ASSOCIATION OF ENGINEERING GEOLOGISTS

Southern California Section

"Serving Professionals in Engineering, Environmental, and Groundwater Geology Since 1957"

NEWSLETTER – APRIL 2001

MONTHLY DINNER MEETING

Date: **Monday, April 2, 2001**

Location: **El Adobe Restaurant, 31891 Camino Capistrano, San Juan Capistrano, CA**

Time: **6:00 p.m. - Social Hour; 7:00 p.m. – Dinner; – 8:00 p.m. Presentation**

Reservations: **Call (949) 253-5924 ext. 564 by 5:00 p.m., Friday, *March 30, 2001***

Cost: **$22.00 per person with advanced reservations, $25.00 at the door, and $10.00 for students w/ valid I.D., "No-shows" will be billed $10.00**

MAKE CHECKS OUT TO "SCGS"

SPEAKER: **Dr. Roy Shlemon**

TITLE: **Ground Fissures and Subsidence in Southern California: An Update**

ABSTRACT:

Believe it or not: ground fissures and subsidence may actually benefit the geological community! For example, the 12-years of ground crack and fissure litigation in southern California have now greatly increased the engineering and geologic professional standards-of-care. As documented at Temecula and Murrieta, almost adjacent ground fissures and subsidence proved to have different origins; namely, causation either by groundwater withdrawal or by groundwater rise. Based on this learning experience, geotechnical investigations in arid and semi-arid regions now routinely assess ground fissure and subsidence potential and, in some cases, even "forecast" groundwater-level elevations. Additionally, it is now anticipated that any "left-in-place" alluvium and proposed mitigation methods will be increasingly subject to intense scrutiny by local reviewing agencies.

Fissures elsewhere in southern California still greatly impact potential land use: a proposed mega-landfill in the Mojave Desert has now been "deferred," in part because of the unknown origin of nearby fissures; and development in the Antelope Valley is still beset by potential groundwater-withdrawal fissures. Additionally, so-called "pseudo-fissures" are seemingly increasing and therefore subject to more investigations and regulatory observations. The pseudo fissures occur on newly graded pads and likewise have a multitude of origins. Those near Lancaster were caused by emplacement of fill containing highly expansive clayey derived from adjacent, Pleistocene lake sediments. Those in the Norco and Corona area, after time-consuming and expensive investigations, were ultimately determined to be unrelated to local groundwater withdrawal or seismic activity, but rather were caused by a complex chemical and mechanical interaction of clayey sediments, moisture and organic matter that were mixed into the compacted fill. Ironically, this fissure-caused damage proved to be relatively inconsequential after discovery of methane gas emanating from dairy waste in now-buried trenches beneath the site.

Ground fissures, subsidence and litigation in southern California seem to go hand in hand. And this "California disease" has even spread to Arizona, where government officials are increasingly concerned about potential litigation as urbanization extends into the fissure-prone corridor between Phoenix and Tucson. Like hillside development and landslides, urbanization and fissures are co-phenomena that will likely increase in southern California. Are we geologists prepared for this? The lawyers are!

BIO:

A long-time member of the Association of Engineering Geologists, Southern California Section, and the South Coast Geological Society, Roy Shlemon received his doctorate at the University of California at Berkeley. Formerly on the faculty of the University of California at Davis and the Louisiana State University, for the past 30 years he has maintained a consulting practice that mainly focuses on applications of Quaternary geology, geomorphology and soil stratigraphy to engineering-geology practice. Projects have been worldwide, ranging from fault-activity assessments for siting nuclear power plants, waste facilities and large dams, to identifying auriferous deposits and contaminant pathways. In honor of his contributions and outstanding service to the advancement of engineering geology, the Association of Engineering Geologists, in April 2000, conferred upon him the status of Honorary Member. Roy has a history of participation in outstanding achievements and philanthropic advances, including the Geological Society of America Roy J. Shlemon Mentor in Engineering Geology program and endowment opportunities through the Engineering Geology Foundation.

Dr. Shlemon serves as an advisor and reviewer for several local and national government agencies, as a Trustee for the Foundations of the Geological Society of America and the Association of Engineering Geologists, as a Neutral Referee for the Orange County Superior Court, and as the North American Representative for various commissions of the International Geological Union.

CHAIR'S COLUMN

By David Seymour

Our March joint meeting with ASCE was a great success and well attended, with over 90 attendees. **Dr. Tom Rockwell** from SDSU presented his observations on the recent 2001 Gujarat, India earthquake. This New Madrid like event devastated numerous towns and villages in northwest India, with most of the structural damage due to poor construction. Thanks again to Dr. Rockwell for a great presentation, and **Lorraine Muto**, our Vice Chair, for arranging the talk.

Our April meeting is a joint meeting with the **South Coast Geological Society** with **Dr. Roy Shlemon** (an AEG Honorary Member) as our speaker. We'll be dining at the El Adobe Restaurant in historic San Juan Capistrano. Doesn't a margarita sound good right about now. Please bring a colleague with you to the meeting.

Our Short Course Chair, **Kerry Cato**, has included a registration form for the upcoming Probabilistic Seismic Hazard Analysis short course in this newsletter. The course will be held on May 18, 2001 at the USC Davidson Conference Center. I encourage each of you to attend this course and tell your colleagues about it as well.

Our section recently donated funds to the **Dibblee Geological Foundation** to support printing of several new maps that will be out this spring. Our section will be added to the list of contributors on one of the upcoming maps. If you have any questions regarding the maps or the Dibblee Geological Foundation, please contact **Dick Brown** at 562-598-0595.

Starting in April we will raffle off selected references from **Larry Cann's** professional library. Larry retired this last year and has graciously donated several publications to our section as another way to generate funds. Raffle tickets will be $1.00 each and available at the front table prior to each meeting. Thanks again Larry for your continued support!

Membership renewal forms are included in this newsletter for your use. The main reason for including the forms is that many section members have not been receiving renewal notices from AEG Headquarters. If you have any questions, please feel free to contact **Wendy Schell** our Membership Chair or me.

E-MAIL OR SNAIL MAIL

We continue to receive requests from members for e-mail versions of the newsletter. You can request the change over at anytime, but please remember this is an either/or option. Please e-mail **Desiree Dier** at ddier1@home.com if you would like receiving the e-mail version only.

We are still working on our web site, which will include our newsletter, links, and other information.

YEAR 2001 CONTRIBUTORS TO OUR SECTION

Thanks to:

Larry Cann
William Elliott
Dr. Peter Weigand (CSUN)
GeoSoils Consultants, Inc.
Grover-Hollingsworth & Associates
Petra Geotechnical, Inc.
Stoney-Miller Consultants, Inc.
Zeiser Kling Consultants, Inc.

Additional donations are still needed, so please consider sending in a contribution.

AEG NATIONAL AWARDS

Nominations are now being accepted for 2001. The Awards Committee considers nominations for the following awards (for complete information, please consult the AEG Directory or website):

1. Douglas R. Piteau Award – This award is presented to a Member of Associate Member who is age 35 or under, and has excelled in one or more of the following areas: technical accomplishment, service to the Association, and service to the engineering geology profession.

2. Claire P. Holdredge Award - This award is presented for a publication by a Member(s) within the past 5 years that is judged to be an outstanding contribution to the engineering geology profession.

3. Floyd T. Johnson Service Award – This award is presented to a Member for outstanding active and faithful service to the Association over a minimum of 9 years. Board members are not eligible until 1 year after leaving office. Nominations must be validated via endorsement by 3 Members having different Section affiliations. This award is not necessarily conferred annually.

The deadline for nominations to be considered for awards in 2001 is March 30, 2001. Please send nominations to Bill Cole, AEG Awards Committee Manager, c/o Cotton, Shires and Associates, Inc., 330 Village Lane, Los Gatos, CA 95030 (or to bcole@cottonshires.com).

MEETINGS AND FIELDTRIPS

GSA Cordilleran Section/AAPG Pacific Section-April 9-11, 2001
Where: Sheraton Universal Hotel, Universal City, California
Contact: www.geosociety.org

AEG/AIPG Annual Meeting-October 2-5, 2001
Where: St. Louis, MO
Contact: www.aegweb.org

IAEG 9TH Congress-September 16-20, 2002
Where: Durban, South Africa
Contact: http://stanfield.und.ac.za/Durban2002/

YEAR 2001 MEETING SCHEDULE

Date	Speaker	Location
January 9	Dr. Susan Owen	Steven's Steakhouse
February 13	Mike Hart	Steven's Steakhouse
March 13 (Joint w/ ASCE)	Dr. Tom Rockwell	Steven's Steakhouse
April 2 (Joint w/ SCGS)	Dr. Roy Shlemon	El Adobe Restaurant
May 8	Andrea Donnellan-JPL	Steven's Steakhouse (tentative location)
June	TBA	
July	NO MEETING	
August	TBA	
Sept. 11	Rex Upp-AEG President	TBA
October	NO MEETING	AEG National Sept. 30 thru Oct. 7
November	TBA	
December	TBA	

Please contact **Lorraine Muto**, Vice Chair, if you would like to volunteer as a speaker or have a "lead".

AEG • AIPG • 2001

ASSOCIATION OF ENGINEERING GEOLOGISTS

AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS

Geology: Central to Society's Needs

JOINT ANNUAL MEETING - 44th AEG • 38th AIPG

St. Louis, Missouri -- Hyatt Regency Union Station Hotel

"Gateway to the West"

September 30-October 7, 2001

CALL FOR TECHNICAL PAPERS AND EXHIBITORS

Come and enjoy all that the St. Louis Area has to offer!
AEG•AIPG•2001 features short courses, field trips, technical sessions, symposia,
and fun stuff!
Find your way to St. Louis in 2001 !!

Abstract submittals due May 1, 2001

E-mail preferred: meetings@aeg.tamu.edu
Or submit your abstract on AEG's Web Page:
www.aegweb.org, Annual Meeting
Or mail with disk to:

AEG•AIPG•2001 c/o Julie Keaton
130 Yucca Drive
Sedona, AZ 86336-3222
(520) 204-1553
Fax: (520) 204-5597

Technical Program Topics

Engineering & Environmental Geophysical Case Histories
Environmental Practice in EPA Regions V & VII
Geologic Solutions to Transportation Concerns:
Highways & Waterways Groundwater Remediation
Karst Remediation
Midwest Geologic Hazards: Recognition & Risk Management
New Madrid Seismic Threat
Case Histories in Engineering Geology
Transportation Engineering Geology
Groundwater Investigations
Coastal and River Engineering Geology
Environmental Investigation & Clean-Up

(Abstract must not exceed 250 words and must include author's full name, company name, and company address below the title of the paper. We prefer that authors use Microsoft Word. Please include your daytime telephone number. See sample abstract submission form on AEG's Web Page: www.aegweb.org)

UNDERSTANDING AND APPLYING
PROBABILISTIC SEISMIC HAZARD ANALYSIS

This one-day short course has been designed to help you acquire greater understanding of probabilistic seismic hazard analysis (PSHA) and its applications. The course provides in-depth discussion of this specialized topic, in clear terms, with an emphasis on both fundamental and more advanced concepts. This course is jointly sponsored by the Association of Engineering Geologists (AEG), Southern California Section, and the Southern California Earthquake Center (SCEC).

Time: Friday May 18, 2001 – 8:00 am to 5:00 pm
Location: University of Southern California, Davidson Conference Center
3415 South Figueroa Street; Los Angeles, CA

In this course, Dr. Rob Sewell keeps unfamiliar mathematics to a minimum, and describes elements of probabilistic analysis in a transparent way, using familiar graphical illustrations of key concepts. The PSHA principles are explained and demonstrated with real-world examples that involve the application of PSHA software, such as the widely used program FRISKSP.

The course starts by clearly explaining basic principles, and then gradually builds to intermediate and advanced concepts. Basic topics include modeling, and treatment of random (aleatory) variability, for (1) earthquake sources, including source types and geometries, maximum magnitudes, seismic activity rates, and magnitude probability distributions; (2) the earthquake rupture process, earthquake scenarios, and source-to-site distances; (3) ground motions, as related to magnitude, distance, and key geophysical parameters; and (4) the effects of local soil conditions. The discussion of basic concepts highlights the importance of (a) deterministic methods in describing the characteristics of possible earthquake scenarios, and (b) probabilistic methods in enumerating these scenarios and evaluating their likelihoods.

Intermediate concepts include determination of (1) hazard curves for spectral responses; (2) the uniform hazard spectrum (UHS); (3) near-source effects on the UHS, including average, fault-normal, and fault-parallel effects; (4) modification of spectra for soil effects; (5) deaggregation of PSHA results; and (6) hazard-compatible time histories. Advanced topics include (i) logic-tree methodology for analysis of expert/modeling (epistemic) uncertainties, (ii) sensitivity analysis, (iii) advanced PSHA approaches, (iv) risk analysis, and (v) management and quality assurance of PSHA projects. A clear explanatory presentation of each topic, and its relevance, will be provided.

Who Should Attend?

Engineers; geologists, seismologists, geophysicists, and other earth scientists; or any earthquake professional who is involved with, or has interest in, any of the following:

- Understanding the development, quantification, or utilization of estimates of ground motions or ground-motion hazard;
- Performing a study for any situation that involves seismic hazard or risk;
- Implementing the provisions for development of site-specific ground-motion design criteria according to applicable building standards (UBC, NEHRP, API, etc.);
- Reviewing studies that are based on investigation, assessment, or use of ground-motion hazard; or
- Understanding the role of PSHA in the decision making process.

Instructors

Robert T. Sewell, Ph.D. and Principal, R.T. Sewell Associates
Thomas F. Blake, Fugro West
Chuck Real, CDMG, Keynote Speaker at lunchtime,
"CDMG's Implementation of the Seismic Hazards Mapping Act: Status and Future".

Dr. Robert T. Sewell is Principal of R.T. Sewell Associates, Consulting, and specializes in probabilistic hazard and risk analysis for engineering decisions. He has been involved in numerous studies of earthquake-related hazards, with recent projects including liquefaction risk assessment for a nuclear power plant, tsunami hazard assessment for a liquefied natural gas (LNG) development, evaluation of ground-motion design criteria for a new office building of the U.S. Embassy, and analysis of secondary fault-displacement hazard for a residential development in Southern California. Dr.

Sewell is also a principal reviewer of seismic safety studies for the U.S. Nuclear Regulatory Commission and the Swiss Nuclear Safety Inspectorate.

Dr. Sewell has over 16 years of consulting experience on a variety of high-technology projects worldwide, including engineering and risk evaluation studies of nuclear power plants, pipelines, oil and industrial facilities, dams, solid waste landfills, a high-level waste nuclear repository, and conventional buildings. As a principal research investigator, he has been sponsored by various agencies to lead a variety of research projects on risk assessment, damage effectiveness of ground motions, and performance-based engineering. He is the author of several publications on engineering evaluation of hazards and risk, an engineering textbook, commercial software packages, and training seminars. Dr. Sewell received his Ph.D. in Engineering from Stanford University, and his Bachelors degree in Engineering from CSU, Chico. He is also a certified Project Management Professional.

Schedule *8:00 AM to 5:00 PM, Friday May 18, 2001*

What Learning Materials are Provided with the Course?

Participants will receive a set of course notes with helpful information and worksheets, a list of usefu Internet sites, and a CD-ROM containing valuable programs, data, and spreadsheets. In addition, yo will receive a copy of Dr. Sewell's detailed paper describing the mechanics of probabilistic seismic hazard analysis methodology, which illustrates the complete manual solution of an example problem.

--CEU credits will be granted for this short course.

--Continental Breakfast, Lunch, and coffee breaks will be provided by the Davidson Center.

* * * * * * * * * * * *

REGISTRATION FORM - DUE BY APRIL 25, 2001

Understanding and Applying Probabilistic Seismic Hazard Analysis

AEG Short Course, May 18, 2001

Name_____

Company_____

Address_____

City/ST/Zip_____

Phone_____

Email_____

Make check or money order payable to:
Association of Engineering Geologists

Mail to:
AEG Short Course, c/o Kerry Cato
Earth Consultants International, Inc.
41934 Main St., Suite 210
Temecula, CA 92590
(909) 506-9688

Course Fee: $ 180 - AEG Members
$ 195 - Non-Members

Send AEG membership information? _____

See you May 18th !!!

JANUARY 26, 2001 BGG MEETING UPDATE

The Board of Registration for Geologists and Geophysicists (BRGG) has changed its name to the **Board for Geologists and Geophysicists (BGG).** The first of five BGG meetings to be held this year was on January 26, 2001 at BGG headquarters in Sacramento. All meetings will be held in Sacramento this year, which will increase the cost of sending a representative from AEG Southern California Section. In the past, Board meeting locations were divided between Sacramento, San Diego, and Los Angeles. **Future BGG meetings for this year will be held on April 20, July 20, September 28-29, and December 7.**

The BGG has been busy rewriting the Geology Act. The current Act is contained in Chapter 12.5 of the Business and Professions Code beginning with Section 7800. The current Act can be found at:
http://www.dca.ca.gov/geology/about/act.pdf

The Revised Act has been written and approved by BGG. It was submitted to Senator Liz Figueroa and it is expected that it will be incorporated into Senate Bill 136. If passed into law, SB 136 will revise Chapter 12.5 of the Business and Professions Code. Section 7800 will become known as the **California Geologist and Geophysicist Licensing Act.** As of this date, the revised Act, as approved by BGG, has not been added to SB 136 and we assume that Senator Figueroa's office is making some modifications to the Act.

The revised Act is not currently posted on the Board's web site and was generally not made available for public review and comment. This is unfortunate since the proposed changes in the Act will affect how geologists are regulated in this state and currently licensed geologists should have had the opportunity to review the revised Act before it was submitted to the legislators. An email draft version of the revised Act can be obtained by contacting Joe Cota at jcota@geosoils.com.

One of the revised Act issues hotly debated by the Board members was the experience requirement to take the Geologist examination. The Board President, David Cummings, suggested at the meeting that the experience requirement be reduced to less than 5 years. Mr. Cummings is a Registered Geologist and Registered Geophysicist and he argued that *knowledge* of geology is what is important for a licensee to have, and that *experience* is not important in the practice of geology, therefore, if a person with little or no *experience* has the *knowledge* to pass the exam, he/she should be eligible to practice geology in this state. His proposed reduction in experience was narrowly out voted by the Board, and the experience requirement will remain at 5 years with an advanced degree counting for a maximum of 2 years experience. It is possible that the legislators may still attempt to reduce the experience requirements.

As most California AEG members know, BGG recently adopted the ASBOG national examination with a California-specific supplemental exam. BGG's Executive Director, Paul Sweeney, suggested that he intends to introduce a proposal at the next Board meeting to eliminate the California-specific exam. Mr. Sweeney's reason is that the California-specific exam is held the same day that the 8-hour ASBOG exam is taken and he feels this is too hard on the applicant taking the exam. The California exam consists of 30 multiple choice questions and is one hour long. Typically, a person from out of state will be taking the exam for 9 hours plus breaks, lunch, and travel, leading up to a 12 hour-plus strenuous day.

As an alternate to dropping the California-specific exam altogether, BGG is working with Experior, LLC. If an agreement is reached, this company make the California-specific exam available to applicants "on demand" at various locations throughout the country. This could be available as soon as the end of this year. So the BGG is working on two ways to ease the pressure for out-of -state applicants simultaneously. If the "on demand" testing prevails, it could be available as soon as the end of this year. If BGG decides to drop the California-specific exam, it would probably not take effect until 2003.

In other BGG news, our friend and fellow AEG Member **Dr. Roy Shlemon** was appointed to the Technical Advisory Committee (TAC). The TAC is an appointed committee of technical experts that assists BGG in technical aspects of policy and decision making. AEG Member **Robert Larson** currently chairs the TAC. AEG Member, and last month's speaker, **Michael Hart** was also recently appointed to the TAC.

The BGG has reviewed their technical library at the Sacramento headquarters and has identified 9 AEG publications they wish to acquire. AEG Southern California Section will donate any of the publications BGG needs that we still have in stock.

Association of Engineering Geologists
2001 Dues Statement

Kindly print all information shown below

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Middle Name/Initial _____
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Dues Information

Section: Southern California
Section Dues $25.00 annually

Class: _____

Member	$80.00 annually
Associate	$70.00 annually
Affiliate	$70.00 annually
Teacher	$35.00 annually
Student	$25.00 annually

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Security of Personal Information

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Association of Engineering Geologists
Department of Geology and Geophysics
Texas A&M Univeristy
3115 TAMU
College Station, TX 77843-3115

Beth Jines, Chief of the Registered Environmental Assessor Program, Office of Environmental Health Hazard Assessment, was present at the BGG meeting. She helped to clear up the issue about geologists conducting Phase I Environmental Site Assessments (ESA's) for public school sites. Last year, changes in the Education Code prohibited REA I's from conducting ESA's on school sites. However, Ms. Jines indicated that Registered Geologists may conduct ESA's for public school sites provided they are practicing within their area of expertise. However, REA I's and II's cannot engage in the practice of geology and may be subject to discipline and fine by BGG.

The Fall 2000 geology examination pass rates were released. A total of 102 applicants took the ASBOG and the California-specific exam with 41 passing (31% pass rate). 36 applicants took the Engineering Geologist exam with a pass rate of 50%. 19 applicants took the Hydrogeologist exam with 12 passing (63% pass rate). Congratulations to all of those passing the examinations.

As previously mentioned, the next BGG meeting is April 20, 2001 in Sacramento. Finances permitting, a member of the Legislative Committee will be sent to represent our section.

EMPLOYMENT OPPORTUNITIES

US LABORATORIES, INC.

USLB has immediate openings for Senior, Project and Staff level Geotechnical Engineers and Geologists, with 5 to 10 plus years of experience. We are also looking for experienced Field Technicians and Inspectors with appropriate certifications. Positions available in our Ventura, Irvine, San Diego and Las Vegas offices (BTC, TELA, TESD, BUENA).
Please submit resumes in confidence to our Corporate office:

US Laboratories, Inc. (USLB)
7895 Convoy Court, Suite 18
San Diego, CA 92111
Attn: Human Resources c/o M. O'brien
E-mail: mobrien@uslaboratories.com

BOARD OF REGISTRATION FOR GEOLOGISTS AND GEOPHYSICISTS

Mary Scruggs, the BRGG's current enforcement geologist, has accepted a position at CDMG, leaving a vacancy at the Board. The Board is currently accepting applications for the following:

ASSOCIATE ENGINEERING GEOLOGIST

DESIRABLE QUALIFICATIONS – A CEG license issued by the BRGG with experience in land development and groundwater contamination. Final filing date is JANUARY 2, 2001. Submit your application, Form STD 678, resume and sample of writing abilities to:

Paul Sweeny, Executive Director
Board of Registration for Geologists and Geophysicists
2535 Capitol Oaks Drive, Suite 300A
Sacramento, CA 95833

Equal opportunity to all regardless of race, color, creed, national origin, ancestry, sex, marital status, disability, religious or political affiliation, age or sexual orientation.

DIVISION OF MINES AND GEOLOGY
ASSOCIATE ENGINEERING GEOLOGIST
2 Positions, Permanent, Full Time, ($4418-5370), Department of Conservation, Division of Mines and Geology, 801 K Street, MS 12-31, Sacramento, CA 95814. Apply ASAP

Division of Mines and Geology (DMG), Seismic Hazards Mapping Program is a world renowned program in seismic zonation, and exploits the latest technologies in digital mapping. Immediate vacancies exist in our Los Angeles and Sacramento offices. Associate Engineering Geologists are being sought with experience in Quaternary geologic mapping or seismic hazard analysis. Experience in seismic hazards evaluation is desired, with emphasis on the engineering behavior of geologic materials and its effects on building foundations and structure. Experience in the geological consulting industry is an asset. Registration and engineering geologist certification is desirable, but not required. Experience, aptitude, or interest in computer-based geologic analysis is desired, and an extensive training program is provided.

Please submit application/resume to: Beatriz Crowl, Department of Conservation, Division of Mines and Geology, 801 K Street, MS 12-31, Sacramento, CA 95814, (916) 322-9300.

AEG SOCAL SECTION COMMITTEE CHAIRS

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LEGISLATIVE AND REGULATORY AFFAIRS - Joe Cota (818) 785-2158 (cotageo@thevine.com)
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SHORT COURSES - Kerry Cato (909) 506-9688
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EDITOR - Desiree Dier (619) 445-5336 (ddier1@home.com)

RATES FOR ADVERTISING IN AEG SOCAL SECTION NEWSLETTER

Corporate Members:	
Preprinted Insert	$300/yr
1 pg	$200/yr
1/2 pg	$125/yr
1/4 pg	$100/yr

Non-members:	
Preprinted Insert	$400/yr
1 pg	$300/yr
1/2 pg	$175/yr
1/4 pg	$125/yr

ENGINEERING

Staff Geotechnical Engineer
1-3 yrs of experience in the geotechnical field. EIT, RCE (pref'd) Experienced in field exploration & laboratory testing phases of geotechnical investigations. Good analytical & computer skills. Highly motivated individual with keen desire to develop technically & professionally. BSCE, MSCE (pref'd).

Senior/Principal Geotechnical Engineer
5/10 yrs of experience in the geotechnical field with a track-record of progressively increasing project management responsibilities. RCE, GE (pref'd)/GE for Principal. Established skills in geotechnical analysis including knowledge of current software. Highly motivated individual capable of managing several independent projects. Good verbal & written communicatior skills. Seller/Doer - able to market/develop clients, prepare comprehensive proposals, manage project to completion & provide appropriate follow-up service/marketing efforts. BSCE, MSCE (pref'd).

Staff Engineering Geologist

1-3 yrs experience. CEG Career Path, field experience & excellent computer skills. Report writing experience & skills. Solid work history. BS, MS (pref'd).

Project/Senior/Principal Engineering Geologist
Min. 5-7-10 yrs experience (Project/Senior/Principal, respectively) CEG Career Path, varied geotechnical Project Management experience. Demonstrable client development history & experience. Seller/Doer - able to market/develop client, prepare comprehensive proposals, manage project to completion & provide appropriate follow-up service/marketing efforts. BS, MS (pref'd).

Fax/email resume stating position of interest to:

AMEC Earth & Environmental, Inc.

Attn: D. Cooper

Association of Engineering Geologists
Southern California Section

Desirée Dier
AEG Newsletter Editor
538 Silverbrook Dr.
El Cajon, CA 92019

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