



PGS Newsletter

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Karen Rose Cercone, Editor

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Wednesday, January 18, 2017

A Joint Meeting with the ASCE Geo-Institute of Pittsburgh



Slurry-Supported Excavations for Environmental and Geotechnical Applications

**Daniel Ruffing
Geo-Solutions, Inc.**

The concept of slurry-supported excavations is a natural extension of using slurry to stabilize boreholes. The slurry, an engineered fluid consisting of clay suspended in water, serves as fluid shoring to allow the excavation of deep and narrow trenches without the need for dewatering or conventional excavation support systems. Although slurry-supported excavation is used for the installation of foundation elements and structural walls, e.g. slurry walls or diaphragm walls, this talk is focused on the non-structural applications, i.e. slurry trenching for cutoff wall installations, permeable reactive barriers, deep drains installed using bio-polymer slurries, and mass excavation and replacement. The history and theory of slurry trenching is discussed, followed by case study projects highlighting industries and applications.

Social hour - 6:00 p.m.

Dinner - 7:00 p.m.

Program - 8:00 p.m.

Dinner costs \$30.00/person, students \$10.00; checks preferred. For reservations, please email your name and number of attendees in your party to pgsreservations@gmail.com. You can also reserve and pay for dinners via PayPal on our website <http://pittsburghgeologicalsociety.org>. Please include your name and number of attendees in your party. **The deadline for reservations is noon on Monday, January 16.**

Meeting will be held at Foster's Restaurant, Foster Plaza Building 10, Green Tree.