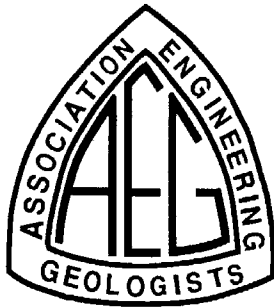


Association of Engineering Geologists

Southern California Section

NEWSLETTER - December 1989



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12 Issues/year-\$20 to "AEG"
(Full-time Students \$10/year)
(818) 965-4048
(818) 964-3702 FAX
c/o Geraghty & Miller, Inc.
Ground-Water Consultants
17800 Castleton Street, Suite 175
City of Industry, CA 91748
Amer. Geop. Union TELENET
KOSMOS Computer Mail
Username: KROWE

2550 Beverly Blvd.
Los Angeles, CA 90057

Dinner Meeting *Tuesday December 12th*

- The Quiet Cannon Restaurant
901 North Via San Clemente
Montebello
- Cost - \$20.00 (~~Full-Time Students - Free~~)
- For reservations call by December 8th
Charles Daughtery
(818) 796-3933 (Leave Message if Answering Machine)

Make reservations by Noon on the Friday before the Meeting

- 5:30 Social Hour
- 6:45 Dinner
- 7:30 Announcements
- 8:00 Program
- 9:00 Section Affairs

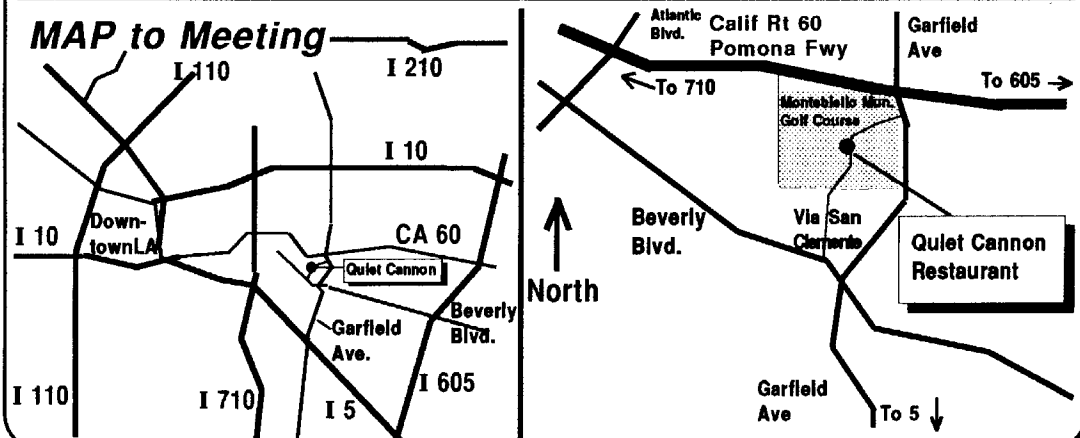


Program

TOPIC **Strategies for Reduction of Earthquake Induced Failures in Dredged Fills and Wharves**

SPEAKER **Mr. Fred Chen - President, MAA Engineering Consultants, Inc.**

Short Topic: Field Report #2: *The 7.1 Magnitude-Santa Cruz Earthquake.*



Program

Topic & Speaker Strategies for Reduction of Earthquake Induced Failures in Dredged Fills and Wharves

Fred Chen

Conventional Ground Improvement Methods, including displacement or cast-in-place sand-gravel piles, deep compaction, surcharging, compared with methods such as deep soil grout mixing, and varying placement methods to obtain higher initial densities. The relative effectiveness of these methods in reducing instability hazards will be discussed. Examples include work done in the Los Angeles harbor area.

Fred Chen is presently President of MAA Engineering Consultants, Inc., a geotechnical firm located in downtown Los Angeles. Fred has over 20 years of experience in construction, civil, and geotechnical engineering. He is a Professional Engineer and a Geotechnical Engineer. He received his M.S. from Stanford University and B.S. from National Cheng-Kung University, Taiwan.

THIS MONTH

December 1989



Kelly E. Rowe
Hydrogeologist

This month is the time for members to cope with less daylight in performing field work and driving in the vicinity of shopping centers. It does, however, encourage people to spend more time with their friends and relatives through parties and gift giving, and reminds us that another busy year has passed. Hope you all have happy holidays.

The program for this month's dinner meeting features **Fred Chen**, from **MAA Engineering Consultants, Inc.** Fred has promised to provide an interesting discussion on ground improvement methods, focusing on the engineering geology aspects of this work. He provided a similar talk to the ASCE last month. The December meeting will also feature/sidelight additional narratives of slides taken of the epicenter area after the **7.1 Magnitude Santa Cruz Earthquake (World Series Earthquake?) of 1989**. These slides were taken by **Leighton & Associates, Inc.** engineering geologists who were in the vicinity of the epicenter following the earthquake.

Last month **Woody Higdon (Geo-Tech Imagery Int.)** and **Jerry Treiman (CDMG - LA Office)** presented some slides and descriptions of their observations in the Bay area following the Santa Cruz Earthquake. **Woody** showed earthquake induced damage through many aerial and ground surface/building photos. **Woody**, incidentally, is also a helicopter pilot and said he was extremely frustrated in trying to get permission from the local authorities to fly the area to photograph the damage. This problem was apparently a jurisdictional squabble and had little to do with a dispute over **Woody's** scientific objectives. If he did have earlier permission, perhaps he would have shot 5,000 slides instead of his reported 2,500 slides taken during his 10 day stint. **Jerry**, however, focused on finding evidence of fault displacement, earthquake induced damage and slope movement features. Liquefaction damage appeared to be the main feature associated with both series of slides.

Last month **Dr. Osborne** provided insight to the ongoing sedimentological studies on the beaches in Orange and San Diego Counties. Submarine canyons do not necessarily drain all of the sand that is transported along the shore. Much of the sand is shifted back and forth during the year as the surf energy changes.

A meeting of the new 1989-90 AEG Southern California Section officers took place before the November meeting to discuss potential changes to the section's operation for the upcoming year. Some of the changes are as follows:

- Strongly encourage participation of interested students in engineering geology. This will be accomplished through 1) a \$10/ year fee for full-time students for the newsletter and 2) free dinners for full-time students at the monthly meetings. Members should actively invite students to come to the meetings, free of charge. We need to encourage bright and potentially bright students to get into the interesting and rewarding field of engineering geology rather than other less fun professions.
- Encourage participation of members who are reluctant or unable to come to the Montebello restaurant location for the monthly meetings. This will be accomplished through 1) a meeting located in the Mission Viejo area in May, and 2) a meeting located in the northern San Fernando Valley area in September. If anyone has suggestions on suitable meeting locations for these events please call **Eldon Gath (714)598-2856**.

Continued on page 3

Bob Hollingsworth reports that an ordinance amendment to Title 26 (Building Code) of the Los Angeles County code is presently under consideration. The proposed revisions were apparently prepared by members of the County Engineering Division without input from the Geology Section. *The ordinance was up for final review before members of AEG became aware of its existence.*

The proposed changes included revisions in the definition of Geologists and Engineering Geologists, as well as a reduction in our required input for construction projects. A response to the proposed changes was prepared on behalf of the AEG by **Bob Hollingsworth and Hugh Robertson.** Additional letters were solicited and received from AEG members. Members should feel free to write to the County their opinions about how this ordinance should be implemented to protect the public welfare.

We understand, from county geology personnel, that our suggested revisions and their input are currently under consideration. This situation will be monitored and reported on in future newsletters.

The steering committee for the 1992 Annual Meeting met for the fourth time on November 16, 1989. During this meeting the field trip schedule was finalized and suggestions for technical sessions and symposia were discussed. In addition, plans were also discussed for composing a "Special Publication: Engineering Geology in Southern California - Volume II", similar to the 1966 and 1973 special publications. This new volume will encapsulate state-of-the-science work and will be printed by August 1992, to compliment the October 1992 Meeting.

Response has been good to the section's request for corporate sponsorship of the lobbyist. Some of the money collected will be used to increase student participation in AEG. Additional contributions from other firms will be greatly appreciated.

Allan E. Seward Engineering Geology, Inc.
Buena Engineers, Inc
Earth Technology Corporation
Emcon Associates
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Geosoils
Geolabs, Inc. - Westlake Village
Geoplan, Inc.
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Leighton & Associates, Inc. - Irvine
LeRoy Crandall & Associates
Lockwood-Singh
MAA Engineering Consultants
Mountain Geology
Nolte & Associates
Robertson Geotechnical
South Coast Geological Services
Zeiser Geotechnical

Congratulations to AEG Southern California Section members who were successful in passing the 1988 State Board exams for geologists and engineering geologists. Although they found out they passed earlier this year, the state's list was not brought to our attention until recently.

Geologist

Steve Bradley
Joseph Cota
Steven T. Griswald
Mark I. Miller
James P. Quinn
Eugenia M. Sangines
Mark B. Schluter

Christopher J. Sexton
Steven Suitt
Ed Trospen
Mark R. Wood

Engineering Geologist

Adonis B. Esmilla

Steven T. Griswald
Rodney H. Nelson
Clifford R. Pollock
Bruce Schell
Mark B. Schluter
Donn C. Schwartzkopf
Christopher J. Sexton
Steven Suitt
Chris Wills

The Allegheny-Ohio Section of AEG is hosting the next annual meeting. It is planned to be held in Pittsburgh, Pennsylvania on October 1 to 5, 1990. The theme is "Engineering Geology for the 90's". The program will focus on mine subsidence, slope stability, dams, karst, erosion, and ground water, with emphasis on new technology and rehabilitation of existing facilities. Sessions are being planned in the following areas:

- Dam Foundations and Rehabilitation
- Applying Computers to Landslide Problems
- Rock Slopes
- River and Lakeshore Stability and Erosion
- Hydrogeology/Hazardous Waste
- Problems of Appalachian Geology

If you are interested in submitting abstracts for this meeting contact the Technical Program Chairman, Richard E. Gray, GAI Consultants, Inc., 570 Beatty Road, Monroeville, PA 15146 (412) 856-6550. The "Call For Papers" notice states that abstracts (250 words or less) should be submitted by December 31, 1989.

You may notice that the last page of the newsletter advertises for you to renew your annual fees. The newsletter, from December to February, will be sent out to all International AEG members listed in the Southern California Section to encourage that they participate locally. Please note that your local section fees operate the section's activities and the annual fees to International AEG do not help operate the section. Therefore, based upon the response we get from the returned mail you will simply be on or off the newsletter mailing list. In the interest of saving printing & postage costs you will not get an invoice notifying you of your renewal opportunity. If you have any questions about getting onto the mailing list feel free to call the Secretary/Newsletter Editor.

Positions Available

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

Career Opportunities For Hydrogeologists, Geologists & Environmental Engineers

Opening are available for staff level (1-4 yrs experience) Hydrogeologists, Geologists, and for senior level Environmental Engineers. Openings are available in the City of Industry office and the soon to be expanded 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.

Call (818) 965-4048 or send resume to: Geraghty & Miller, Inc.
Attention: N. Thomas Sheahan
17800 Castleton St. #175
City of Industry, CA 91748

Career Opportunity For Engineering Geologists

Immediate opening available for entry level to senior level engineering geologists for Sunnyvale, California office. California CEG registration desirable for project and senior positions. The key position will be responsible for landslide investigation, slope stability and geological hazards for a major earth-moving project. Salary is negotiable and is commensurate with experience.

Call (415) 934-0260 or send resume to: Kleinfelder, Inc.
Attention: Stu Pike
2121 N. California Blvd., #570
Walnut Creek, CA 94596

Career Opportunity For Geotechnical Engineers

Immediate opening available for entry level to senior level geotechnical engineers, Project to Senior level geotechnical engineers, and Project to Senior level engineering geologists for its southern California offices. M.S. degrees preferred. California registration desirable for project and senior positions. Excellent communication skills required.

Send resume to:
Schaefer Dixon Associates, Inc.
Attention: A. M. Best
22 Mauchly
Irvine, CA 92718

Career Opportunity For Hydrogeologist

Immediate opening available for a Hydrogeologist - Groundwater Resources Manager. Requirements: 5-10 years diverse professional experience in groundwater studies, B.S. in geology or hydrology; mathematical modeling experience desirable; and excellent technical and communication skills. Responsible for but not limited to: collection, modeling and analysis of hydrologic data, development and operation, and short- and long-range master plans for groundwater quantity and quality protection. Salary \$45,000/yr, but is negotiable and is commensurate with experience DOQ/DOE.

Call (805) 525-4431 or send resume to: United Water Conservation District
Attention: Frederick J. Gientke
General Manager
725 E. Main Street
Santa Paula, CA 93060

Seminars/Meetings/Field Trips

DECEMBER 1989

2-5 "California Groundwater Association Convention" at , San Diego, California Groundwater Association, P.O. Box 14369, Santa Rosa, CA 95402-6369 CONTACT (707)578-4408.

3-9 "American Geophysical Union - Annual Meeting " San Francisco.

6-7 "Elsinore Fault in the Coyote Mtns., Lake Cahuilla, Yuha Desert, and the Superstition Mtns. and Coyote Creek faults" Friends of the Pleistocene 1990 field trip. CONTACT: Dr. Tom Rockwell (619)558-6159.

18 "Hazardous Waste Management Regulations" at , Los Angeles, Environmental Resource Center.

19 "Current SARA III & OSHA Regulations" at , Los Angeles, Environmental Resource Center.

JANUARY 1990

7-12 "IBM PC Applications in Ground Water Pollution and Hydrology: A Hands-On Short Course" Dublin, OH. Assoc. of Ground Water Scientists and Engineers (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.

FEBRUARY 1990

1-3 "International Symposium on Borehole Geophysics for Petroleum, Hydrogeology, Mining, and Geological Engineering Applications" Tucson, AZ. CONTACT: Dept. of Mining & Geological Engineering, University of Arizona, Tucson, AZ 85721.

4-9 "Operation Precipitation Estimation & Prediction (In conjunction with 70th Annual AMS Meeting)." Anaheim, CA. CONTACT: Dr. Constantine P. Georgakakos, Iowa Inst. of Hydraulic Research, The University of Iowa, Iowa City, IA 52242 (319) 335-5222.

12-16 "Groundwater Pollution and Hydrology" San Francisco, CA. CONTACT: Groundwater Associates of Princeton, Omni Environmental Corp., The Princeton Corporate Center, 3 Independence Way, Princeton, NJ 08540 (609)243-9399

MARCH 1990

12-15 "3rd Annual Symposium on Application of Geophysics to Engineering and Environmental Problems (SAGEEP '90)." Colorado School of Mines, Golden. CONTACT: Sageep '90. c/o Colorado ARC Enterprises, Ltd., 133 S. Van Gordon, Suite 200, Lakewood, CO 80228 (303-980-1648

APRIL 1990

8-12 "High Level Radioactive Waste Management" CONTACT: ASCE.

22 "EARTH DAY - 20 YEARS LATER", at locations throughout the U.S. and around the world. Theme: What has happened over the last 20 years and what direction are we going to preserve and improve our living space.

JUNE 1990

21-22 "International Symposium on Mapping & Geographic Information Systems" San Francisco, CA CONTACT: A. Ivan Johnson, A. Ivan Johnson, Inc., 7474 Upham CT. Arvada, CO 80003 (303)425-5610.

AUGUST 1990

12-15 "CONSERV 90: The National Conference and Exposition Focusing on Water Supply Solutions for the 1990s." Phoenix, AZ CONTACT: Conserve 90, 6375 Riverside Dr., Dublin, OH 43017 (614)761-1711

12-17 "IBM PC Applications in Ground Water Pollution and Hydrology: A Hands-On Short Course" Dublin, OH. Assoc. of Ground Water Scientists and Engineers (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.

Coast Geological Society: Dinner meetings every third Tuesday of the month, October-June; American Legion Hall, 83 S. Palm St., Ventura, CA.

Los Angeles Basin Geological Society: Lunch meetings third Thursday of every month; now at Luminarias Restaurant, Monterey Park, CA

Northern California Geological Society: Lunch meetings monthly by announcement, San Ramon, CA

San Joaquin Geological Society: Dinner meeting second Tuesday of every month except July-September, American Legion Hall, 2020 "H" Street, Bakersfield, CA

South Coast Geological Society, Inc.: Dinner Meetings first Monday of each month, Revere House, 900 West First Street, Tustin, CA

Inland Geological Society: Dinner Meeting third Thursday of each month, San Bernardino County Museum, Orangetree, Redlands, CA

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It's Time to Renew Your Annual Fees for the AEG Southern California Section.

Your annual fees to AEG International do not include the Section fees. The \$20.00 fee covers the operation of the section through publishing & mailing the monthly newsletter, paying for expenses of program speakers, meals for students at meetings, and the expense of our lobbyist in Sacramento.

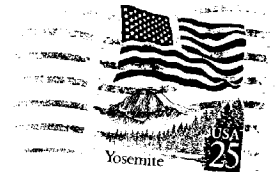
You will not receive an invoice for renewal other than the notice located here. This notice will be printed here for the December, January and February issues. You will notice on your mailing label, to the right of your name, the month and year when your fees will be due. Past this date you will no longer receive copies of the section newsletter. You can ignore this notice if you made the effort of renewing. Members are, however, encouraged to participate at any time of the year.

To renew, send a check in the amount of \$20.00 made out to "AEG" or "Association of Engineering Geologists" to the Section Secretary/Newsletter Editor at the address below. Please note any change of address on the mailing label below or the form to the right.

Name _____ Phone _____
School or _____
Company _____ Fax _____
Address _____
City _____ State _____ Zip _____
_____ Preferred Mailing Address _____

Kelly E. Rowe

AEG Secretary/Newsletter Editor
c/o Geraghty & Miller, Inc.
17800 Castleton Street, Suite 175
City of Industry, CA 91748



Merry Christmas & Happy New Year