

Association of Engineering Geologists

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NEWSLETTER- May 1994

Southern California Section

May Dinner Meeting - Tuesday, May 10

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Pasadena, CA 91101

Program

Causes of Differential Bedrock Expansion

by

**Bob Hollingsworth, Grover Hollingsworth
and Associates, Inc.**

The Quiet Cannon
901 North Via San Clemente
Montebello

Cost - \$20.00 (Full-Time Students - \$5.00)

Make reservations by Friday May 6!!!

Geosoils (818) 785-2158

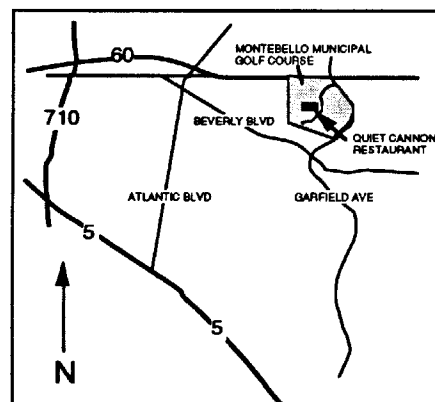
(Leave Your Name & Number of People in Your Party)

5:30 Social Hour

6:45 Dinner

8:00 Program

Map to Meeting



April Program

Topic: "Causes of Differential Bedrock Expansion"

Speaker: Robert A. Hollingsworth, Grover Hollingsworth and Associates, Inc.

Bob will be presenting a talk on the causes of differential bedrock expansion. Two types of expansion will be addressed: hydration of clay constituents and crystal growth. The common mechanisms of expansion, as well as rock types and formations most susceptible to bedrock expansion, will be discussed. Case histories will be used to illustrate the damage which can occur as a result of differential bedrock expansion, as well as the failure of historic engineering solutions. Bob will also discuss exploration techniques and laboratory testing which can be used to aid in the identification of areas subject to bedrock expansion and design of engineering solutions.

Honoring Dr. Stout

At our June 14, 1994 Section meeting at the Quiet Cannon in Montebello, we will honor Dr. Stout in perhaps the best way possible for a teacher. That is by having his students tell us and Marty how they have applied what they learned from him to a particular job or geologic problem. The talks are to be technical in nature and are limited to 5 minutes duration and a maximum of 5 "Kodachrome" slides (no exam questions allowed). If you would like to be considered as a speaker and have the opportunity to honor Marty in this way, please contact Robert A. Larson at (818) 786-8884 during the evening hours or by leaving a message.

The Southern California Section is establishing a student scholarship to honor Dr. Stout for his contributions to our profession and organization, as well as his role as faculty advisor to the CSULA student chapter. The Section is soliciting individual and corporate contributions. No amount is too small nor too large, so please send what you can. We would like the scholarship account to be fully funded by our June 14 meeting. This meeting will be a dedication to Marty and feature many of his former students as speakers. Please send checks payable to "AEG Southern Calif. Section" to Robert A. Larson, Vice-Chairperson, 6416 Woodly Ave., #5, Van Nuys, CA 91406. Please write on the check that it is for the Stout scholarship.

CORRECTION - The previous newsletter indicated 1 talk by 3 speakers. Actually, there were 2 talks: 1) South San Fernando Valley Fault (101) Fault by Sanford Werner and Jim Slosson and 2) Seismicity of the Southern San Fernando Valley and the Proposed Ventura Freeway Fault by Gerry Simila. The Newsletter Editor apologizes to Sandy, Jim, and Gerry for the confusion.

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Section News et. al.

At the recent hearings of the seismic Safety Commission on the Northridge Earthquake, the following Southern California Section members provided oral or written testimony: Frank E. Denison, Douglas E. Moran, Robert A. Larson, George E. Brogan, Michael Johnson, and David W. Popplar.

The deadline for submittal of Abstracts to the 1994 Annual AEG Meeting is May 16.

Nominations for next years officers of the Southern California Section will be accepted at the May meeting. It is entirely appropriate to nominate yourself by volunteering. Please contact Kelly Rowe at (714) 458-7414 or talk to him at the meeting. We also need volunteers for Chairpersons of the various Section Committees. If you would like to volunteer to be a Chairperson or member of a committee, please contact Jim O'Tousa or Robert Larson.

Dibblee Medal Award

At its Annual Meeting in Santa Barbara on April 9, 1994, the Board of Directors of the Thomas Wilson Dibblee Jr., Geological Foundation selected Dr. Lehi F. Hintze, Professor Emeritus of Geology at Brigham Young University, as the first recipient of the Dibblee Medal. Dr. Hintze has spent a life time in geologic mapping. He is the author or co-author of over 50 geologic maps. Of these maps, he is the single author of 34 published geologic quadrangle maps, published between 1960 and 1993. He was the single compiler of the 1980 edition of the Geologic Map of Utah. He is currently a senior geologic mapper for the Utah Geological Survey.

The purpose of the Dibblee Medal is to honor the extraordinary geologic mapping achievements of Tom Dibblee and to underline the importance of geologic field mapping as a means of providing solutions to complex geological problems. Dibblee's maps have been used by thousands of geologists, and those maps are indispensable to the earth sciences and for the benefits of mankind as well.



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

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Seminars/Meetings/Field Trips

May 10, 1994

AEG Dinner Meeting, Quiet Cannon, Montebello.
"Causes of Differential Bedrock Expansion" by
Robert Hollingsworth.

June 14, 1994

AEG Dinner Meeting, Quiet Cannon, Montebello.
A Dedication to Dr. Martin Stout.

June 18, 1994

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

July 12, 1994

AEG Dinner Meeting, Location TBA. Joint
meeting with IGS, SDAG, AEG.

August 9, 1994

AEG Dinner Meeting, Quiet Cannon,
Montebello. "Characterization of Fault Rupture
Adjacent to Distressed Structures, Landers,
California" by Diane Murbach

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) 597-8977

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Dave Ebersold
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