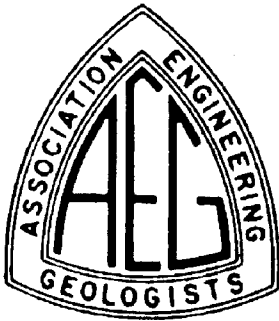


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NEWSLETTER-February 1993

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Dinner Meeting *Tuesday, February 9th*

- The Quiet Cannon Restaurants
901 North Via San Clemente
Montebello
- Cost - \$20.00 (Full-Time Students - Free)
- Make reservations by Friday February 5th!!!**
URS Consultants 714-660-7676
(Leave Your Name & Number of People in Your Party)
- 5:30 Social Hour
- 6:45 Dinner
- 8:00 Program

Program

"El Modeno Fault, New Evidence for Recent Activity"

by

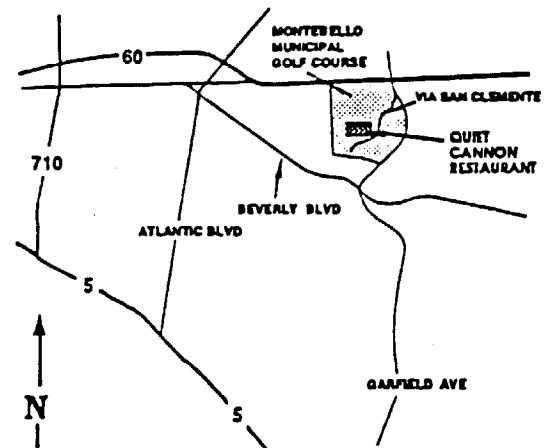
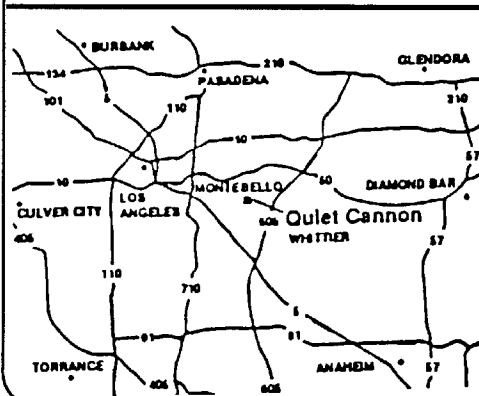
Mr. James R. Ashby, Mission Geoscience, Inc.

"Alquist Priolo Program, Zoning Process and Update"

by

Mr. Jerry Treiman, California Division of Mines and Geology

MAP to Meeting



PROGRAM Topic & Speaker

ALQUIST PRIOLO PROGRAM

Short Topic:
"Alquist Priolo Program, Zoning Process and Update"
Speaker: Jerry Treiman, California Division of Mines and Geology

Main Topic:
"El Modeno Fault, new Evidence for Recent Activity"
Speaker: James R. Ashby, Mission Geoscience, Inc.

February 9th is the anniversary of the 1971 San Fernando Earthquake. Our program tonight will focus on the Alquist Priolo Program, a program which in large part was formed because of the unexpected amount of damages incurred during the San Fernando Earthquake. Mr. Jerry Treiman, California Division of Mines and Geology, will discuss how the Alquist Priolo Zoning Process works from detailed "discovery" fault investigations to zoning ordinances. Mr. Treiman will also present an update on the Alquist Priolo Program.

Mr. James Ashby will present findings of his recent investigation of the El Modeno Fault in north-central Orange County. The El Modeno Fault is not yet zoned under the Alquist Priolo Program. However, based on his study which included radiocarbon-14 dating, the El Modeno Fault truncates surface soils that are less than 2,500 years old (before present). The El Modeno Fault should be considered active in accordance with the present guidelines of the Alquist-Priolo Special Studies Act.

Mr. Jerry Treiman is responsible for the Alquist Priolo Program within Southern California. Mr. Treiman obtained a Bachelors degree in Geology from U.C.L.A. and has been with the State of California for 15 years. Mr. Treiman has worked in the Alquist Priolo Program for 5 years and has published numerous professional papers regarding the fault evaluation program, California geology, and landslide hazards.

Mr. James Ashby is Principal Geologist with Mission Geoscience, Inc., an environmental, geotechnical, and mining consulting firm in Newport Beach, California. Mr. Ashby obtained a Bachelors degree in Geology from San Diego State University and a Masters degree in Geology from U.C.L.A., and is registered (RG, CEG, REA) in California. He is also registered in Arizona and Oregon. Mr. Ashby has taught courses at Irvine Valley and Saddleback College and has published numerous papers regarding the geology, stratigraphy, and tectonics of northwestern Baja California and southern California.

Job Opportunities

HYDROGEOLOGIST

BS or MS, experience in groundwater restoration programs desirable. Please send resume to:

Applied Environmental Services, Inc.
23113 Plaza Pointe Drive (Suite 100)
Laguna Hills, CA 92653

CLAY MINERALS SOCIETY MEETING IN SAN DIEGO

Clays and the environment will be one of the special symposia to be held September 27 - 30, 1993 in San Diego at the annual Clay Minerals Society meeting. Papers are being solicited that pertain to: 1) geotechnical properties of clays: liquefaction, role in landslides, earthquake effects, foundation stabilization, containment barriers, 2) clays and environmental contaminants: effect on contaminant transport, interaction with hazardous and toxic wastes, role in remediation and treatment, and 3) silica and silicates: their role in human and animal health. The deadline for abstracts is June 1, 1993.

Hydrothermal clays, industrial applications of clay minerals, and teaching clay mineralogy will be the subject of other symposia and special sessions. Other aspects of the mineralogy and physical and chemical properties of clays will be included in general sessions.

Further information regarding the meeting may be obtained by contacting Dr. Richard W. Berry, Department of Geological Sciences, San Diego State University, San Diego, CA 92182-0337, (619) 594-5586. Either Dr. Roger L. Burtner or Dr. Marion G. Reed should be contacted regarding contributions to the technical program. They can be contacted at Chevron Petroleum Technology Company, P.O. Box 446, La Habra, CA 0633-0446, (310) 694-7319.

SAGEEP ' 93

A symposium on the application of geophysics to environmental and engineering problems is being held on April 18 - 21, 1993 at the Town and Country Inn in San Diego, California. It is being sponsored by the Environmental and Engineering Geophysical Society (EEGS). Session themes include:

- Groundwater Exploration geophysics
- Regional Environmental geophysics
- Environmental law and geophysics
- Advances in Environmental and Engineering geophysics
- UST and drum search methods
- Road and bridge studies
- Specialized GPR studies
- Site Monitoring geophysics
- Mining remediation
- Image processing and others.

For information, please contact
R. Allan Payne
(818) 365-9371

Preparation of Engineering Geologic/ Seismic Reports for Hospital and School Sites in Calif.

Feb. 27, 1993 - All-Day Workshop
for Consultants

Tentative Agenda - See Registration Form in Newsletter

- I. **Introduction**
 - A. Welcoming Remarks and Announcements
 - B. Purpose and Overview of Workshop
- II. **Background/History**
 - A. Hospitals
 1. Hospital Facilities Seismic Safety Act/Health and Safety Code
 2. AB47 - OSHPD Review Process
 - B. Schools
 1. Field Act/Garrison Act/Education Code
 2. OSA Review Process
 3. Department of Education/CEQA Review Process
 - C. Essential Service Buildings
 1. Essential Services Buildings Seismic Safety Act.
 2. OSA Review Process
- III. **Code and Regulatory Requirements**
 - A. Title 24, California Code of Regulations
 1. Part 1, Administrative Regulations
 2. Part 2, California Building Code/Uniform Building Code
 - a. Chapter 23, Part III - Earthquake Design
 1. Section 2340 - Engineering Geologic Reports
 2. Section 2333 - Criteria Selection
 3. Section 2334 - Minimum Design Lateral Forces
 4. Section 2335 - Dynamic Lateral Force Procedures
 5. Table No. 32-J, Site Coefficients
 6. Figure No. 23-2A, Seismic Hazard Zone Map for Hospitals and Schools in California
 - b. Chapter 29 - Excavations, Foundations and Retaining Walls
 - B. Alquist Priolo Special Studies Zones Act
 - C. Seismic Hazards Mapping Act - Update
- IV. **General Review Considerations**
 - A. CDMG Note 42 - Guidelines to Geologic/Seismic Reports
 - B. CDMG Note 44 - Guidelines for Preparing Engineering Geologic Reports
 - C. Checklists for the Review of Geologic/Seismic Reports for Hospitals and Essential Services Buildings
 - D. CDMG Special Publication 42 - Guidelines for Evaluating the Hazard of Surface Fault Rupture
- V. **Site Specific Considerations**
 - A. Fault Rupture Hazard Evaluations
 1. Preliminary Planning
 2. On-Site Investigations
 - B. Slope Stability
 1. Preliminary Site Screening
 2. Quantitative Evaluation of Landslide Hazard
 - C. Liquefaction/Seismically-Induced Settlement
 1. Preliminary Reconnaissance Evaluations
 2. On-Site Analysis
 - D. Ground Motion Estimates
 1. Ground Motion Terminology/Definitions
 2. Strong Motion Data from Recent Earthquakes
 3. Deterministic Analyses
 4. Probabilistic Analyses
- VI. **Questions and Answers**

Chairman's Column

by Kelly E. Rowe

It sure is an unusual year for weather around the world. Some rainy season for us. We are over the average annual amount of rainfall, yet the season is only about 1/3 over. I suppose the Mount Pinatubo sulfur emissions from its long-term eruptions has had the effect on climate that was predicted by scientists last year.

The amount of water flowing in the Santa Ana River near my house is impressive and is continuing to flow at a pretty high rate. The other rivers in Southern California are undoubtedly flowing rather well also. It sure would be nice to see it recharge the groundwater basins rather than being dumped into the ocean. Hopefully basin operators are maximizing the amount of groundwater recharge to their basins and cause the water levels to rise to pre-drought conditions. One of the unusual aspects of rising groundwater is that contaminants that were left in the unsaturated zone as the water levels declined mix with the groundwater again, or for the first time, and show up in samples from shallow monitoring wells. Wells that became dry due to the drought are now wet again and groundwater remediation projects should be modified to cope with the new conditions.

Is anyone willing to bet on our getting over 225% of the average annual rainfall this year? If we get this much will we get 300 or 2,000% more homes being damaged or destroyed from slope movements this year? Or will we get 300 to 2,000% the average annual recharge to our basins? Or both? Call for negotiations on bets.

CDMG & AEG SCS Short Course 2/27/93 in Orange County

There are presently a total of about 25 people who have signed up for the EG Siting Hospitals and Schools Short Course. Our Section, in conjunction with the California Division of Mines & Geology, has prepared an all-day short course on Saturday, February 27th on the requirements for submitting engineering geology reports for siting hospitals and schools in California. The course will be held in a beautiful conference room at my office complex next to the John Wayne (Orange County) Airport. The tentative agenda for the meeting is squeezed in on the left side of this page.

It will cost \$65 for AEG members and \$90 for non-AEG members, including a course book, coffee, donuts & lunch. Continuing education units will be available for this course. Attendees can get a discount if they have an AEG membership application filled out along with an application check the day of the short course. A week before the course a flyer will be sent to attendees informing them of the exact time & location of the meeting and where to park. If you need additional information please feel free to give me a call. Space is limited to 35 more people.

Seven Oaks Dam Field Trip 1/16/93

Apologies to those of you who went out to the Seven Oaks Dam on Saturday the 16th to attend the canceled half-day field trip. The trip was canceled a week earlier due to the recent heavy rainfall left the dam site in sorry shape for visitors. Rick Garrison, U.S. Army Corps of Engineers resident engineering geologist at the dam, came to the January meeting and showed slides of the site and what would have been seen on the field trip if the weather was good. Rick said the rock and earth fill dam would probably be completed by 1998, so there is still plenty of time to schedule a field trip in the future. The next time will likely take place in April, after the rainy season.

April Meeting in San Fernando with Pres. Jeff Keaton

The April AEG meeting will be held in the San Fernando Valley, at a restaurant in the Mission Hills area. President Jeff Keaton, with SHB AGRA in Salt Lake City, will speak about the state of the Association and also about the Kern Pipeline Project. This large project was recently completed and involved the exploration of the alignment and the implementation of the design of a pipeline from Kern County, California to Wyoming.

The AEG meetings in the San Fernando Valley are more expensive than the Quiet Cannon Restaurant meeting location in Montebello. We will probably charge \$25.00/plate and still be short. Hey! Valley people, plan to come to the April meeting, or there won't be no mo!

The same fresh pitch as the last few months... We need new members and only you can help get people to fill-out and send in their application and sponsor forms. A few words of encouragement or threatening by you may help get it done.

GEOLOGISTS AND GEOPHYSICISTS BOARD ANNOUNCES NEW APPOINTMENTS

Sacramento - Howard "Buzz" Spellman, President of the Department of Consumer Affairs' Board of Registration for Geologists and Geophysicists, today announced the appointment of two distinguished and respected professionals to the Board.

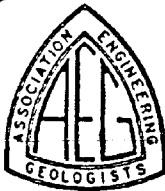
Governor Pete Wilson appointed Robert G. Lindblom, a petroleum geologist from Menlo Park. Mr. Lindblom received his bachelor's degree from the University of Chicago in 1950, and performed post-graduate work in geology and petroleum engineering. He has worked for Standard Oil Company and Chevron U.S.A., and currently is a lecturer at Stanford University.

"Mr. Lindblom is a uniquely qualified petroleum geologist who will help ensure that geological practices in the state are conducted safely and professionally," said Jim Conran, Director of the California Department of Consumer Affairs which oversees the Board.

Speaker of the Assembly Willie Brown made the second appointment to the board by choosing John H. Larson of Seal Beach to serve as a public member. Mr. Larson received his L.L.B. degree from U.S.C. in 1958, and served as counsel for Los Angeles County from 1973 to 1983. he was also appointed by Former Governor Deukmejian as chair of the Fair Political Practices Commission in 1986.

"It is always important to have a strong public voice on our board, and we welcome Mr. Larson to the exciting challenges that face the geologic profession," said the Board President, Mr. Spellman.

The Board of Registration for Geologists and Geophysicists is responsible for public safety by ensuring that its licensees properly evaluate building sites for faults, earthquake potential, erosion and landslide hazards, and ground subsidence. Additionally, geologists and engineering geologists develop safe drinking water from wells, and assist in implementing the State's "Clean Water Act" which helps minimize contaminants found in ground water.



Association of Engineering Geologists Southern California Section Short Course Information

Workshop for Consultants

Preparation and Review of Engineering Geology/Seismic Reports for Hospital and School Sites in California

Presented by the

*California Department of Conservation, Division of Mines and Geology
in cooperation with the
California Office of Statewide Health Planning and Development
and sponsored by the Association of Engineering Geologists*

CDMG/COSHPD/AEG Workshop *Registration Form*

Yes, I would like to participate in the workshop. (Circle the workshop you plan to attend.)

Southern California, February 27, 1993 Northern California, March 13, 1993

Name: _____ Phone: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Background (e.g., engineering geologist, geotechnical engineer, structural engineer, architect): _____

Amount enclosed: *AEG Member (\$65)* _____ *Non-AEG-Member (\$90)* _____

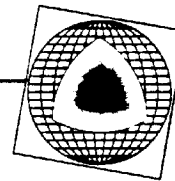
Make check or money order payable to the "Association of Engineering Geologists" and mail to appropriate coordinator:

AEG Southern California Section
Workshop Coordinator
Kelly E. Rowe (Phone 714-660-7676)
c/o URS Consultants, Inc.
4675 MacArthur Court, #850
Newport Beach, CA 92660

Ninth Thematic Conference

Geologic Remote Sensing

EXPLORATION, ENVIRONMENT, AND ENGINEERING
8-11 February 1993 Pasadena, California, USA



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You are invited to attend the Ninth Thematic Conference on Geologic Remote Sensing and to visit Pasadena, California, nestled at the base of the San Gabriel Mountains just 10 miles from downtown Los Angeles.

TECHNICAL PROGRAM

The conference theme is geologic remote sensing, with special emphasis on mineral and hydrocarbon exploration, and environmental and engineering applications. The industry-oriented technical program will include more than 300 plenary and interactive poster presentations by experts from 37 countries. Papers will address all aspects of geologic remote sensing—from fundamental principles and techniques to advanced data processing and geological interpretation. Specific topics will include:

- Active Faults and Geological Hazards
- Data Integration and Desktop Remote Sensing
- Energy and Mineral Exploration
- Environmental Applications
- Image Processing and Rectification
- Marine and Engineering Applications
- Petroleum Exploration
- Sensor Technologies
- Spectral Geology and Geobotany
- Structural and Stratigraphic Analysis

Three Special Sessions will provide further opportunity for information exchange:

- Remote Sensing Applications at Department of Energy Waste Sites
- The 1992 Southern California Earthquakes
- Global Environmental Change Research—Opportunities for Industry Participation

SPECIAL PROGRAMS

You can also take advantage of six hands-on workshops, three field trips tailored to the geology of southern California, an exhibits program, student program, employment referral service, and a social and guest program. Other optional events are visits to Disneyland, Universal Studios, the Rose Bowl, Hollywood, and the Beach Party Banquet.

For more information about the conference, exhibits and displays, and registration, please contact Nancy J. Wallman:

ERIM/Thematic Conferences
P.O. Box 134001
Ann Arbor, MI 48113-4001

Phone: 313-994-1200, ext. 3234
Fax: 313-994-5123
Telex: 4940991 ERIMARB

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
- 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
- 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
- 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

1992 NEW ADDITIONS

- 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
- Bulletin of the Association of Engineering Geology, Volume XX, Number 1. Contains "Geology of Long Beach, California". Limited Supply \$5.00
- Ebersold, D.B. Editor, October 10, 1992, Landers Earthquake of June 28, 1992, San Bernardino County, California Field Trip Guide. Limited Supply \$8.00
- Stout, M. L., Editor, 1992, Association of Engineering Geologists, Proceedings for the 35th Annual Meeting, October 2-9, 1992, Los Angeles, California. \$40.00
- 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 \$79.95 plus a special charge of \$5.00 shipping and handling.

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.



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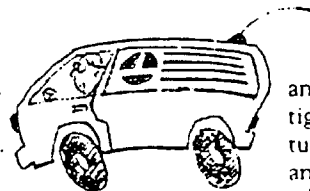
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Seminars/Meetings/Field Trips

February 1993

- 9 **AEG Southern California Section Meeting.** Quiet Cannon, Montebello. CONTACT URS (714) 660-7676
8-11 **Ninth Thematic Conference - Geologic Remote Sensing, Exploration, Environment, and Engineering,** Pasadena, California. CONTACT (313) 994-1200 EXT. 3234
27 **Preparation and Review of Engineering Geology/Seismic Reports for Hospital and School Sites in California.** Short Course. URS Consultants, Irvine, CA. CONTACT Kelly Rowe (714) 660-7676.

March 1993

- 13 **Preparation and Review of Engineering Geology/Seismic Reports for Hospital and School Sites in California.** Short Course, Northern California., CONTACT Kelly Rowe (714)660-7676.
17 **Joint Meeting Geotechnical Engineering Group/ASCE and AEG,** Steven's Steak House, City of Industry. CONTACT URS (714)660-7676
23-26 **Fundamentals of Ground-Water Monitoring and Sampling Technology: A Field Practice Course.** Tampa, FL. CONTACT (614) 792-0005
23-26 **Surface Geophysical Application to Ground Water Investigations,** Tampa, FL. CONTACT (614) 792-0006.

April 1993

- 13 **Southern California Section AEG Meeting,** Knollwood CC. CONTACT URS (174)660-7676

*JUST A REMINDER - YOU ARE IMPORTANT TO AEG
PLEASE RENEW YOUR AEG MEMBERSHIP NOW*

Kathleen R. Williams
AEG Newsletter Editor
c/o GeoResearch
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