

ASSOCIATION OF ENGINEERING GEOLOGISTS

SOUTHERN CALIFORNIA SECTION

"Serving Professionals in Engineering, Environmental and Ground-Water Geology Since 1957"

September 1994

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The Newsletter Editor accepts news items, items of general interest, articles of any length, commentary, suggestions, complaints, etc. and will publish them (subject to space limitations) in the newsletter following their receipt. Longer works are preferred on a 3.5 or 5.25 inch floppy disk, formatted by nearly any DOS or Windows word processor, or ASCII text — I use WordPerfect 6.0 and can convert from most other formats. Disks will be returned if requested.
Deadline for submittal to the October newsletter: September 21

THIS MONTH'S MEETING

Joint meeting with the South Coast Geological Society (SCGS)
Monday, September 12, 1994

BLIND THRUST FAULTS AND EARTHQUAKE HAZARDS AROUND THE CENTRAL LOS ANGELES BASIN

presented by

DR. JOHN H. SHAW

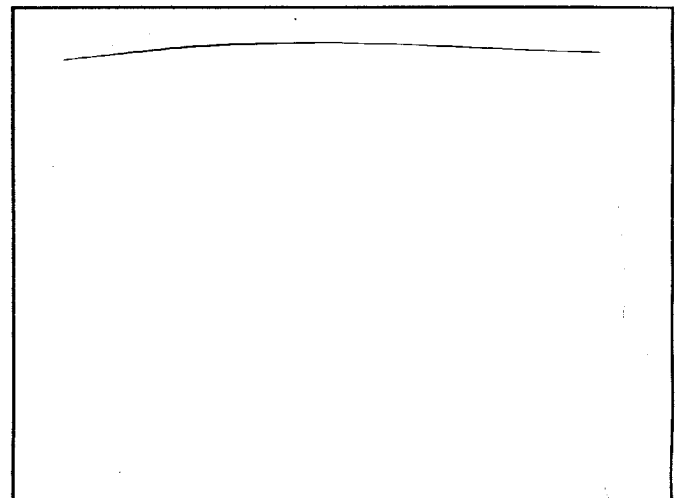
Reservations must be made by noon, Friday, September 9, 1994
by calling Leighton & Associates at (714) 250-1421
Please call to cancel if you can't attend, or SCGS will be billed!

Cost: \$20.00

Map to Meeting

Revere House
901 First Street
Tustin, CA

6:00 *Social Hour*
7:00 *Dinner*
8:00 *Program*



SEPTEMBER PROGRAM

Blind-Thrust Faults and Earthquake Hazards Around the Central Los Angeles Basin

John H. Shaw

Texaco Exploration and Production Technology Department
3901 Briarpark, Houston, Texas 77042

Several recent earthquakes in California, including the M 6.0 Whittier Narrows (1987) and M 6.7 Northridge (1994) events, demonstrate the potential of dangerous earthquakes on blind-thrust faults around the greater Los Angeles area. *Blind-thrusts* are dip-slip faults that do not cut the earth's surface. Nevertheless, they have near-surface expressions in the form of overlying fold trends that grow during large earthquakes and, in areas of deposition, stratigraphically record rates of folding and fault slip. In the past decade, the development and testing of quantitative relationships between folding and faulting and analyses of recent blind fault earthquakes enable us to assess better the hazards of blind-thrust faults. Quantitative kinematic and geometric modeling of fault-bend folds allows us to examine near-surface folds imaged in seismic reflection profiles, which are analogous to sonograms of the earth's crust, and infer the location, geometry, and slip rate of underlying blind-thrust faults. As a result, we have recognized and documented several active blind-thrust faults around the central Los Angeles basin, including the massive *Compton-Elysian Park blind-thrust system*. The Compton-Elysian Park system extends from



beneath downtown Los Angeles southwest toward Palos Verdes and southeast to the Santa Ana River. Based on the size and shape of the fault system, we predict that it is capable of generating several moderate-sized earthquakes similar to Northridge (M 6.7) or, alternatively, a single, much larger event exceeding M 7.3. We estimate individual repeat times for these moderate and large events ranging from 150 to 2,000 years.

John H. Shaw received a Ph.D. in structural geology and applied geophysics from Princeton University, where his research focused on the neotectonics of blind-thrust faulting in California. Dr. Shaw investigates active blind thrusts and their earthquake potential through the development and application of theories that relate these deeply buried faults to overlying fold trends that are imaged in the shallow subsurface. John is presently at Texaco's Exploration and Production Technology Department in Houston, Texas, and has recently published several articles on blind-thrust faulting and earthquake potential in coastal southern California, including the Santa Barbara and Los Angeles areas. ϕ

CHAIRMAN'S COLUMN

At our
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by bulk

mailing (next newsletter ?) so a larger newsletter will not cost significantly more. We would appreciate any contributions to the newsletter concerning news of members activities, legislative and regulatory activities, job offers, letters to the editor, etc., so send in your material.

Secondly, we need to increase our activities with regard to education, communication, and legislation. We need to educate our clients, politicians, bureaucrats, and school children about our profession and what we

can do for them and society in general. If we really believe that we practice to "protect the health, safety, and welfare of the public" we should be able to demonstrate this and improve our public image. Think about what you personally can do to help out. We also need to continually educate ourselves through short courses, so let us know what courses you would like to take or volunteer to teach one.

We need to establish better communication among the many local geological societies in California. As geologists we have tended to be too fragmented and individualistic with our efforts when we could accomplish more as a group. While we all have many differences of opinion, I believe that we have more in common than most people believe. We need to determine our common goals and work together on achieving those goals, while setting aside the differences for friendly discussion over a beer. In an effort to promote more communication among the societies this newsletter is now sent to the leader of each group with the hope that they will reciprocate. This way we will at least know what the other societies are doing and can pass along the information to our respective members.

Many geologists have expressed their opinion that they became scientists so that they would never have to deal with politics. I hope to change your minds. Our registration board is under attack and threatened with sunseting, other professionals are intruding into our turf, notably the Registered Environmental Assessors, and our state legislators barely know that we exist and some see no down side in ignoring us. We can change this by becoming involved and the most effective way is at the grass roots level by writing letters and making phone calls. A list of our representatives is presented in this newsletter. We will update the list in January. We want each member to write letters to their legislators and vote at each state and national election.

I would also like to develop a rapid response group that could contact their legislators within a short time after being notified. To have meaningful input in Sacramento at the committee level we must often react in a couple of days or a week. If each member of the response group would call three other members, and if each would write to five legislators we can be effective. If you are interested, and I hope all of you see the necessity, please contact me or Hugh Robertson.

Certification of Hydrogeologists in California is now a reality. However, you will have to pass a test before you can use the title. Since this specialty certification was created by regulation through our Board and not by the legislation process with a bill, there will be no grandfathering. The first test is planned for next March. Members should be aware that they are no longer allowed to call themselves hydrogeologists (at least in California), advertize themselves as such, or offer those services until they become certified. If you have questions on this matter, call the Board at (916) 445-1920.

Our Board of Registration is coming closer to having cite and fine disciplinary authority. The presently proposed wording of the regulation is included later in this newsletter. Since the comment period for the proposed changes ended August 31, we have not included what those changes were due to space limitations. Once this regulation has passed please note that you may be fined \$500 to \$2500 for calling yourself a hydrogeologist without the certification, so be forewarned.

SB 2036 has passed the legislature and is awaiting signature by the governor. This bill would require our Board to justify its existence or be sunsetted. This means our Board will be busy with the legislators, and not on matters that are more useful to us and the public, namely registration tests and enforcement activities. A related bill, SB 2038, was amended so that the Geology Board will not be combined with the Engineer's Board, as was originally proposed in the bill.

The current version of SCR 45 is presented later in this newsletter. It was passed by the legislature on August 29 and is now effective. This resolution is a proactive measure to require the State Personnel Board (SPB) to report on why they do not require registration and certification for those employed as engineering geologists with State agencies. The SPB has 180 days to respond with a report. According to Phil Chandler (1994 AEG Annual Meeting abstracts, pg. 42) one state agency has "concluded an agreement with the SPB to create a new class series--Hazardous Substance Engineering Geologist--which still does not include any registration requirement...". This may be an attempt to bypass SCR 45. We'll have to wait and see.

AB 2780, the Home Inspection Bill, was passed by the Assembly, but defeated in the Senate. This bill would have required certifi-

cation for home inspectors. The civil engineering community had opposed this bill.

Our Section lost 1% of our membership last year. We need to grow. I would like each of you to recruit one new member. Better yet, make it two. The next time you are talking to a colleague try selling our organization. Tell them why you joined and point out the benefits of membership. If you are hiring a geologist why not hire those that have demonstrated sufficient interest in their profession by becoming AEG members? You can call headquarters or our membership chairperson, Deems Padgett, and get applications, then hand them out. Do it.

The Dr. Martin Stout/ AEG-SCS Scholarship has grown to \$12,425. Recent contributors include Monte and Diane Murbach, Eldon Gath, and Robertson Geotechnical. We will accept contributions anytime so please consider making a donation. The scholarship will be announced in the Spring AEG News and awarded next summer.

For your information the Insurance Institute for Property Loss Reduction's UPDATE newsletter (v. 3, #2, 1994) indicates that the insurance industry has a new system for "measuring the value of an individual community's building code enforcement efforts." It is called the Building Code Effectiveness Grading Schedule (BCEGS). Each community will be given a grade from 1 to 10 on the effectiveness of enforcement so that the insurance companies will have a tool for setting rates. Hopefully, this will provide the impetus for quality control that is needed in so many building and safety departments.

There will be no October section meeting due to the Annual Meeting in Williamsburg, Virginia. I hope to see many of you at the annual meeting, but I realize it is a long distance away. However, next year's meeting is in Sacramento and the Sacramento Section is looking for volunteers. If you would like to help, please call James Parsons at (916) 424-4950.

And lastly, our Section needs volunteers. The two major vacancies are the Field Trip and Short Course Committees. If these committees look like a lot of work, they are, but the work is rewarding. If you do not think you can do the job because of inexperience you are wrong. These are the committees that many of our present and former officers starting in on their way to the top, at least of our Section. The work is a lot of fun, try it. If you are interested, please call me or another officer.

Our November meeting will be at the

Airtel Hotel in Van Nuys so I hope to see you there. ϕ

LETTERS

The purpose of this column is to provide a forum for AEG Members (and other concerned citizens). Use this column to share your opinions on any topic - as long as it is in some way related to our work. Letters may contain commentary, suggestions, appreciation, complaints, reviewing agencies (I'm fair game too!), Government policy, etcetera, etcetera.

You know the old saying: if you have five geologists in a trench you'll get ten different opinions (well, maybe 15). Let's hear 'em! (names will be withheld if requested).

I would particularly like to see letters from professionals outside of the greater LA area. This isn't the center of the world (although some might have you believe that it is), so lets hear what's happening in your area.

Send letters to Charles Nestle, AEG Newsletter Editor, 6224 West 82nd Street, Los Angeles, CA 90045-2901, or via e-mail at ctnestle@aol.com. ϕ

NEWS

Since July 1, 1991, the Los Angeles County Department of Public Works, Materials Engineering Division, has charged fees for the review of private consultant's reports. Fees are collected for the review of



all geotechnical reports, including reports for tentative subdivisions, building plans, in-grading, rough or final grading, and addendum reports. The report review fees are in addition to those collected for the review of maps and plans, such as those collected by the Department of Regional Planning for

subdivision maps or by the Building and Safety/Land Development Division of the Department of Public Works for grading and building plan checks. The current geotechnical review fees for reports and building plans are as follows:

Engineering Geology Report:\$271.60
SoilsReport:\$271.60
Geotechnical Report (Combined
Geology & Soils Report):\$380.20
Minor Addenda &
In-GradingReports:.....\$141.00
Geology Review of Building
Plan/Site:.....\$271.60
Fees for geotechnical review of grading
plans are based on yardage. These fees are
charged at the time of submittal to the re-
viewing agency.

Review time delays can be avoided if the fees are paid at the time of submittal. ϕ

FROM THE EDITOR

Transferring the job of newsletter editor to myself did not occur without its complications. Not the least of the difficulties was that the previous Macintosh-generated newsletter was not compatible with my PC which necessitated starting from scratch, and ultimately resulted in a complete redesign of the newsletter format.

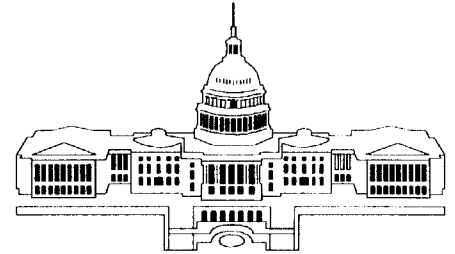
Two of the most serious problems I have had involve the membership mailing list and the currently paid for advertisements.

Previously, the membership mailing list was maintained by the Section Secretary who would send the presumably updated mailing labels to the newsletter editor each month. Despite the efforts of the Secretary, several newsletters are "returned to sender" each month, unable to be delivered. It is absolutely critical for the members to notify the National AEG, the local section Secretary, AND the newsletter editor of a change of address if you wish to receive the newsletter. The mailing list that I have used is based largely on the 1994 Membership Directory Published in the AEG Bulletin, with some corrections provided by Dave Ebersold, and others provided to me directly by individual members. If you should have received a newsletter and did not, I offer my apologies, and hope you will call or write to me and let me know.

To the businesses that were expecting to see their ad in this newsletter and discover that none are to be found, I also offer my

apologies, and will extend the contract one additional issue. I will be contacting you within the next couple of weeks to discuss your ad which will appear in the next issue. Or, if you like, you may contact me at your convenience.

Lastly, the delivery of this newsletter was unfortunately delayed through no one's fault but my own. The next, and all future newsletters, will arrive on, or about, the first of the month. Please note the submittal deadline on the front page of this newsletter; it is a firm date. ϕ



POLITICAL SCENE

On April 7, 1994, Senator Rogers introduced Senate Concurrent Resolution No. 45—Relative to engineering geologists. It was on June 29 and again on August 8, 1994. The text of SCR 45 follows, minus the lined-out text. If you would like a copy of the complete text, including that lined-out, write or call the newsletter editor and a copy will be provided.

LEGISLATIVE COUNSEL'S DIGEST

SCR 45, as amended. Rogers. Engineering geologists. This measure would request the State Personnel Board and the Department of Personnel Administration to review the civil service classification for an engineering geologist and ensure that the position is used in compliance with the Geologist and Geophysicist Act, and to report to the Legislature within 180 days of the Adoption of this measure.

Fiscal committee: yes.

WHEREAS, It is the intent of the Legislature to safeguard the life, health, property, public welfare, and the environment of the citizens of the state; and

WHEREAS, To that end the state employs in numerous agencies engineering geologists as defined in the Geologist and Geophysicist Act (Chapter 12.5 (commencing with Section 7800) of Division 3 of the

withdrawn and a new citation issued. If a hearing is requested for the subsequent citation, it shall be requested in writing within 30 days of issuance of the subsequent citation in accordance with subsection (b)(4) of Section 125.9 of the Business and Professions Code.

(e) If, within 30 days of the date of issuance of the citation, the person cited has failed to file a written request to appeal the Executive Officer, the Citation shall be deemed a final order.

3062.3 Failure to Comply with Order

(a) The failure of an unregistered/unlicensed person acting as a geologist, geophysicist, or certified specialist to comply with a citation and/or pay a fine after it is a ground for denial of registration and/or license.

(b) Notwithstanding any other provisions of the law, the Executive Officer may waive all or part of the administrative fine if the cited person satisfactorily completes all the requirements for, and is issued, a registration and/or license. Any outstanding injury to the public shall be settled to the satisfaction of a majority of the Board members prior to issuance of the registration or license.

3062.4 Disconnection of Telephone Service

(a) If, upon investigation, the Executive Officer has probable cause to believe that an unlicensed individual acting in the capacity of a geologist, geophysicist or certified specialist, who is not otherwise exempted from the provisions of the Geologist and Geophysicist Act, has violated any provisions of the Geologist and Geophysicist Act and is advertising in an alphabetical or classified directory, without being properly registered, licensed or certified, the Executive Officer may issue a citation under Section 3062 containing an order of which requires the cited person to both cease the unlawful advertising and notify the telephone company furnishing services to the cited person to disconnect the telephone services furnished to any telephone number contained in the unlawful advertising, and that subsequent calls to that number shall not be referred by the telephone company to any new telephone number obtained by that person. The cited person shall provide written evidence of compliance to the Executive Officer.

(b) If the person to whom a citation is issued under subdivision (a) submits a written request to the Executive Officer for a hearing to appeal the citation, the Executive Officer may afford an opportunity for a

hearing, as specified in Section 3062.2.

(c) If the person to whom a citation and order of abatement is issued under subdivision (a) fails to comply with the order of abatement after the order is final as provided in Section 3062.2, the Executive Officer shall inform the Public Utilities Commission of the violation in accordance with Business and Professions Code section 149.

3063 Citations of Registered/Licensed Persons

(a) The Executive Officer is authorized to issue citations containing orders of abatement and/or administrative fines pursuant to Business and Professions Code section 125.9

(b) If the Executive Officer has reasonable cause to believe that a geologist, geophysicist or certified specialist has committed any act or omission where the licensee is in violation of the Geologist and Geophysicist Act, the Executive Officer may, in lieu of filing an accusation, issue a citation to the registrant or licensee.

(c) Each citation for violation shall be in writing and shall describe with particularity the basis of the citation, including specific reference to the provision of law determined to have been violated.

(d) Each citation may contain: (1) an order of abatement, which may include the fixing of a reasonable time for abatement of the violation; and/or (2) an assessment of an administrative fine in an amount not more than two thousand five hundred dollars (\$2,500).

(e) Service of a citation issued under this section shall be made by certified mail to the registrant's address of record and shall include information regarding appeal rights and copies of the applicable code sections violated.

3063.1 Assessment of Administrative Fines

(a) Before assessing an administrative fine under section 3063, the Executive Officer shall give due consideration to the gravity of the violation, the good faith of the cited person, and the history of previous violations.

(b) In no event shall the administrative fine be assessed in an amount greater than two thousand five hundred dollars (\$2,500) for each inspection or each investigation made with respect to the violation.

(c) In determining the amount of an administrative fine against a cited individual, the Executive Officer shall be bound by the following prescribed amounts [for each

violation cited]: [editor's note: as with Section 3062, the fine prescribed for each violation is cited as a range from \$500 - \$2,500] Use of Expired, Suspended, or Revoked License; Practice or Attempts to Practice Civil Engineering; Geologist Who Practices or Attempts to Practice Geophysics for Others; Committed Deceit, Misrepresentation, Violation of Contract, Fraud, Negligence, Incompetence in Practice; Aiding and/or Abetting in the violation of Any Provision of the Geologist and Geophysicist Act; Presents or Attempts to File as His/Her Own the Certificate of Another; Impersonates or Uses the Seal of Any Other Practitioner; Uses Expired or Revoked Certificate of Registration; and Violation of Any Provision of the Geologist and Geophysicist Act.

3063.3 Appeal of Citations

(a) Any geologist, geophysicist or certified specialist served with a citation pursuant to Section 3063, may submit a written request for appeal to the Executive Officer within 30 days of the date of issuance of the citation. The cited person, also, may submit a written request within 30 days of the date of issuance of the citation for an informal conference with the Executive Officer with respect to violations alleged, abatement periods, amount of fines, and the reasonableness of the action required to abate the violation.

(b) The Executive Officer shall, within 30 days from receipt of the request, hold an informal conference with the person cited and/or his or her legal counsel or authorized representative. The 30 day period may be extended by the Executive Officer for good cause. At the conclusion of the informal conference, the Executive Officer may affirm, modify, or dismiss the citation, including any administrative fine levied or order of abatement issued. The Executive Officer shall state in writing the reasons for his or her action and serve a copy of the findings and decision to the cited person within 30 days from the date of the informal conference. Service may be made by certified mail at the last known business address or residence address of the person cited. The decision shall be deemed to be a final order of the Executive Officer.

(c) If the geologist, geophysicist or certified specialist cited submits a written request for a hearing to appeal the citation within 30 days of the citation's issuance, the cited person shall be afforded an opportunity for a hearing, as provided for in subsection

(b)(4) of section 125.9 of the Business and Professions Code.

(d) The cited person does not waive his or her right to request a hearing to appeal the citation by requesting an informal conference, after which conference the citation is affirmed by the Executive Officer. If the citation is dismissed after the informal conference, the request for a hearing on the matter of the citation shall be deemed to be withdrawn. If the citation is modified, the citation originally issued shall be considered withdrawn and a new citation issued. If a hearing is requested for the subsequent citation, it shall be requested in writing within 30 days of issuance of the subsequent citation in accordance with subsection (b)(4) of Section 125.9 of the Business and Professions Code.

(e) If, within 30 days of the date of issuance of the citation, the geologist, geophysicist or certified specialist cited has failed to file a written request to appeal the citation with the Executive Officer, the citation shall be deemed a final order.

3063.4 Failure to Comply with Citations

(a) The failure of a geologist, geophysicist or certified specialist to comply with a citation and/or pay a fine after it is final is grounds for suspension or revocation of a registration and/or license.

(b) If a geologist, geophysicist or certified specialist does not appeal a citation and fails to pay all of the fine, the balance due for the fine shall be added to the renewal fee for the registration and/or license and the registration and/or license shall not be renewed until the fine is paid in full pursuant to subsection (b)(5) of Section 125.9 of the Business and Professions Code.

Questions should be directed to the State Board of Registration for Geologists and Geophysicists at (916) 445-1920. ϕ

The following is a list of addresses and phone numbers at which you can contact the president, vice president, governor, representatives in congress, and state legislators. This is only a partial list and will be augmented and updated after the November elections (data source: Daily News). The newsletter editor greatly appreciates the generosity of Christopher Sexton for allowing his computer to tie up the local phone lines while depositing the complete roster of the California State Senate and Assembly into

my computer.

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(202) 456-1111 (comment line)

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Anthony Ballenson, D-24th District

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(202) 225-5911

Howard McKeon, R-25th District

307 Cannon Office Building
Washington, D.C. 20515
(202) 225-1956

Howard Berman, D-26th District

137 Cannon House Office Building
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(202) 225-4695

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(202) 225-3976

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Vacant, 2nd District

Milton Marks, D-3rd District

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Mike Thompson, D-4th District

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Leroy Greene, D-6th District

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Henry Mello, D-15th District

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Vacant, 16th District

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Vacant, 32nd District

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CONTINUING EDUCATION

The following courses are being offered through UCLA Extension for Fall Quarter 1994. The quarter begins September 24. Enrollment registration is available in person at: Westwood/Extension Bldg., 10995 Le Conte Ave.; Design Center, 1338 3rd Street Promenade, Santa Monica; Universal Citywalk, 1000 Universal Center Drive, Universal Citywalk, #223; World Trade Center, 350 south Figueroa Street, Los Ange-

les. Registration is also available by phone at (310) 825-9971 or (818) 784-7006. (source: UCLA Extension Fall Catalogue)

Earthquakes

XL 8 Earth & Space Science 4 units \$260
Earthquake! The word evokes a sense of fear and concern to many who live in California, one of the more seismically active areas in the world. What actually causes earthquakes? Why are earthquakes limited to certain to certain geographic areas? Is it possible to predict or control earthquakes and how do we measure them? What are some events that precede an earthquake? These and many other questions are answered in this course. Special emphasis is placed on how we can protect ourselves from earthquake hazards in southern California and what geologists, seismologists, and structural engineers have learned through studying southern California earthquakes, such as the 1857 Fort Tejon, 1933 Long Beach, 1971 San Fernando, 1987 Whittier Narrows, 1992 Landers and Big Bear earthquakes, and the 1994 Northridge earthquake and its multiple aftershocks. *Students have the opportunity for a one-day carpool field trip to observe numerous geologic features along the San Andreas fault on a date to be arranged in class.*

Reg# G7115B

UCLA: 6704 Geology

Tuesday, 7-10pm

September 27 - December 13, 12 meetings
Katherine Barrows, PhD, lecturer, CSU Dominguez Hills

The Natural and Cultural History of the Santa Monica Mountains

X 413 Earth & Space Science 2 units
\$165/\$155/\$45

(Includes two field trips by bus from Westwood)

Explore the complex geology of this area as you view southern California's native wildlife, still surviving in an "island" protected from urban encroachment. This lecture and field course begins with a one-day symposium — in which experts discuss the geology and natural history of the Santa Monica Mountains as well as the early history of the Chumash Indians in the area — followed by two one-day trips by bus to explore the plants, animals, and complex geology of these beautiful mountains. Includes guest speakers.

Reg# G7117B \$165 (Credit)

Reg# G7118B \$155 (Noncredit)

Reg# G7119B \$45 (Lecture only)
UCLA: 3400 Boelter Hall
Saturday, 9am-5pm, October 15, 1 meeting
(plus 2 field trips: 10/16 & 10/22)
Coordinator: **Ruth Lebow**, MS, geologist
PROGRAM
Plants and Their Uses: **Laurel Woodley**,
MA, Professor of Biology, Los Angeles
Harbor College;
Geology of the Santa Monica Mountains:
Ruth Lebow, MS;
Birds and Mammal Behavior: **Patricia
Enkema**, MA, Emeritus Professor of Biol-
ogy, Los Angeles Pierce College.

Certificate Program in Site Investi- gation and Remediation — Required Courses

Principles of Site Investigation and Reme- diation

X 434.37 Engineering 4 units \$345
An overview of the knowledge needed by
decision makers who study, select, and
implement remediation methods at contam-
inated sites. Surveys all aspects of site in-
vestigation and remediation, including scope-
setting, testing methods, feasibility studies
and selection of alternatives, remediation
technologies, site monitoring, site closure,
permitting, working with agencies, health
risks, and communication. *Prerequisite: one
college-level chemistry course. Required
course in the Certificate Program in Site
Investigation and Remediation.*

Reg# E0402B

Los Angeles: 202 World Trade Center
Wednesday, 6:30-9:30pm,
September 28 - December 14, 12 meetings
Arshud Mahmood, PhD, Managing Princi-
pal-in-charge, Dames & Moore

Legal Framework for Site Investigation and Remediation

X 434.40 Engineering 4 units \$345
A complete review of major laws which
mandate and describe cleanup activity of
contaminated sites at the federal, state, and
local levels. Participants review the laws as
they are applied in sequence, from discovery
of contamination to mandated procedures for
site investigation, remedial planning, permit-
ting, cleanup, and site closure. Also covers
considerations of liability and variations in
procedures with different lead agencies.
*Required course in the Certificate Program
in Site Investigation and Remediation.*

Reg# E0403B
UCLA: 154 Dodd Hall
Wednesday, 6:30-9:30pm,
September 28 - December 14, 12 meetings
Deborah Cairo, JD, Principal, Ralph Stone
& Company, Inc.

Scientific Concepts in Environmental Management

X 434.3 Engineering 4 units \$345
*Prerequisite: One college-level chemistry
course. Required course in the Certificate
Program in Site Investigation and Remedia-
tion.*

Reg# E0395B

UCLA: 4413 Boelter Hall
Monday, 6:30-9:30pm,
September 26 - December 12, 12 meetings
Erlinda Macalintal, MA, Manager, Health
Hazardous Materials Division, Inspection
Section, Los Angeles County Fire Dept.

Environmental Aspects of Soils Engineer- ing and Geology

X 434.38 Engineering 4 units \$345
An introduction to geotechnical engineering
and geology in the context of site characteri-
zation and remedial design. Focuses on soil
composition, soil classification, indices, and
subsurface features that influence the fate
and transport of contaminants. Discussion
also includes a framework for site assess-
ment reports and remediation equipment
design criteria in the context of site struc-
ture. *Prerequisite: One college-level chem-
istry course. Required course in the Certifi-
cate Program in Site Investigation and Re-
mediation.*

Reg# E0407B

Los Angeles: 210 World Trade Center
Thursday, 6:30-9:30pm,
September 29 - December 15, 12 meetings
(no mtg. 11/24; 1 mtg. to be arranged)
Stephen Anderson, MS, Senior Project
Manager, Jaykim Engineers

Groundwater Monitoring, Protection, and Cleanup

X 434.28 Engineering 2 units \$345
*Prerequisite: One college-level chemistry
course. Required course in the Certificate
Program in Site Investigation and Remedia-
tion.*

Reg# E0398B

UCLA: 2178 Bunche Hall
Tuesday, 6:30-9:30pm,
September 27 - December 13, 12 meetings
Mel Blevins, MS, PE, ULARA, Water-
master, Department of Water and Power,

City of Los Angeles
George Skladany, MS, Manager, Technol-
ogy Applications, Envirogen, Inc., Princeton
Research Center

Project Management for Environmental Professionals

X 434.28 Engineering 2 units \$265
Covers the variety of skills and techniques
needed to perform effectively in the capacity
of an environmental project manager or
supervisor. Lectures emphasize the impor-
tance of project planning and execution and
the management of the project team, as well
as the prospective clients, governing agen-
cies, and consultants. Other topics include
management of time, information, and
liability; project pitfalls and how to avoid
them; and developing skills in negotiation
and team building. *Required course in the
Certificate Program in Site Investigation and
Remediation.*

Reg# E0404B

UCLA: 146 Haines Hall
Wednesday, 6:30-9:30pm,
September 28 - November 2, 6 meetings
Salar Niku, PhD, Director, Engineering
Services, Tetra Tech, Inc.

Risk Assessment

X 434.10 Engineering 4 units \$345
*Elective course in the Certificate Program in
Site Investigation and Remediation.*

Reg# E0396B

UCLA: 5273 Boelter Hall
Monday, 6:30-9:30pm,
September 26 - December 12, 12 meetings
Karim Damji, PhD, Environmental Toxicol-
ogist, Warzyn, Inc. ϕ

"The real engineer
despairs of a public
that mistakes
intricacy for
excellence."

E. Paul Dupont

JOB OPPORTUNITIES

Law/Crandall, Inc. has an immediate opening for an entry level staff Engineering Geologist for our LA Office (full or part time). Requires a degree in geology or geology student. Duties include field mapping, evaluating field data, map and cross section preparation. Please submit resumes in confidence to:

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MEETINGS, FIELD TRIPS, ETC.

OCTOBER

- 2-7 **AEG 37th Annual Meeting: *Engineering Geology: Past, Present and Future***, Williamsburg Hilton & Convention Center, Williamsburg, Virginia. Contact: David Sayre, Virginia Geotechnical Services, P.C., 8211 Hermitage Road, Richmond, VA 23228-3031, (804) 266-2199, Fax: (804) 261-5569.
- 3 **South Coast Geological Society Monthly Meeting: Dr. Tom Rockwell - *Landers Earthquake, Mojave Desert***. Revere House, 901 First Street, Tustin, CA. For reservations call Leighton and Associates at (714) 250-1421.
- 12-16 **AIPG Annual Meeting: *Geology Today: Science, Technology, and Regulatory Policy***, Flagstaff, AZ. Contact: Mark A. Shellhorn, % Basin & Range Hydrogeologists, Inc., 5080 N. 40th St., #105, Phoenix, AZ 85018, (602) 840-3333.
- 15-16 **South Coast Geological Society Publication and Field Trip - *The Mojave Desert Region, California***. The trip will highlight classic geologic and new geologic sites. The trip meets at the toe of the Black Hawk landslide. Additional stops include the Landers earthquake area, Pisgah Crater, and points in between. For information, call or fax Diane Murbach at (619) 275-1462.
- 24-27 **GSA Annual Meeting: Seattle Washington**. Washington State Convention and Trade Center, Seattle Sheraton Hotel. Contact: GSA Meetings Department at 1-800-472-1988.

NOVEMBER

- 7 **South Coast Geological Society Monthly Meeting: Doug Morton - *SCAMP (Southern California Aerial Mapping Project)*** Revere House, 901 First Street, Tustin, CA. For reservations call Leighton and Associates at (714) 250-1421.

DECEMBER

- 5 **South Coast Geological Society Monthly Meeting: Poster Session - *Christmas Meeting and Raffle!*** Please Call Alan Pace at (714) 458-7414 with your poster session title. Please bring donations to this meeting for the raffle! Revere House, 901 First Street, Tustin, CA. For reservations call Leighton and Associates at (714) 250-1421.

Help support your local section of AEG, and update your personal library at the same time, by purchasing these publications! Use the convenient order form below!

- Blake, T., and Larson, R. A., eds., 1991, **Engineering geology along the Simi-Santa Rosa fault system and adjacent areas, Simi Valley to Camarillo, Ventura County, California**: Association of Engineering Geologists, Southern California Section, Annual Field Trip Guidebook, August 24, 1991, v. 1 & 2., 383 p. 4 map sheets.
- Buckley, C. I., and Larson, R. A., eds., 1990, **Geology and engineering geology of the western Soledad Basin, Los Angeles County, California**: Association of Engineering Geologists, Southern California Section, Annual Field Trip Guidebook, November 3, 1990, 185 p., 2 map sheets.
- City of Los Angeles, 1982, **Geologic maps of the Santa Monica Mountains, Los Angeles, California**: compiled by the City of Los Angeles, Department of Public Works, Bureau of Engineering, reprinted by the Association of Engineering Geologists, Southern California Section, 342 p., 333 map sheets, 1" = 400'.
- Ehlig, P. L., and Steiner, E. A., eds., 1992a, **Engineering geology field trips: Orange County, Santa Monica Mountains and Malibu**: Association of Engineering Geologists, 35th Annual Meeting, October 2-9, 1992.
- Ehlig, P. L., and Steiner, E. A., eds., 1992b, **Map and cross section of Big Rock Mesa**.
- Leighton, F. B., 1992, **Mitigation of geotechnical litigation in California**: Munson Books, Huntington Beach, 274 p.
- Pipkin, B. W., and Proctor, R. J., eds., 1992, **Engineering geology practice in southern California**: Star Publishing, Belmont, California, 769 p.
- Sieh, K. E., and Matti, J. C., 1992, **Earthquake geology, San Andreas fault system, Palm Springs to Palmdale**, Association of Engineering Geologists, 35th Annual Meeting, Field Trip Guidebook, October 3-4, 1992, ??p.
- Scullin, M. C., 1983, **Excavation grading code administration, instruction, and enforcement**: Prentice-Hall, Englewood Cliffs, New Jersey, 405 p.
- Shlemon, R. J., 1993, **Applications of soil stratigraphy to engineering and environmental geology**: Association of Engineering Geologists, Southern California Section, Short Course Notes, June 5, 1993, 323 p.
- Shurman, G. and Slosson, J. E., 1992, **Forensic engineering: Environmental case histories for civil engineers and geologists**: Academic Press, San Diego, California, 296 p.
- Stirbys, A. F., 1992, **Los Angeles Metro Rail system**: Association of Engineering Geologists, Field Trip Guidebook, 35th Annual Meeting, October 2-9, 1992, 175 p., 59 photos (56 B&W, 3 color), 2 map sheets.
- Stout, M. L., 1976, **Geologic guide to the San Bernardino Mountains, southern California**: Association of Engineering Geologists, Southern California Section, Annual Field Trip, May 22, 1976, 115 p.
- Stout, M. L., 1992, ed., **Proceedings of the 35th annual meeting**, Association of Engineering Geologists, October 2-9, 1992: Association of Engineering Geologists, 740 p.

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GEOQUOTE OF THE MONTH

"My father's theory' ...was defined by a hasty press as being this - that God hid the fossils in the rocks in order to tempt geologists into infidelity."

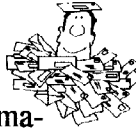
Sir Edmund Gosse [1849-1928]
Father and Son, 1907, ch. 5

' British naturalist Philip Henry Gosse [1810-1888], who opposed the uniformitarian geological theory of Sir Charles Lyell [1797-1875].

WRITE TO THE NEWSLETTER EDITOR

If you have a suggestion for "Geoquote of the Month", or if you have any news items, short articles (or long if space is available), commentary, suggestions, gripes, with your colleagues via the AEG Southern California the address below, or on the internet at floppy disk, formatted by any DOS or Windows-will be returned if requested. Please include your

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complaints, or whatever, and you would like to share them Section Newsletter, send it to the Newsletter Editor at ctnestle@aol.com. Longer works are preferred on based word processor (sorry, no MAC). Diskettes phone number in case I have a question.

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