



# Association of Engineering Geologists

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NEWSLETTER- April 1994

Southern California Section

## April Dinner Meeting - Tuesday, April 12

### Program

**Seismicity of the Southern San Fernando Valley and  
the Proposed Ventura Freeway Fault**

**by**

**Sanford L. Werner, James E. Slosson  
and Gerry Simila**

The Airtel Plaza Hotel

7277 Valjean (corner Valjean & Sherman Way)  
Van Nuys

Cost - \$25.00 (Full-Time Students - \$15.00)

Make reservations by Friday April 8!!!

Geosoils (818) 785-2158

(Leave Your Name & Number of People in Your Party)

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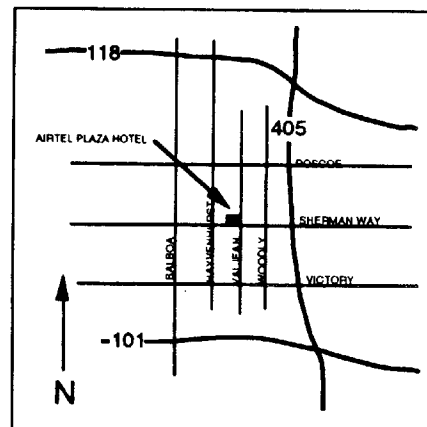
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c/o Montgomery Watson  
301 North Lake Avenue  
Suite 600  
Pasadena, CA 91101

5:30 Social Hour

6:45 Dinner

8:00 Program

Map to Meeting



## April Program

**Topic: "Seismicity of the Southern San Fernando Valley and the Proposed Ventura Freeway Fault"**

**Speakers: Sanford L. Werner, James E. Slosson, and Gerry Simila.**

Sanford L. Werner and James E. Slosson will discuss data suggesting the existence of a major through-going shear zone (fault zone) paralleling the south side of the San Fernando Valley (referred to as the South San Fernando Valley or 101 fault). The data base includes historic geologic, fault, soil and topography maps; NASA photographs; pre-1990 seismic map; recognizable water temperature and chemistry patterns; locations of springs, cienagas, artesian zones, riedel faults, riedel mini anticlines (pressure ridges); and geomorphic features related to fault/shear zones. The discussions will also show the general relationship of buildings red-tagged after the Northridge Earthquake to the 101 shear or fault zone and related riedel structures. The speakers will also discuss the relationship of high accelerations recorded on the principal shear zone and the riedel structures. The Tarzana Nursery strong motion instrument is located on a folded riedel ridge/pressure ridge composed of firm, folded bedrock, rather than soft alluvium as previously thought.

Gerry Simila will discuss the seismicity (1981-1993) and associated focal mechanisms for the southern San Fernando Valley to evaluate the existence of the 101 fault proposed by Slosson, Phipps and Werner (1993). Approximately 130 events are located within 5 km of the proposed fault trace, including 32 events with M- 2.0+. Although no continuous alignment of seismicity is apparent, there are localized clusters of activity associated with the propose fault location. Distributions of hypocenters range in depth from 1 to 22 km with no apparent trends. Focal mechanisms show primarily strike slip and reverse faulting associated with a N-NE/S-SW compressive stress. Presently, the conclusive seismological evidence for the proposed 101 fault is insufficient, but the clusters of microseismicity warrant continued evaluation.

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## Job Opportunities

Engineering geologic and environmental consulting firm, based in Glendale, has immediate openings available for geologists to participate in a diverse range of challenging geologic projects. Entry level to five years of experience. Please Fax resume to (818) 500-0134.

## Free Dinner

Hey, Garry Wells Cannon, congratulations on the upgrading of your membership from Student to Associate! Come to the meeting on April 12 and receive dinner on the Section!!!

## Geologist Available

Warren Colbert is looking for an entry-level position as a geologist. Warren earned his B.S. in geology from Cleveland State University and received a diploma in computer systems and programming from the Computer Learning Center. Warren's current experience is in the financial arena. Give Warren a call at (818) 842-8767 and please leave a message if he is not home.



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**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. **\$30.00 PRICE REDUCED**
- 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**
- 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**
- Leighton, Beach F., 1992, Mitigation of Geotechnical Litigation in California, Munson Books. **\$44.00**
- Shlomon, R. J. Applications of Soil Stratigraphy to Engineering and Environmental Geology, Association of Engineering Geology, Southern California Section Short Course Notes, June 5, 1993. **\$35.00**
- Sieh, K.E. and Matti, J.C., October 3-4, 1992, Earthquake Geology San Andreas Fault System Palm Springs to Palmdale, 35th Annual AEG Meeting, Guidebook and Reprint Volume. **\$25.00**
- Ehlig, P.L. and Steiner, E.A. Editors, October 2-9, 1992, Engineering Geology field Trips: Orange County, Santa Monica Mountains and Malibu. 35th Annual AEG Meeting, **\$25.00** \*\*Optional Map and Cross Section of Big Rock Mesa **\$15.00**
- Stout, M. L., Editor, 1992, Association of Engineering Geologists, Proceedings for the 35th Annual Meeting, October 2-9, 1992, Los Angeles, California. **\$40.00**
- Scullin, M.C., 1983, Excavation and Grading Code Administration, Instruction, and Enforcement, Prentice-Hall, Inc. **\$25.00**
- Stirbys, Anthony F., et. al., October 2-9, 1992, Los Angeles Metro Rail System Field Trip Guidebook, AEG 35th Annual Meeting, Long Beach, California; **\$25.00**
- Stout, M.L., 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; 115 pages **\$11.00**
- Shurman, G. and Slosson, James, 1992, Forensic Engineering, Environmental Case Histories for Civil Engineers and Geologists, Academic Press, Inc. **\$49.95**
- Pipkin, B.W. and Proctor, R.J., Editors, 1992, Engineering Geology Practice in Southern California, Star Publishing, 779 pages, **\$79.95** plus a special charge of **\$5.00** shipping and handling.

**Books are available from:** Bill LaChapelle, Publications Chairman, AEG Southern California Section, c/o Cal-Geo Corporation, 380 Thorpe Circle, Thousand Oaks, California 91360. Telephone (805) 374-9721; FAX (805) 496-5244. 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.

**SEISMIC HAZARD ANALYSIS SHORT COURSE**

The Southern California Section of the AEG is proud to announce a 1-day short course in seismic hazard analyses. The short course will be held June 18, 1994, at California State University, Los Angeles, at a cost of \$110 per person. The course will be taught in Room 158 of the Physical Science Building. Free parking is available beneath the structure. Lunch and refreshments will be provided. Seating will be limited to the first 135 sign-ups.

The short course is designed to provide participants with a working background in probabilistic and deterministic seismic hazard analyses, earthquake generation, and earthquake ground motion parameters. The course will be co-taught by recognized experts in the field of earthquake hazard analyses and will feature the following topics:

Jeffrey A. Johnson:

- Deterministic Seismic Hazard Analysis Procedures
- Probabilistic Seismic Hazard Analysis Procedures
- Earthquake Size and Fault Segmentation

Kenneth W. Campbell:

- Attenuation of Earthquake Ground Motion

Thomas F. Blake

- Procedures, problems, and pitfalls to be aware of when using the EQFAULT, EQSEARCH, FRISK89, AND FRISKSP programs.

Participants will be provided with copy of course notes that will include chapters prepared by each of the three presenters. They will also be provided with a 1,300 page course notebook with ground motion attenuation papers published over the last 25 years.

**SIGN-UP FORM**

Name	Item	Cost	No.	Amount	Make check, payable to AEG and mail to:
Organization	Short Course	\$110	_____	_____	Deems Padgett c/o Jacobs Engineering Group, Inc. 251 S. Lake Avenue Pasadena, CA 91101 (818) 568-7000
	Notebook Only	\$70	_____	_____	
Address			Total	_____	
Phone					

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## *Seminars/Meetings/Field Trips*

**April 12, 1994**

**AEG Dinner Meeting**, Airtel Plaza Hotel, Van Nuys. "Seismicity of the Southern San Fernando Valley and the Proposed Ventura Freeway Fault" by Sanford Werner, James Slosson, and Gerry Simila.

**June 18, 1994**

**Seismic Hazard Analysis Short Course**, See sign-up form inside this newsletter.

## *Section Committee Chairs*

**Professional Registration:**

Bob Hollingsworth (818) 889-0844

**Public Relations:**

Unfilled

**Legislative Affairs:**

Hugh Robertson (818) 373-0057

**Field Trips:**

Unfilled

**Short Course:**

Deems Padgett (818) 568-7000

**Education:**

Kelly Rowe (714) 979-7790

Kathy Williams (310) 597-3977

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