



**ASCE Geo-Institute Pittsburgh Chapter
Presents**

**GEOTECHNICAL CONSTRUCTION AT WORLD TRADE CENTER NYC:
MICROPILES, DIAPHRAM WALLS, JET GROUT, AND ANCHORS**

Thomas D. Richards, Jr. P.E.

Many of the techniques in the geo-construction tool box have been used at the World Trade Center and will be presented. The presentation will include some of the “bathtub” history, some of the recovery work, then focus on the new work to develop the site. The unique challenges of work on this site will also be addressed. Micropiles with exposed length on the order of 40 feet were used to support an active subway line. Anchored diaphragm walls and secant piles walls were used to expand the “East Bathtub”. Jet grouting was performed below the subway line where diaphragm walls could not be constructed.

Mr. Tom Richards is Chief Engineer at Nicholson Construction Company. For over 20 years at Nicholson, he has dealt with technical aspects of a multitude of specialized geotechnical projects using micropiles, anchors, soil nails, diaphragm walls, and numerous grouting techniques. Tom’s responsibilities include design, quality control, research, testing, and instrumentation. He is active in numerous Committees of DFI, ADSC, PTI, and ASCE leading to frequent commenting on FHWA and other industry documents.

DINNER RESERVATIONS ARE REQUIRED – PLEASE RSVP BY FRIDAY, October 9, 2009

Date: Thursday, October 15, 2009

Time: 6:00 PM Social (OPEN BAR)
7:00 PM Dinner
8:00 PM Presentation

Place: Gaetano's Restaurant
1617 Banksville Road
Pittsburgh, PA 15216
(412) 343-6640

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Cost: \$25.00 for members of the ASCE Pittsburgh
Section
\$35.00 for non-members
Free for student members
