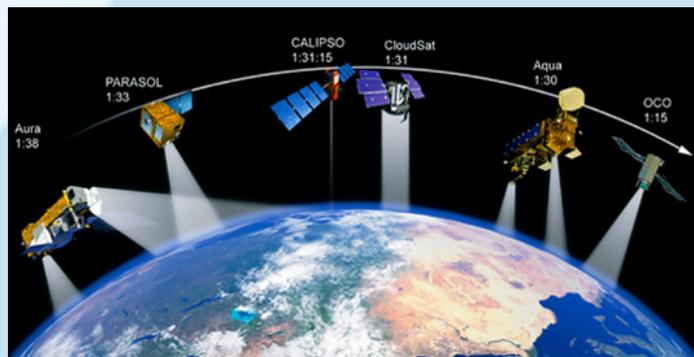
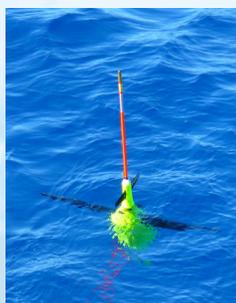
Oregon State University

Oscar Schofield

Rutgers University

Dave Karl

closing remarks



Visit cmore.soest.hawaii.edu/summercourse/2011/ for details.

Coffee service begins at 8:30 am, with the first presentation starting at 9:00 am. Lunch will be provided; a reception will follow the symposium. **Please RSVP to Sharon Sakamoto** (sharons@soest.hawaii.edu) by Wednesday, June 29.

