**Workshop: Using Problem-Based Learning to Contextualize Environmental Engineering Problems**

**Date:** Sunday, June 14, 2015, 2:15 pm to 5:00 pm

**Motivation:** Case studies provide students opportunity for application of class concepts to real-world scenarios. Cased are more commonly associated with business or law school but are growing in use in engineering and science classrooms. Cases are particularly well-suited for examination of open-ended problems and/or integration of non-technical aspects of engineering problems.

**Description of Workshop:** Learn by doing! Problem-based learning is an alternative classroom method for engaging students to apply concepts to open-ended problems. The success of this approach depends upon framing effective problem assignments. Using problem-based learning, Prof. Serva will lead participants through the key steps in developing topic ideas into problems that they can to bring back to their classrooms. A large portion of the workshop will involve participant interactions to develop and critique their problem statement ideas. In advance of the workshop, participants will be polled for general topics that could be the basis of problem-based learning exercises so that workshop activities are best matched to participant interests.

**Intended Audience:** Faculty and graduate students.

**Workshop Organizers:** Mark Serva, Institute for Transforming Undergraduate Education, University of Delaware;Allison MacKay, [mackaya@engr.uconn.edu](mailto:mackaya@engr.uconn.edu); Department of Civil and Environmental Engineering University of Connecticut