

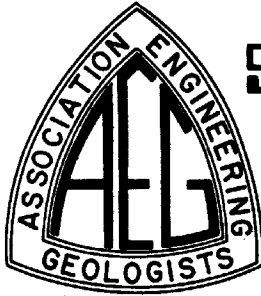
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# SOUTHERN CALIFORNIA SECTION

# news letter

2550 BEVERLY BOULEVARD, LOS ANGELES, CALIFORNIA 90057

C/O KOVACS-BYER-ROBERTSON  
22837 Pacific Coast Highway  
Malibu, CA 90265

## MARCH MEETING

Joint Meeting: AEG and ASCE

**DATE:** March 17, 1982 Wednesday

**SPEAKER:** Art Darrow and Wolfgang Roth, Dames & Moore

**SUBJECT:** Geomechanical Evaluation of Potential Ground Rupture due to Faulting.

Dames and Moore recently conducted a seismic evaluation for a proposed major energy processing plant on the southern California coast. Advanced physical (centrifuge) and numerical modeling techniques were utilized to complement geological studies. The objective was to evaluate the potential for ground rupture due to near surface faulting in a folded shale formation.

**PLACE:** Steven's Steak House  
5332 Stevens Place  
Commerce

**COST:** \$12.00

**RESERVATIONS:** Jim Van Beveren  
(213) 413-3550

**TIME:** 5:30 - Social Hour  
6:30 - Dinner  
7:30 - Program

**ATTENTION, ATTENTION, ATTENTION!!** ALL RESERVATIONS ARE REQUIRED BY 11:00am THE PRECEDING MONDAY MORNING. WE MUST HAVE RESERVATIONS TO GIVE THE RESTAURANT AN ESTIMATE OF THE NUMBER OF DINNERS. IF THE ESTIMATE IS WRONG, THE SECTION WILL EITHER PAY FOR DINNERS NOT CONSUMED OR SOME MEMBERS WON'T EAT.

## SAN DIEGO ANNUAL MEETING

DENNIS HANNAN is holding a planning meeting at 5:00 at Steven's Steak House on Wednesday before the scheduled monthly section meeting. The purpose of the meeting is to prepare for the future annual meeting in San Diego. All interested members are urged to bring their ideas and energy to the meeting on Wednesday. DENNIS is scheduling planning meetings prior to each monthly section meeting.

### SPONSOR A STUDENT

In January, the Section began a program which sponsored student attendance at AEG meetings by company donations. A request for funding generated good response with the following companies agreeing to sponsor students on a monthly basis:

Ertec Western (2 students)  
Geotechnical Consultants, Inc.  
Kovacs-Byer-Robertson, Inc.  
Lamar-Merifield  
Leighton and Assoc.  
Medall, Aragon, Worswick and Assoc.  
Moore and Tabor  
Rasmussen and Assoc.  
Woodward-Clyde Consultants

Thanks to all of you. Student response hasn't been as good. We had 4 students take advantage of this opportunity in January, and only 3 in February. Notices were sent to all local colleges and universities. If you are involved with students, please help to publicize this program. If you or your company would like to be involved helping students become engineering geologists, please contact Denise Pieratti at Ertec (213-595-6611).

### THANK YOU FROM CSULA

The following was submitted by MIKE COOK, Chairman of the AEG Student Chapter of Cal. State University L.A.

"On behalf of the Student Chapter of AEG at C.S.U.L.A. I would like to thank all the businesses participating in student sponsorship to the monthly AEG meetings. I would also like to thank Denise Pieratti for initiating the program and contacting consulting firms. It is hoped that through this program a better student-business communication will be established, benefiting all who participate."

### GEOTECHNICAL SEMINAR

The ASCE Geotechnical Group is sponsoring an afternoon seminar on April 7, 1982 titled "Geological Interrelationships with Geotechnical Engineering". The speaker will be DR. ROBERT F. LEGGET. The seminar will be held at the Queen Mary in Long Beach between 1:30 and 5:00. A social hour dinner and evening presentation will follow. For reservations and information call JIM VAN BEVEREN (213-413-3550) or RUDY PACAL (213-889-2137).

### PROFESSIONAL PRACTICE

The Professional Practice Guidelines publication is available, according to GLEN BROWN, at Lake Grove Printers, 17394 Southwest Boones Ferry Road, Lake Oswego, Ore. 97034 at \$15.00 (which supposedly includes tax and postage).

### FINAL DUES NOTICE

Dues are past due and members who have not paid by the end of March will be removed from the mailing list. Section dues are \$10.00 per calendar year (\$3.00 student members) and should be mailed to DENISE D. Pieratti c/o Ertec Westerns Inc. 3777 Long Beach Blvd., Long Beach, 90807

## BOARD OF REGISTRATION

The BOARD plans to make changes in Section 7860 of the Code which would add regulations specifying that a registered geologist or geophysicist may practice only in the field or fields in which he or she is by education and/or experience fully competent and proficient.

An attempt will be made to amend the new fee schedule adopted by the board to one of the existing geology bills now in the Senate. The new fee schedule is as follows. Note that these fees are maximum ceilings for fees.

1. The fee for filing each application for registration as a geologist or a geophysicist or as a specialty geologist or a specialty geophysicist at not more than \$60.00.
2. The registration fee and the certification fee shall be fixed at an amount equal to the renewal fee in effect on the last regular renewal date before the date on which the certificate is issued.
3. The duplicate certificate fee at not more than \$10.00.
4. The temporary registration fee for a geologist or for a geophysicist at not more than \$200.00.
5. The renewal fee for a geologist or for a geophysicist shall be not more than \$100.00.
6. The renewal fee for a specialty geologist or for a specialty geophysicist shall be not more than \$80.00.

The Board has voted unanimously to seek legislation to repeal Sections 7847.5 and 7847.6 of the ACT. This will mean that everyone would be required to take the examination in order to be licensed in California. Comments should be received by the Board prior to March 10, 1982.

The Board has requested that the AEG study manual committee work with the Boards Examination Committee headed by CHUCK ARMSTRONG in developing a study manual which does not contain exact exam questions. The Board has voiced concern that if all the questions from the question pool are published, it will jeopardize the effectiveness of the exam. In addition AEG members are encouraged to submit questions for the upcoming exams.

### CALIFORNIA SECTION - AMERICAN WATER RESOURCES ASSOCIATION

RICHARD CLEMNER, Principle Engineer with Metropolitan Water District of southern California will be speaking on "The Peripheral Canal and the 'New' Alternative". The presentation will be on Wednesday, March 24, 1982 at the Velvet Turtle Restaurant in Long Beach (530 E. 33rd. St.). Social hour begins at 5:30 with dinner at 6:30 and the speaker following at 7:30. The cost is \$11.00. For reservations, call RIC NOTINI or MIKE OSBURN at (213) 595-6611 by March 9, 1982.

### NEWS OF MEMBERS

MARK E. BRYANT has been promoted to senior geologist for Converse Consultants. He will be supervising geologic staff throughout southern California working out of the Anaheim office.

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"Quotes from JAMES PATTON, February speaker:

Litigants don't want justice....they want dollars.

The purpose of the laws is to protect fools from their own stupidity.

## ENTRY INTO UNCASSED SHAFTS

JOE COBARRUBIAS has submitted the following proposed revisions and additions to the State Construction Safety Orders concerning uncased exploration shafts. These revisions are unofficial and are awaiting the final editing of the Board of Occupational Safety and Health Standard Staff. The road to final approval will take approximately 7 months during which time a public hearing will be held. AEG, ASCE and SAFE members should plan to attend and make their feelings known.

Proposed State Construction Safety Orders - Revisions and Additions Re: Entry of Uncased Exploration Shafts, State Construction Safety Orders Title 8, Section 9504 (#11) Excavations, Trenches, Earthwork

(F) Exploration Shaft: A circular shaft created and used for the purpose of obtaining subsurface data. ( ) Geotechnical Specialties: A person registered by the State...as a Certified Engineering Geologist; a Registered Civil Engineer; or an engineering geologist or civil engineer with a minimum 3 years applicable experience working under the direct supervision of either a Certified Engineering Geologist or Registered Civil Engineer. "Section 1542 (a) Shafts-General. Except as permitted in Section 1542 (f), all wells or shafts over 5 feet in depth shall be retained with lagging, spiling, or casing." "Section 1542 (f) Exploration Shafts. Only a Geotechnical Specialist may enter an uncased and unlagged exploration shaft, under the following conditions:

- (1) Initial Inspection. The type of materials and stability characteristics of the shaft shall be personally observed and recorded by the Geotechnical Specialist. Potentially unsafe exploration shafts shall not be entered.
- (2) Surface Casing. The upper portion of the exploration shaft shall be equipped with a surface ring-collar to provide casing support of the material within the upper 4 feet of the exploration shaft. The ring-collar shall extend at least 1 foot above the ground surface.
- (3) Prior to entry and while working within the exploration shaft, test for oxygen deficiency and the presence of combustible and dangerous gases shall be made. (See Article 108, Confined Spaces of the General Industry Safety Orders) (Tri-testor;  $H_2S$ ,  $O_2$ , +methane)
- (4) Unstable Local Conditions. The Geotechnical Specialist shall not descend below any portion of any exploration shaft where caving or ground water seepage is noted or suspected.
- (5) Safety Lines. A secured safety line capable of supporting a minimum weight of 5400 pounds and extending the full length of the shaft shall be provided during the inspection. (2/3" Manila Rope).
- (6) Ladder and Cable Descents. A ladder may be used to inspect exploration shafts 20 feet or less in depth. In deeper exploration shafts, mechanical hoisting devices with a SF=6 shall be provided and used. Such devices shall be under positive control of the operator by being positive power up and down with fail-safe brakes.
- (7) Standby Employee. An emergency standby employee shall be positioned at the exploration shaft whenever a Geotechnical Specialist is inside the shaft.
- (8) Communication. A two-way, electrically operated communication system shall be in operation between the standby employee and the Geotechnical Consultant whenever inspections are being made in exploration shafts over 20 feet in depth or when ambient noise levels make communications difficult.
- (9) Safety Equipment. a. An approved safety harness, which will suspend the Geotechnical Specialist in an upright position, securely attached to the hoist cable. b. A 12 to 18 inch diameter steel cone-shaped headguard deflector shall be attached to the hoist cable above the harness. The hoist line shall have a minimum diameter of 5/16 inches (SF=6). c. Approved head protection shall be worn at all times during downhole inspection (See Section 1515) (Product approval by "ANSI Testing"). d. Only approved electric lighting (ANSI Approval).
- (10) Surface Hazards. The storage and use of flammable or other dangerous materials shall be controlled at the surface to prevent the entrance of harmful vapors and gases into the exploration shafts."

FOOD FOR THOUGHT

"If you ask enough people, you usually can find somebody who'll advise you to do what you were going to do anyway".

"Between the great things that we cannot do and the small things we will not do, the danger is that we shall do nothing" Adolph Monod

"Total absence of problems would be the beginning of death for a society or an individual. We aren't constructed to live in that kind of world. We are problem - solvers by nature, problem - seekers, problem requirers".

John W. Gardner

U. S. GEOLOGICAL SURVEY

Professional Paper 1214: Raymond quadrangle, Madera and Mariposa Counties, CALIF.-- Analytic data, by P. C. Bateman and W. N. Sawka \$2.00

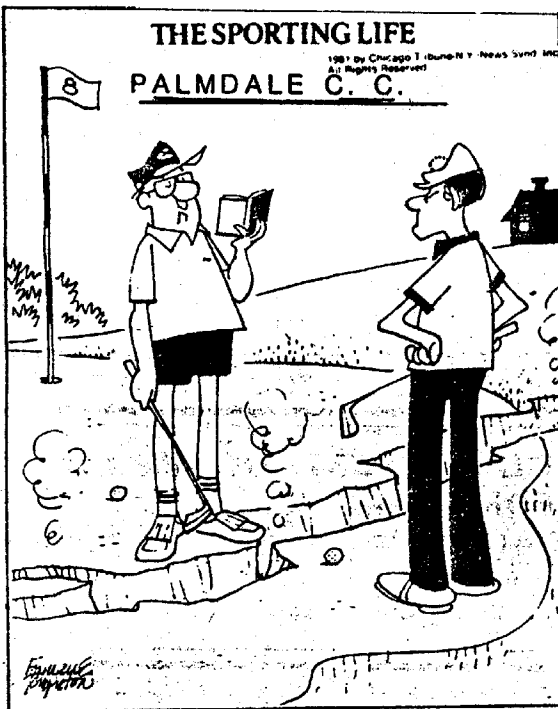
P 1223: Seismic intensities of earthquakes of conterminous United States--Their prediction and interpretation, by J. F. Evernden, W. M. Kohler and G. D. Clow. \$8.00

C 850-I: Emergency assessment of Mount St. Helens post-eruption flood hazards Toutle and Cowlitz Rivers, Washington, by M. E. Jennings, V. R. Schneider and P. E. Smith. free

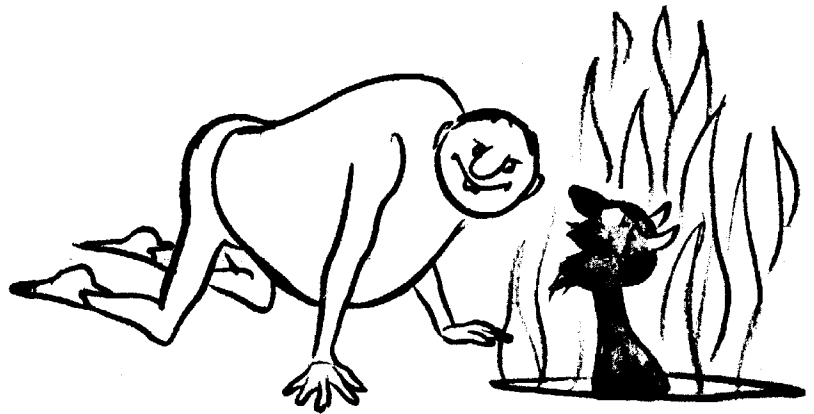
MAPS:

GP 932: Map showing aeromagnetic anomalies, faults, earthquake epicenters, and igneous rocks in the southern San Francisco Bay region, California, by E. E. Brabb and W. F. Hanna. \$6.00

FRIVOLITY



Sorry, Benson, but the rules don't say anything about getting relief from earthquake damage.



Altho geologists know that it is very hot at the center of the earth, they do not know exactly how hot. Only bad people know for sure.

LINKLETTER

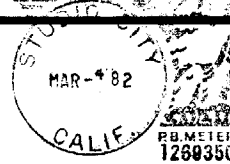
Quotes from "A Childs Garden of Misinformation" by Art Linkletter, "Rocks is what you call everything you don't know the exact name for". "When a landslide is in slow motion, you better not be".

JAMES R. MILLER  
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