

2008 Summer Student Fellows
Research Projects

Rachel Allen, Williams College
Marine Chemistry and Geochemistry
Developing the Mg co-precipitation method for fresh and brackish water samples

Daniel Amrhein, Columbia University
Physical Oceanography
Submesoscale vortices at the tail of the Grand Banks: New observations and an interpretation

Amalia Aruda, Georgetown University
Biology
*The "shock" factor: Molecular characterization of heat shock proteins in the diapause of the copepod, *Calanus finmarchicus**

Jorge Barbosa, SUNY Environmental Science and Forestry
Marine Chemistry and Geochemistry
Hg in hydrothermal vent food webs of the East Pacific Rise

Christopher N. Castorani, The Ohio State University
Biology
Benthic community structure at the Stellwagen Bank National Marine Sanctuary

Jennifer Clinton, Fairfield University
Marine Chemistry and Geochemistry
The market as an institution for zoning

Andrew Delman, Yale University
Geology and Geophysics
Modeling and detecting overwash: How coastal barriers survive rising sea levels

Alden Denny, Western Washington University
Marine Chemistry and Geochemistry
Characterization of dredged massive sulfides from the Gakkel Ridge

Alexis Hall, California State University, Monterey Bay
Marine Policy Center
*Consequences of culling Northern Pacific bluefin, *Thunnus thynnus orientalis*, for netpen grow out in southern California*

Tobin Hammer, University of California, San Diego
Biology
Diversity of short-chain hydrocarbon oxidizing bacteria in Guaymas Basin

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Jiae Marina Kim, Brown University

Geology and Geophysics

Estimating rupture velocity of small earthquakes and its implication on earthquake scaling

Peter Zion Klos, Colorado College

Geology and Geophysics

The feasibility of determining paleowind of orientation from erosional deposits within kettle ponds of New England

Leo B. Laub, Kenyon College

Biology

Cell specific regulation of response to PCB-126 in developing zebrafish

Dustin Long, Rhodes College

U.S. Geological Survey

Spatial and temporal perspectives of the deep-sea coral population in the Drake Passage using GIS and U series dating

Kaitlyn McCartney, Massachusetts Institute of Technology

Applied Ocean Physics and Engineering

Modification of Suspended Particulate Rosette sampler for use on ROV to investigate rising hydrothermal plumes

Jessica McNally, Stanford University

Biology

Modeling the temperature-dependent development of Arctic Calanus copepods

Nathan Moore, Grove City College

Applied Ocean Physics and Engineering

Using machine vision to enhance data acquisition efficiency in biofluid dynamics

Melissa Moulton, Amherst College

Applied Ocean Physics and Engineering

Nearshore cross-shore circulation over a muddy seafloor, Louisiana Chenier-Plain coast

Sarah Mussoline, University of Michigan-Ann Arbor

Biology

Describing and attributing vocalizations to baleen whale species recorded in the Great South Channel during spring seasons of 2006 and 2007

Amanda O'Rourke, Princeton University

Physical Oceanography

Acceleration of surface winds over ocean fronts

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Sharmila Pal, University of Washington
Marine Chemistry and Geochemistry
Inter-comparison of Particulate Thorium-234 in GEOTRACES

Cristian Proistosescu, Princeton University
Physical Oceanography
The sensitivity to diffusivity parameterization of a GCM simulation of Eocene ocean circulation

Emily Pugh, Indiana State University
U.S. Geological Survey
N₂O fluxes in West Falmouth Harbor: Are coastal fluxes underestimated?

Allison St. Vincent, Massachusetts Institute of Technology
Marine Chemistry and Geochemistry
Analysis of trace metals in the Pacific Ocean

Lauren Watka, University of Massachusetts-Dartmouth
Biology
*Cytochrome P450 1D1 in *Fundulus heteroclitus*: Comparison to CYP1A and *Danio rerio*, zebrafish*

Anastasia Yanchilina, Creighton University
Geology and Geophysics
Multiproxy comparison of climatic and oceanographic conditions in subtropical North Atlantic during the last 20,000 years

Elizabeth Y. Zhu, Williams College
Marine Chemistry and Geochemistry
Is thawing permafrost as a result of global warming a possible significant source of degradable carbon for microbiota residing in situ and in Arctic rivers?