



ASSOCIATION OF ENGINEERING GEOLOGISTS

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

NEWSLETTER – MAY 2001

MONTHLY DINNER MEETING

Date: Tuesday, May 8, 2001
Location: Stevens Steakhouse, 5332 Stevens Place, Commerce, CA
Time: 5:30 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, May 4, 2001
Cost: \$25.00 per person with advanced reservations, \$30.00 at the door, and \$10.00 for students w/ valid I.D., "No-shows" will be billed \$10.00

SPEAKER: Dr. Andrea Donnellan
TITLE: The use of space technology for the study of earthquakes and plate tectonics

ABSTRACT:

Spaceborne measurements can be used to measure even the slightest movement of the earth's crust. This information tells us about plate tectonics and the behavior of faults and earthquakes. Global Position System (GPS) and Interferometric Synthetic Aperture Radar (InSAR) measurements indicate that motion on the fault that caused the Northridge earthquake continued to occur for 2 years following the earthquake. The mountains grew an additional 12 centimeters during this time. Other work showing how GPS is used to measure rebound of the earth's crust in Bolivia and tectonic spreading in Antarctica may be presented.

BIO:

Andrea Donnellan is a geophysicist and deputy manager of the Exploration Systems Autonomy Section at NASA's Jet Propulsion Laboratory. She received her Ph.D. in Geophysics in 1991 and her M.S. in Geophysics in 1988 from the California Institute of Technology. She received a B.S. in Geology with a minor in mathematics from Ohio State University in 1986. During her time at Ohio State, she spent a summer working at Sohio's Research and Development Laboratory. She was a National Research Council Resident Research Associate at the NASA Goddard Space Flight Center for two years before joining the Jet Propulsion Laboratory in 1993. She has also been a Visiting Associate in the Seismological Laboratory at Caltech, and is a research professor at the University of Southern California.

Andrea Donnellan has extensive field experience and has spent 6 seasons in Antarctica between 1983 and 1999. She has worked throughout southern California including on the San Andreas fault and in the regions of the 1994 Northridge and 1999 Hector Mine earthquakes. She has also carried out fieldwork throughout northwestern Mongolia, including drilling on Lake Hövsgol, and on the Altiplano of Bolivia at the Uyuni Salt Flat.

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jake.holt@hotmail.com

Andrea Donnellan is an active public speaker and in 1997 received the Southern California Earthquake Center's award for outreach in education. She has also received the US Presidential Early Career Award (1996) and JPL's prestigious Lew Allen Award for Excellence (2001). She has twice been a finalist in the astronaut selection process and continues to pursue the goal of becoming an astronaut. Andrea Donnellan is a private pilot, and also enjoys running, ballet, piano, and photography.

CHAIR'S COLUMN

By David Seymour

Our April joint meeting with **SCGS** was a great success and well attended, with over 90 attendees at the El Adobe Restaurant in San Juan Capistrano. **Dr. Roy Shlemon** (honorary AEG member) gave an updated and insightful presentation on ground fissures and subsidence in southern California. It seems that everything from active faults to cow manure can create cracks in the sensitive soils of southern California. The latter as a causative agent is not hard to fathom, once you consider that the average dairy cow produces around 27,000 pounds of manure annually. In short, manure should be left for composting, not grading. Thanks again Roy for a great talk!

Also present at the April meeting was Paul Sweeny, Executive Officer of the **Board of Geologist and Geophysicists (BGG)**. Paul briefly discussed the status of the board and our revised act, which is included in Senate Bill (SB) 136. Our Legislative and Regulatory Affairs Chair, **Joe Cota**, along with **Buzz Spellman**, **Hugh Robertson**, and **John Wolfe**, prepared a letter in support of SB 136, provided that Section 7833(c) was deleted. This section states: " **Any geologist or geophysicist performing services through the firm, corporation or government agency shall not be relieved of personal liability for negligence, misconduct or wrongful acts committed by that geologist or geophysicist**". Similar statements are included in the acts of other registered professionals, thus, those revising the act felt it necessary in our act as well. Our Leg Committee objected to this section because the purpose of the BGG is to govern and discipline us with respect to the act. The BGG was not formed to preside over our personal liability. We are already personally liable for the work we do under California law. **Buzz Spellman** will attend the April 20, 2001, BGG meeting in Sacramento and provide us with an update in the next newsletter.

Earlier this year, I had some concern that the BGG may not be able to form a quorum as **Sheena Hoose (SFO section member)** and David Cummings terms on the board will end this summer. Paul Sweeny informed me that most likely both members will extend their terms another year to keep the BGG solvent. A quorum of four is needed for the seven-member board, which is now down to five members, two professionals and three public members. Gov. Davis apparently has been letting

numerous boards and other government bodies degrade to bare minimum numbers in order to allow him to fill the most number of vacancies with his "people". The political spin on this would have you believe that its more time efficient, since the time spent making appointments is reduced. At this point, Gov. Davis is in greater need of spinning electrons than political spins.

We'll be raffling off more of **Larry Cann's** library this month, which was a great success at the April meeting. I hope to see you in May!

PROBABLISTIC SEISMIC HAZARDS SHORT COURSE

There is still some limited space for our short course with **Dr. Robert Sewell**, **Thomas Blake**, and **Chuck Real**, scheduled for May 18, 2001 at the USC Davidson Conference Center. Please contact **Kerry Cato** at 909-506-9688 or kcato@earthconsultants.com for more information.

MEMBERSHIP RENEWAL FORMS

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.

Along the same lines, we have mailed colored newsletters to members whose dues are not current. If you received a newsletter other than white for May, this will be your last newsletter until your dues are current.

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 **Desirée Dier** at ddier1@home.com if you would like receiving the e-mail version only.

Robert Pierotti has volunteered to be our webmaster. Robert is the webmaster for one of the web sites maintained by the California Department of Water Resources. Thanks Robert for volunteering your time. Our web site will be up and running once funding becomes available.

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.

MEETINGS AND FIELDTRIPS

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/>

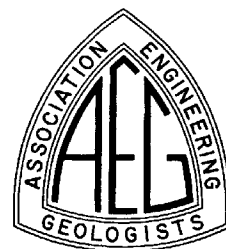
YEAR 2001 MEETING SCHEDULE

| <u>Date</u> | <u>Speaker</u> | <u>Location</u> |
|--------------------------------|------------------------|--------------------------------------|
| 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 |
| 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 | Joint meeting with IGS | 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)

DIBBLEE MAPS NOW ON CD

The Dibblee Geological Foundation recently produced 100 CDs of 18 of Tom's geological maps. Each CD includes 23 quadrangles from Camarillo to Mt. Wilson. CDs are available prepaid for \$110. Mail requests to:

Dibblee Geological Foundation
P.O. Box 2309
Camarillo, CA 93011
(805) 987-5846

EMPLOYMENT OPPORTUNITIES

The **County of Riverside** Human Resources Department invites resumes for the position of:

ASSISTANT ENGINEERING GEOLOGIST

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The Planning Department of the Transportation and Land Management Agency is seeking an Assistant Engineering Geologist to plan, organize and assist the engineering geology function. Performs geological review, research and analysis for environmental assessment of Planning Department cases; gathers geologic information for use in a variety of programs and studies; serves as a consultant to other county departments on geologic matters, and performs other work as required. See "Hot Jobs" at www.co.riverside.ca.us/depts/hr for detailed job information.

REQUIREMENTS: Registered California Geologist; Certified Engineering Geologist; Bachelor's degree in geology or engineering geology; Ability to compose clear and thorough staff reports that reach logical conclusions, formulate consistent recommendations and generate alternatives; Ability to explain complex geological concepts in simple non-legal terms to professional Planning staff and members of the public during inquiries; Ability to interpret and apply laws and regulations pertaining to geologic hazards and surface mining; Self starter.

TO APPLY: Submit cover letter and a detailed resume via email to Jobmatch@co.riverside.ca.us.
(Recruiter: Jackie Terry (909) 955-3568)

AMEC**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 communication 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
Fax: (714) 779-8377
Email: donna.cooper@amec.com

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.

AEG SOCIAL SECTION COMMITTEE CHAIRS

MEMBERSHIP – Wendy Schell (949) 653-7150
LEGISLATIVE AND REGULATORY AFFAIRS - Joe Cota (818) 785-2158 (cotageo@thevine.com)
PUBLICATIONS - Dawn James (818) 707-8320 (djames@leightongeo.com)
FIELD TRIPS - OPEN
SHORT COURSES - Kerry Cato (909) 506-9688
EDUCATION - Ali Tabidian (818) 677-2536
EDITOR - Desiree Dier (619) 445-5336 (ddier1@home.com)

RATES FOR ADVERTISING IN AEG SOCIAL SECTION NEWSLETTER

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|--------------------|----------|
| 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 |



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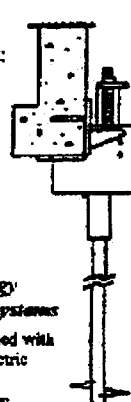
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| <p>21031 Blythe Street, Canoga Park, CA 91304 (818) 998-8178</p> | |

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ENVIRONMENTAL RECORDS REVIEW
Site Assessment Report - Meets Year 2000 ASTM Standards

Our report identifies agency-listed hazardous waste / contaminated sites, solid waste landfills, hazardous waste transfer stations, spills, underground storage tanks and leaking underground fuel tanks in proximity to the subject site. The databases used were obtained from selected government agencies in charge of collecting and keeping such records in accordance with ASTM E-1527-00 (Standard Government Records Inquiry for Commercial Real Estate Transactions).

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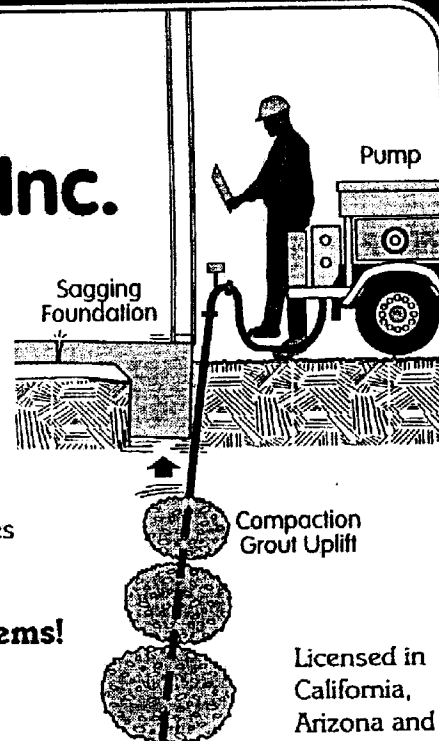
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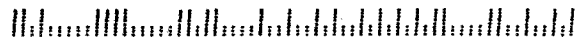


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Southern California Section

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