

**SEMESTER IN ENVIRONMENTAL SCIENCE**  
**STUDENT INDEPENDENT RESEARCH SYMPOSIUM**  
**MARINE BIOLOGICAL LABORATORY, WOODS HOLE, MA 02543**  
**DECEMBER 18, 2009 - LILLIE AUDITORIUM**

TIME	SPEAKER	PROJECT TITLE
08:50	<b>Introductory Remarks</b>	
09:00	<b>Marshall Moore (Brown University)</b>	<i>Reconstructing Variability in Biogeochemical Cycling and Microbial Community Structure from Sediment Cores in Siders, Oyster and Salt Ponds in Falmouth, MA.</i>
09:15	<b>MaryAnn Tekverk (Haverford College)</b>	<i>Biogeochemistry of Groundwater at the Seepage Face down-gradient from NITREX<sup>TM</sup> Permeable Reactive Barriers in Waquoit Bay, MA.</i>
09:30	<b>Kenly Hiller (Connecticut College)</b>	<i>Effects of Anoxic Groundwater from a Nitrex<sup>TM</sup> Permeable Reactive Barrier on Benthic Flora and Fauna at the Seepage Face in Waquoit Bay, MA.</i>
09:45	<b>Chelsea Baldino (Northwestern University)</b>	<i>Copper, Chromium and Arsenic in the Marine Environment: Are They Biologically Available and Do They Bioaccumulate?</i>
10:00	<b>Monica Stegman (Haverford College)</b>	<i>Effect of Different Anti-Fouling Paints on the Structure and Function of Fouling Communities.</i>
10:15	<b>COFFEE BREAK</b>	
10:45	<b>Sarah Shay (Lawrence University)</b>	<i>Changes in Ericoid Mycorrhizal Communities in a Chronosequence of Managed and Abandoned Cranberry Bogs.</i>
11:00	<b>Carolyn Harris (Bates College)</b>	<i>How Ecological Restoration Affects Food Webs and Animal Communities in Cranberry Bogs on Cape Cod.</i>
11:15	<b>Nathan Setter (SNY-ESF)</b>	<i>Non-lethal, Indirect Chemical, Trophic and Behavioral Effects of Mummichogs Predators on Grass Shrimp.</i>
11:30	<b>Elizabeth Gomez (Brown University)</b>	<i>Effects of an errant burrowing polychaete, Nereis, and Nutrient Enrichment on Benthic Respiration and Biogeochemical Fluxes from Marine Sediments.</i>
11:45	<b>Pam Moriarty (Kenyon College)</b>	<i>Biodiversity, Nutrient Enrichment and Ecosystem Function: The Effect of <u>Melampus bidentata</u>, <u>Orchestia grillus</u> and <u>Philoscia Vittata</u> Detritivores on Litter Decomposition in Salt Marshes.</i>
12:00-13:15	<b>LUNCHEON</b>	
13:30	<b>Haruka Fujimaki (Mt. Holyoke College)</b>	<i>Phenology Effects of Different Temperature Regimes on Carbon Storage in Same-Species Oak Trees on Martha's Vineyard, MA.</i>
13:45	<b>Ayala Ben-Chaim (Mt. Holyoke College)</b>	<i>Consequences of Nitrogen Fertilization on Methane and Carbon Dioxide Fluxes from <u>Phragmites australis</u> in a temperate Forest and Wetland.</i>
14:00	<b>Amy Cantor (Colby College)</b>	<i>The Legacy Effect of Wastewater Irrigation in a Terrestrial Ecosystem: How Nitrogen and Water Additions Change Microbial Processes and Tree Structure.</i>
14:15	<b>Christine Kobyljanec (Mt. Holyoke College)</b>	<i>Can Microbial Fuel Cells Indicate Differences in Soil Degradability Among Heated, Tilled and Organically enriched Soils.</i>
14:30	<b>Masaru Nobu (Carleton College)</b>	<i>Temperature Mediated Changes in Soil Microbial Ecology and Fungal Exoenzymatic Decomposition of Recalcitrant Soil Organic Matter in Soils from Heated Plots at the Harvard Forest LTER.</i>
14:45	<b>Lauren Shoemaker (Colorado College)</b>	<i>Do Plant Communities Maximize Photosynthesis by Optimizing Nitrogen Distribution through the Plant Canopy?</i>
15:00	<b>Semester Retrospective (Ken Foreman, Program Director)</b>	

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