

**SEMESTER IN ENVIRONMENTAL SCIENCE**  
**INDEPENDENT RESEARCH SYMPOSIUM**  
**MARINE BIOLOGICAL LABORATORY, WOODS HOLE, MA 02543**  
**FRIDAY, DECEMBER 16, 2011 - SPECK AUDITORIUM, ROWE BUILDING**

TIME	SPEAKER	PROJECT TITLE
8:20-8:30	Dr. Josh Hamilton	Introductory Remarks by MBL's Chief Academic and Scientific Officer
8:30-8:45	<b>Amalia Handler</b> FRANKLIN & MARSHALL	<i>Effects of rain pulses on activity of soil bacterial communities</i>
8:45-9:00	<b>Ellen Yeatman</b> WASHINGTON & LEE	<i>Temperature effects on decomposition rates of soil organic matter with differing proportions of labile and recalcitrant compounds</i>
9:00-9:15	<b>Cindy Troy</b> VILLANOVA UNIVERSITY	<i>Moisture and temperature effects on production of nitrous oxide, an important greenhouse gas, in agricultural soils of Western Massachusetts</i>
9:15-9:30	<b>Shirlie Yang</b> GRINNELL COLLEGE	<i>Effects of soil warming on soil respiration measured by extracellular enzyme activity and CO<sub>2</sub> flux</i>
9:30-9:45	<b>Fiona Jevon</b> HARVARD UNIVERSITY	<i>Soil nutrient cycling and vegetative species composition of sandplain grassland vegetation in experimental restoration plots on Martha's Vineyard: Responses to sulfur and nitrogen additions</i>
9:45-10:00	<b>Elisabeth Ward</b> BROWN UNIVERSITY	<i>The legacies of historical land-use in current suburban landscapes: Biodiversity and carbon stocks along a suburban housing density gradient</i>
10:00-10:15	<b>Jehane Samaha</b> BROWN UNIVERSITY	<i>The legacies of historical land-use in current suburban landscapes: Species composition, carbon stocks and nitrogen cycling</i>
10:15-10:30	<b>Megan Wheeler</b> HARVEY MUDD COLLEGE	<i>Effects of fertilizer on nitrogen cycling in residential Cape Cod lawns</i>
10:30-10:45	<b>Coffee Break</b>	
10:45-11:00	<b>Sean O'Keeffe</b> COLORADO COLLEGE	<i>Acid deposition and base-cation exchange in Cape Cod soils</i>
11:00-11:15	<b>Sam Stewart</b> COLORADO COLLEGE	<i>Comparing geomorphology and channel habitat on a stream restoration gradient</i>
11:15-11:30	<b>Audrey Seiz</b> CLARK UNIVERSITY	<i>Benthic community composition in four streams across a restoration intensity gradient</i>
11:30-11:45	<b>Andrew Miano</b> CONNECTICUT COLLEGE	<i>How fish communities differ across stream restoration gradients</i>
11:45-12:00	<b>Lena Weiss</b> BROWN UNIVERSITY	<i>Examining food webs and trophic dynamics along a stream restoration gradient</i>
12:00-12:15	<b>JoHanna Burton</b> RIPON COLLEGE	<i>The effects of parasitism on feeding preferences and litter decomposition rates of amphipods in the Plum Island Estuary</i>
12:15-1:30	<b>Luncheon</b>	
1:30-1:45	<b>Kelsey Ream</b> ALLEGHENY COLLEGE	<i>A tale of two bivalves: the role of <i>Mercenaria mercenaria</i> and <i>Mytilus edulis</i> in benthic-pelagic coupling of nutrient cycles</i>
1:45-2:00	<b>Emily Waters</b> HAMPSHIRE COLLEGE	<i>The effects of salinity and nutrient limitation on microbial processes in coastal sediments</i>
2:00-2:15	<b>Emily Rogers</b> CARLETON COLLEGE	<i>Nutrient limitation across a salinity gradient of Martha's Vineyard coastal ponds</i>
2:15-2:30	<b>Collin Knauss</b> COLORADO COLLEGE	<i>Characterizing microbial denitrification nirS gene abundance in relation to biogeochemical processes and characteristics up-gradient, within and down-gradient from a NITREX™ Permeable Reactive Barrier in Waquoit Bay, MA</i>
2:30-2:45	<b>Tim Sinkovits</b> RIPON COLLEGE	<i>The ability of natural and artificial riparian zones to filter nutrients assessed by push-pull experiments</i>
2:45-3:00	<b>Anika Aarons</b> MOUNT HOLYOKE COLLEGE	<i>Using lipid biomarkers to evaluate microbial community structure and ecological processes occurring in the meromictic Sider's Pond, Falmouth, MA</i>
3:00-3:15	<b>Sarah Nalven</b> COLBY COLLEGE	<i>Diversity and distribution of sulfate-reducing bacteria in Sider's Pond, a meromictic salt pond</i>
3:15-3:30	<b>Hansen Johnson</b> BATES COLLEGE	<i>How resource limitation affects heterocyst formation in nitrogen-fixing cyanobacteria</i>
3:30-3:45	<b>Joseph Hakam</b> BROWN UNIVERSITY	<i>Ecosystem energy-use efficiency: positive effects of predation on productivity</i>

Semester Retrospective (Ken Foreman, SES Program Director)

*There will be refreshments and a celebratory awards ceremony in the Meigs Room after the symposium.*