

# C • MORE - AGOURON SUMMER SYMPOSIA SERIES

A Center for Microbial Oceanography: Research and Education (C-MORE)

Summer Course Symposium Sponsored by the Agouron Institute

*linking genomes to biomes*

## Sensing the sea: present and future tools for probing biological processes in the ocean

Moderated by **Grieg Steward**

### SYMPOSIUM 2: Saturday, June 28, 2008

Coffee: 8:30 am; Lectures: 9 am–4 pm • East-West Center, Asia Room, UH Mānoa

The oceans are vast and dynamic biogeochemical reactors that vary over a wide range of space and time scales. Ship-based expeditions remain a crucial component of oceanography, but the operating costs, relatively low speed, and the traditional sampling methods of research ships severely limits the scales that can be resolved. New techniques and platforms are dramatically improving our view of the ocean and its processes. Combined applications of molecular biology and isotopic analyses, for example,

are revealing details of how microbes influence ocean chemistry, while improvements in autonomous underwater vehicles and satellites are providing unprecedented resolution of variability in the ocean. In this symposium, our four distinguished speakers will focus on some of the ways that technology is contributing to microbial oceanography by sharing highlights from their research and discussing the future prospects for, and the limitations of, new technologies for sensing the sea.

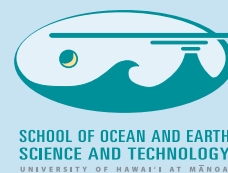
**Invited Speakers:** **Dr. Karen Casciotti** • Woods Hole Oceanographic Institution  
**Dr. Michael Sieracki** • Bigelow Laboratory for Ocean Sciences  
**Dr. David Siegel** • University of California, Santa Barbara  
**Dr. John Cullen** • Dalhousie University

Visit [cmore.soest.hawaii.edu/agouron/2008/syllabus.htm](http://cmore.soest.hawaii.edu/agouron/2008/syllabus.htm) for details

Lunch will be provided. A reception will immediately follow the symposium.  
Please RSVP to **Sharon Sakamoto** ([sharons@soest.hawaii.edu](mailto:sharons@soest.hawaii.edu)) by June 25.

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