Dinner Meeting **Tuesday November 13th**

- The Quiet Cannon Restaurant  
  901 North Via San Clemente  
  Montebello
- Cost - $20.00 (Full-Time Students - Free)
- For reservations call by August 9th!!!
  Grace (714) 860-7772 (Leighton & Assoc.)
  (Leave Your Name & Number of People in Your Party)

Make reservations by Noon on the Friday before the Meeting

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

**Program**  
**TOPIC** Earthquakes, and Faults in the Los Angeles Basin

**SPEAKER** Egill Hauksson, Ph.D. - Geophysicist,  
Senior Research Fellow with Caltech, Pasadena
Program

Topic & Speaker
Earthquakes, and Faults in the Los Angeles Basin
Egill Hauksson, Ph.D.

Since 1920 fifteen moderate-sized ($M_s = 4.9-6.4$) earthquakes have been reported in the Los Angeles basin. The three largest and most damaging earthquakes were the 1971 $M_s = 6.4$ San Fernando, the 1933 $M_s = 6.3$ Long Beach, and the 1987 $M_s = 5.9$ Whittier Narrows and most recently the 1990 $M_s = 5.2$ Upland earthquake. These events are associated with both mappable surficial faults and concealed faults beneath the basin sediments.

The Los Angeles basin is cross-cut by northwest striking surficial strike-slip faults such as the Whittier fault, the Newport-Inglewood fault and the Palos Verdes fault. It is also bounded to the north by high-angle reverse faults. Two zones of concealed faults exist in the basin. The first, the Elysian Park fold and thrust belt, coincides with anticlines along the eastern and northern flank of the Los Angeles basin extending into Santa Monica Bay. The second, the Torrance-Wilmington fold and thrust belt, coincides with anticlines mapped on the southwest flank of the basin and extends from offshore Newport Beach to the northwest into Santa Monica Bay.

Oblique faulting that could be inferred by the merging of strike-slip and compressional tectonics does not occur in the basin. Instead, the coexistence of zones of thrusting and large strike-slip faults in the basin suggests that the thrust and strike-slip movements are mostly decoupled. Today the deformation of the basin consists of uplift and crustal thickening and lateral block movement to accommodate the north-south compression across the basin.

Egill Hauksson, Ph.D., is a geophysicist, Senior Research Fellow at Caltech in Pasadena. Dr. Hauksson received his degree in geophysics from Columbia University. He specializes in seismology with emphasis on analysis of seismic network data for earth structure, state of stress, earthquake hazards and prediction studies, analysis of digital waveform data from local networks and downhole seismometer arrays to quantify earthquake source parameters and ground motion. Dr. Hauksson has numerous publications associated with his work at Columbia, USC and Caltech.
The southern California area certainly offers many challenges to tax our knowledge. AEG members should continue to be valuable to the community as a base of geological knowledge for planning and engineering projects to protect the public welfare. To increase the potential for meeting engineering geologists in northern- and southern- southern California, the 1991 AEG SCS officers have plans to hold four monthly meetings away from the Quiet Cannon Restaurant location in Montebello. These will probably be held irregularly in the northern San Fernando Valley area and in San Juan Capistrano.

Desk top publishing the newsletter, through my Macintosh computer, has also been very interesting and educational. It is good to see that desk top publishing is continuing to become more common in our profession, not only in the Macintosh environment but also in the limited and more difficult to use PC environment. (Just kidding. I own and use both types of computers.) Desk top publishing incorporates word processing, spreadsheets, databases, and graphics programs. The more I learned using these programs my work got easier and more professional looking. I can foresee that with the exception of our need to visit the field to evaluate situations, we may soon simply work out of our homes and only occasionally visit the office. The continuing advances in communications through FAXes and modems, and cheaper, highly sophisticated computer hardware and software make the need for all of us to continue to increase our knowledge of how to use this equipment in our work. As a final note on this subject, I encourage everyone to have their own computer and to use it on their work space. I found that you only learn to use a computer if it is constantly available for you to understand how it can make your work easier.

The duties of the newsletter editor/secretary are now going to be in the hands of Tania Gonzales, engineering geologist with Leighton & Assoc. Tania is an associate member who is relatively new in the southern California area. She is excited about doing the newsletter this year. Tania owns a Macintosh computer and may keep the style of the newsletter the same as the last two years. However, as editor she will have all of the latitude to publish the newsletter as she sees fit. As vice chairman, I will keep in close contact with Tania and will advise her on completing the first few issues. Please give her support for material to be published. Sometimes there is a lack of material to publish or Tania may not know of news important to AEG members. Keep in mind that material for job ads and news need to be submitted by about the 20th of the month so they can be published in the next newsletter.

While newsletter editor and secretary I have learned much about the engineering geologists and geologists in southern California and their interesting pursuits.
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<th>Positions Available</th>
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<td><strong>Career Opportunity For Geologist</strong>&lt;br&gt;Openings are available for an entry level or project level geologist. Experience desirable, but not essential. Candidate must have strong interest and knowledge of geologic processes; geologic mapping; and good writing ability. Candidate must be willing to learn all aspects of ground water hydrology. Small, well-established firm based in the Los Angeles area. CONTACT: (213) 255-4511 or send resume to: GSI/water (Geothermal Surveys, Inc.) 820 Mission St. South Pasadena, CA 91030</td>
<td>...<strong>NOVEMBER 1990</strong>&lt;br&gt;3”Annual AEG SCS Field Trip - Soledad Basin - Upper Santa Clara River Area” East of Valencia, CA. CONTACT: California Environmental (818) 991-1542.&lt;br&gt;4-9<strong>AWRA 26th Annual Conference - The Science of Water Resources: 1990 &amp; Beyond; Symposium on Transforming Models to Users; Symposium on Urban Hydrology</strong> Denver, CO. Amer. Water Resources Assoc. (AWRA). CONTACT: AWRA(301)493-8600 5410 GrosvenorLane, Suite 220,Bethesda, Maryland 20814-2192.&lt;br&gt;6-8”Theory and Application of Vadose Zone Monitoring, Sampling, Remediation” Las Vegas, NV. Assoc. of Ground Water Scientists and Engineers (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.&lt;br&gt;6-8”Haz Mat 90 West” Long Beach, CA. HAZMAT WORLD &amp; Tower Conference Management Co. CONTACT: Tower (708)469-3373, 800 Roosevelt Road, Bldg. E-Suite 408, Glen Ellyn, IL 60137-5835.&lt;br&gt;8-9”Designing with Geosynthetics” Denver, CO. CONTACT: (215)895-2343 Geosynthetic Research Institute, Drexel U., West Wing - Rush Bldg. #10, Philadelphia, PA 19104.&lt;br&gt;9”Environmental Site Assessments One-Day Legal Course” Las Vegas, NV. Assoc. of Ground Water Scientists and Engineers (NWWA). CONTACT: NWWA (614)761-1711/P.O. Box 182039/Dept. #017/ Columbus, Ohio 43218.</td>
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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 ____________________ Fax ____________________
Company ____________________
Address ____________________
City ____________________ State _______ Zip ___________

Preferred Mailing Address:

Tapia Gonzalez
AEG Secretary/Newsletter Editor
d/c Leighton & Assoc.
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AEG Los Angeles 1992