



**ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS
Southern California Section**

"Connecting Professionals, Practice, and the Public."

NEWSLETTER – October 2008

Officers

Chair - Rosalind Munro, rmunro@mactec.com, 323-889-5366
Vice Chair - Mark Osborne, mark.osborne@lacity.org, 213-847-0524
Treasurer - Peter Thams, thams.peter@gmail.com, 805-493-0663
Secretary - Jon Relyea, jon@radiusmaps.net, 800-554-3205

Visit the Southern California Section Website: www.aegsc.org

Newsletter Editor – Steve Varnell, svarnell@fugro.com, 805-650-7000

Meeting Date: *Tuesday, October 14th*****

*****Joint Meeting with the South Coast Geological Society*****

*****Location:**

DoubleTree Club Hotel in Santa Ana. Directions:
<http://www.southcoastgeo.org/newsletter.pdf>

Time:

6:00 p.m.-Social Hour; 7:00 p.m.-Dinner, 8:00 p.m.-Presentation

Cost:

\$25 per person with reservations, \$30 without reservations, \$15 with a valid Student ID.

Reservations:

RSVP by logging on to the SCGS web site
<http://www.southcoastgeo.org/meetings.shtml> or call Maria Herzberg at 714-412-1502 or Boris Zaprianoff at 949-436-3444.

Speaker:

Dr. Jeffrey A. Johnson, P.G., C.E.G.

Topic:

A Preliminary Case for Secondary Tectonic Distress in the Epicentral Region of the M6.7 1994 Northridge Earthquake

Abstract:

The 1994 Northridge earthquake occurred on a blind thrust fault below the San Fernando Valley. The SFV is an intermontane basin within the convergent Transverse Ranges. Coseismic rupture, on regional thrusts, contributes to millimeter level convergence across the Transverse Ranges west of the San Andreas. Clearly, with time, the floor of the SFV will deform or continue to deform as a result of regional convergence. The question is can a single blind thrust earthquake produce damaging secondary tectonic distress, at the surface of a deep alluvial valley, and will future distress occur at the same location? The answer appears to be a qualified yes. To better understand the issue street by street reconnaissance level mapping ($\approx 120 \text{ km}^2$), of distress to streets, sidewalks, curbs, etc., was conducted in the epicentral region of the SFV. The distress was plotted on 1920's topographic maps, aerial photos from the Fairchild Collection, Whittier College and color aerial photos taken shortly after the earthquake. The location of failed gas and water lines were also collected, from SoCalGas and the DWP, and plotted. Although subtle, observed distress locally exacerbated pipeline failures, may have contributed to fatalities at a Northridge apartment complex and exhibited some similarities with distress noted following the 1971 San Fernando earthquake. Offsets, observed along crack zones, were one to two orders of magnitude less than the estimated meter displacements on the primary fault. However, locally distress appears to correlate with valley floor geomorphic features suggesting similar distress may have occurred during prior earthquakes.

Speaker and Co-author:

Jeff Johnson has a B.S. in Geology from Cal State Northridge, a M.S. in Geology from UCLA, and a Ph.D. in Engineering from UCLA with a major in Soil Mechanics and minors in Earthquake Engineering/Engineering Geology. Jeff is a registered P.G. and C.E.G. in the state of California. Jeff is a consultant; his firm is Engineering Geology and Applied Seismology, out of San Diego. Since 1969 his career has been divided between research, teaching and consulting. Research has been devoted to the understanding of geological and seismic processes and their potential affects on the performance of engineered structures. Studies, including the adverse effects of landslides, subsidence, differential settlement, near source ground motion, coseismic fault rupture and associated deformation, and liquefaction have been conducted in the United States, Central and South America, the Middle East, and Japan. Current research includes: (1) the origin and stability of deep-seated landslides in the complex and seismically active region along the bend between the Hayward and Calaveras faults; (2) the development of criteria for the identification of seismic exacerbation of cracks in engineered structures; and (3) the relationship between surface distress and damage to buried pipelines and coseismic slip on blind thrusts.

Chair Column

Roz Munro

Annual Meeting

The 51st Annual Meeting in New Orleans was a real success. The weather was good, except for rain on Saturday but it was only rain, not a hurricane. The venue was good (except for the AC, generally freezing) and the talks and activities I attended were great. We found some great jazz and food. The preliminary assessment is that the meeting made money, although that can't be verified yet.

The annual Board of Directors meeting was held Sat. and Sun. Peter Thams, presumptive Chair, also attended the Board meeting in our strategy to have overlap. As a reminder, the Chair of each Section is a member of the Board of Directors (BOD) of the Association, which also includes the Officers of the Association and immediate Past President.

There are a lot of issues that can affect us, not least the Joint Task Force on Areas of Expertise (JTFAP). It apparently was formed in 2004 as an inter-society working group and venture among. A **confidential** draft of the proposed Engineering and Geology Practice Guidelines was provided to the Board for discussion at the board meeting. Written comments from the Board members are due Oct. 3. After Board member comments and review of the document by AEG's lawyers, revisions to the document will be sent to the task force.

G-I and AIPG will be going through the same process. If some kind of consensus can be reached, a draft will be distributed to AEG's membership for comment. ASCE Geo-Institute (G-I), AEG, and AIPG

Election of Section Officers

The ballot for Section Officers will be sent out this month.

The current proposed nominees are Peter Thams for Chair, and Jon Relyea for Treasurer.

We have a potential nominee for Secretary. We need a nominee for Vice Chair and an alternate nominee for Secretary. Please consider supporting the section by volunteering or recommending a candidate. I will continue to support the Section as an active past Chair.

October Joint Meeting

Be sure to join us at our October joint meeting with South Coast Geological Society in Santa Ana. We will pursue additional Section meetings in OC in the future.

Announcement

Charles Nestle

The 2008 County of Los Angeles Building Code (Title 26) was expected to be available in technical book stores around the end of March. The new code may also be accessed at either of the following links: <http://www.bpcnet.com/codes/lacounty/> or <http://ordlink.com/codes/lacounty/index.htm>. Click on: "Title 26. Building Code."

Public Service Announcement

Charles Nestle

ZIP-A-DIPs Are Still Available!

How many of you have given up trying to find replacement for your faded and warped Zip-A-Dips? Zip-A-Dips are available from Don and Jeannine Lamar, who have lived in retirement in Reno for the past six years. Jeannine said that they don't plan on having any more made when they exhaust the present supply of Zip-A-Dips. She said, "It sure is nice to know that some geologists are still using ZADs."

Order your Zip-A-Dip by phone: (775) 322-5344. The price for 1 is \$4.00, or order 2-10 for \$3.50 ea., 11-49 for 3.00 ea., and 50+ for \$2.50 ea.

Save the date!

10th ANNUAL
“THE WOOLLEY”
GOLF TOURNAMENT & BBQ
Sponsored by Coast Geological Society



PROVIDING SCHOLARSHIPS THROUGH
COAST GEOLOGICAL SOCIETY
(an affiliate of Pacific Section AAPG)

Friday, October 10, 2008

ELKINS RANCH GOLF COURSE – 1386 Chambersburg Road, Fillmore, CA
“SCRAMBLE” FORMAT, Awards to Low Gross & 1st/2nd Place Low Net
Check-in 9:30 am, Shotgun start 12:00 PM

- **Reduced Entry Fees! Golf – \$100/person (includes BBQ Lunch & Dinner)**
- **Attend BBQ Dinner only for \$20**
- **Huge Raffle! On-Course Contests! Big Prizes!**
- **Raffle & awards to follow tournament at the BBQ**
- **Multiple sponsorship levels available**

For more information or to save your spot, email:

golf@coastgeologicalsociety.org

or go to:

www.coastgeologicalsociety.org

or contact:

Mike Phipps or Shaun Simon
(818) 889-2562

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Friends of the Pleistocene

Second Announcement - 2008 Pacific Cell Fieldtrip

November 14-16, 2008

Organizers and Leaders: Tom Rockwell, Mike Oskin, Kim Le, Becky Dorsey, Susanne Janecke, Warren Sharp, Kate Fletcher, Lewis Owen, Caitlin Lippincott, Eldon Gath and George Jefferson

Focus: Cross-correlation of Quaternary dating techniques, slip rates, and tectonic models in the western Salton Trough

Register now at the official 2008 FOP website:
<http://www-rohan.sdsu.edu/~fop/>

The cost of the trip will be \$35, which includes all camping-related fees (portapotty rentals, other), copious amounts of beer for Thursday, Friday and Saturday evenings, and an all-new 2008 FOP T-shirt (currently under design). We will be dry-camping in the Anza Borrego area, and several of the stops will involve long and (hopefully) hot hikes, so please plan accordingly. A 4x4 high-clearance vehicle is strongly encouraged for Friday's plans. Car-pooling, both to the campground and along the trip, will also be strongly encouraged.

Day 1: Friday - The southern Clark strand of the San Jacinto fault. Will start off with a long and rigorous hike to examine spectacular offsets along the fault in Rockhouse Canyon, so Friday is not for the weak-kneed. But if you make it, you will be subjected to fault-zone geomorphology that will stick you in the eye. In the afternoon, we will visit the southern Santa Rosa slip rate site and discuss rates based on various dating techniques, dissipation of slip to the south, discussions on lifetime slip-rates versus their latest Quaternary slip rates. Have slip rates varied due to changing fault structure? ...and other controversial topics.

Day 2: Saturday - Evolution of the San Jacinto Fault. We will examine the evidence for the Early Quaternary age of the San Jacinto fault zone. Implications of fault arrays in mud-rich basins for paleoseismic studies. Crossing active faults-what is the evidence and how do they do this? Implications of ramps and flats on strike-slip faults. Fault youth and fault maturity: is this a useful model?

Day 3: Sunday - The Elsinore Fault, Lake Cahuilla history, Fish Creek basin stratigraphy. Continued discussions on derivation of slip rates based on various dating techniques, including cosmogenic ¹⁰Be, U-series, OSL, soils.

Dating soils via U-series on pedogenic carbonate. Dating Lake Cahuilla shoreline deposits with Optically-stimulated luminescence - how close do you get with OSL? The implications of clast provenance and fan morphology combined with various dating techniques in estimating slip rates.

Chapter Meetings

Inland Empire:

For the latest information and updates, please visit <http://www.aegsc.org/chapters/inlandempire/>

Central Coast:

Monthly meetings will take place on the last Wednesday of every month at Rusty's Pizza in Goleta. Social hour begins at 6 pm, the meeting begins at 7pm.

For the latest information and updates, please visit <http://www.aegsc.org/chapters/centralcoast/>

For more information or to be added to the CA Central Coast Chapter email list, please contact Robert Urban via email at robert_urban@urscorp.com.

San Diego:

For the latest information and updates, please visit <http://www.aegsc.org/chapters/extremesocal/>

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
Newsletter (includes SoCal website posting)**

	<u>Month</u>	<u>Year</u>
▪ Business Card	\$10	\$100
▪ ¼ Page	\$20	\$200
▪ ⅓ Page	\$30	\$300
▪ ½ Page	\$35	\$350
▪ Full Page	\$50	\$500

SoCal website posting only

\$20/month

* The deadline for submitting an advertisement for next month's newsletter is Friday, October 31st.

YEAR 2008 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, Peter Thams.

2009 MEMBERSHIP RENEWAL

For those of you who have not yet renewed (**the deadline is 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.

*****NOTICE: Proposed New AEG Publication*****

**WHO'S WHO in SO CALIFORNIA ENGINEERING GEOLOGY
The Evolution of Engineering Geology in Southern California**

Have you ever wondered "Whatever happened to___?" or "I've heard of ___ , who is he?"

The undersigned have decided to try to prepare an internet publication with the above title, which will include biographies of engineering geologists in southern California. We would like you to share your biography (autobiography) with other EGs. If you have worked on an interesting project, others would like to know about it.

If we limit each autobiography to 3 pages of text, plus photos, this publication would be more than 1,000 pages long. Therefore, we plan to utilize a proposed new AEG Foundation internet website, where there is no limit to total pages, and we can use color photos. Also, this new website will be available for no-charge access, worldwide, thus spreading the word on the history and evolution of engineering geology, and southern California's immense contribution.

We suggest (not require) three criteria for inclusion: 1. That you are a CA licensed CEG; 2. That you are now or once were a member of AEG; 3. That you have enough years of professional experience to relate one or more significant projects you have worked on. We believe there are more than 250 such EGs in southern California. This will be an evolving internet site where new autobiographies can be added.

We will also include Memorial biographies of past notable geologists in southern California. So far, we have identified 30, including John Buwalda, Ian Campbell, Tom Dibblee, Rollin Eckis, Perry Ehlig, Richard Jahns, John Mann, F.L. Ransome, Charles Richter, Dottie & Marty Stout, Gene Waggoner. Biographies of 14 of these notable geologists were published for the recent AEG Annual Meeting, in "History of the Association's First 50 Years," available from AEG HQ, contact Julie Keaton or Becky Roland.

Here is a CHECKLIST FOR YOUR AUTOBIOGRAPHY:

Complete NAME, address, phone, email; BIRTH DATE and place; UNIVERSITY(s) attended, major(s), degree(s), year(s); MILITARY service; FIRMS/AGENCIES you worked for; up to 3 significant PROJECTS you worked on; possibly relate a serious or humorous INCIDENT; a MENTOR you may wish to acknowledge; professional SOCIETIES, HONORS, AWARDS; HOBBIES; up to 5 PUBLICATIONS; PHOTOS of yourself and of projects (scanned images preferred).

So, if you wish to be included in this new internet publication, prepare your autobiography and email it with photos to: allen@hatheway.net and in the Subject box, type: So. Cal. Geologist. Or mail it to Allen Hatheway, 10256 Stoltz Dr., Rolla, MO 65401. Please, no more than 3 pages of text, single-spaced, Times New Roman, 12 pt.

Please pass this notice on to those you may know who no longer get this Newsletter.

In the spirit of camaraderie, we thank you,

Richard Proctor
Allen Hatheway
David Rogers
Larry Cann
Bob Lynn

EMPLOYMENT OPPORTUNITIES & ADVERTISING



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LGC Valley, Inc.

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Email: kesmond@lgcgeo.com

Website: www.lgcgeo.com

Please look to our website for the latest opportunities. All inquiries will be held in the utmost confidence. We look forward to hearing from you.

STAFF/SENIOR ENGINEERING GEOLOGIST/ENGINEER and PROJECT/PRINCIPAL GEOTECHNICAL ENGINEER

Cotton, Shires & Associates, Inc.

Cotton, Shires & Associates, Inc. (CSA) is a geotechnical consulting firm specializing in slope instability problems. We have several ongoing investigations and construction projects located from Los Angeles County through Santa Barbara County. We are seeking select professional staff to help serve these projects that would work in southern California, initially consulting with staff members from our main office located in Los Gatos, California. CSA is presently recruiting candidates for Staff and Senior Geologist/Engineer positions, and a Project/Principal Geotechnical Engineer position for work in southern California. The requirements for the Staff Geologist/Engineer position include a Bachelors or Masters degree in geology/engineering with excellent communication and technical skills. Senior Geologist candidates should have an MS in geology, minimum 5 years geologic consulting experience and be registered as a C.E.G. Strong field mapping, logging and writing skills are required. The Project/Principal Geotechnical Engineer should have G.E. registration and an extensive background with current analysis methods and mitigation design measures to address geotechnical hazards and constraints. The candidate should also desire to practice with state-of-the-art geotechnical analysis methods to address slope instability problems.

CSA offers a competitive salary and benefits package including medical, dental, vision, profit sharing, 401K and bonus programs.

Please visit our website www.cottonshires.com and e-mail your resume to Ted Sayre: tsayre@cottonshires.com

**CITY OF LOS ANGELES
Employment Opportunity**

ENGINEERING GEOLOGY ASSOCIATE

ANNUAL SALARY

\$63,329 to \$78,697; \$70,804 to \$87,988; \$78,863 to \$97,990; and \$85,712 to \$106,488

The salary in the Department of Water and Power is \$67,484 to \$83,833; \$80,241 to \$99,681; \$87,027 to \$108,095; and \$93,500 to \$116,176.

DUTIES

An Engineering Geologist Associate performs professional engineering geological investigations and studies in connection with the design and construction of tracts, dams, reservoirs, tank sites, buildings, streets and highways, tunnels, electric power generating plants, transmission towers, distributing stations and other structures; makes precise geological maps; classifies rock and soil samples; and investigates water-bearing strata and geothermal prospects, geologic hazards, and technical aspects of legal questions.

REQUIREMENT

Graduation from a recognized four-year college or university with a degree in geology or engineering geology.

WHERE TO APPLY

Applications WILL ONLY BE ACCEPTED ON-LINE at https://personline.lacity.org/job_app/. For a complete position description, please visit http://personline.lacity.org/job_list/alljobs.htm

JOIN NINYO & MOORE

Company Profile

Since 1986, clients have turned to Ninyo & Moore for complex geotechnical and environmental challenges. As a leading geotechnical and environmental sciences engineering and consulting firm, Ninyo & Moore provides specialized services including evaluations for airports, bridges, commercial developments, dams, educational facilities, harbor and offshore structures, highways and roadways, hospitals, industrial developments, landfills, light rail transit lines, pipelines, power stations, railroads, residential developments, reservoirs and tanks, transmission lines, tunnels, water and wastewater treatment plants to clients in both the public and private sectors. With offices in Colorado, California, Nevada, Arizona, and Texas, the firm is fully committed to being responsive, cost-efficient, and thorough in meeting its clients' project needs and objectives.



Available Positions:

- ✓ **CENTENNIAL:** Chief Geotechnical Engineer, Construction Field Technicians and Inspectors, Environmental Engineer/Scientist-Air Quality Specialist, Field Technician-Materials Testing, and Project Engineer/Geologist.
- ✓ **IRVINE:** Asbestos & Lead Professional, Environmental Engineer/Scientist-Air Quality Specialist, Environmental Project Manager, Project Engineer, Senior Environmental Engineer, Senior Staff Engineer/Geologist, Senior Staff Environmental Scientist, Staff Engineer/Geologist, and Staff Environmental Scientist.
- ✓ **LAS VEGAS:** Asbestos & Lead Professional, Construction Field Technicians & Inspectors, and Geotechnical Engineer.
- ✓ **OAKLAND:** Field Special Inspectors, Project Environmental Geologist, Scientist or Engineer, Project Geotechnical Engineer, Senior Environmental Engineer and Senior Geotechnical Engineer.
- ✓ **PHOENIX:** Construction Field & Laboratory Technician, Geotechnical Engineer/Engineering Geologist, Project Environmental Scientist, Project Manager-Construction Materials Testing, Senior Environmental Professionals, Senior Staff Environmental Scientist, and Technical Assistant.
- ✓ **SAN DIEGO:** Administrative Assistant, Construction Field & Laboratory Technicians, Project Engineer/Geologist, Senior Geotechnical Engineer, and Staff Engineer.



Successful candidates should have a BS or MS degree for staff-level positions and five years or more of experience for project to senior-level positions. The candidates should be detailed oriented and have excellent verbal and written communication skills. Professional Engineer (PE) and/or Professional Geologist (PG) registrations are preferred for project or senior positions.

Ninyo & Moore offers excellent benefits and great opportunities for professional growth. Please visit our website for complete and detailed job descriptions and to submit your resume in confidence at www.ninyoandmoore.com/careers.html or mail to our corporate office at 5710 Ruffin Road, San Diego, CA 92123, Attention: Human Resources. EOE

www.ninyoandmoore.com

Ninyo & Moore is an equal opportunity employer.

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