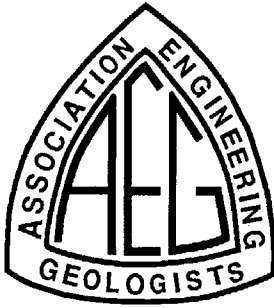


Association of Engineering Geologists

Southern California Section

NEWSLETTER - June 1989



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Dinner Meeting *Tuesday June 13 th*

- The Quiet Cannon Restaurant
901 North Via San Clemente
Montebello
- Cost - \$20.00
- For reservations call by June 9 th
Jerry Treiman
(213) 620-3560 (CDMG LA Office)

Make reservations by Noon on the Friday before the Meeting

- 5:30 Social Hour
- 6:45 Dinner
- 7:30 Announcements
- 8:00 Program
- 9:00 Section Affairs

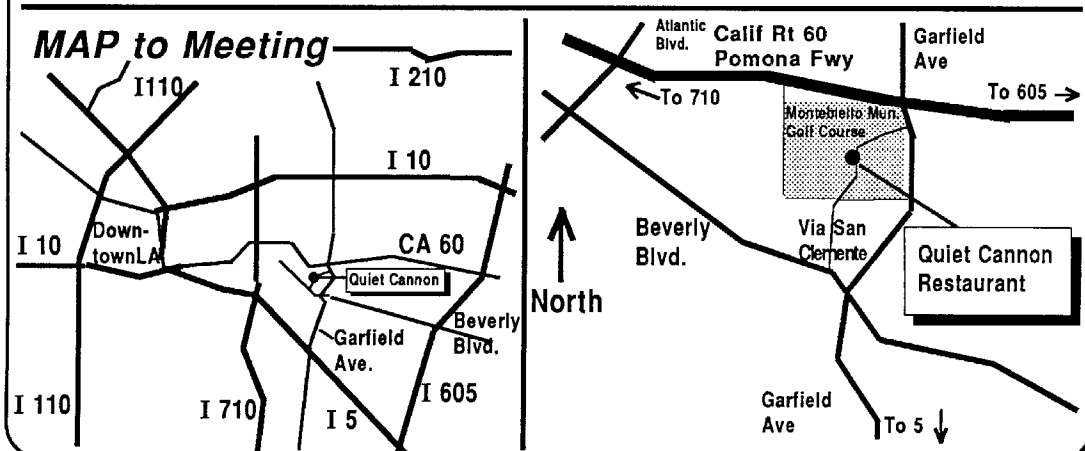
Program

TOPIC

Earthquake Rupture Processes

SPEAKER

Dr. Thomas H. Heaton, Chief Scientist
USGS Pasadena Field Office
at Cal Tech



Program

Topic & Speaker

Earthquake Rupture Processes

Dr. Thomas H. Heaton

Dr. Heaton will speak about the nature of slip and stress during earthquake rupture and what these observations mean for earthquake prediction. He will address the relationship between the spatial patterns of slip in microearthquakes and the patten of slip in large earthquakes. Dr. Heaton will also address Kerry Sieh's surprising conclusion that Pallett Creek experienced 6-meter off-sets in 1812 and 1857. The relationship of microseismicity in the Salton Sea area to the southern San Andreas will also be discussed, time permitting.

Dr. Thomas H. Heaton is presently a scientist in charge of the USGS Pasadena Field Office at Cal Tech. Dr. Heaton is also and associate faculty member at Cal Tech and a member of the Policy Advisory Board of the Southern California Earthquake Preparedness Project. Dr. Heaton received his Ph.D. in Geophysics from Cal Tech in 1978.

THIS MONTH

June 1989



Kelly E. Rowe
Hydrogeologist

It is disappointing to know that the number of people who have renewed their fees to the AEG Southern California Section has declined from 300 in 1988 to 200 in 1989. Perhaps the recent increase in fees from \$15 to \$20 per year discouraged renewal. On the other hand people may have been too busy or have forgotten to renew. I encourage anyone to renew fees or to begin participation in the AEG Southern California Section at any time... Simply send a check made out to "AEG" in the amount of \$20 to: Jerry Treiman, AEG SCS - Treasurer, c/o CDMG LA Office, 107 S. Broadway, Room 1065, Los Angeles, CA 90012. You can also send the check to me, at my address shown on the first page of this newsletter, and I will be certain to put you on the mailing list. Please be certain to indicate where you want the newsletter to be mailed. Any additional information, such as your office address, phone numbers, fax numbers, etc., are welcome for the database of AEG SCS members.

The \$5 increase in fees goes toward the extra cost of paying for a lobbyist in Sacramento to represent AEG's interest. Actually \$10 of the \$20 annual fees goes toward the cost of the lobbyist, Mr. William Keese. (Some of Mr. Keese's current activities are reported later in this column.) The annual cost for Mr. Keese's services is \$10,000. As voted upon at the local AEG - San Francisco, Sacramento and Southern California sections meetings held last year, the cost for these services is to be shared among the members. If the entire cost cannot be comprised from membership fees then contributions from corporations & consultants will have to be solicited. Because the number of renewals is below what was anticipated, it is likely that AEG sections in California will have to ask for additional contributions to make up the cost.

Feel free to call, write, or fax me about information which may be included in the newsletter. Information may be recent news articles, new books available related to engineering geology disciplines, field trip notices and ads for jobs.

There are presently many jobs available for engineering geologists in southern California and this is projected to be the situation for decades to come. Potential employers are encouraged to advertise in the newsletter for positions that may be filled by college students and part-time professionals. College students invariably need money to survive and education to succeed. By employing college students perhaps some may be turned toward becoming successful engineering geologists. In the long run we need to keep jobs filled by properly educated and trained people.

Last Call for suggestions on engineering geology sites to visit for local International Geologic Congress (IGC) Field Trips to be held here the first week of July. Joe Cobarrubias, John Hansen and Ed Steiner are all looking for field trip sites that have interesting points for foreigners. Short write-ups for the guidebook of as a hand-out at the site would be appreciated.

Joe Cobarrubias (213) 485-3435, (City of LA) is leading a portion of the T181 IGC field trip. His route will be through Pacific Palisades, Malibu, the Santa Monica Mountains and the central and northern parts of San Fernando Valley. The field trip will discuss gas incursion in the Fairfax area, landslides & faulting.

John Hansen and Ed Steiner (714)250-7115 (Leighton & Assoc.) are coordinating a one-day portion of the T181 IGC field trip for presenting "Engineering Geology in Orange County".

Call for Papers on Baja California Geology for Volume to be published by Pacific Section SEPM in conjunction with the Fall 1989 Field Trip. If you have some Baja California research results, please consider publishing them in the forthcoming volume on Geologic Research in Baja California. During this early planning stage there is a need to know how many people are interested in participating. Please send the working title of your manuscript to **Dr. Pat Abbott**, Department of Geological Sciences, San Diego State University, San Diego, CA 92182-0337, or call (619)594-5586 for further information. Rough drafts of manuscripts will be needed for review by mid-July. Edited manuscripts will be returned to authors for preparation as camera-ready copy on oversized format sheets in typical Pacific Section SEPM style. It is expected that many manuscripts will be submitted for a noteworthy volume on Baja California geology.

Publication Announcement - Water Quality Report published by the California State Water Resources Control Board...Statewide Report of Water Bodies Designated Municipal of Domestic (MUN) in the Water Quality Control Plans. Report No. 88-9WQ (121 pp.), Item No. 7540-979-1099-1.

The report is a compilation of information on the California water bodies with a municipal or domestic supply (MUN) beneficial use designation, as reported in the Water Quality Control plans (Basin Plans) prior to March 1989. The report was prepared in response to requests from the regulated community for information concerning sources of drinking water. The report provides information on sources of drinking water to the extent that it identifies existing of potential MUN-designated water bodies. It should not be considered to fully list all sources of drinking water in the State. Water bodies which have ground water recharge (GWR) beneficial use designations are also included to assist in identifying water bodies that may be hydraulically connected to MUN-designated water bodies.

The information on MUN- and GWR-designated water bodies is presented for each of the current 13 Basin Plans and includes short narratives, tables of surface and ground waters with MUN and GWR beneficial use designations, and surface and ground water maps, where available.

To order the report, titled above, send a check payable to "State of California" in the amount \$6.65 to: Dept of General Services, Publications Section, Ordering Department, P.O. Box 1051, Sacramento, CA 95660.

News from our Legislative Analyst (Lobbyist): **Mr. William Keese, AEG's Lobbyist in Sacramento, met on April 14 th with Jim Parsons and Steve Reynolds, Sacramento Section - Chairperson and Legislative Chairperson, respectively.** The meeting agenda was to discuss AEG legislative priorities and to review a number of bills before the California State Assembly and Senate. **The following is taken from the San Francisco Section May 1989 Newsletter, as reported by Joel Baldwin, SF Section - Chairperson.**

"...The number one priority for AEG is to rebut the renewed assertion that there is no need for registration of geologists. **Mr. Keese met with Assembly member Delaine Eastin, Chair of the Assembly Committee on Governmental Efficiency and Consumer Protection on April 17 th for this purpose.**

The discussion arose out of the Geology Board sponsored **AB 469 (Harvey)**, which raises maximum limits for geologists licensing fees. He told her that AEG supports the increase in the limits, because it will be necessary for the Board to increase license and renewal fees sometime in the next few years. As an aside, he feels that discussing registration of geologists by way of a sponsored bill, rather than a bill such as last year's one to abolish registration, is highly desirable because our sponsor can always drop the bill if unacceptable amendments are added.

The **Little-Hoover Commission** is moving forward on its study of all licensing bodies and commissions but will not be introducing legislation this year. **Mr. Keese** plans to informally contact them to attempt to educate them on the need for geologist registration.

As to particular legislation, in addition to **AB 469**, AEG will support **AB 874 (Farr)** on coastal resource planning. While this could be looked at as a motherhood type bill, it does give us a chance to communicate with the committee and let them know our existence in a non-threatening manner.

AEG will stay neutral on SB 423 (Stirling) on Geotechnical Engineers. This is a turf battle between Civil Engineers, and those Civil Engineers who are geotechnical. It is a battle in which AEG does not need to be involved.

AEG will watch AB 560 (Bradley) regarding Environmental Assessors and AB 1030 (Sher) on underground tanks. The increasing role of so-called environmental assessors (a very broad, loosely defined and minimally qualified), may not be good state policy and should perhaps be reviewed sometime in the future. Underground tankage is an important area of interest, and we will want to see how Assembly Member Sher's bill develops.

AB 1323 (Campbell) adds landscape architects to listing of professionals who are protected from being sued unless a similarly qualified individual certifies to the merit of suit. If you concur with registered Geologists and Geophysicists being added to this bill, we will seek that amendment. "

Seminars/Meetings/Field Trips

JUNE 1989

5-9 "Contaminant Hydrogeology: From Field Investigation to Remedial Design: A Strategy for Decision-Making", **Domenico, Freeze, Schwartz, & Smith** at The Quails Inn, Lake San Marcos Resort, San Diego, Western Experience Professional Meeting Coordinators. Carlsbad CONTACT (619)943-7694 or Allan Freeze (604)228-6462.

19-23 "Parameter Estimation in Groundwater Simulation", **Dr. Richard Cooley (USGS) and Mr. Steve Larson (S.S. Papadopoulos)** International Ground Water Modeling Center Short Course. CONTACT (317)283-9458.

Special International Events in the U.S. beginning this month

The 28th Session of the International Geological Congress (IGC) will be held in the United States of America July 9-19, 1989, in collaboration with, and under the sponsorship of, the International Union of Geological Sciences. The 28th IGC is co-hosted by the U.S. Geological Survey and the U.S. National Academy of Sciences

Continued next page

Continued from page 3

in cooperation with major U.S. earth sciences societies and industry organizations on behalf of the entire U.S. earth sciences community.

Mail to IGC (International Geological Congress)
P.O.Box 727
Tulsa, OK 74101-0727

If paying by check make payable only to: 28th IGC
Preregistration Deadline (at normal rate) February 1, 1989
Deadline for late preregistration May 1, 1989

All other inquires and general correspondence concerning the Congress should be addressed to:

Dr. Bruce B. Hanshaw
Secretary General, 28th International Geological Congress
P.O. Box 1001
Herndon, Virginia 22070-1001

The following field trips are listed for the convenience of AEG SCS members. They focus on trips that are located primarily in the southwestern United States. Contact the above address for field trips available in the other parts of the country you are interested in. Plan your vacation now to take advantage of this unique opportunity.

JUNE

28-7/7 Field Trip T181-Engineering geology of western U.S. urban centers. I.G.C. Program Leaders: Jeffrey Keaton (Earthstore) and Richard N. Morris (San Diego Soils Eng.) Cost: \$1,800 Starts in Los Angeles Stops in Denver.
29-7/7 Field Trip T110- Sedimentation and Tectonics in coastal southern California. I.G.C. Program Leaders: Patrick Abbott (SDSU), Martin H. Link (Mobil R & D Corp.) and Tor H. Nilsen (App. Earth Tech.) Cost: \$900 Starts in San Diego Stops in Los Angeles.

JULY 1989

1-7 Field Trip T105- Geology of San Francisco and vicinity. I.G.C. Program Leader: Clyde Wahrhaftig (USGS) Cost: \$1,100 Start-Stop in San Francisco.
1-7 Field Trip T111- Petroleum geology and structural transect across western Transverse Ranges and southern Coast Ranges, California. I.G.C. Program Leaders: Thomas Davis (Consultant) and Jay Namson (ARCO) Cost: \$925. Start - Stop in Los Angeles.
2-7 Field Trip T108- Tectonic evolution of northern California. I.G.C. Program Leaders: M.C. Blake, Jr., and D.S. Harwood (USGS) Cost: \$1,150 Start-Stop in San Francisco.
3-7 Field Trip T109- Mesozoic and Cenozoic siliceous sediments of California. I.G.C. Program Leader: Joyce R. Blueford and Caroline Isaacs (USGS) Cost: \$700 Starts in San Francisco Stops in Los Angeles.
3-7 Field Trip T113- Petroleum potential of the Basin and Range province. I.G.C. Program Leader: Norman H. Foster (Indep. geol) Cost: \$675 Start and Stop in Las Vegas.
5-7 Field Trip T186- Geology of Nevada Test Site and surrounding area. I.G.C. Program Leader: H. Lawrence McKague (LLN Lab), Paul Orkild (USGS) and Vel Clanton (DOE) Cost: \$500 Start and Stop in Las Vegas.
20-24 Field Trip T311- Oil in the California Monterey Formation. I.G.C. Program Leaders: R.J.B. Young and T.C. MacKinnon (Chevron) Cost: \$800 Start and Stop in Los Angeles.
20-26 Field Trip T312- Arc volcanism in the southern Cascade Range I.G.C. Program Leader: L.J. Patrick Muffler (USGS) Cost: \$775 Start and Stop in San Francisco
20-28 Field Trip T313- Quaternary volcanism of Long Valley caldera and Mono-Inyo Craters, eastern California I.G.C. Program Leaders: Roy A. Bailey, C. Dan Miller (USGS) and Kerry Sieh (Cal Tech) Cost: \$650 Start and Stop in Reno.
20-29 Field Trip T308- Geologic evolution of the northern most Coast Ranges and western Klamath Mountains, California. I.G.C. Program Leaders: K.R. Aalto (Humboldt SU) and G.D. Harper (SU of NY-Albany) Cost: \$750 Start and Stop at San Francisco Intern. Airport.
20-29 Field Trip T309- The San Andreas transform belt. I.G.C. Program Leaders: Arthur G. Sylvester and John C. Crowell (UCSB) Cost: \$1,400 Start in Long Beach Stops in San Francisco.
20-29 Field Trip T381- Landslides in central California. I.G.C. Program Leader: William M. Brown (USGS) Cost: \$1350 Start and Stop in San Francisco
7 & 8/11 Prof. Geology Exam Review Course: in Costa Mesa Converse Environmental Consultants offices, REG Review, Inc. Two - Five (5) hour classes & study manual. Cost: \$250 - Preregistration. CONTACT: (415) 339-3771 or (415) 852-9099
8 & 8/12 Prof. Geology Exam Review Course: in Pasadena - Brown & Caldwell offices, REG Review, Inc. as above. Coursebook also available.
9 & 8/13 Prof. Geology Exam Review Course: in Pasadena - Brown & Caldwell offices, REG Review, Inc. as above. Coursebook also available.

Positions Available

Advertisements for Student & Part-Time "Positions Available" are Welcome There is no charge for advertisement.

Career Opportunity For Environmental Geologists

Positions for senior to entry level environmental geologists are available at a leading hazardous waste consulting firm. Registration as a geologist or engineering geologist in California is preferred for senior positions. Experience with hydrogeology and hazardous waste is desirable. Positions involve challenging work and promotion potential with a rapidly growing firm. Salary is negotiable and commensurate with experience.

Call (714) 892-2565 or send resume to:

BCL Associates, Inc.
Attention: Personnel
5702 Bolsa Avenue
Huntington Beach, California 92649

Career Opportunities For Geologists...

Project Geologist/Hydrogeologist at Riverside office. Requirements are a B.S. degree and Registration as a Geologist in California with a minimum of 5 years of experience in the environmental services field. Responsibilities will include project management and supervision of the Environmental Services department.

Senior/Project Geologists at Riverside and Orange County offices. Requirements are a B.S. degree and Registration as a Geologist in California (CEG highly desirable) and a minimum of 4 years experience. Responsibilities will include project management and to provide geology support for both field and office.

Staff Geologists...at Riverside office. Requirements are a B.S. degree and prior experience in hazardous waste assessment to perform field investigations and to prepare proposals.

at Orange County and Valencia offices. Requirements are a B.S. degree to perform mapping, subsurface exploration and downhole logging. Salary is negotiable and commensurate with experience.

Call (714) 250-1421 or send resume to:

Leighton and Associates, Inc.
Attention: Human Resources
1151 Duryea
Irvine, California 92714

Career Opportunity For Senior Geologist

To Conduct and supervise geotechnical-type projects; some staff supervision. B.S./M.S., 5 to 8 years experience, C.E.G. registration. Good written skills required.

Call (714) 259-7992 or send resume to:

Harding Lawson Associates
Mr. Allen Yourman, Jr., P.E.
15621 Redhill Avenue, Suite 100
Tustin, California 92680

Career Opportunity For Geotechnical Engineer

Immediate opening is available for a geotechnical engineer. Requirements are California registration and 5 - 10 years experience in waste disposal facility design - hydrology experience a plus.

Call (818) 848-0214 or send resume to:

Law Environmental, Inc.
Attention: J. Johnson
3420 N. San Fernando Blvd.
Burbank, CA 91504

Career Opportunity For Senior Engineering Geologist

Immediate opening available for a highly versatile Senior Engineering Geologist. The successful candidate will plan and supervise comprehensive engineering geological studies and be the Senior Staff Consultant on complex multi-disciplinary projects. M.S. degree, 5+ years diverse professional experience, C.E.G., and excellent technical and communication skills are required. California experience should include work in several of the following: slope stability, hillside grading, fault/seismicity evaluation, EIR/EIS, geohydrology/water resources, distressed property excavations, site assessments, soil and groundwater contamination and remediation. Salary is negotiable and commensurate with experience.

Call (805) 644-5535 or send resume to:

McClelland Consultants
Attention: Michael R. Ploessel
2140 Eastman Avenue
Ventura, CA 93003

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Immediate opening available for a Principal Hydrogeologist. Duties will include development and management of water resources and groundwater contamination/remediation projects. The successful candidate will have a proven record of project development and management, M.S. degree, California registration as a geologist, 7+ years professional experience with excellent technical and communication skills. Position will be in southern or central California. Salary is negotiable and commensurate with experience.

Call (805) 644-5535 or send resume to:

McClelland Consultants
Attention: Michael R. Ploessel
2140 Eastman Avenue
Ventura, CA 93003

Career Opportunity For Engineering Geologist

Immediate openings are available for an engineering geologist in the Utah GMS - Applied Geology Program. Successful candidate will conduct engineering geologic studies, principally geologic hazards mapping and site investigations, throughout the state. Applicants with specialty and experience in ground water/hydrogeology are sought. Positions require at least a B.S. in geology, engineering geology, hydrogeology, or related field and two years experience, or an equivalent combination of education and experience. Salary for entry level begins at \$23,000/yr. Call Gary E. Christenson, Senior Geologist for Applied Geology at Utah GMS, for additional information. Submit resume including transcripts by June 30, 1989.

Call (801) 581-6831 or send resume to:

Utah Dept. of Natural Resources
Attn: Human Resources Management
1636 W. North Temple
Salt Lake City, Utah 84116

Career Opportunity For Engineering Geologist

Immediate opening are available for entry level engineering geologists to perform supervised field mapping/investigations, cross sections, report preparation and more. B.S. in Geology, excellent written/verbal skills required. Excellent benefits/salary package. High growth potential.

Call (714) 837-5001 or send resume to:

Nolte and Associates
Attention: Personnel
24741 Chrisanta Drive
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Career Opportunity For Senior Geotechnical Engineer

Immediate opening are available for a senior geotechnical engineer. B.S./M.S. in Civil/Geotechnical Engineering, 5 to 8 years experience, P.E. or C.E. license. To supervise geotechnical projects and staff. Good verbal/marketing skills a plus. Excellent benefits/salary package.

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Staal, Gardner & Dunne, Inc.
Mr. T. N. Dunne
121 North Fir Street, Suite F
Ventura, CA 93001

Career Opportunity for Engineering Geologists

Immediate opening are available for entry-level and 1-2 year experienced geologists. Minimum requirements B.S. in Geology and hillside grading experience, respectively. An innovative teamwork atmosphere with strong potential for personal satisfaction and professional growth with a steadily growing firm. Competitive salaries and benefits.

Call (714)754-1127 or send resume to:

Zeiser Geotechnical, Inc.
Ms. Julie Judd
2900 S. Bristol St., Suite B-205
Costa Mesa, CA 92626

Career Opportunity for Soils Engineers

Immediate opening are available for staff-level and 3-5 year senior-level engineers. Minimum requirements B.S. in Engineering - staff; stability design, report writing, and hillside grading preferred - senior. Innovative, teamwork atmosphere conducive to personal and professional growth with a growing firm. Competitive salaries and benefits.

Call (714)754-1127 or send resume to:

Zeiser Geotechnical, Inc.
Ms. Julie Judd
2900 S. Bristol St., Suite B-205
Costa Mesa, CA 92626

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Services" ad here. Contact:

Kelly E. Rowe
Address and Telephone
Listed on front page.

Kelly E. Rowe
AEG Newsletter Editor
c/o James M. Montgomery, C.E., Inc.
30 Corporate Park, Suite 310
Irvine, California 92714

