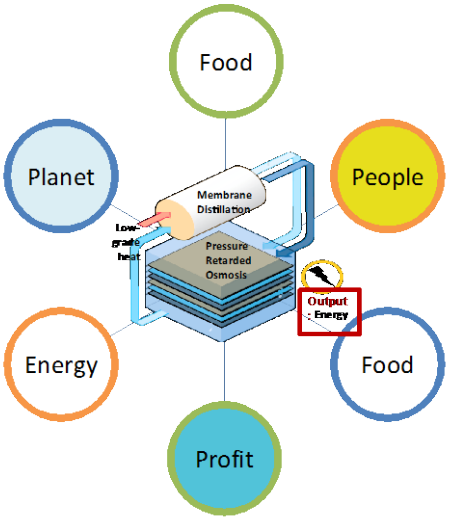
# Department of Mathematics

# *Fall 2016 Colloquium Series*




## "Waste-to-Reuse: Novel Membrane-Based Processes for Resource and Energy Recovery"

Professor Kerri Hickenbottom,
Humboldt State University

## Thursday, September 1, 2016

## Behavioral and Social Sciences Building Room 166, 4 pm

Water and energy are closely intertwined and increasing in demand due to population growth and economic expansion. Water resource management requires a paradigm shift from waste to reuse. This presentation will discuss research on novel membrane-based systems for renewable energy generation and low-energy wastewater treatment that could be impactful in transforming how water and other natural resources are managed. Experimental results in conjunction with life-cycle impact and cost assessments are used to evaluate the technical, economic, and environmental impacts of these technologies.

*Kerri Hickenbottom is an Assistant Professor in the Department of Environmental Resources Engineering at Humboldt State University. Her research centers on the development of novel membrane processes for resource recovery from waste streams. Dr. Hickenbottom has MS and PhD degrees from the Colorado School of Mines.*

For a complete abstract, go to http://www.humboldt.edu/math/news-and-events/math-colloquium

***We cordially invite you to the Pre-Colloquium Tea on the third floor of the BSS building at 3:30 pm on Thursday.***