

ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS

SOUTHERN CALIFORNIA SECTION, SAN DIEGO CHAPTER

"Serving Professionals in Engineering, Environmental and
Ground-Water Geology"

San Diego Chapter, March 2006 Newsletter

MARCH MEETING NOTICE: WEDNESDAY, MARCH 22, 2006. SOCIAL TIME STARTS AT 6:00 PM, DINNER AT 6:30 PM, TALK AT 7:30 PM.

March's meeting is a joint meeting with the ASCE San Diego Chapter, Geotechnical Division. Dr. Timothy Stark will present on "Impact of Cut and Fill Operations on Hillside Development." The meeting will be held at the Miramar Officer's Club, Building 4472 Anderson Avenue, Marine Corps Air Station Miramar. Please contact Jonathan Goodmacher (jgoodmacher@ninyoandmoore.com) to RSVP. Dinner is buffet-style. Cost is \$30. Directions to the Officer's Club are attached.

BIG NOTE: Reservations must be in by March 16 at 5 pm. Because of the military security situation we need to provide a list of attendees in advance. Thus there will be no late or day of signups.

Timothy D. Stark, Ph.D., P.E. is a Professor of Civil Engineering at the University of Illinois at Urbana-Champaign. Dr. Stark has been teaching and conducting research on static and seismic slope stability analyses and soil shear strengths for landslides since 1986. His research has led to a better understanding of design shear strength values, shear strength test procedures, and 2-D and 3-D stability analyses for landslides. Dr. Stark has received a number of awards for his teaching and research activities including: elected Fellow of ASCE (2005), the R.M. Quigley Award from the Canadian Geotechnical Society (2003), Standards Development Award from the ASTM (2002), Walter L. Huber Research Prize from the ASCE (1999), University Scholar Award from the University of Illinois (1998), Thomas A. Middlebrooks Award from the ASCE (1998), Dow Outstanding New Faculty Award from the American Society for Engineering Education



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(1994), and the Arthur Casagrande Professional Development Award from the ASCE (1992).

Observations, data, and analyses are used to investigate the cause of distress in two housing developments located downslope of a large hillside fill will be presented. This case history will illustrate the importance of locating the critical cross-section or weakest portion of the hillside before construction and designing the slope to ensure that it remains stable, the proper use of back-analyses in landslide investigations, the use of the critical cross-section in the back-analyses, and the importance of installing slope inclinometers shortly after the report of distress and installing them in and outside of the slide mass. This case history also will illustrate the difficulties in presenting a complicated landslide case to a jury.

SUMMARY OF FEBRUARY'S MEETING (Notes by Jonathan Goodmacher, President)

February's meeting was very well attended with approximately 40 persons in attendance. Mr. Werner Landry, with the City of San Diego Planning and Development Services. Werner presented on several topics related to work in the city. He started by discussing the city's viewpoint on temporary shoring issues. The general rule is that there should be nothing in place in the upper 20 feet after the work is complete. He also touched on the moratorium on trenching in certain streets. This impacts fault investigation study costs since if you do work in designated streets you potentially be required to repair blocks and blocks of pavement. Werner than presented a summary of permitting issues connected with environmentally sensitive lands (ESL). Permitting may be required when working on ESL. A copy of the permitting guidelines was passed out (city of San Diego Information Bulletin 560). The highlight was Werner's presentation on the Technical Guidelines for Fault Rupture Hazard Investigations. Copies of the guidelines were made available and he went the main points to be aware of. These included the hierarchy of acceptable techniques for fault investigations (trenching >> borings >> CPTs; the unacceptability of geophysical methods as a replacement for invasive work, etc.). For those not present at



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the meeting (or those who lost their copy) we have scanned Information Bulletin 560 and the Fault Rupture Hazard Investigation guidelines and the PDF files will be available soon at the AEG San Diego Chapter website <http://www.aegsc.org/chapters/extremesocal>.

PRESIDENT'S MESSAGE:

The 2007 AEG National Convention will be held in Los Angeles. The 50th Anniversary of the founding of the AEG will be celebrated at this convention. As part of that planning I am responsible for reporting back to the committee on desired short courses. At this time the committee is considering short courses on geostatistics, geophysical techniques, age-dating techniques, and landslides. We are also seeking suggestions for fieldtrips. Finally, AEG will be presenting an annual award for outstanding projects in environmental or engineering geology. If you have ideas for short courses or a large project that merits consideration please contact me (jgoodmacher@ninyoandmoore.com). FYI, the 2007 convention is scheduled for September 24 through 28, 2007. It will be held at the Sheraton Universal Hotel (near Universal Studios).

UPCOMING SAN DIEGO AEG MEETINGS:

April 21, 2006: Hans Van de Vrugt, CEG, GP, will present a summary of geophysical techniques available for use in environmental and geotechnical investigations. This meeting will once again be at the offices of Ninyo & Moore, 5710 Ruffin Road, San Diego. Particulars to follow.

May 2006: We are looking for a topic of interest to the community. Please contact Jonathan Goodmacher (jgoodmacher@ninyoandmoore.com) if you have a good suggestion.

MEETINGS OF AFFILIATED GROUPS AND SAN DIEGO AREA SEMINARS/PRESENTATIONS

San Diego Association of Geologists (SDAG) March 15, 2006: The SDAG monthly meeting will feature a presentation on "Animal Rescue and Health and Safety after Hur-



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ricane Katrina" by Tony Sawyer of the County of San Diego Department of Environmental Health and the San Diego Humane Society. The meeting will be held at the Acapulco Restaurant Y Cantina 2467 Juan Street, San Diego, CA 92110, (619) 260-8126.

The **Groundwater Resources Association of California** has several events coming up that may be of interest to the consulting community. A list is presented below. Go to www.grac.org for more information on these events.

- March 8-10, Principles of Groundwater Flow and Transport Modeling in Orange
- March 29, GRA Legislative Symposium and Lobby Day in Sacramento
- April 4-5, Nitrate in California's Groundwater in Modesto
- June 7-8, Emerging Contaminants in Groundwater in Concord.

The **2006 Roy J. Shlemon Specialty Conference** is being held May 3-5, 2006 in Durango, Colorado at the Historic Strater Hotel. The conference subject is "Mass Wasting in Disturbed Watersheds" chaired by Bill Haneberg, Sue Cannon, Paul Santi, and Jeff Coe. To receive more information and to register for the conference, go to the web site: www.haneberg.com/watersheds.

You are invited to join the **Seismological Society of America** in San Francisco to commemorate the 100th anniversary of the 1906 earthquake and kick off the SSA's centennial celebration at the "The 100th Anniversary Earthquake Conference". SSA will be meeting jointly with the Earthquake Engineering Research Institute for their 8th National Earthquake Conference and the California emergency management community for their annual Disaster Resistant California conference at the Moscone Convention Center on April 18-22. The conference is also being co-sponsored by more than 50 organizations from around the world, including AEG. Registration and hotel information is online at the 100th Anniversary Earthquake Conference website: <http://www.1906eqconf.org>



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Educational Opportunity – Flow of Non-Aqueous Phase Liquids

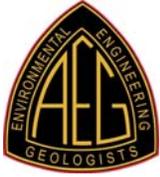
Confused about the science related to Dense and Light Non-Aqueous Phase Liquids (DNAPLs and LNAPLs) in the subsurface? Taken aback by the concepts of soil capillary characteristics, NAPL saturation, non-wetting phase residual saturation, relative permeability? Do you have a need to predict the mobility of DNAPLs and LNAPLs in the subsurface, or their longevity as a source of dissolved groundwater contamination? The Department of Geological Sciences at San Diego State University is providing an opportunity for professionals in Southern California to further their understanding of these concepts through a two-weekend workshop. This workshop will be offered on March 25-26 and April 1-2, 2006 by David Huntley, Professor of Geological Sciences and Associate Editor of both Ground Water and Ground Water Monitoring and Remediation, and a specialist in NAPLs. Interested students may enroll in this class through SDSU Open University through March 25. The cost is \$585. The Open University enrollment form can be obtained directly from Dr. Huntley (<mailto:dhuntley@geology.sdsu.edu>).

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>



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EMPLOYMENT

As a service to our members, AEG San Diego welcomes job postings - either for open positions or jobs wanted. Please contact Jonathan Goodmacher (jgoodmacher@ninyoandmoore.com) for information on advertising in this newsletter. The cost for an ad is \$25 per month. As an incentive your ad posted in the San Diego Chapter Newsletter is included in the version of the newsletter posted on the Southern California Section website. A check for \$25 made out to the San Diego AEG should also be mailed to Steve Bradley, AEG San Diego Treasurer, Tetra Tech EMI, 1230 Columbia St., Ste. 1000, San Diego, CA 92101.



Ninyo & Moore has openings in the geotechnical division of our San Diego, California office for entry- and project-level soil engineers and geologists. Candidates should possess a Bachelor's degree (Master's a plus) in engineering and/or geology.

For entry-level must have excellent academic references and good GPA. For project-level candidates should have a minimum of three years experience and professional registration is a plus. Must be able to effectively work in a cooperative, team-oriented environment. The candidate should possess good computer skills (e.g., Word, Excel, etc.), have excellent verbal and written communication skills, and be energetic.

Ninyo & Moore is an equal opportunity employer and offers excellent benefits and a rewarding professional environment. Compensation is competitive and commensurate with experience. Please respond to nmcareers@ninyoandmoore.com



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CHAPTER CONTACT INFORMATION

President	Jonathan Goodmacher	Ninyo & Moore	858.576.1000	jgoodmacher@ninyoandmoore.com
Secretary	Jacques Lord	Shaw Environmental	(619) 398-3220	jlord@onesullivan.com
Treasurer	Steve Bradley	Tetra Tech EMI	619.321.6717	steve.bradley@ttemi.com



Officers' Club
Building 4472 Anderson Ave.
Marine Corps Air Station Miramar
(858) 577-4808/4807

Directions to the Miramar Officers' Club

North Gate on Miramar Road

Gate is between Camino Ruiz and Kearny Villa Road. Once on base, continue straight through the four-way stop intersection at Delta Road and turn right at the first traffic signal onto Elrod Avenue. Continue to the end of the street and turn right onto Anderson Avenue. The Officers' Club is the next to the last building on the left.

Main Gate Entrance from I-15

Exit Miramar Way; proceed west on Miramar Way to the gate. Continue on Miramar Way through two traffic signals and two four way stop intersections. Turn right onto Anderson Avenue and follow approximately 3/4 of a mile. The Officers' Club is the next to the last building on the left.

