



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

San Diego Chapter, November 2006 Newsletter

NOVEMBER MEETING NOTICE: WEDNESDAY, NOVEMBER 15, 19 2006. Joint meeting with the ASCE Geotechnical Division will happen at **The Butcher Shop**, 5255 Kearny Villa Road, San Diego. Social activities begin at 6:00 pm with the presentation beginning at 6:30. The meal choices will be Top Sirloin, Mahi Mahi or Vegetarian Pasta. Please contact Lesley Barnes (Lesley.barnes@ttemi.com) with your reservation and meal choice. Please note - ***a reservation made is reservation paid.*** One added plus for this meeting, aside from the interesting topic, is that ***Contech Construction Products is buying the first round for each attendee.*** (Do they know that half the room will be geologists?)

Our speakers for Wednesday night are Jim Gingery, PE, GE and Scott Rugg, PG, CEG of Kleinfelder, Inc., San Diego, California. Jim and Scott will discuss San Diego Bay faulting. The SR 75/282 Transportation Corridor Project is intended to alleviate traffic congestion in the City of Coronado from commuters traveling to and from Naval Air Station at North Island (NASNI). The project is currently in the environmental documents and preliminary engineering phase, with two tunnel alternatives under consideration. One alternative is an approximately 48-ft by 20-ft cut-and-cover box tunnel and the other is 37-foot diameter twin-bore tunnels. The tunnel alignment runs from the west abutment of the San Diego-Coronado Bay Bridge, along 4th Street to the main entrance gate of NASNI.

This presentation focuses on the fault hazard characterization portion of the geotechnical and engineering geology studies Kleinfelder performed for the project. The proposed tunnel alignment crosses the Alquist-Priolo Fault Hazard Zone of the Coronado fault. A staged field investigation was performed that consisted of seismic reflection soundings, rows of closely spaced cone penetrometer test (CPT) soundings, bucket auger borings, and exploratory trenching. The study is the first to definitively confirm the presence and active status of the Coronado fault on shore. Based on the field observations, it is estimated that the Coronado fault is capable of approximately 12 inches of vertical throw per event. Estimates of strike slip displacement were developed for the tunnel design using an empirical relationship and several kinematic models. The tunnel response to the fault displacements was evaluated using numerical modeling that incorporated soil-tunnel interaction.

Scott Rugg is a project engineer with Kleinfelder in San Diego with over 20 years of varied engineering geology experience. He has investigated over 700 individual sites throughout southern and northern California including commercial, government, industrial, residential, and marine projects. Mr. Rugg has performed numerous fault investigations in the San Diego metropolitan



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area. He has a BS in Geology from San Diego State University and is a Registered Geologist and Certified Engineering Geologist in California.

Jim Gingery is a senior geotechnical engineer with Kleinfelder in San Diego. His project experiences ranges from bridges to landfills to tunnels at sites from Massachusetts to California to Australia. Mr. Gingery has extensive training and experience in the field of geotechnical earthquake engineering and he is a member of the Earthquake Engineering Research Institute. His technical expertise includes soil-structure interaction, numerical modeling, and dynamic analysis. Mr. Gingery holds a BS in Civil Engineering from San Jose State University and an MS in Geotechnical Engineering from U.C. Berkeley, and is a Registered Civil and Geotechnical Engineering in the State of California.

SUMMARY OF AUGUST'S MEETING (Notes by Lee Vanderhurst, Secretary)

Pat Brooks provided October's stimulating presentation. Pat discussed the ongoing cleanup at Hunter's Point in San Francisco, California using new in situ mechanochemical methods. Zero-Valent iron and activated charcoal injection are showing potential for relatively easy, affordable treatment of shallow sediments. This is a tremendously important breakthrough for our bivalve brethren and for lovers of fine clam bisque at the nearby Fisherman's Warf. Pat's talk was informative and entertaining. Too many of you reallllly missed it.

UPCOMING SAN DIEGO AEG MEETINGS:

December, 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 .

POLITICS AND PROPOSALS: A CONNECTION?

From Jim Ryan, AGCSD Executive Vice President, "I received a call last week from one of our AGC members that works mainly on the engineering side of the industry for our local cities, the County, and Caltrans. He was concerned. It seemed like the number of projects out for bid has been dramatically reduced.

"I suspect this is a temporary 'lull' in the action. During last week's Independent Transnet Oversight Committee (ITOC) meeting, SANDAG presented figures concerning the immediate infusion of funding for projects should Prop 1 B pass on November 7th. SB 1266, the legislation that created Prop 1B contained specific language for funding for local projects throughout the state. The county of San Diego will receive \$70,000,000 in new funding, and the cities in the county will receive the following:

Carlsbad \$3,053,090	El Cajon \$3,135,140	La Mesa \$1,796,409
Chula Vista \$6,980,622	Encinitas \$2,014,322	Lemon Grove \$819,251
Coronado \$865,522	Escondido \$4,535,705	National City \$2,046,378
Del Mar \$400,000	Imperial Beach \$889,172	Oceanside \$5,618,210



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Poway \$1,626,083
San Diego \$41,899,071

San Marcos \$2,344,191
Santee \$1,748,052

Solana Beach \$429,986
Vista \$3,019,814"

NEWS FROM THE BOARD FOR GEOLOGISTS AND GEOPHYSICISTS

On Friday, September 29, Governor Schwarzenegger signed into law SB 1476 (Figueroa) that continues the Board for Geologists and Geophysicists. Section 7810 of the Business and Professions Code is amended to read: "This section shall become inoperative on July 1, 2009, and, as of January 1, 2010, is repealed, unless a later enacted statute, that becomes operative on or before January 1, 2010, deletes or extends the dates on which it becomes inoperative and is repealed." This means that the next round of sunset review hearings by the Joint Committee on Boards, Commissions and Consumer Protection should begin in the fall of 2008.

The State Board for Geologists and Geophysicists is proposing to change the Code of Professional Conduct. Presented below are web links to the notices regarding the proposed changes and the language of the proposed changes.

[Notice of Regulatory Changes;](#)

[Initial Statement of Reasons](#)

[Proposed Language](#)

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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