

**REU Site: Tackling Some of the Grand Challenges for
Engineering
*Final Presentations***

August 5, 2011

8:00 am – 12:30 PM; POTR 234 (Fu Room)

Title [time]	Researcher	Mentor
Scrubbing of Carbon Dioxide Using Calcium Hydroxide to form Nanometric Calcium Carbonate Particles [8:00 – 8:25]	Brooke Villarubia, Louisiana State University	Michael T. Harris
Solar Disinfection of Water- Compound Parabolic Collector Inactivation Efficacy in Developing Countries [8:25 – 8:50]	Bryan Vadheim, Montana State University	Ernest C. Blatchley
Removal of Cesium in Contaminated Concrete via Electrokinetic Remediation [8:50 – 9:15]	Ashley Lee, Syracuse University	Michael T. Harris
Investigating the nitrogen cycle: effects of a commercial urease inhibitor between contrasting systems used for biofuels [9:15 – 9:40]	Mitchell Vernon, California State University-Monterey Bay	Ronald Turco
Energy Efficiency Comparison Between Hydronic Radiant and Conventional Residential Forced Air Heating and Cooling [9:40 – 10:05]	Anna Osborne, Missouri University of Science and Technology	Travis Harton
Break		
Developing an Integrated Holistic Management Strategy of Regional Water Resources [10:25 – 10:50]	Alexandro Bazan, Purdue University	Loring Nies
<i>Moringa Oleifera</i> as a Coagulant and Disinfectant in a Multiple Barrier System for Treating Water in Developing Countries [10:50-11:15]	Jennifer Brannan, University of Portland	Ernest C. Blatchley
Photocatalytic Debromination of PBDEs and TBBPA within Urban Organic Films [11:15-11:40]	Anitha Reddy, The Cooper Union for the Advancement of Science and Art	Inez Hua
Reducing Water Footprint of Manufactured Products: Calculating Water Footprint of Brita Water Filter [11:40-12:05]	Ashley VM Barker, Louisiana State University	Fu Zhao and John Sutherland
Comparing Organic and Inorganic Fertilizer Effects on Ammonification and Nitrification [12:05-12:30 pm]	Grant McLeod, University of Florida- Gainesville	Ronald Turco

