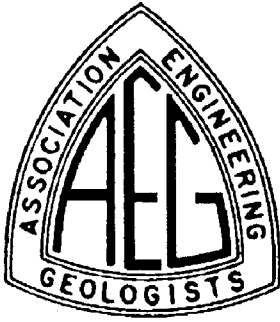


# Association of Engineering Geologists Southern California Section

## NEWSLETTER- January 1992



**Eldon Gath**  
Chairman  
(714) 860-7772 or  
(818) 965-4874

**Kelly E. Rowe**  
Vice Chairman  
(310) 983-6800

**James O'Tousa**  
Treasurer  
(818) 993-1211

**Tony Stirbys**  
Membership Chairman  
(213) 362-6176

**Terri S. Beehner**  
(714) 888-2422  
**Joseph Cota**  
(818) 785-2158  
Publications

**Tania Gonzalez**  
Secretary/Newsletter Editor  
12 Issues/year-\$25 to "AEG"  
(Full-Time Students \$10/year)  
(714) 860-7772  
(714) 860-1089 FAX  
c/o Leighton & Associates  
1470 S. Valley Vista Dr. #150  
Diamond Bar, CA 91765

2550 Beverly Blvd.  
Los Angeles, CA 90057

### Dinner Meeting *Tuesday January 14th*

- The Quiet Cannon Restaurant  
901 North Via San Clemente  
Montebello
- Cost - \$20.00 (Full-Time Students - Free)
- Make reservations by Friday January 10th!!!**  
URS Consultants (Dottie) 310-983-6800  
(Leave Your Name & Number of People in Your Party)
- 5:30 Social Hour
- 6:45 Dinner
- 8:00 Program

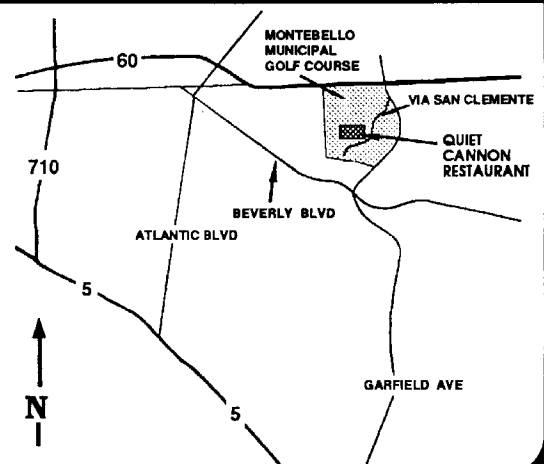
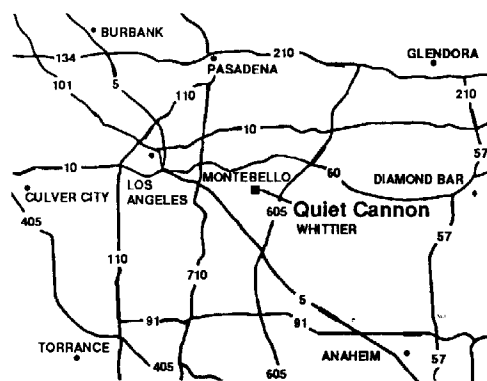
## Program

# Seismic Hazard of the Santa Monica-Hollywood Fault System

by

**James F. Dolan, Ph.D., Seismological  
Laboratory, Caltech, Pasadena**

### MAP to Meeting



# PROGRAM

## Topic & Speaker

# Seismic Hazard of the Santa Monica - Hollywood Fault System

by

**James F. Dolan, Ph.D., Seismological Laboratory, Caltech, Pasadena**

James Dolan and Kerry Sieh have undertaken an integrated geologic and geomorphologic study of the west-northwest trending Santa Monica-Hollywood fault system (SMHFS) in order to elucidate the kinematics, subsurface structural style, and seismic hazard of this portion of the north-western Los Angeles Basin. Their studies have revealed that the Newport-Inglewood fault zone separates the SMHFS into two geomorphologically and structurally different segments. To the east, linear scarps indicate that recent activity on the Hollywood fault is concentrated along the topographic mountain front. Active deposition of numerous small alluvial fans at the mountain front, coupled with the absence of any significant fan incision or segmentation, suggests recent, rapid uplift of the mountain front in this area.

In contrast, the active trace of the Santa Monica fault west of the Newport-Inglewood fault forms a series of en echelon scarps 3 to 4 km south of the mountain front. The presence of several large, deeply dissected and highly segmented old alluvial fans between the active fault and the mountain front suggests relatively little, if any, recent mountain-front uplift. The oldest and most steeply dipping old fan segments, which lie at the mountain front, dip only 2 to 2.5 degrees, indicating that no appreciable tilting of the mountain front has occurred since fan deposition. This absence of active tilting implies that recent contractional deformation along the southern Santa Monica Mountains has not been accommodated by

growth of a south-verging fault-propagation fold associated with a blind thrust at depth. Rather, most recent contractional deformation is apparently accommodated along the en echelon scarps that cut across downtown Santa Monica.

The active traces of the Santa Monica and Hollywood faults trend into the Newport-Inglewood fault at high angles, and are offset from one another by 1.5 to 2 km. The Newport-Inglewood fault thus appears to locally be acting as a tear fault. Whether or not the Newport-Inglewood acts as a segment boundary for the SMHFS during earthquakes remains an important, unanswered question.

Dr. James Dolan is a Post-Doctoral Research Fellow at the Seismological Laboratory at Caltech, Pasadena. He received his Ph.D. in Earth Sciences from UC Santa Cruz, and his Bachelors degree in Geology from UC Davis. He has been involved in a wide variety of geology projects, from the Deep Sea Drilling Project, to geothermal research. Dr. Dolan is currently working with Dr. Kerry Sieh, and recently presented the results of their studies of the Santa Monica-Hollywood fault system at the American Geophysical Union (AGU) meeting held in San Francisco. The above write-up was taken directly from the abstract that Drs. Dolan and Sieh presented at this meeting.

### **SECTION COMMITTEE CHAIRS**

Professional Registration: Bob Hollingsworth (818) 889-0844

Public Relations: Robert Ruff (714) 549-8921

Legislative Affairs: Hugh Robertson (805) 373-0057

Short Course: Dave Grover (818) 889-0844

## **New Erosion Control Policy for the Los Angeles County**

The Los Angeles County Department of Public Works is in the process of developing an Early Action Best Management Practices Plan for erosion control. The new erosion control policy, to be submitted to the Regional Water Quality Control Board for approval by the end of January, will require sandbags along unimproved roads in construction sites to be in place at all times during the rainy season. This is in contrast to the current policy whereby sandbags are stock-piled and placed only when rain is predicted. If approved, the new policy will be included in the erosion control plan check and inspection procedures beginning with the 1992 rainy season.

## **Directory of the AEG Southern California Section**

Kelly Rowe, your friendly Vice-Chairman, is currently putting together a directory of the members and associate members of the Southern California Section of AEG. This project was first started by Past-Chairman Don Lamar in 1989. At that time, about 80 photographs of members were collected for inclusion in the directory. It is the objective of Kelly to complete the directory, which will contain the name and photo of every member and associate member in the Section. Examples of what the directory will look like will be on view at the January and February meetings, where Kelly will welcome your comments regarding the directory's format. We still need to collect about 270 photographs. The best photos are passport-sized, of the head and shoulders, and with a light-colored background. If you are a member of AEG, please send your photograph to Tania Gonzalez, c/o Leighton and Associates, 1470 S. Valley Vista Dr., Diamond Bar, California, 91765. Kelly Rowe will also be taking pictures of members at the next two meetings. The directory, which will be printed in high-quality paper, will be published in March or early April, and sold at cost. We will keep you informed.

## **CHEMTEK**

**i n c.**

**ENVIRONMENTAL**

**LABORATORIES**

D.O.H Certificate #1435

14140 Alondra Boulevard  
Suite A Santa Fe Springs  
California 90670

Telephone 213-926-9848  
Teletax 213-926-8324

## **List of Donations Received for the 1992 Annual AEG Meeting**

The following companies have donated monies to sponsor the 1992 Annual AEG Meeting to be held in Long Beach this October. The donations are listed in chronological order. If you want to sponsor the meeting, you can send your contributions to Hugh Robertson (Robertson Geotechnical, Inc., 2500 Townsgate Rd. Ste. E., Westlake Village, California 91361, 805-373-0057; or to Eldon Gath (Leighton and Associates, 1470 S. Valley Vista Drive, Ste. 150, Diamond Bar, 91765, 714-860-7772. Thank-you very much for your contributions.

<b>Name</b>	<b>Amount</b>
Remedial Action Corp 505 N Tustin Ave, Ste. 160 Santa Ana, CA 92705	\$250.00
Goffman, McCormick & Urban, Inc. 22822A Granite Way Laguna Hills, CA 92653	\$500.00
Jay L. Smith Company, Inc. 16650 Burl Lane Occidental, CA 95466	\$300.00
Leighton and Associates, Inc 2121 Alton Parkway Irvine, CA 92714	\$500.00
Harley A. Tucker, Inc. 21500 Wyandotte St, Ste. 108 Canoga Park, CA 91301	\$250.00
Robertson Geotechnical, Inc. 2500 Townsgate Road #E Westlake Village, CA 91361	\$500.00
Grover Hollingsworth & Assoc. 31129 Via Colinas, Ste. 707 Westlake Village, CA 91361	\$250.00

## **APPLIED ENVIRONMENTAL SERVICES, INC.**

**Hazardous Waste Management**  
**Health & Safety**  
**Hydrogeology**  
**Site Characterization**  
• **Assessment / Remediation**

1(714) 455-4080  
Fax 1(714) 455-2707  
23113 Plaza Pointe Dr., Ste. 100 • Laguna Hills, CA 92653

# BOOK SALE

## Association of Engineering Geologists, Southern California Section

- 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: Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, August 24, 1991, volumes 1 and 2, 383 pgs., 4 map sheets. **\$40.00**
- Buckley, C.I., and Larson, R.A., Eds., 1990, Geology and Engineering Geology of the western Soledad Basin, Los Angeles County, California: Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, November 3, 1990, 185 pgs., 2 map sheets. **\$25.00**
- Cann, L., and Steiner, E., Eds., 1989, Engineering Geology along Coastal Orange County: Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, September 23, 1989, 207 pgs. **\$20.00**
- Lamar, D.L., Ed., 1978, Geologic Guide and Engineering Geology Case Histories, Los Angeles Metropolitan Area: Guidebook for the Southern California Section of the Association of Engineering Geologists, First Annual California Section Conference, May 12-14, 1978, 174 pgs. **\$16.00**
- Stout, M.L., Ed., 1976, Geologic Guide to the San Bernardino Mountains, Southern California: Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, May 22, 1976, 114 pgs. **\$11.00**
- Byer, J.W., Ed., 1975, Sycamore Canyon Fault, Verdugo Fault, York Boulevard Fault, Raymond Fault, and Sierra Madre Fault Zone: Guidebook for the Southern California Section of the Association of Engineering Geologists Annual Field Trip, September 27, 1975, 68 pgs. **\$ 8.00**
- Buesch, D., Ed., 1979, Geomorphic Applications in Engineering Geology: A State-of-the-Art Short Course: Short course held at California State University at Los Angeles, November 10-11, 1979, reprinted by the Southern California Section of the Association of Engineering Geologists, 145 pgs. **\$11.00**
- City of Los Angeles, 1982, Geologic Maps of the Santa Monica Mountains, Los Angeles, California: 333 map sheets at 1" = 400', compiled by the Bureau of Engineering, Department of Public Works, City of Los Angeles, reprinted by the Southern California Section of the Association of Engineering Geologists, 342 pgs. **\$26.00**

**Books are available from:** Joe Cota, Publications Chairman, AEG Southern California Section, c/o GeoSoils, Inc., 6634 Valjean Avenue, Van Nuys, California 91406, (818) 785-2158. Make checks payable to AEG Southern California Section. **Please add 8.25% sales tax and the following postage/handling charges:** \$2.50 for the first book and \$0.50 for each additional book.

### SANFORD L. WERNER

CONSULTING GEOHYDROLOGIST  
ENGINEERING GEOLOGIST  
WATER QUALITY SPECIALIST

Registered Geologist  
Certified Engineering Geologist

21031 Blythe St., Canoga Park, CA 91304, (818) 998-8178



Mary C. Stordal  
Laboratory Supervisor  
Analytical Chemistry Services

### CORE LABORATORIES

1250 East Pacifico  
Anaheim, California 92805  
(714) 937-1094  
Fax: (714) 937-1170

## Positions Available

Ads in this section are welcome at no cost.

### Career Opportunity for an Engineering Geologist

The City of Los Angeles has an opening for an engineering geologist. Responsibilities include: analyzes and determines the adequacy of geological reports and recommendations pertaining to soil contamination; prepares and conducts training in the geological aspects of enforcement of underground tank regulations; assists with site assessments and soils remediation report reviews and approvals; acts as liaison with other governmental agencies regarding proposed new legislation, procedures and standards in site assessments and other matters. Requires certification as an Engineering Geologist with the California Board of Registration for Geologists and Geophysicists upon employment. Salary: \$3,575-\$5,223 monthly. Submit applications to:

**Personnel Department**  
City Hall South  
111 East First Street, Room 100  
Los Angeles, California 90012  
(213) 485-2442  
An EEO/AA Employer

### Immediate Opening for a Registered Geologist

Ecology Control Industries, a stable, growing Environmental Services company, has an immediate Management position open for a Registered Geologist. The successful candidate will supervise and prepare Phase I, II and III site assessments and other environmental surveys.

Please submit resumes to:

**ECI**  
Attn: DVR  
P.O. Box 92618  
Long Beach, California 90809  
or FAX'ed to (213) 427-6591

For further information contact:  
Mr. Ken Smith, General Manager, or  
Ms. Heather Harralson, Office Supervisor  
(213) 427-4482

### The Geological Society of America Congressional Science Fellowship

Beginning September 1992, GSA will sponsor one earth scientist to serve a one-year term in the office of a Congressional committee or as a U.S. House or Senate member. The Fellow's responsibilities will be to advise on a wide range of scientific issues related to public policy. Fellows perform in much the same way as regular staff members; they have the opportunity to be involved in varied legislative, oversight and investigative activities. They offer their special knowledge, skills and competence for the opportunity to acquire experience and the chance to contribute to the formulation of national policy.

The program is open to highly qualified earth scientists in early or mid-career. The position will require the ability to work well with people from diverse professional backgrounds, and to be articulate and flexible in fulfilling a broad range of assignments. The fellowship carries with it a \$38,000 stipend, plus limited allowances for health insurance, travel and relocation. The program is funded by GSA and by a grant from the U.S. Geological Survey. The deadline for receiving applications for the fellowship is February 15, 1992. Procedures for application and detailed requirements are available in the geology departments of most colleges and universities in the United States, and upon request from:

**Executive Director, Geological Society of America,**  
P.O. Box 9140  
Boulder, Colorado 80301

### Career Opportunities for Mid-level Geotechnical an/or Environmental Geologists and Engineers

Converse Consultants, a leading geotechnical, Environmental and Materials Engineering firm in California is presently interviewing for Project and Senior level geologists and engineers for the Inland Empire office, located in San Bernardino, California.

The positions require a minimum of 4 to 5 years of individual or combined experience in the Geotechnical or Environmental Engineering consulting field. Applicants should have BS degree in geology, geocharyology, civil engineering or related discipline. Written and verbal communications are mandatory and registration is preferred (RG/CEG/RCE/GE). Qualified candidates should submit resumes in confidence to:

**Converse Consultants**  
630 E. Brier Drive, Suite 100  
San Bernardino, California 92408  
Attention: David Simon

## Professional Services

Business-sized card advertisements are \$50.00/year

### Mt. Eden Books and Bindery

Specializing in out-of-print and rare books in the GEOLOGICAL SCIENCES, including U.S.G.S. publications, general geology, mining, paleontology, geophysics, hydrology, mineralogy, etc. Free Search Service. For free catalog contact us at:

**P.O. Box 421, Dept. B**  
**Mt. Eden, California 94557**  
**(415) 782-7723**

**PRESSURE**

**GROUT  
COMPANY**

**Steven C. Chandler**  
Grouting Engineer

125 South Linden Ave.  
So. San Francisco,  
CA 94080-6466  
415/871-2244  
FAX 415/761-2234

831 East D St.  
Wilmington  
CA 90744-6007  
213/513-0773  
FAX 213/513-0303

**RICH DARBY**

Lic. #519165

**D-H** **CO.**  
**EXCAVATION CO.**  
**DRILLING, LP**

"WE DRILL & DIG HOLES."

TESTPITS/BORINGS, CAISSONS, FOOTINGS, FOUNDATIONS  
GRADEBEAMS, UNDERPINNINGS/PADS, SEEPAGE PITS

L.A. COUNTY:  
P.O. BOX 94656  
PASADENA, CA 91109-4656  
(818) 767-5293

ORANGE COUNTY:  
P.O. BOX 3241  
COSTA MESA, CA 92628-9998  
(714) 645-3127

An advertisement for your companies' goods or services in this publication will be seen by over 600 individuals, businesses and educational institutions every month. The current rate for a business-card sized advertisement is \$50.00 per year. For information about placing your advertisement, contact Tania Gonzalez at (714) 860-7772.

Please use the services of these members and businesses. Their advertisements help pay the publication costs of the newsletter.

## Seminars/Meetings/Field Trips

### FEBRUARY 1992

**3-8 Short Course on Fundamentals of Shallow Foundation Design, including Structural Design of Footings**, in Scottsdale, Arizona. Presented by the University of Missouri-Rolla Civil Engineering Continuing Education. **CONTACT:** Norma R. Fleming, U. of Missouri-Rolla, Rolla, MO 65401-0249, 1-800-752-5057 or 314-341-4200.

**10-14 Sixth International Symposium on Landslides**, in Christchurch, New Zealand. The symposium is co-sponsored by the International Society for Soil Mechanics and Foundation Engineers, and the International Association of Engineering Geologists. **CONTACT:** David H. Bell, Geology Department, University of Canterbury, Christchurch, New Zealand, Phone: (64-3) 642-717 or 677-001. FAX: (64-3) 642-999.

**18-21 Earth Remote Sensing Short Course**, in Los Angeles, presented by the Department of Business, Engineering and Management of the UCLA Extension Program. **CONTACT:** For technical information: David L. Glackin at (213) 336-8735, for registration information: Short Course Program Office at (213) 825-3344.

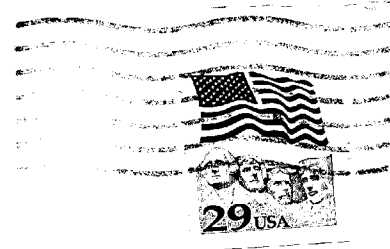
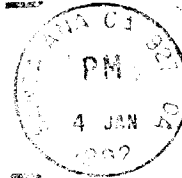
### MARCH 1992

**2-6 Short course on Fundamentals of Deep Foundations, Analysis, Design, Testing and Inspection**, in Cocoa Beach, Florida. Presented by the University of Missouri-Rolla Civil Engineering Continuing Education. **CONTACT:** Norma R. Fleming, U. of Missouri-Rolla, Rolla, MO 65401-0249, 1-800-752-5057 or 314-341-4200.

### APRIL 1992

**29-May 1 1992 Pacific Section Convention AAPG-SEPM-SEG-EMD**, in Sacramento, California. Theme for the convention is "Creative Approaches to Environmentally Sound Exploration". **CONTACT:** Rich Boyd, General Chairman, Capitol Oil Corporation, 1545 River Park Drive, #501, Sacramento, CA 95815, (916) 929-4141.

Tania Gonzalez  
AEG Secretary/Newsletter Editor  
c/o Leighton & Assoc.  
1470 S. Valley Vista Dr., #150  
Diamond Bar, CA 91765



FIRST CLASS POSTAGE