

# Association of Engineering Geologists

Southern California Section

## NEWSLETTER - July 1990



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City of Industry, CA 91748  
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2550 Beverly Blvd.  
Los Angeles, CA 90057

### Dinner Meeting *Tuesday July 10th*

- The Quiet Cannon Restaruant  
901 North Via San Clemente  
Montebello
- Cost - \$20.00 (Full-Time Students - Free)
- For reservations call by July 6th!!!

Marion (818) 889-0844 (Grover Hollingsworth & Assoc.)  
(Leave Your Name & Number of People in Your Party)

### Make reservations by Noon on the Friday before the Meeting

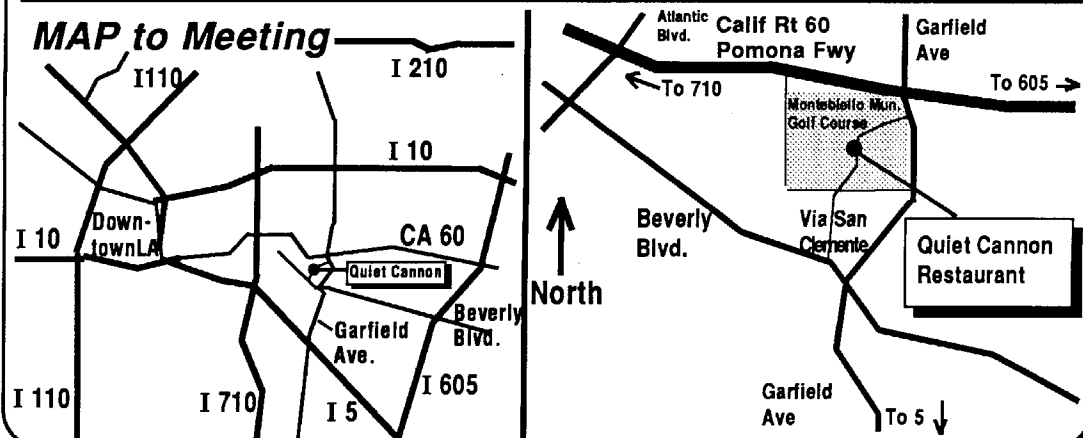
- 5:30 Social Hour
- 6:45 Dinner
- 7:30 Announcements
- 8:00 Program

### Program

**TOPIC** The Safety Element of Los Angeles  
County and Urban Hazard Reduction

**SPEAKER** Eldon Gath - Chief Engineering Geologist  
with Leighton and Associates, Diamond Bar

**Short Topic** Terri S. Beehner - Staff Geologist with Leighton and  
Associates, Riverside, also AEG 1989 recipient of Best Student Paper - Grad. Div.  
"Burial of Fault Scarps Along the Organ Mountains Fault, South-Central New Mexico"



2550 Beverly Blvd.  
Los Angeles, CA 90057

# Program

## Topic & Speaker

### The Safety Element of Los Angeles County and Urban Hazard Reduction Eldon Gath

National hazards are a fact and a condition of life in Los Angeles County; 11% of the County is underlain by potentially liquefiable soils; 3% is within active fault zones; 35% is in Fire Zones 4; 50% lies within hilly terrain susceptible to landslides; damaging floods or debris flows have occurred at least once per decade; 54 damaging earthquakes have shaken LA in the last 190 years; there have been 2 catastrophic dam failures and one near failure; and there were over 350 hazardous materials incident responses reported in 1988. The objective of the Safety Element is to reduce the consequences of a natural disaster in Los Angeles County.

Hazard Reduction in Los Angeles County, a supplemental technical resource report; provides the supporting documentation from which the County's action programs were derived. Maps were compiled for faults, geologic bedrock properties, liquefaction, shallow ground water, lifelines and critical facilities, landslides, flood and dam failure inundation zones, and wildland and urban fire hazards; providing the geologic, cultural, and hydrologic data needed for hazard reduction awareness and planning.

The Safety Element incorporates natural and urban hazard awareness into the framework of Los Angeles County through policy, regulation, ordinances, and zoning. Both new and existing developments are addressed, and action programs are provided. Existing emergency response, preparedness, and recovery options are a part of the County's daily departmental operations. When one considers that a major southern California earthquake will threaten the physical safety of nearly everyone in the County, and will affect the economic health of the State, and indirectly that of the rest of the Nation, it is clear that comprehensive and carefully implemented policies are required. The new Safety Element provides these policies, to be acted on both before and after the disaster.

Eldon M. Gath is the current AEG SCS vice chairman. Eldon is an associate and is the Chief Engineering Geologist with Leighton and Associates for their Diamond Bar/Los Angeles County offices. Eldon has over ten years of experience in the identification, investigation, and remediation of geologic hazards, involving land use planning, environmental assessments, field exploration and analysis.

Terri S. Beehner, the recipient of the award for the AEG "1989 Student Professional Paper: Graduate Division" will provide a short talk before Eldon's presentation. It will be related to her paper "Burial of Fault Scarps Along the Organ Mountains Fault, South-Central New Mexico". Terri is presently a staff Geologist with Leighton and Associates for their Riverside/Inland Empire offices.

THIS MONTH

July 1990



Kelly E. Rowe  
Hydrogeologist

Last month Dr. Lettis, discussed the recent work he and Tom Bullard undertook in evaluating the structural conditions of the Monterey Park and Montebello Hills. This area is located in the southwestern part of the San Gabriel Valley. The work sought to improve the understanding of the seismic risk in the Los Angeles Basin. At issue was a quantitative appraisal of the significance of the new concept of blind thrust faults.

Dr. Lettis and Tom Bullard have recently completed one phase of a study of Quaternary surface deformations in the Monterey Park and Montebello Hills to better characterize the underlying thrust fault responsible for the Whittier Narrows Earthquake. Numerous wind gaps and drainage reversals indicate substantial Quaternary tectonic uplift, and the two ranges of hills represent the surface expression of two distinct anticlinal folds. Their work indicates that the two hills are undergoing uplift independently, and are spatially separated by a 1-2 km right step at the Potrero Grande drainage. These conclusions will be explored in light of the structural complexity (strike slip/thrust) in the Whittier Narrows area, fault segmentation, and slip partitioning.

The 1990 annual field trip will address the engineering geology and hydrogeology of the Soledad Basin. The field trip will be held in late September or early October. We are soliciting articles for the guidebook, as well as suggestions for stops. General topics to be covered include: San Gabriel Fault, landslides, expensive bedrock, treatment of collapsible soils, ground-water development and private sewage disposal. Please volunteer at the July AEG meeting or contact Bob Hollingsworth (818) 889-0844 or Charlie Buckley (818) 991-1542.

Rob Larsen reports that the LA County Building Code changes have been in effect since April 1, 1990. Bob Hollingsworth had copies of the applicable building code changes available at the June meeting. If you are interested contact Bob or contact the County of Los Angeles.

The search is continuing for an AEG member in the Southern California Section to take over editorship of this monthly newsletter in November. At the June meeting there were several individuals interested in this assignment. The editorship role, however, will not be decided upon for a couple of months, to provide an opportunity for other interested people to decide if they wish to pursue the role. In summary, the editor distributes a total of 400 to 500 copies to people interested in the Association's activities. Beside the actual task of printing, this job takes about 16 hours per month for one individual. Previous editors have used staff from their company's office or family to do the label and stamp routine which cuts editor time down greatly. If you are interested feel free to contact me about details.



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## Positions Available

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

### Career Opportunities For Hydrogeologists, Geologists, Civil & Environmental Engineers

Openings are available for entry and senior level Hydrogeologists, Geologists and for Civil & Environmental Engineers. Openings are available in the City of Industry office and the Newport Beach office. In addition, positions for experienced ground water and soils remediation specialists are available in offices throughout the United States. Salary is negotiable and is commensurate with experience.

CONTACT: (818) 965-4048

or send resume to:

**Geraghty & Miller, Inc.**

Attention: Michael Shiang

17800 Castleton St. #175

City of Industry, CA 91748

### Career Opportunities For Hydrogeologists, Geologists, Civil & Environmental Engineers

Immediate openings area available at international environmental engineering firm for entry level Hydrogeologist/Geologist, Environmental/Civil Engineer in Irvine office. Position requires a BA/BS, MS preferred, interest in hazardous waste, wastewater or water supply. Chemistry and computer background a plus. AAP/EEOC.

Please submit resume to:

**Camp Dresser & McKee, Inc.**

Attention: Pat Kaler

18881 Von Karman, Suite 650

Irvine, California 92715

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### Career Opportunity For Staff Geologist

Immediate openings are available for an Entry Level Staff Geologist to perform field mapping, logging, drafting and assist in exploration. Requirements include a bachelors degree in geology. Projects include residential hillside development in the southern California area and evaluation of distressed homes and instability. Competitive salary and benefits.

CONTACT: (805) 373-0057

or send resume to:

**Robertson Geotechnical, Inc.**

2500 Townsgate Road, Suite E

Westlake Village, CA 91361

Attn: Hugh S. Robertson

### Career Opportunities For Geologists, Environmental Geologists/ Hydrogeologists

Openings are available for project/senior staff geologists. Requirements include a BS/MS in Geology, RG (CEG highly desirable) and at least 4 years of experience. Responsibilities will include project management, analysis of geologic mapping and exploration and staff supervision. Openings are available for environmental geologists/hydrogeologists. Requirements include a BS/MS in Geology RG and five years of experience in environmental services filed.

Responsibilities will include project management. Groundwater modeling experience is highly desirable. Salary is negotiable and commensurate with experience.

CONTACT: (714) 250-1421

or send resume to:

**Leighton & Associates**

Attention: Vicky Overly

1151 Duryea Avenue

Irvine, CA 92714

Career Opportunities For

### Geologists, Hydrogeologists Civil & Environmental Engineers

Openings are available for several positions. Staff Geologist Engineer; BS/1 year experience in waste management. Project Geologist/Hydrogeologist; BS/3 years experience or MS/2 years experience in waste management. Project Civil/Geotechnical Engineer; BS/3 years experience or MS/2 years experience in waste management. Senior Air Quality Scientist/Engineer; BS/7 years experience or MS/6 years experience as program manager, source testing.

CONTACT: (714) 546-0602

or send resume to:

**The MARK Group, Engs.&Geols.,Inc.**

Attention: David K. Rodgers, Principal

1241 E. Dyer Road, Suite 130

Santa Ana, CA 92705

Career Opportunity For

### Geologist/Hydrogeol./E.G.

Opening is available for a project level Geol./Hydrogeol./Eng.Geol. with 3 to 5 years experience to direct field operations for characterization of contaminated sites. Strong candidate will have detailed knowledge of drilling, sampling, and installation of ground-water monitoring wells, excellent communication skills and be computer literate with writing skills. Salary is negotiable and is commensurate with experience.

CONTACT: (714) 541-9333

or send resume to:

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Attention: David A. Sommers

505 N. Tustin Ave., Suite 160

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Kelly E. Rowe  
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