Poster Session

Expeditionary Science

*DOP cycling in the South Pacific - insights from alkaline phosphatase activity*
Sonya Dyhrman and Sheean Haley

*Overview of the 2011 C-MORE BioLINCS cruise*
Sam Wilson and Julie Robidart

*Biogeochemistry And Genomes (BAG-1): An open ocean mesocosm deployment off Hawaii*
Daniela Böttjer & Steve Poulos on behalf of the BAG-1 team

*Dissolved iron biogeochemistry of the Southeast Pacific Ocean*
Jessica Fitzsimmons and Ed Boyle

*Characterization of suspended and sinking POM during BiG RAPA using lipid biomarkers*
Bob Bidigare, Alli Fong, Stephanie Christensen, and Fenina Buttler

*BiG-RAPA: Distribution and abundance of Prochlorococcus and its ecotypes*
Paul M. Berube, Allison Coe, Jessie W. Thompson, Libusha Kelly, and Sallie W. Chisholm

*Nitrogen fixation in the South Pacific Gyre*
Deniz Bombar, Allison Fong, Angelique White, and Jonathan Zehr

*A new method tests the bioavailability of dissolved organic phosphorus during a C-MORE cruise in the South East Pacific (BiG RAPA)*
Daniel Repeta, Sonya Dyhrman, Ricardo Letelier, Solange Duhamel, David Karl, Katherine Heil, Mar Nieto-Cid, and Angelique White

*The rate and stoichiometry of particulate matter degradation: An experimental approach applied in the South East and North Pacific Subtropical Gyres*
Angelique White, Daniel Repeta, Sonya Dyhrman, Solange Duhamel, David Karl, Mar Nieto-Cid, Katie Watkins-Brandt, and Brian Burkhardt

*SEA-IT-LIVE presents the BiG RAPA cruise and BAG-1 expedition (Video Poster).*
Eric Grabowski and David M. Karl

**Microbial Diversity, Metabolism and Biogeochemistry**

*Marine microbial community responses to dissolved organic matter enrichments*
Adrian K. Sharma, Jamie W. Becker, Jessica A. Bryant, Elizabeth A. Ottesen, Mar Nieto-Cid, Daniel J. Repeta, and Edward F. DeLong

*Extracellular vesicles from the marine cyanobacterium Prochlorococcus may mediate diverse community interactions*
Steven Biller, Sara Roggensack, Anne Thompson, and Sallie W Chisholm
Time-lapse transcriptomics of microbial communities in ocean surface waters
Elizabeth A. Ottesen, Curtis R. Young, Scott M. Gifford, John M. Eppley, John P. Ryan, Francisco P. Chavez, Christopher A. Scholin, Edward F. DeLong

Microbial transformations of dissolved organic matter
Oscar Sosa, Jamie Becker, Mike Rappé, Dan Repeta and Edward F. DeLong

Unveiling the cycle of dimethylsulfoniopropionate in the North Pacific Subtropical Gyre
Daniela del Valle, Samuel Wilson, David Karl, Vanessa Varaljay, Ronald Kiene, Mary Ann Moran, Scott Gifford, and Shalabh Sharma

Use of FRRF technique for monitoring phytoplankton photophysiology in open ocean mesocosms
Sasha Tozzi and Zbigniew Kolber

Linking transcriptomes to microbial activities and biogeochemical pools: Case studies from the phosphorus cycle
Sonya Dyhrman, Harriet Alexander, Louie Wurch, Abby Heithoff, Claudia Benitez-Nelson, and Sheean Haley

Database of diazotrophs in global ocean: Abundances, biomass and nitrogen fixation rates
Yawei Luo, Scott Doney, and Ivan Lima

Bacterioplankton means and extremes in the surface to bathypelagic zones of the North Pacific subtropical gyre
Darin H. Hayakawa, Alexander Eiler, Jana Grote, Vanessa Michelou, Matthew J. Church, David M. Karl, and Michael S. Rappé

Diazotroph activity and community structure under different pCO₂ conditions at Station ALOHA
Daniela Böttjer, Matthew Church, Rosie Gradoville, Ricardo Letelier, and Donn Viviani

Comparing food web structures and dynamics across a suite of global marine ecosystem models
Sevrine Sailley, Meike Vogt, and Scott Doney

Prochlorosins: A diverse set of cyclic peptide secondary metabolites produced by marine picocyanobacteria
Andres Cubillos-Ruiz and Sallie W. Chisholm

Nutrient induced changes in Prochlorococcus fluorescence in response to light
Ken Doggett and Dave Karl

Novel unicellular cyanobacterium is symbiotic with a single-celled eukaryotic alga
Anne W. Thompson and Rachel A. Foster (co-first authors), Andreas Krupke, Brandon J. Carter, Niculina Musat, Daniel Vaulot, Marcel M.M. Kuypers, and Jonathan P. Zehr
The first experimental assessment on pre-incubation filtration and incubation time effects on bacterial respiration measurements
Sandra Martinez-Garcia et al.

*Microbial remineralization of organic matter*
Brian Burkhardt, Angel White, Sonya Dyhrman, Solange Duhamel, Adina Paytan, Katie Watkins-Brandt, Mar Nieto-Cid

*Microbial ecology and biogeochemistry of marine microorganisms*

*Characterization of trace metal organic ligands in cultures and seawater by HPLC-ICP-MS*
Rene Boiteau, Jessica Fitzsimmons, and Dan Repeta

A collaborative look at the diversity of N₂ fixation research within the themes of C-MORE

The bacteria-diatom metaorganism: Comparing the bacterial assemblages on a variety of host cells using single cell whole genome amplification
Lydia Baker and Paul Kemp

Ocean biogeochemistry from a microbial point of view: MicroTOOLs project and its implementation
I.N. Shilova, J. Robidart, J.H. Tripp, A. Thompson, B. Wawrik, S. Tozzi, and J.P. Zehr

*Marine viruses near and far, great and small*
Grieg Steward, Alex Culley, Olivia Nigro, Chris Schvarcz, Jackie Mueller, Gordon Walker, La’Toya James, Teresa Porter, Shaun Giancaterino, Elisha Wood-Charlson, Mike Rappé, and Darin Hayakawa

**Bridging Research and Education**

*C-MORE professional development training program*
Daniela Böttjer, F. De Leo, Sean Jungbluth, Brian Burkhardt, Nick Hawco, and Rene Boiteau

*Mineral carbon sequestration using a synthetic olivine*
Bryan Chinaka

*Microbial and chemical indicators of sewage in Waiakea fish pond and Wailoa river: A temporal and spatial analysis*
Jonathan Chandrasakaran

*The response of microbial communities and processes to groundwater input in coastal waters of leeward Hawai‘i*
Ashley Bulseco, Erik Johnson, and Tracy Wiegner
Biogeochemical and molecular analysis of pCO$_2$-enriched marine diazotroph assemblages in the oligotrophic North Pacific Ocean
Christina N. Johnson, Daniela Böttjer, Donn Viviani, Matthew J. Church, Ricardo Letelier, Katie Watkins-Brandt, and Dan Sadler

Ecology of Vibrio parahaemolyticus: Potential pathogenicity in the Ala Wai Canal and Harbor
La'Toya James, Olivia Nigro, and Grieg Steward

Microfouling community on plastics from the North Pacific Gyre
April Goodson

Microbial Ecology of Deep-Sea Sediments
Lani Johnson, Sean Jungbluth, James Cowen, and Michael S. Rappé

Biogeochemical research in He‘eia Fishpond, O‘ahu
Kahoalii Keahi-Wood

Informal microbial oceanography education in a virtual world
Sonya Dyhrman

C-MORE Scholars program
Jessica Ayau and Barbara Bruno

Understanding mechanisms of toxin production via transcriptome analysis of ciguatera-causing Gambierdiscus toxicus
Paul Bump

C-MORE science kits
Jim Foley, Barbara Bruno, Ryan Kagami, Michelle Hsia, Ryan Tolman, Barbara Mayer, Judith Inazu, and Kimberley Thomas

C-MORE Summer Course 2011: Scales of variability at Station ALOHA

C-MORE Summer Course 2011: Comparative genomics of Roseobacter strain HIMB11 reveals metabolic specialization in a coastal marine isolate

Kanoehe Bay Copepods Project: Development of species specific primers for Oithona simplex and Oithona attenuata
John Lee, Michelle Jungbluth, Erica Goetz

Ocean FEST (Families Exploring Science Together)
Michelle Hsia, Barbara Bruno, Carlie Wiener, and Sara Thomas