



SOUTHERN • CALIFORNIA • SECTION  
**NEWSLETTER**

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**DINNER MEETING**

<>Tuesday, April 14, 1987

<>Stevens Steak House  
5332 Stevens Place  
Commerce, California  
(T.G. 53 F2)

<>\$14.00 (Includes Tip)

<>For Reservations, call:

Richard Brose  
818-243-4140

PLEASE MAKE RESERVATIONS BY NOON ON  
THE FRIDAY PRIOR TO THE MEETING.

<>5:30 Social Hour

6:30 Short Topic

Merv Johnson will describe the  
geologic problems in constructing  
the Third Street Tunnel.

6:45 Dinner

7:30 Announcements

8:00 Speaker

9:00 Section Affairs

**SPEAKER & TOPIC**

Clarence R. Allen, Ph.D.  
Professor of Geology and Geophysics  
California Institute of Technology

"THE PROBLEM OF RESERVOIR-INDUCED EARTHQUAKES"

(For complete summary of Dr. Allen's  
presentation--described by Don Lamar as  
"Another whiz-bang talk"--see page 2)

## The Problem of Reservoir-Induced Earthquakes

There can be no question that the filling of some reservoirs has triggered local seismic activity, although debates continue concerning the cause-and-effect relationship of some of the larger events, such as the 1975 Oroville earthquake. Some critical questions are: Can a geologist or seismologist recognize areas where triggered events are particularly likely or unlikely? Can one postulate a reservoir-induced event that is larger than the maximum credible naturally-occurring event? How likely is surface fault displacement during triggered events? What maximum magnitudes should be assumed for reservoir-induced events? Can the problem be mitigated by controlling the way in which a reservoir is first filled? How can one convince skeptical engineers or dam owners that the problem is real--or is it?

## ANNOUNCEMENTS

### FROM THE CHAIRMAN

The March meeting was held jointly with the AEG Southern California Section and the ASCE Geotechnical Group. Attendees were treated to a very informative discussion of natural disasters, presented by Dr. C. Barry Raleigh, Director of the Lamont-Doherty Geological Observatory. Dr. Raleigh talked about the difficulties of earthquake prediction. He then shifted to predicting the occurrence of El Nino, the disastrous weather phenomenon which has worldwide implications. Finally, he discussed the implications of increasing the CO<sub>2</sub> content of the atmosphere and the possible future effects of the warming trend that it has created. Even if his information is only half correct, it is almost unbelievable to contemplate a three meter rise in sea level due to melting of the polar ice.

Chairman Byer announced that those section members who have not paid their 1987 mailing fee will be dropped from the mailing list following receipt of the April newsletter. To the best of our accounting ability, we have identified those who have not paid and have listed them elsewhere in this newsletter. If your name is on the list and you have paid your fee, please call the Treasurer, Richard Brose, at (818) 243-4140.

Ted Maynard, AEG President, has responded to our request to hold the 1992 Annual Meeting in Southern California. This is a vote item which requires approval of the Executive Council as well as the Board of Directors. A vote will be taken at the Board Meeting in April in Denver. Mr. Maynard indicates that he enthusiastically supports our request.

Anyone wishing to submit papers to the 1987 Spring Field Trip is encouraged to do so as soon as possible. The theme of the trip is "Unrecognized Geologic Hazards." The trip will visit several sites in the Santa Monica Mountains and will spend the afternoon looking at the geology of Potrero Canyon Park. Send papers to: John Byer, Kovacs-Byer & Associates, 11430 Ventura Blvd., Studio City, CA 91604.



City of Palmdale Geologic Hazards Seminar  
Saturday, May 2, 1987

Engineering Geologists interested in seismic and other geologic hazards of the Palmdale area are invited to attend a special seminar devoted to methods of investigation and guidelines for engineering geology reports submitted to the City of Palmdale. The morning session will be conducted in the banquet room of the Firehouse Restaurant, 1643 East Palmdale Blvd, City of Palmdale, followed by a visit to Kerry Sieh's famous Pallett Creek trenches across the San Andreas fault and excavations illustrating principles of soil stratigraphy and dating for seismic hazards studies under the direction of Roy Schlemmon. The cost is \$180 and will include a proceedings volume, lunch and refreshments. Paid attendance will be limited to the first 35 who apply. If you have any questions or wish a detailed schedule and application form, contact Donald Lamar (213) 395-4528. If you don't want to miss out, rush check payable to Donald Lamar to: Palmdale Geologic Hazards Seminar, c/o Donald Lamar, 1318 Second Street #25, Santa Monica, CA 90401.

# LOOK!

BELOW IS A LIST OF PEOPLE WHO RICHARD BROSE, THE SOUTHERN CALIFORNIA SECTION TREASURER, REPORTS HAVE NOT PAID THEIR 1987 LOCAL FEES. Everyone on this list will be dropped from the mailing list after they receive the April newsletter--unless they use the appropriate, enclosed renewal form to send their check to the Treasurer. If the Treasurer has listed your name in error, PLEASE CALL HIM--Richard Brose at (818) 243-4140 PLEASE NOTE THAT THE LIST WAS TYPED JUST AS PRODUCED BY THE COMPUTER AND THAT NAMES ARE NOT IN ALPHABETICAL ORDER AT THE BEGINNING AND END OF THE LIST.

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1987  
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Form

Name

Address

Mail to:

RICHARD BROSE

AEG Section Treasurer

LeRoy Crandall & Associates

900 Grand Central Avenue

Glendale, CA 91201

STUDENT

Yes[ ] No[ ]

## POSITIONS AVAILABLE

GEOFON, Inc. has immediate and upcoming openings for technicians in the San Diego, Orange County, and Los Angeles areas. The firm provides geotechnical services for a wide variety of projects, including port and harbor facilities, commercial/industrial developments, and water supply projects. Candidates should have one to three years of field inspection and testing experience. Call or send resume: GEOFON, Inc., 5552 Cerritos Avenue, Suite B, Cypress, CA 90630, Attn: Byron Konstantinidis (714) 220-2777 or (213) 926-7582.

GEOFON, Inc. has an opening for a Senior or Principal Geologist. The firm provides geotechnical services for a wide variety of projects, including port and harbor facilities, commercial and industrial developments, water supply projects (dams, reservoirs, pumping stations, pipelines), as well as electric power projects. Candidates should have seven to ten years geotechnical consulting experience, good communication skills, and must be a registered geologist or certified engineering geologist. A graduate degree in geology and experience with hazardous waste projects is preferred. Send resume to: GEOFON, Inc., 5552 Cerritos Avenue, Suite B, Cypress, CA 90630, Attn: Byron Konstantinidis (714) 220-2777 or (213) 926-7582.

## DEADLINES

Below is a schedule of deadlines for information to be included in the newsletter. They are the dates by which the material must be RECEIVED BY THE EDITOR.

May Newsletter.....APR 23  
June Newsletter.....MAY 21  
July Newsletter.....JUNE 25  
August Newsletter.....JULY 23  
September Newsletter.....AUG 20  
October Newsletter.....SEPT 18

## MEMBER NEWS

DR. JOHN H. FOSTER joined Schaefer Dixon Associates on April 6, 1987, as an Associate. He will be based in Orange County and will be in charge of SDA's environmental department.

## FOR YOUR INFORMATION

The Branner Club invites interested persons to attend their April meeting: Tuesday, April 21; at The Athanaeum, Cal Tech, Pasadena; 6 p.m. cocktails, 7 p.m. dinner and 8 p.m. meeting & lecture. The speaker will be Dr. Clarence Allen of Cal Tech whose topic will be "Seismic Studies in Tibet." For reservations (absolutely necessary) or to add your name to the mailing list, contact: Joan Jensen (818) 243-4140.

Richard Merker, a Southern California Section member, has informed me that he has for sale several lithographs of interest to geologists, produced when John Wesley Powell was director of USGS. It is a complete set, unbound, and includes a table of contents. Interested persons should call Richard for details at: 714 835-0443.

### SECTION MAILING LIST REQUEST AND FEE

IF YOU ARE AN AEG MEMBER AND WOULD LIKE TO RECEIVE SOUTHERN CALIFORNIA SECTION MAILINGS, PLEASE COMPLETE THE FOLLOWING FORM AND MAIL IT WITH A CHECK FOR THE APPROPRIATE AMOUNT TO THE ADDRESS INDICATED.

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mailing address

( )

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Make check payable to Southern California Section, AEG.

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AEG Section Treasurer  
LeRoy Crandall & Associates  
900 Grand Central Avenue  
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