**Dinner Meeting Tuesday June 13th**

- The Quiet Cannon Restaurant  
  901 North Via San Clemente  
  Montebello
- Cost - $20.00
- For reservations call by June 9th  
  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

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**MAP to Meeting**

- Quiet Cannon Restaurant
- Atlantic Blvd.
- Calif Rt 60 Pomona Fwy
- Garfield Ave.
- Beverly Blvd.
- Via San Clemente
- Montebello Mun Golf Course

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2550 Beverly Blvd.  
Los Angeles, CA 90057
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 pattern of slip in larger earthquakes. Dr. Heaton will also address Kerry Sieh's surprising conclusion that Pallet Creek experienced 6-meter offsets 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.

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 their 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. Currently $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".

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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 95860.

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


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.
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 Tula, OK 74101-0727

If paying by check make payable to: 28th IGC
Pre-registration Deadline (at normal rate) February 1, 1989
Deadline for late pre-registration May 1, 1989

All other inquiries and general correspondence concerning the Congress should be addressed to:
Dr. Bruce B. Hansshaw 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 Start in Los Angeles Stops in Denver.


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.


5-7 Field Trip T16- Geology of Nevada Test Site and surrounding area. I.G.C. Program Leader: H. Lawrence McKague (LLNL Lab), Paul Orkild (USGS) and Vel Clanton (DOE) Cost: $500 Start and Stop in Las Vegas.


20-29 Field Trip T381- Landslides in central California. I.G.C. Program Leader: William M. Brown (USGS) Start and Stop in San Francisco


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

Career Opportunity For
Principal Hydrogeologist
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) 445-5535 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 L. 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
2636 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
Mission Viejo, CA 92691

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.
Call (714) 837-5001 or send resume to:
Nolte and Associates
Attention: Personnel
24741 Chrisanta Drive
Mission Viejo, CA 92691

Career Opportunity For
Soils Technicians
Immediate openings are available for experienced Soil Technicians to work in Ventura and Santa Barbara Counties. Challenging work and a top salary/benefits package with a growing firm, current staff of 50.
Call (805) 653-5556 or send resume to:
Staal, Gardner & Dunne, Inc.
Mc. T. N. Dunne
121 North Fir Street, Suite F
Ventura, CA 93001

Your "Position Available" ad or your business-card size "Professional Services" ad here. Contact:
Kelly E. Rowe
Address and Telephone
Listed on front page.