

# SOUTHERN • CALIFORNIA • SECTION NEWSLETTER

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## DINNER MEETING

- Tuesday, May 10, 1988
- The Quiet Cannon Restaurant  
901 N Via San Clemente  
Montebello, CA
- \$20.00 (includes tip)
- For reservations call  
Jerry Treiman  
(213) 620-3560

MAKE RESERVATIONS BY NOON ON  
THE FRIDAY PRIOR TO THE MEETING

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

## PROGRAM

AEG Southern California Section  
Spring Field Trip Preview

Eldon Gath  
Manager of Geologic Operations  
Leighton and Associates, Walnut CA

THE WHITTIER FAULT

## SPEAKER & TOPIC

### THE WHITTIER FAULT

Eldon Gath

The Whittier fault extends over 32km from its southeastern connection with the northern Elsinore fault in Santa Ana Canyon to the Whittier Narrows area. The late quaternary sense of slip is dominantly right lateral with both Tonner and Brea Canyons offset nearly 1500 m. Recently completed investigations of the Whittier fault in Yorba Linda and Hacienda Heights have shed important light on the seismic hazard of this active fault. Over

10,000 linear feet of trench have been excavated across the fault for development constraint purposes. From these excavations, we have been able to analyze relative soil development on geomorphic surfaces and correlate them with C-14 dating of charcoal. Results indicate that a major elevated terrace surface and basal charcoal gravels are between 200,000 and 250,000 years in age. This surface is offset 400 m right laterally giving a long term slip rate of 1.6 to 2.0 mm/yr.

No evidence has been documented for a determination of recurrence intervals or to estimate a probable magnitude, but extensive work is still underway. The Sunday, October 4, 1987 aftershock of the Whittier narrows Earthquake showed a nearly pure right slip focal mechanism from first motion studies. Further work is clearly warranted to determine whether this could have occurred on a northward extension of the Whittier Fault.

## ANNOUNCEMENTS

### FROM THE BOARD OF REGISTRATION

249 geologists, more than ever before, took the registration exam in December. Only 27% passed. The extremely low percentage passing is not because the exam has changed but may be due to the large numbers of experienced out-of-state petroleum and minerals geologists who wish to practice geology in California.

87 took the Engineering Geology exam and 44% passed.

There is no doubt that Bill Keese, lobbyist in Sacramento representing the "Geology and Geophysics Support Group" helped defeat Senate Bill 86 which would have abolished the Board of Registration. The Support Group consisted of 10 firms each providing \$500. These firms are American Geotechnical, Converse Professional Service, Inc., Schaefer Dixon Associates, Eberhart and Stone, Inc., Harding Lawson Associates, Kovacs-Byer and Associates, Inc. Law Environmental, Inc., Leighton and Associates, LeRoy Crandall and Associates, and Moore and Taber. The geology profession as a whole owes a great deal to these ten firms for bailing us out in an emergency, as well as Bill Keese's work.

The Professional Practice Committee has prepared an informational document, approved by the Board, entitled "Geologic Guidelines for Earthquake and/or Fault Hazard Reports". This same committee is also evaluating continuing education. The board would like to know whether professional associations would consider mandatory CE as a requirement for annual membership renewal.

FOR YOUR INFORMATION

SPECIAL NOTICE

From Richard Escandon, last month's speaker:

I've been asked by several people to elaborate on the significance of mapping geologic conditions during tunneling. A complete accurate record of the as-built geology encountered during tunneling benefits construction costs, planning, design, and safety as well as providing a resource for future investigations. In terms of costs and potential litigation, the documentation of as-built geologic conditions plays an important role in the evaluation of contractor "changed condition" claims and payment disputes. From a technical standpoint, a comparison of the as-built conditions to the predicted conditions is used to evaluate the design of the tunnel support system. Changed conditions may require a modification in the support system and/or construction methods.

An accurate record of the conditions encountered is also vital in evaluating post-construction tunnel deformations and in the interpretation of ground movement detection instruments showing motion. From a safety standpoint, it should be noted that numerous, well documented case histories have shown that many tunneling catastrophies could have been avoided or mitigated had accurate geologic records been maintained during tunneling.

AEG Spring Field Trip  
June 4, 1988

Preparations are in progress for the June 4 1988 AEG field trip. This trip should prove to be a very informative and enjoyable excursion along the Whittier fault, commencing at Rio Hondo College, 3600 Workman Mill Rd. Whittier (L.A. Co. Thomas Guide Pg 55, E-1), winding along the fault to Yorba Linda and back to Whittier. Coffee and donuts will be served at 7:15 am and the busses will leave at 8:00. Total cost of \$40.00 per person (\$20.00 students) will include parking at Rio Hondo, bus transportation, coffee and donuts, lunch, beverages and guidebook. If you are interested in attending, please fill out the form below and return ASAP. This trip should fill up rapidly due to the recent seismic activity in Whittier Narrows.

FIELD TRIP SIGN UP

TO: Larry Cann/Eldon Gath  
Leighton and Associates, Inc.  
1151 Duryea  
Irvine, CA 92714

RE: AEG Field Trip, 6/4/88

Yes, I plan on attending! Enclosed please find my check for \$40.00 (per person) payable to AEG, Southern California Section to cover expenses

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone No: \_\_\_\_\_  
(number where you can be reached during the day)

Unemployed Students \$20.00 with name of University \_\_\_\_\_

## POSITIONS AVAILABLE

### ENGINEERING GEOLOGIST & SEISMOLOGIST

The Utah Geological and Mineral Survey has openings for two engineering geologists and an engineering seismologist in the Applied Geology Program. Successful candidates will conduct engineering geologic studies, including site investigations and geologic hazards mapping, and/or earthquake ground shaking studies throughout the State.

Applicants with specialties and experience in the following areas are sought:

1. Debris-flow and flood hazards, surface water hydrology, landslides.
2. Engineering geologic site investigation, hazards mapping and project review.
3. Earthquake ground shaking, engineering seismology, probabilistic hazards assessment.

Positions require at least a Bachelor's degree in Geology or related field and two years experience or an equivalent combination of education and experience.

Salary will be commensurate with qualifications, ranging from \$23,300 to \$30,200. Please contact Gary E.

Christenson, Senior Geologist for Applied Geology at UGMS (801-581-6831) if you have any questions regarding these positions. Submit resume including transcripts by May 20, 1988 to:

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

### ENGINEERING GEOLOGIST

DeLeuw, Cather and Co. a member of the joint venture assigned to manage construction of the LA Metro Rail System has an immediate opening for an engineering geologist. The position requires a degree in Geology, Engineering Geology or Geological Engineering. Prefer candidate with at least two years experience, including some time spent in documenting geologic conditions exposed by construction operations. Salary commensurate with education and experience. Firm offer of employment is subject to client approval. Send resume in confidence to: Charles W. Daugherty, DeLeuw, Cather and Co. c/o PDCU, 600 South Spring St. L.A. CA 90014

## POSITIONS AVAILABLE

McClelland Engineers, Inc., Ventura Office has the following openings for Geoscience Professionals:

**STAFF GEOLOGIST-** To be involved in a variety of hazardous waste site, geotechnical and environmental projects. We require BS/MS in geology plus one year experience with waste site studies including UST.

**FIELD OPERATIONS LABORATORY SUPERVISOR-** to coordinate day to day activities of field and lab technicians and equipment; to monitor/maintain inventory of field and lab supplies. We require 3 plus years experience with geotechnical field and/or laboratory activities, good interpersonal skills, attention to detail and a commitment to getting the job done.

**GEOTECHNICAL ENGINEER-** to be involved in a wide variety of moderate to large, non-subdivision projects. We require a Masters degree in Geotechnical Engineering, 1 to 5 years of southern California experience, good communications skills and a commitment to technical excellence and client satisfaction.

If you would like to be considered for one of these positions, please send your resume with salary history and expectations to: McClelland Engineers, Inc., 2140 Eastman Ave., Ventura, CA 93003. Attention Mike Ploessel, Manager, Engineering Geosciences.

### ENGINEERING GEOLOGIST (\$2869-\$3650/mo.)

The County of Orange is seeking certified engineering geologists who are able to work independently, assume responsibility for a range of difficult projects including subsurface geologic investigations, evaluation of existing geologic conditions, review of soils and geotechnical reports and preparation of technical reports; and make difficult engineering decisions and recommendations. Requires possession of a valid certificate of registration as an engineering geologist issued by the State of California.

Call for information and a mailed application or apply in person (resumes can not be accepted) (714) 834-2844  
County of Orange Personnel Dept.  
10 Civic Center Plaza  
Santa Ana, CA 92701

## FINAL NOTICE

ARE YOU DELINQUENT??

If there is a check by your name on the address label, this means you have already paid to remain on our mailing list for 1988. If there is no check and you wish to continue receiving this newsletter and other section mailings please send \$15 payable to Southern California Section, AEG to



- Jerry Treiman, treasurer  
So. Cal. Section AEG  
c/o Calif. Div. of Mines & Geology  
107 So. Broadway, Rm 1065  
Los Angeles, CA 90012

## DEADLINES

Material for the Southern California Section Newsletter must be received by the editor by the following dates to be included.

June newsletter                      May 26  
July newsletter                        June 23

Material for the "member news" column in the next national AEG News should be received by the section newsletter editor no later than June 7.

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<p style="text-align: center;"><b>MOORE &amp; TABER</b> <b>GROUTING DIVISION</b></p> <p style="text-align: center;">Compaction Grouting • Level Surveys Structure Dress Investigations</p> <p style="text-align: center;"></p> <p>4530 E. LA PALMA AVE. • PASADENA, CA 92807 • (714) 779-2591</p> <p>5620 DISTRICT BLVD., SUITE 103 • BIRMINGHAM, CA 93313 • (805) 833-1743</p> <p>16760 WEST BERNARDO DR. • SAN DIEGO, CA 92127 • (619) 487-2113</p>	<p><b>ZIP-A-DIP®</b> Combination protractor, scales, and most efficient apparent dip calculator designed.</p> <p>Only \$3.00 each (2-10/\$2.50; 11+/\$2.00). Brochure describes ZIP-A-DIP, stereonet plotters, stratigraph, field bags and quantity prices.</p> <p>Please send brochure only <input type="checkbox"/></p> <p>ZIP-A-DIPS Quantity _____ Amount \$ _____</p> <p>Name _____</p> <p>Address _____</p> <p>To: <b>ZIP-A-DIP, 1318 2nd St. #25, Santa Monica, CA 90401 USA</b></p>

Your hard working officers plan to prepare a directory of members with photographs. Please complete the following questionnaire and mail with current photo (no baby pictures please!!) to:

D.L. Lamar, AEG Directory  
1044 12th Street, #10  
Santa Monica, CA 90403

Name \_\_\_\_\_ Nickname \_\_\_\_\_ Spouse Name \_\_\_\_\_

Title \_\_\_\_\_ Company/Institution \_\_\_\_\_

Work Address \_\_\_\_\_

Work Phone Number \_\_\_\_\_

Home Address \_\_\_\_\_

Home Phone Number \_\_\_\_\_

Preferred Mailing Address: Work \_\_\_ Home \_\_\_

Degrees/Institutions/Dates \_\_\_\_\_

Other Society Memberships: GSA \_\_\_ AAPG \_\_\_ NAGT \_\_\_ Branner Club \_\_\_ South Coast \_\_\_

Others \_\_\_\_\_

Awards, Honors and whatever \_\_\_\_\_

Chris Wills  
6633 Ranchito Avenue  
Van Nuys, CA 91405