



ASSOCIATION OF ENGINEERING GEOLOGISTS

Southern California Section

*"Serving Professionals in Engineering, Environmental,
and Groundwater Geology Since 1957"*

NEWSLETTER – June 2005

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- Meeting Date:** **Tuesday, June 21, 2005**
Joint Meeting with the Coast Geological Society
- Location:** The Veterans of Foreign Wars Hall, 3801 Market Street, Ventura, CA
Time: Social Hour: 6:00 PM; Dinner: 7:00 PM; Presentations: 8:00 PM
- Reservations:** Email reservations@coastgeologicalsociety.org by **5 pm, June 17**
 Call Dave Brown at (805) 653-7975 by **3 pm, June 17**
 Fax to (805) 6537452 by **3 pm, June 17**
- Cost:** \$15 per person with reservations, \$18 at the door; \$8 for Students and K-12 Teachers.
- Presenter:** Dale S. Kunitomi
- Topic:** "Climate Change: The Paradox of Global Warming Causing A New Ice Age"

Abstract:

Climate is regional while Weather is local.

Although still controversial, the past 30 years have documented climatic warming, especially in the northern hemisphere from many varied sources. If the trend continues well into this century the result could be the imitation of a new Ice Age. Rapid changes in climate both warm and cold are seen in ice cores and suspected from geologic evidence during the Pleistocene.

Most projections of future climate change fail to consider the geologic time scale. It may be of little consolation to humans that climatic changes are commonly seen in the geologic record. Of the many factors affecting the short term climate (4th Order), human activity is only one but probably the most accurately measured but not fully understood.

The three primary forces affecting climate are **atmospheric wind patterns, ocean currents** and **solar variability** or Milankovitch Cycles. Atmospheric movement is created by temperature and moisture differences. Oceanic current movement is caused by salinity and temperature differences. The conjunction of the 3 Milankovitch Cycles is about every 200,000 years, roughly coincidence with Pleistocene glacial and interglacial cycles.

The increase in Green House Gases (GHG) that may be contributing to the warming will continue despite present concerns and puny efforts to reduce GHG. Whether man-caused or not, warming of the Arctic is occurring and eventually, the exposed Arctic sea will furnish moisture to the Polar Easterly Winds increasing snow accumulation at the Sub-Polar Convergence (60⁰ latitude). The snow becomes glaciers and the increased freshwater runoff partially blocks the Great Conveyor Belt Current, stopping the warming of northern European and North American latitudes!

The Great Conveyor Belt Current is re-established when the extreme (cool) Milankovitch Cycles coincide. The Arctic icecap and Greenland glaciers are re-established and atmospheric moisture is cut off from the Sub-Polar Convergence and glaciers retreat or melt completely and the climate warms.

Global climate change has occurred throughout Geologic Time and will continue to do so in the future. The factors causing climate change are beyond human control and occur on varying time scales and varying magnitude.

The data for this presentation was graciously provided by Dr. James Reynolds, Brevard College, Brevard, North Carolina.

Speaker Biographical Information:

Dale Kunitomi is a consulting petroleum geologist, practicing locally in of Camarillo, California. He attended UCLA and after graduation he worked and lived Long Beach, California where the easterly extension of the giant Wilmington field had just begun. Included during that time were four years of night classes at USC in an attempt to absorb the huge volume of literature documenting the emerging Plate Tectonics Revolution. This education at UCLA and USC has resulted in episodes of schizophrenia during the fall football season. From Long Beach his oil career has taken him back to Los Angeles, to Santa Barbara, Ventura and Bakersfield working for various small oil companies and concentrating on oil and gas in California. He has been a consultant since 1988. The very first presentation Dale ever made was to CGS in the mid-1970's on transforming the Honor Rancho oilfield to a gas storage field. Dale has been a CGS member for over 25 years. Within CGS he proudly holds the position of Assistant BBQ Chief under the tutelage of Dr. Iron Chef Eugene Fritsche.

Directions:

NORTHBOUND Highway 101-Take the Main St. Off Ramp, Go West to Callens Rd., Turn Left, Go to Market St, Turn Right to the VFW Hall

SOUTHBOUND Highway 101-Take the Main St. Off Ramp, Go East to Callens Rd., Turn Right to Market St. Turn Left to the VFW Hall

For additional information please visit the CGS website at <http://www.coastgeologicalsociety.org/index.html>

From the Vice Chair
(by Charles Nestle)

The year is half over (or is it half begun?), summer is here, we didn't get the record for the highest recorded rainfall, the debris flows have ended while the deeper landslides have begun, non-geologists are making incredibly stupid geologic assessments (see <http://www.nbc4.tv/print/4557238/detail.html>), and I've read that ocean temperatures are up indicating the potential for el niño conditions next winter. Geology is in the news and we all have an enormous amount of work.

Board News

Many of you have already seen the letter written by Gary Duke, legal counsel for the BGG and BPELS that appears to provide legal authority to engineering geologists to provide quantitative slope stability analyses. The October 22, 2004 letter (which can be found at: http://www.geology.ca.gov/hot_topics/slope_stability.pdf) states: "In general, both licensed civil engineers and registered geologists may perform a quantitative slope stability analysis resulting in a numeric factor of safety."

What does this mean to you? Most development projects require soils engineering input so there may be no significant change in the processes we go through. That being said, I am personally not a fan of computer-generated slope stability analyses that determine a "worst-case" failure surface. Stability analyses based on the geologist's detailed characterization of the site, detailed observations of lithologic structure, strength of the material along the most appropriate surface, and interpretation of the most critical potential failure surface may provide a more realistic analysis.

More Board news: As reported in the May AEG SoCal Section newsletter, the BGG had proposed to eliminate the California Specific Exam (CSE) from the ASBOG. This would allow geologists to become licensed as a California PG without having been required to be knowledgeable about state-specific laws, regulations, and geologic conditions. Following recommendations by the Department of Consumer Affairs' Office of Examination Resources, the BGG, at its May 20 meeting, approved establishing a focus group to study the relevance and effectiveness of the CSE. This focus group may find that that the CSE can be made relevant and determine how best to accomplish that, or it may ultimately determine that elimination is the only alternative, or several proposals may be provided. The Board is requesting volunteers to participate in the focus group, which will meet October 6 and 7. Information about participating can be found at: http://www.geology.ca.gov/hot_topics/volunteer.pdf.

And even more Board news: The BGG is proposing to amend sections 3062, 3062.1, 3063, and 3063.1, Title 16, Division 29 of the California Code of Regulations to increase the maximum civil penalty that can be assessed from \$2500 to \$5000. Read all about it at <http://www.geology.ca.gov/legalnotices.htm> (click on the files under "Increase in Cite and Fine Penalties Proposed Regulations."

CCGO

There has been much discussion about the AEG Southern California Section's renewal of membership in CCGO. Based on the number of members in our Section, our membership dues are \$600 per year, we have been delinquent for one or two years, and we have chosen to continue membership for the time being.

Many questions and comments have been raised about our membership in CCGO. Some of these are: What has CCGO provided for SoCal AEG that warrants the membership dues? Is CCGO relevant to AEG? Does CCGO represent us or is their focus entirely in northern California? If AEG represents themselves in legislative issues isn't CCGO redundant? Since CCGO now contracts separately with AEG's lobbyist isn't that redundant? Should CCGO entirely take over funding and control of the lobbyist? Who runs CCGO and is there a conflict of interest between CCGO and AEG?

These questions and more should be considered by all of us as AEG SoCal moves toward resolving these issues and determining what is best for our Section. I'm sure I've forgotten to include other current information, so for more discussion come to our June 21st joint meeting with Coast Geological Society in Ventura. I'll see you there.

New Chapter

I, Matthew Hawley, Chair of the Southern California Section of the Association of Engineering Geologists, officially recognize the San Diego Regional Chapter (SDRC) as an active and participating group within the Southern California Section.

Congratulations!!

Jonathan Goodmacher (jgoodmacher@ninyoandmoore.com) has volunteered to serve as interim Chapter President. Jonathan is in the planning phase of meeting location and time. When it is determined, we will let you know.

I hope many of you that do not attend the Section meetings can make the local meetings. It will be an opportunity for you to listen and share your ideas, thoughts of the bustling business in your local area, and the items that are of concern to you. Look for updates concerning the SDRC in future Section newsletters.



Where's Waldo? For those who were on the field trip, see if you can find yourself.

ASSOCIATION OF ENGINEERING GEOLOGISTS
Inland Empire Chapter - Southern California Section

Frank Jordan, President
 Formation Committee:
 Mike Cook
 Frank Jordan
 Doug Cook
 Rick Gundry
 Gary Wallace
 Richard Orr, Chair, Membership Committee

Richard R. Gundry, Treasurer
 Goals Committee (attenders)
 (vacant), Vice-President
 (vacant), Secretary
 (vacant), Editor, Chapter Newsletter
 (vacant), 2005 President-Elect
 (vacant) Web-Person
 (vacant) Government Affairs Liaison

JUNE MEETING NOTICE

Wednesday, 15-June-2005

5:45 - 6:15 Geologist Orientation @ Guadalupe's Cantina
 6:30 - 8:30 Chapter Meeting @ King's Buffet Restaurant

Meeting/Donation Cost: \$20:00
(RSVP/Directions below)

Dear AEG Members:

A tremendous amount of significant business was accomplished at the May meeting thanks to those who attended to assist with decisions, and with thanks to Mark Spykerman and Richard Orr who officiated as interim appointed Formation Committee Chair and Vice-Chair (with much thanks !). Minutes of that meeting (with a Treasurer's Report) and an Agenda accompany this Announcement for the June Meeting, which will focus on old business and new business, and a speaker presentation (announced below). You that receive this Meeting Announcement are encouraged to attend this next meeting. (Please RSVP as indicated below).

Rick Gundry, Treasurer
 AEG Inland Empire Chapter

Attenders/facilitators at May Meeting

Thanks to the individuals who participated in last month's meeting: **Mark S. Spykerman, Earth Systems Southwest; Doug Cook, Kleinfelder & Associates; Gary Wallace, RMA Group; Mike Cook, Kleinfelder & Associates; Richard Orr, Leighton Consulting Inc; Jeff Keaton, AMEC; Richard Escandon, Kleinfelder & Associates; David L. Perry, Consulting Engineering Geologist; Paul Peterson, Earth Tech.** Thanks also to those who attended the previous April meeting that were not able to attend, and those that have expressly indicated interested in other ways who will be participating as they can. Please let us know your views and thoughts and comments by e-Mail, even if you are unable to attend.

This Month's Speaker: *Mark Spykerman, Engineering Geologist, Earth Systems Southwest*

"The Alquist-Priolo Act and Creationism: Literal Conflicts ?"

Clients and peers have religious beliefs that may be contrary to what we as practicing geologists in California may personally believe. This talk is about a circumstance where a respected peer posed a 'faith' question with respect to "active faulting". The question pertained to the "young earth" view of the earth being on the order of 6,000 years old versus the AP use of 11,000 years for defining an active fault. Mr. Spykerman will discuss the background geology that brought the "question" to the forefront and how he attempted to navigate a treacherous response path without offending the "young earth" beliefs of the peer.

Section Chairman's Message - AEG Southern California Section

Please note that the up-coming [AEG Southern California Section] June meeting is a joint meeting with the Coast Geological Society held in Ventura. Please see the web page for details.

Also the date of the meeting is June 21, not June 14.

Cheers - Matt Hawley, Chairman, AEG SoCal Section

Directions to Meeting(s)

King Buffet
Chinese, Italian, Japanese and American
204 E. Hospitality Lane
San Bernardino, CA
Ph. (909) 885-2338

GuadalaHarry's
Cantina
280 E. Hospitality Lane
San Bernardino, CA
Ph. (909) 889-8555

Meeting areas are located in San Bernardino's Commerce Center on the north side of Hospitality Lane. From the I-10/I-215 Interchange heading East on I-10, **exit** at Waterman Avenue North, turn left (east) on Redlands Blvd, turn **left** (north) on Waterman Ave., turn **left** (west) at Hospitality Lane to GuadalaHarry's or King Buffet. Heading West on I-10, **exit** at Waterman Avenue North, turn **left** (west) onto Hospitality Lane. Continue past Waterman Ave., to the designated locations.

Please RSVP by Monday June 13 with Rick Gundry at rick.gundry@verizon.net or leave a message of RSVP at (951) 924-6756. Thanks.

Contact Information:

Richard R. Gundry, AEG 7745
RG 5602, CPG 8518

Frank Jordan AEG 7022
RG 5984, CEG 1913, CHG 486

Agency Hydrologist - Water Rights
U.S. Bureau of Indian Affairs
Riverside, CA
(951) 276-6624, ext. 257
rick.gundry@verizon.net

Engineering Geologist
Gary S. Rasmussen & Associates, Inc
San Bernardino, CA
(909) 888-2422
geo.jordan@gmail.com



BOARD FOR GEOLOGISTS AND GEOPHYSICISTS
2535 CAPITOL OAKS DRIVE, SUITE 300A, SACRAMENTO, CA 95833-2926
TELEPHONE: (916) 263-2113
FAX: (916) 263-2099
E-mail: geology@dca.ca.gov
Website: www.geology.ca.gov



May 23, 2005

CALL FOR VOLUNTEERS

The Board for Geologists and Geophysicists (Board) is looking for approximately 10 volunteers to serve on a focus group that is looking into the issue of whether or not to maintain, modify or eliminate the California-specific portion of the Professional Geologist (PG) licensing examination (CSE) that is currently required for licensure as a PG in California.

The focus group will meet for two full days in early October, 2005 (October 6-7) in Sacramento. All expenses will be paid by the Board, including a \$100 per day stipend.

The Department of Consumer Affairs' Office of Examination Resources (OER) will be responsible for the administration of the focus group and for the recommendation that will be made to the Board as a result of the focus group. The focus group will consist of subject matter experts (i.e., licensees) who, facilitated by a test development expert provided by OER, will evaluate the current scope of practice in relation to the 2000 Occupational Analysis for Professional Geologists, entry-level standards for competent and safe practice, and consumer protection.

Only individuals who are licensed as PGs will be considered (the specialty licenses CEG and CHG are acceptable, since a PG is required before the specialty license can be earned). Any individual who serves on the Board or any of its Committees is not eligible for service on the focus group. A representative cross-section of the licensee population is desired (age, gender, experience/practice, years since becoming licensed, etc.). Please submit your resume/CV along with a letter describing why you want to participate in this focus group to the attention of DeLesa Swanigan, Office Manager for the Board to the Board's office. Volunteer applications are due no later than Wednesday, July 13, 2005, so that the selection of candidates by the Board Members can be made at their July 15, 2005 Board Meeting.

Thank you in advance for volunteering for this very important focus group.

Updated: May 2005

PROPER LICENSING FOR PROFESSIONAL ENGINEERING AND GEOLOGY SERVICES

Background:

The Business and Professions Code and regulatory agencies require licensed professionals to sign reports and workplans. A licensed professional must be in responsible charge of all corrective action activities, and must direct the design and implementation of any corrective action.

The UST Cleanup Fund will only reimburse for the activities of firms that are properly licensed and maintain necessary licenses for legal operations in the State of California.

Acceptable Professional Licenses:

The activities of professional engineers and geologists are subject to the provisions of the Business and Professions Code.

Firms whose primary activity consists of geologic services must have a professional geologist as a partner or officer of the firm. A professional engineer must be an "owner, part owner, or officer in charge of the engineering practice" of an engineering business.

Acceptable professional licenses include:

- Professional Civil Engineer (PE)
- Professional Geologist (PG)
- Certified Engineering Geologist (CEG)
- Certified Hydrogeologist (CHG)
- Professional Petroleum Engineer (PE)

Unacceptable Registrations and Certifications:

The UST Cleanup Fund and most regulatory officials do not accept registrations and certifications from private associations and other states for the purposes of being in responsible charge of UST corrective action activities in California.

For the purposes of being in responsible charge of UST corrective action activities, unacceptable registrations include:

- Registered Environmental Assessor (REA)
- Registered Environmental Manager (REM)
- Registered Environmental Professional (REP)
- Certified Environmental Investigator (CEI)
- Certified Environmental Specialist (CES)

For example, REAs, in some circumstances, may assist in the review of operations and practices to ensure compliance with environmental regulations. REAs can specialize in different fields, including air and water quality, emergency preparedness, hazard communications, and occupational safety and health. (See Chapter 6.98 of the Health and Safety Code.) An REA designation does not, however, qualify a person to be in responsible charge of corrective action activities.

Please note that it is the claimant's responsibility to hire qualified consultants and to follow applicable state laws in hiring licensed professional services.

Additional Information:

- State Board for Geologists and Geophysicists
<http://www.geology.ca.gov>
- State Board for Professional Engineers and Land Surveyors
<http://www.dca.ca.gov/pels/>

Section Business Donation

- Platinum - \$500
- Gold - \$250
- Silver - \$125

Company receives a line in the section newsletter giving their name or their company name under the appropriate metallic heading.

National Business Donation

- Platinum - \$1,000
- Gold - \$500
- Silver - \$250

Company name, address and contact information are presented in AEG News and section receives 10% of donation. A national donation does not yield a line in our local section newsletter.

Company & Employment Advertising

	<u>Month</u>	<u>Year</u>
▪ Business Card	\$10	\$100
▪ ¼ Page	\$20	\$200
▪ ½ Page	\$35	\$350
▪ Full Page	\$50	\$500

* The deadline for submitting an advertisement for next month's newsletter is Friday, June 24.

YEAR 2005 CONTRIBUTORS NEEDED

Contributions from corporations and individual members are greatly appreciated. Contributors will be listed in our newsletter throughout the year and can post their logo or business card in the newsletter if so desired. Please mail contributions made out to **AEG** to our section treasurer, Brian Villalobos.

2005 MEMBERSHIP RENEWAL

For those of you who have not yet renewed **(the deadline was November 1)**, are unsure about your membership status, or did not receive your membership dues statement, please contact AEG Headquarters at www.aegweb.org. You can renew your membership online. Please update your membership if you wish to continue to receive future issues of the newsletter.

EMPLOYMENT OPPORTUNITIES THIS MONTH & ADVERTISING



Lawson & Associates
Geotechnical Consulting, Inc.

Lawson & Associates Geotechnical Consulting, Inc.

2045 Royal Avenue, Ste. 125
 Simi Valley, CA 93065
 Tele: (805) 579-3434 Fax: (805) 579-3435
 Email: kesmond@lgcgeo.com

1319 Calle Avanzado
 San Clemente, CA 92673
 Tele: (949) 369-6141 Fax: (949) 369-6142
 Email: info@lgcgeo.com

Website: www.lgcgeo.com

LGC is looking for dynamic individuals to join our team and work on some of southern California's most interesting and technically challenging projects. If you are an experienced geotechnical professional, or just starting your career, please do not hesitate to contact us. All inquiries will be considered in the utmost confidence. We look forward to hearing from you.



Petra Geotechnical is currently seeking experienced geotechnical engineers, geologists, environmental scientists and soils technicians in our Costa Mesa, Santa Clarita, Murrieta and San Diego offices. We offer competitive salaries and excellent benefits. Please contact Linda Becker, Human Resources Manager, at 714/549-8921 or submit your resume by email to lbecker@petra-inc.com

Davis Earth & Materials, Inc., a San Diego based geotechnical and materials testing firm, is looking for **Geotechnical Engineers and Geologists** to assist with high-rise, commercial, and public agency projects. We are a small company with remarkable growth potential for ambitious individuals anxious to help the company grow. We will consider staff to senior level candidates, 2 years to 20+ years. Registration is preferred but not required.

Please Fax or Email resume with cover letter to: Human Resources, 858-292-7570, info@dem-inc.net.

Concrete Forensics
Specializing in petrographic analysis of concrete
concreteforensics@yahoo.com
 310 W. Valencia Mesa Dr. #10
 Fullerton, CA 92835
 714.402.6383



ENERGY WATER INFORMATION GOVERNMENT

Black & Veatch, a world leading engineering, consulting and construction company, has immediate opening in **Irvine, CA** for a **Senior Geologist** to participate in broad range of environmental and hazardous waste projects

Requires degree in Geology or Hydrogeology, California PG; 4 to 10 years environmental experience in the southwestern United States, a sound understanding of sedimentary and groundwater geology, and superior communication skills. Must be physically capable of performing hazardous waste fieldwork. Overtime and travel for field assignments required. Typical duties include project scope, budget, and schedule development, field observation, supervision of staff geologists and subcontractors, data analysis, report and proposal preparation, as well as regular client contact. Projects are mostly at major DOD facilities and range from preliminary assessment through remediation and site closure.

To Apply. Please submit resume online to: <http://www.bv.com/careers/careersExp.htm>. Reference job #041345 for the Geologist 4 position. EEO M/F/D/V

At **ENSR International**, we understand the importance of investing in our greatest resource - our employees. Our talented professionals have helped us grow to become a respected global leader in environmental services. Join with us in helping the world work better, as part of our Camarillo, CA team in the following position:

PROJECT GEOLOGIST

Primary duties include: Management of petroleum related subsurface investigation and remediation projects. Will be responsible for providing oversight for all activities associated with such projects including report writing, and managing all field staff and resources. Candidate must have an ability to plan and organize field assignments and construction activities, as well as provide strategic direction for the projects. This would involve the preparation and review of work plans and sampling plans, oversight of staff completing field sampling, evaluating and interpreting environmental and hydrogeologic data, and assisting and reviewing report preparation. BS/BA in Geology, with California RG/PG required, along with 5 to 8 years of experience.

ENSR is an Equal Opportunity Employer. M/F/D/V. We offer competitive salaries, advancement opportunities and a full range of benefits. Please send your resume with salary history to hrwest@ensr.com for further consideration. To learn more about ENSR and other career opportunities, please visit our website at www.ensr.com

GEOLOGISTS: STATE OF CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL IS EXAMINING AND HIRING GEOLOGISTS WITH SKILLS AND KNOWLEDGE IN ENVIRONMENTAL CLEANUP, GEOPHYSICS, HYDRO GEOLOGY, BIO-REMEDIATION AND FAULTING/SEISMIC GROUND MOTION EVALUATIONS. DEGREE WITH MAJOR WORK IN ENGINEERING GEOLOGY, GEOLOGY OR A CLOSELY RELATED FIELD IS REQUIRED. EXCELLENT BENEFITS, COMPETITIVE SALARIES. FOR INFORMATION CONTACT(916) 322-8669. EXAM INFORMATION AND STATE APPLICATION (FORM 678) CAN BE DOWNLOADED AT www.DTSC.CA.GOV/EMPLOYMENT/INDEX.HTML) AND SENT TO:

DEPT. OF TOXIC SUBSTANCES CONTROL
PO BOX 806, SACRAMENTO, CA 95812-0806

BY:
6/17/05



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Corporate Address: 2950 Oleta Ln, Highland, California 92346

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AEG Southern California Section
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Earth Resources, Inc.
18302 Sierra Highway, #102
Santa Clarita, CA 91351