UNIVERSITY of HOUSTON

CULLEN COLLEGE of ENGINEERING

Department of Civil & Environmental Engineering

Distinguished Lecture Series

Stephanie Fiorenza, PH.D.
BP North America Inc.

Case Studies of Bioremediation Solutions- Win-Win Solutions for All Stakeholders

Monday, March 18, 2013

10:30 to 11:30AM
Seminar Room D3 W122

Abstract

The presentation summarizes bioremediation applications at three different sites with different contaminants of concern. Two are hydrocarbon-impacted sites and one is a chlorinated solvent-impacted site. The applications are all in situ, and include a constructed treatment wetland and enhanced bioremediation. Treatment effectiveness results are included.

About the speaker

Dr. Stephanie Fiorenza, Ph.D., is a technology specialist for BP's Remediation Engineering and Technology group in Houston, TX with primary responsibility for chlorinated solvent-impacted sites and bioremediation approaches throughout the US. Prior to joining BP in 2006, she managed pilot tests of innovative remediation technologies at US DOD sites. As a technical specialist, Stephanie maintains active research projects along with developing site-specific solutions for remediation projects. Some of these activities include conducting forensic investigations, assessing performance of a zero-valent iron barrier, developing new tools for vapor intrusion investigations, and applying enhanced bioremediation approaches in challenging environments. She has been involved with sustainable remediation since the inception of SURF, the Sustainable Remediation Forum, in 2006 and is the focal point for sustainable remediation efforts within BP. She maintains an active lecture schedule including: moderator at the panel discussion on Integrating Society into Sustainable Remediation at the Battelle 2011 Symposium; presenter on sustainable remediation at the Northeast Sustainable Communities Workshop, Battelle Conference in 2010, at US EPA's Brownfield Symposium, NICOLE's Sustainable Remediation meeting in Belgium, and EPA's Tanks Conference in 2009. She is a member of the ASTM task group preparing guidance on Incorporating Sustainable Objectives into Cleanup and an internet trainer for ITRC's Green and Sustainable Remediation work group.

Stephanie earned a bachelor's degree in Environmental Studies from Brown University in Providence, RI and a doctoral degree in Environmental Science and Engineering from Rice University in Houston, TX.

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