



**ASSOCIATION OF ENVIRONMENTAL &
ENGINEERING GEOLOGISTS**
SOUTHERN CALIFORNIA SECTION, SAN DIEGO CHAPTER
"Serving Professionals in Engineering, Environmental and
Ground-Water Geology"

San Diego Chapter, December 2006 Newsletter

DECEMBER MEETING NOTICE: TUESDAY, DECEMBER, 12, 2006. Join us at the cozy confines of Ninyo & Moore's main conference room, 5710 Ruffin Road, San Diego, CA. Social activities begin at 5:30 pm with the presentation beginning at 6:30. Dinner is buffet style at a real low price of \$20.00 (includes gratuity). Please contact Lesley Barnes (Lesley.barnes@ttemi.com) with your reservation.

Our speaker for Tuesday is Tim Shields of Richard Brady and Associates who will discuss "will discuss techniques that are capable of sampling volatile organic compounds (VOCs) in situ from soils and groundwater using the U.S. Navy's Site Characterization and Analysis Penetrometer System (SCAPS) and analyzing the VOC contaminant concentrations in real time using a field portable direct sampling ion trap mass spectrometer (DSITMS). SCAPS is a direct-push technology that uses cone penetrometer testing paired with real time contaminant sensors to rapidly characterize contaminated sites. The presentation will include an overview of several SCAPS tools, including laser-induced fluorescence, GeoVIS visual imaging system, and the high-resolution piezocone; and will focus on the membrane interface probe with direct sample ion trapping mass spectroscopy. Case studies will be presented to illustrate how these real-time measurement technologies can be used with systematic planning and a dynamic work strategy (known as the Triad approach to site characterization) to produce robust, economical conceptual site models that support environmental decisions.

Tim Shields earned a B.S. in Earth Sciences from University California Santa Cruz in 1982. Tim is an Environmental Program Manager for Richard Brady & Associates. He has led the Navy West Coast Site Characterization and Penetrometer System (SCAPS) team for 10 years. Tim is recognized as a leading practitioner of U.S. EPA's Triad initiative for better, faster, and more cost-efficient characterization and cleanup of contaminated sites. He has been invited to speak on Triad and SCAPS at numerous conferences and has been involved in training state and federal regulators at U.S. EPA's invitation.

UPCOMING SAN DIEGO AEG MEETINGS:

January, 2006: Date, topic and location to be announced.

FYI, we are always in need of interesting talks in the environmental and engineering geology arenas. Please send your ideas in to steve.bradley@ttemi.com .



AEG SAN DIEGO CHAPTER, AUGUST 2006 NEWSLETTER
 "Serving Professionals in Engineering, Environmental and
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MISSION STATEMENT

The San Diego Chapter of the AEG subscribes to the national AEG's mission statement. The Association of Environmental & Engineering Geologists (AEG) contributes to its members' professional success and the public welfare by providing leadership, advocacy, and applied research in environmental and engineering geology.

AEG AND USEFUL LOCAL LINKS

- Southern California Section AEG: <http://www.aegsc.org/>
- National AEG: <http://www.aegweb.org/>
- San Diego Association of Geologists <http://www.sandiegogeologists.org>
- American Society of Civil Engineers, San Diego Geotechnical Group http://www.asce-sd.org/groups_geotech.asp
- San Diego State University, Geology Department <http://www.geology.sdsu.edu>

EMPLOYMENT

As a service to our members, AEG San Diego welcomes job postings - either for open positions or jobs wanted. Please contact Lee Vanderhurst (lvanderhurst@geotechnicsinc.com) for information on advertising in this newsletter. The cost for an ad is \$25 per month.

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