

2009 Summer Student Fellows  
Research Projects

**Pattanun (Ploy) Achakulwisut**, Cambridge University, UK  
Marine Chemistry & Geochemistry  
*The Solubility of biogenic calcite in seawater of 34.95% salinity at approximately 19.55°C and atmospheric pressure*

**Julie Bing**, Ohio Northern University  
U.S. Geological Survey  
*The instrumented pressure testing chamber for hydrate bearing sediment*

**Eleanor (Ellie) Bors**, Oberlin College  
Biology  
*Genetic connectivity of the coral-dependent deep-sea polychaete, *Gorgoniapolynoe caeciliae*, across the New England Seamount and Corner Rise Seamount chains*

**Emily Brownlee**, Hood College  
Biology  
*Using Imaging FlowCytobot to determine seasonal ciliate distributions off the coast of Massachusetts*

**David H. Case**, Washington University in St. Louis  
Marine Chemistry & Geochemistry  
*Mg/Li in deep-sea corals: Paving the path to a new paleothermometer?*

**Camilla Cattania**, University of Cambridge, UK  
Geology & Geophysics  
*Investigating dynamic earthquake triggering*

**Stephanie Chin**, Massachusetts Institute of Technology  
Applied Ocean Physics & Engineering  
*A proof of concept demonstration of an AUV biological pump sampler*

**Shaunak Ghosh**, Indian Institute of Technology, Kharagpur  
Geology & Geophysics  
*Upper crustal structure of the cleft segment of the Juan de Fuca Ridge using 2D streamer travel time tomography*

**William (Willy) Goldsmith**, Harvard University  
Biology  
*One shark's journey: How a recovered satellite tag provides insight into the migratory pathways of the basking shark, *Cetorhinus maximus**

**Irene Hale**, San Diego State University  
Biology  
*Arsenate and cyanobacteria*

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**Tara Hetz**, St. Lawrence University

Marine Policy Center

*Saving North Atlantic right whales while enjoying a lobster dinner: Developing a risk model of North Atlantic right whales encountering lobster gear off the coast of Maine*

**Erica Hildebrand**, Connecticut College

Biology

*Microbial diversity and metabolism at diffuse hydrothermal vents on the East Pacific Rise*

**Yadira Ibarra**, Brown University

Geology & Geophysics

*Life in a high CO<sub>2</sub> world: Assessing the effects of ocean acidification on the survival of the benthic foraminifer, *Bolivina argentea**

**Rose Kantor**, Carleton College

Marine Chemistry & Geochemistry

*Collection, isolation, and characterization of potentially quorum-sensing, hydrolytically active bacteria from sinking particles in Clayoquot Sound*

**Abigail (Abbe) LaBella**, American University

Biology

*The possible interaction between the adaptive genetic response to ERR inverse agonists and hypoxia*

**Linda Jordan Landers**, Williams College

U. S. Geological Survey

*SONAR sediment ripple images as a proxy for sediment transport (Cape Hatteras, NC)*

**Cara Manning**, University of Victoria, Canada

Marine Chemistry & Geochemistry

*Spatial and temporal variability of nitrous oxide distributions in Oyster Pond*

**Garret Mitchell**, University of Maryland, College Park

Geology & Geophysics

*Geologic mapping of a recent volcanic eruption and hydrothermal deposits on the Southern Mid-Atlantic Ridge (4°-5° S)*

**Joseph Murray**, Arizona State University

Marine Chemistry & Geochemistry

*Ocean island submarine groundwater discharge: fluxes of molybdenum, uranium and rhenium*

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**Kiva Oken**, Carleton College

Biology

*Dynamics of a logit-gravity model for density-dependent migration*

**Liam O'Sullivan**, University College Cork, Ireland

Physical Oceanography

*Estimating the height of the bottom mixed layer*

**Erica Rosenblum**, University of California, San Diego

Physical Oceanography

*A cool coastal current south of Martha's Vineyard*

**Richard Secrist**, Maryville College

Biology

*Recolonization at hydrothermal vents*

**Clara Smart**, Northwestern University

Applied Ocean Physics & Engineering

*Designing faceted reflectors to achieve uniform illumination for deep sea photography*

**Christine Waters**, University of Texas, El Paso

Marine Chemistry & Geochemistry

*Platinum group element (PGE) anomalies at the termination of the last Snowball Earth: Investigating Marinoan deposits in Northwestern Namibia*

**Samuel Wilson**, University of California, Los Angeles

Physical Oceanography

*Topographic rectification in a forced, dissipative, stratified coastal ocean*

**Nora Xu**, Princeton University

Marine Chemistry & Geochemistry

*Modeling the potential effects of seasonal variations in seawater carbonate species on calcification*

**Samuel Zipper**, Pomona College

Geology & Geophysics

*Lacustrine records of historical hydrology: Mackenzie River Delta, N.W.T., Canada*