



University of Pittsburgh Graduate Student Chapter Carnegie Mellon University Graduate Student Chapter

EWRI-PGH DINNER AND SEMINAR

Thursday, September 11th

Dinner at 6:00 pm, Seminar at 6:30 pm

M3 William Pitt Union at the University of Pittsburgh
3959 Fifth Avenue, Pittsburgh, PA 15260



ENVIRONMENTAL & WATER RESOURCES INSTITUTE
Pittsburgh Chapter



Land of Opportunity

Dr. Deborah Lange, Executive Director of the Western Pennsylvania Brownfields Center (WPBC)

The WPBC works to overcome the barriers associated with brownfield development by conducting research, sharing information, and developing decision-support tools. Dr. Lange currently manages the Headwaters (of Ohio) Resource Committee at CMU, and is working to expand engineering outreach programs in the College of Engineering. She is a registered professional civil/environmental engineer and a past president of the Engineer's Society of Western Pennsylvania.

Cost

Members: \$25

Non-members: \$30

Students: \$5



Latest on the Practice of Groundwater Remediation for Chlorinated Solvents

Dr. Udai Singh, Vice President and Senior Program Manager at CH2M HILL

Chlorinated solvents are still some of the most common contaminants in the remediation industry due to widespread use, persistence in the environment, and remediation difficulty. The science and practice of remediation of chlorinated solvents has evolved and improved considerably in 30 years. From only pump and treat in the 1980s, it has evolved to the suite of technologies we now have available (such as *in situ* oxidation, *in situ* chemical reduction, enhanced bioremediation, thermal treatment, and soil mixing with ZVI). This presentation will provide a summary of the current state-of-the-practice in chlorinated solvent remediation with case study