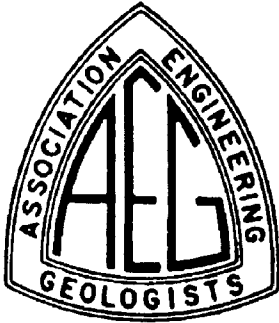


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Southern California Section **NEWSLETTER- July 1992**

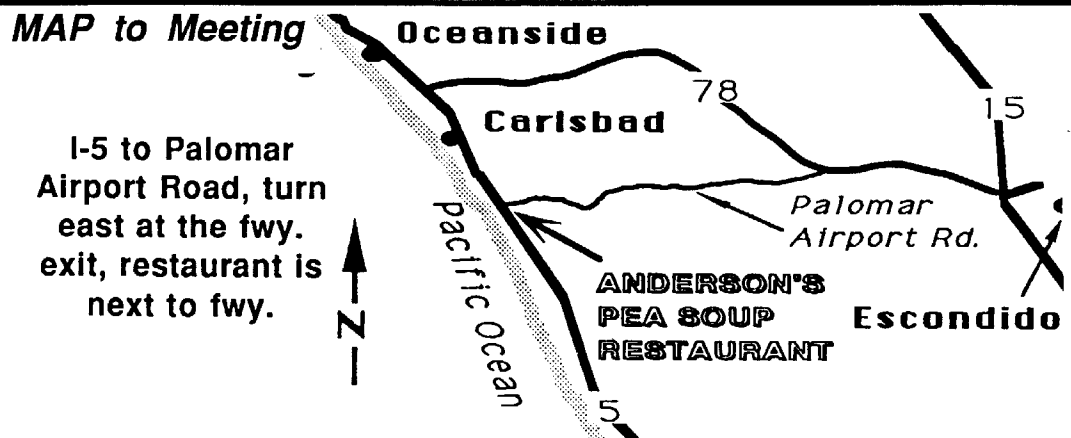
Dinner Meeting *Wednesday, July 15th*

- Pea Soup Andersen's
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- Cost - \$20.00 (Full-Time Students - Free)
- Make reservations by Friday July 10th!!!
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- 5:30 Social Hour
- 7:00 Dinner
- 8:00 Program

Program Volcanic Eruptions and Historical Climate Fluctuations

Gerald G. Kuhn
Marine Geologist,
Ocean Sciences Research Institute



2550 Beverly Blvd.
Los Angeles, CA 90057

PROGRAM
Topic & Speaker

**Volcanic Eruptions and Historical Climate
Fluctuations in Southern California from
1830 to Present**

Gerald Kuhn

Ocean Sciences Research Institute

A careful search of historical documents now allows us to determine a vast amount of information concerning the changing weather patterns and volcanic activity during the past two centuries. Following significant phreatic, sulfur-rich eruptions in the 1830's, 1884, 1889, 1902, 1912, 1963, and 1982, southern California was subjected to severe storms that entered the region from the south. Between 1832 and 1856, shipping along the California coast was subjected to storms with intensities described as worse than those encountered in rounding Cape Horn, with waves 50-60 feet high. Following the eruptions of Krakatoa in 1883, record rainfall occurred between 1884 and 1891 that has never been equalled in the 20th century. Regionally, 1884 alone may have been the most severe in the past 100 years with respect to flooding, coastal erosion, and landslides. In recent years, the 1963 eruption of Agung and the 1982 eruption of El Chichon preceded severe storms, that again, buffeted the region. Historically, storm-years of record have occurred during the winter following significant volcanic eruptions, with or without the warm-water event known as "El Nino" (abstract co-authored with F.P. Shepard of Scripps Institution of Oceanography, and presented at the American Geophysical Union, Chapman conference on Climate, Volcanism, and Global Change, held in Hilo, Hawaii, March 23-27, 1992).

Gerald G. Kuhn received his B.S. in geology from SDSU and is currently a Marine Geologist/Oceanographer with the Ocean Sciences Research Institute in San Diego. His fields of interest include marine geology, marine and subaerially-induced coastal changes, impact of urbanization upon the coastal zone, recent historical climatic fluctuations, and oceanography/marine geology from the space shuttle.

SECTION COMMITTEE CHAIRS

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(805) 373-0057
Field Trips: David B. Ebersold (818) 500-9533
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If you have questions about the standing committees, please contact the standing committee chair listed above, or call Kelly Rowe at (714) 660-7676.

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SENIOR GEOLOGIST/HYDROGEOLOGIST - ENVIRONMENTAL
Opening available for a senior geologist or hydrogeologist to work out of our Long Beach office. The position requires 3 to 5 years of environmental experience and registration in the State of California. The qualified candidate will oversee geological aspects of site investigations, exercise final judgment on geological interpretations and all activities requiring geological expertise; sign reports as required by regulatory agencies; supervise project and staff geologists; maintain project schedules and budgets, and act as primary client and regulatory contact.

Send resume to:
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CHAIRMAN'S COLUMN

Hello to everyone in Southern California. I am very pleased to be the new chairman for the 1992-93 year for the Southern California Section, the largest section of AEG. Congratulations to the new officers and the continuing special section committee members. Together with you we can make this a fantastic year for geology in California. I am excited about the upcoming events this year, particularly the annual meeting in October. For the meeting to be a success we need your excitement also. We need you to plan to come to the field trips, the short-courses, and the technical sessions. We need you to invite other interested professionals to plan to come. Planning for the meeting has been conducted by a dedicated group of professionals representing a wide range of disciplines in engineering geology. The meeting will be held at the Sheraton in Long Beach, October 3 - 8, 1992. The program topics are current, interesting and focus on the engineering geology aspects of Southern California. Technical sessions are in the middle of the week. Make your reservations now! Don't miss it!!!

The meeting July 15th is AEG's 2nd annual joint meeting with the San Diego Association of Geologists (SDAG). Many SDAG members are also AEG Southern California Section members. SDAG has operated effectively for many years, promoting the understanding of a wide-range of geological subjects; providing a forum for the discussion of geologic practice through publications and meetings in the San Diego area. AEG, however, focuses on the discussion and dissemination of technical and scientific information on Engineering Geology practice through publications and meetings for the entire Southern California area. AEG and SDAG members have much in common, both professionally and socially.

The speaker for the August 11th AEG meeting will be Mr. Phil Chandler, engineering geologist, for the Los Angeles Regional Water Quality Control Board (Regional Board), will discuss the newly created Well Investigation Program guidelines for conducting soil gas surveys. The meeting will be held at the Quiet Cannon Restaurant in Montebello. It is interesting to note that the regular use of soil gas surveys began about ten years ago, the quality of work has been steadily improving, and has become increasingly more important as a technique to identify contaminated soil or groundwater areas. The Regional Board's guidelines may be implemented by many other agencies as the standard professional level of care for this work.

Future regular columns will inform you of my goals for the section. If you have suggestions on goals or issues that need to be addressed, please feel free to call me. However, the most important goal for us to achieve this year is the success of the October annual meeting. It can only be a success if you help.

CHANGING OF THE GUARD FOR AEG NEWSLETTER

As Secretary/Newsletter Editor for the Southern California Chapter of AEG these past 18 months, it is with both excitement and sadness that I move on to other duties. Kathy Williams is the new Newsletter Editor. Kathy worked with me on last month's newsletter: a few hours were all I needed to feel completely comfortable that she is a pro in publishing and will have no problem with her duties. Please support her by providing her with news items of interest to the membership, and by thanking her, even if only occasionally, for her efforts. As I have discovered, preparing, printing and mailing the newsletter on time is often stressful, especially when you have other deadlines at work to deal with too. Sometimes I thought I was not going to be able to get the newsletter ready on time, but my husband, Quin Kinnebrew, always came to the rescue, and stayed up late at night, folding, stapling, and labeling your newsletter.

Rosa Van Etten, of Leighton and Associates' Diamond Bar office was also very helpful (she generally took your reservations for the monthly meetings). Thank you Quin and Rosa! The duties of Secretary and Newsletter Editor have now been divided. I will continue to be the Section's Secretary. One of my duties will be to keep our mailing list current, therefore, if you change you mailing address, let me now. I will also handle questions regarding the Association, and if you know of non-members who are interested in finding out more about AEG, give them my name and number. Kathy will prepare the Section News for the quarterly AEGNEWS. Please send any news items of interest that you'd like to share with the rest of AEG's members, especially Members News to Kathy. Also remember that the Editor of AEGNEWS is always looking for suitable photographs for the front cover of the newsletter. Keep in mind that material for the monthly Southern California newsletter needs to be submitted to Kathy by the 20th of the month. News for AEGNEWS are due on the last week of February, May, July and November.

NATIONAL AEG MEETING "ENGINEERING GEOLOGY INTO THE 21ST CENTURY"

The National AEG Meeting has been moved from the Queen Mary to the Long Beach Sheraton on Ocean Avenue. The move was motivated because of uncertainty regarding the Queen Mary's future operations as a result of its change in management. However, John Byers, Chairman of the 1992 Annual Meeting Committee, expressed his conviction that the change in location was definitely advantageous as the facilities at the Sheraton were in many ways superior to those of the Queen Mary.

The technical sessions, field trips, and seminars are all in place. The response to many of the field trips and seminars has been so good that spaces may soon be filled and will not be available to those who do not respond promptly. "Snootze and you lose!". The registration form will be published in the July edition of the National AEGNEWS. You are urged to get it completed and sent in right away.

Our goal is full participation at this National AEG Meeting to make it a rousing success, so please do your part to promote the event. John Byers reports that the response from clients and suppliers to his company's promotion of the AEG Meeting, field trips, and seminars have been excellent. Letters and cards to clients, suppliers, and other interested parties is effective. JUST DO IT! The National AEG Meeting is October 2-9, 1992 at the Long Beach Sheraton. Early registration ends August 30, 1992.

Aims of AEG

- Provide a forum for the discussion and dissemination of technical and scientific information on Engineering Geology practice through publications and meetings.
- Provide leadership to the profession of Engineering Geology.
- Encourage advancement of professional recognition and scientific research in Engineering Geology.
- Encourage high ethical and professional standards for the Engineering Geology profession.
- Provide professional input to the development of appropriate curricula for both graduate and undergraduate degree programs.
- Promote public understanding and acceptance of the Engineering Geology profession.
- Promote public health, safety and welfare.

AEG AND REG REVIEW, INC. TEAM UP TO PROVIDE GEOLOGY REGISTRATION REVIEW COURSES!

AEG is pleased to announce that AEG has retained REG REVIEW, Inc. to hold review courses for the California Geology Registration Exam. Five courses are scheduled for 1992, including three in the southern California area. SD-1 meets August 6 and August 13 at Kings Inn in San Diego; LA-1 meets August 7 and August 14 at Howard Johnson/Hampton Inn in Santa Ana; and LA-2 meets August 8 and August 15 at Pasadena City College in Pasadena. Preregistration deadline for the southern California classes is July 16, 1992. Course preregistration fees (postmarked by Jul 16, 1992) are \$345.00 for AEG members; \$350.00 for non members. Late registration fees are \$395.00 for AEG members; \$400.00 for non members.

The review course presents the subjects that are most strongly emphasized on the California Geology Registration Exam, concentrating on technical problem-solving. Problems worked in the course, sample quizzes, and answers are provided in handouts to class participants. Structural geology, map interpretation, hydrogeology, and engineering geology problems are emphasized in class. Class size is limited to 40 people. Provided with the course registration is the 1992 edition of the Study Manual. Study Manuals are mailed immediately by Priority Mail to all preregistrants upon receipt of fees. Late registrants will receive Study Manuals in class.

To register, send a check or money order payable to AEG to: AEG Geology Registration Review Courses, c/o REG REVIEW, Inc. 6555 Oakwood Drive, Oakland, CA 94611. For more information on these or other AEG classes, contact either Patti Osiecki at (415) 852-9099 or Lisa Dirth at (510) 339-3771.

ASSOCIATION OF ENGINEERING GEOLOGISTS

The Association of Engineering Geologists (AEG) is dedicated to meeting the needs of professional engineering geologists and geological engineers and to advancing Engineering Geology. AEG has represented practicing engineering geologists and geological engineers for more than three decades. AEG's membership comes from individual practice, consulting firms, industry, government and academics. Members are located in 35 countries; members can participate in one of 24 sections. Student Chapters have been chartered at several colleges and universities.

Engineering Geology is the use of geologic principles in the investigation, evaluation and prediction of surface and subsurface conditions. These principles are typically applied to surface and subsurface water and contaminants, waste management, aggregate production and geologic hazards; and in the evaluation, planning, design, construction, operation, and maintenance of fixed engineering projects. Engineering Geologic science includes the discovery and elucidation of the principles of earth science which can be used: 1) to determine feasibility and economy during the practice of Engineering Geology; and 2) to predict conditions that affect public health, safety and welfare.

**ANNUAL AEG MEETING 1992
WE NEED YOUR HELP!**

The committee is soliciting contributions from engineering geology and geotechnical consulting firms in the Southern California area. Three levels of sponsorship are planned: Gold - \$1,000 contribution, Silver - \$500 contribution, and Bronze - \$250 contribution. All sponsors will receive recognition in the section newsletter, the meeting bulletin, and posters at the meeting. Sponsors at the \$500 level will receive a framed, signed, numbered print of the artist gift which will be given to all registrants. Sponsors at the \$1,000 level will receive the signed print and special recognition at the awards dinner. We are happy to accept a contribution of any amount to help with fundings. And, if things get better, you can always up your contribution!

AEG 1992 DONATION LIST

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**NEWS ON THE UPCOMING
1992 ANNUAL MEETING**

The 1992 Annual Meeting Committee has been very active in the last few months preparing for the October event. John Byer, Chairman of the Committee, reports that revenues from exhibit sales is below projections. You can help us by promoting the meeting with your local vendors, suppliers, and clients. Kim Corpuz of Rosenberg and Risinger, the company who is handling all PR details of this year's meeting, has prepared a card that companies can insert in their mailings to help promote and advertise the 1992 meeting. You can request these cards by calling Kim at (310) 397-6338.

Several local companies and individuals have made donations (see list above), which the committee is extremely grateful for. The money from these donations has been used to advertise and promote the meeting.

The various sub-committees have made great strides in preparing the field trips, and in preparing the proceedings volume and field trip guidebooks. We expect it to be a great

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**

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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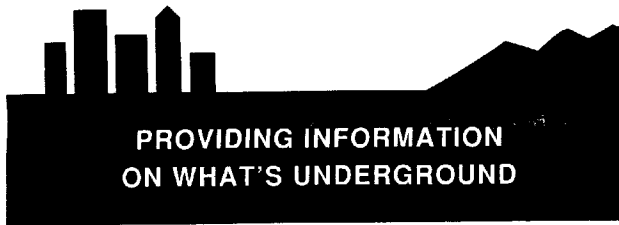
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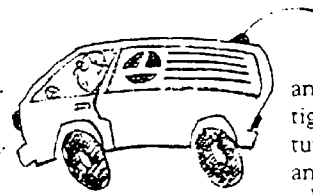
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JULY 1992

15 AEG/San Diego Association of Geologists 2nd Annual Joint Meeting, Pea Soup Anderson's, Palomar Airport Road and I-5, Carlsbad, Ca. Social Hour at 5:30 p.m. Dinner at 7:00 p.m. Topic is "Volcanic Eruptions and Historic Climate Fluctuations in Southern California from 1830 to Present". **CONTACT 714-660-7676.**

20-Aug. 20 "Volcanoes of Indonesia" Field Trip. Sites to visit include crater lakes, sulfurous hot springs, snow-capped peaks, and belching volcanoes, on the islands of Java, Bali, Sumatra, Irian Jaya, and Krakatoa. **CONTACT:** Dorothy Stout, Cypress College, 714-826-2220.

30 Deadline for early registration for National AEG Meeting in Los Angeles. Meeting is in Long Beach, California, October 3-8, 1992.

AUGUST 1992

17-20 Satellite Remote Sensing for Resource Management, Environmental Assessment, and Global Change Studies: Needs and Applications of Developing Countries, Boulder, CO. **CONTACT:** UN/ISY Conference, WT Chen & Company, Inc., 1745 Jefferson Davis Highway, Suite 500, Arlington, VA 22202.

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Annual AEG Meeting in Long Beach OCTOBER 1992

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