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Next AEG SF Section Meeting on Tuesday, July 11, 2000, 6 pm, Sinbad's Restaurant, Embarcadero, San Francisco

This meeting is the 2nd Tuesday of the month and will be at Sinbad's Restaurant south of the Ferry Building on the Embarcadero in San Francisco. Dinner and meeting cost \$28 for members, ½ price for student members who call Dr. John Williams (408-924-5050) by noon, July 7. **Please make all reservations by noon, Friday, July 7.**

Program: THE BEHAVIOR OF ROCK IN SLOPES, by D. Scott Kieffer, Jacobs Associates, San Francisco

The geotechnical engineer has an abiding interest in rock slopes, as part of the natural environment and terrain in which he or she works, or as a vital part of a Work to be constructed above or below ground. Because rock structures and compositions vary within wide limits, the range of behavioral styles is rich. For design, it is therefore helpful to be acquainted with and be able to recognize the diverse ways in which rock slopes can fail.

Several examples of common (although not universally recognized) failure styles will be reviewed, together with observable characteristics that distinguish one from another. *Rock slumping*, a failure mechanism involving backward rotation of hard blocks, will be drawn upon to illustrate fundamental differences in soil and rock slope behavior and the importance of geological field characterization in slope stability evaluations. The ability to discriminate and analyze the failure styles presented is considered an essential aspect of rock slope engineering practice.

SPEAKER'S BIOGRAPHY

Scott Kieffer began his professional career with Harlan Tait Associates upon receiving an undergraduate degree in Geology at U.C. Santa Cruz. He then obtained M.S. and Ph.D. degrees in Civil Engineering at U.C. Berkeley. Scott's graduate research with Professor Goodman focused on methods to recognize and analyze slope failures in jointed rock masses. Two years have passed since these efforts, but their collaboration endures. In this presentation Scott will summarize a forthcoming publication by Goodman & Kieffer entitled "The Behavior of Rock in Slopes" (ASCE Journal of Geotechnical and Geoenvironmental Engineering, August 2000).

Scott is a California Registered Geologist and Certified Engineering Geologist. In 1998 he received AEG's Douglas R. Piteau Outstanding Young Member Award, and he is currently involved with several efforts to improve the state of practice in rock slope engineering. He is a member of USCOLD's Committee on Reservoir Slope Stability and Southern California Earthquake Center's Committee to Implement CDMG Special Publication 117, "Guidelines for Analyzing and Mitigating Landslide Hazards in California". Scott is an Associate Engineer at Jacobs Associates in San Francisco.

MEETING DETAILS – July 11, Sinbad’s Restaurant, Embarcadero, San Francisco

6pm: No-host bar, sign-in and dinner payments
7pm: Dinner and announcements
8pm: Technical program
Costs: \$28 per person for members and spouses
\$14 for student members who call Dr. John Williams at 408-924-5050 before noon, July 7th.
\$30 for non-members

Check or cash due at the door. Please do not mail payment. Please fax or mail the reservation form on the back page to Treasurer Dennis Maslonkowski, to arrive by noon, **Friday, July 7.**

Fax: 510-233-3204
Mail: c/o ARCADIS Geraghty & Miller
1050 Marina Way South
Richmond, CA 94804.

Please make a reservation if you plan on attending.

The AEG San Francisco Section Newsletter is a monthly publication of the San Francisco Section of the Association of Engineering Geologists. Submittal deadline is the 20th of each month for the following issue. Contact Gretchen Mora by email (aegnews@visto.com) or by phone (510-633-5640) for submittal. Job announcements are free if brief.

Address changes: Please submit to Section Secretary Corinne Stewart
By phone (408-629-7801).

Advertisements: The newsletter’s circulation is about 360 within northern California. Use these low rates to expand your market:

	<u>Yearly</u>	<u>Monthly</u>
Business card	\$ 110	\$ 10
1/4 page	\$ 350	\$ 40
1/2 page	\$ 600	\$ 70

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650-688-6755
emathieson@exponent.com

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Ernie Solomon
650-948-3528
esolo@earthlink.net

Field Trip Chair

Open for volunteers!!

SPONSORS SOUGHT

Sponsors are still needed for the publication of “Engineering Geology Practice in Northern California.” Please contact Dennis Maslonkowski (510-233-3200) to donate to this excellent volume.

CHAIR’S MESSAGE

I will be searching for a new meeting venue, especially since our present location, Sinbad’s, is going to charge us \$27 per dinner. The San Francisco Section rates as one of the most expensive meeting costs of all the Sections. The Sacramento Section meets at a brewpub with very reasonable rates. I know some say that members will come and pay a higher rate, but I also receive comments from other members who would rather not pay as much.

We are still nominating officers for the Section. We don’t have a firm nomination for the position of vice-chair. Except for the chair, these are one year positions. We are looking for new volunteers at all times. Contact Betsy Mathieson if you want to serve, or have a nomination.

Sponsors are still needed for the “Engineering Geology in Northern California” volume. We are roughly two-thirds of the way towards our goal. Please send sponsorships to Dennis Maslonkowski.

I received over twenty responses to the USDA request for consultants with experience in erosion and sedimentation, particularly tires as erosion control. I have sent the list to the USDA, and will follow up to find out what their next step will be.

Gretchen should have our new web site, aegsf.org (or a variation), up and running about the time this newsletter comes out. We will be linked to AEG HQ. Gretchen will be looking for comments and further input to the web site. We would hope that the web page will become a reference (bookmark) for many of our members. The web site will complement the existing visto.com newsletter site.

GARY PISCHKE

Get Involved in AEG!
Nominations are being accepted for all officer positions for the 2000-2001 year. Submit your name or someone else’s (with their permission!) to Betsy Mathieson at emathieson@exponent.com

UPCOMING MEETINGS

Our August talk is titled “Remediation/ Contamination of Mine Tailing Waste in Permafrost Regions” by Joey Meldrum.

If you are interested in speaking at an upcoming Section Meeting, or know someone who would give a great talk, please call Jason Preece, Section Vice-Chair, at 925-933-2900.

MAY SECTION MEETING NOTES

Sinbad's was a great place to be on the second Tuesday in June. The temperature was cooler than it was elsewhere in the Bay Area (or at least cooler than San Jose) and the view of the Bay was gorgeous. There was a good turn-out for a summer meeting, including about 5 students.

The program, "Geology of Sunol Valley, as Determined from a Siting Study for a New Water Treatment Plant", was presented by Charles Kissick of Sigma Prime Geosciences. This topic tied in well with Alan Hatheway's presentation on the importance of site characterization (San Francisco Section AEG Meeting, May 2000).

The San Francisco Water Department plans on increasing their water treatment capabilities in the Sunol Valley (part of the Hetch Hetchy system and the heart of the San Francisco water system). Four sites in the southern Sunol Valley were examined as potential sites for a new water treatment facility. Geotechnical and geologic issues, including fault rupture, ground water, and landslides, were examined at each of the potential sites. Field studies included 20 soil and rock borings, 4 fault trenches, 18 seismic refraction lines, 10 piezometers, and carbon dating. Amounts of cut and fill in each of the proposed sites were considered and problems with steep slopes, high cuts, and thick fill were examined. The Sinbad Fault (previously suggested in the area based on geomorphology) was not located. Three different studies on the Calaveras Fault yielded three different rates of creep. Further studies for this project include: more trenching, more investigation of the Sinbad Fault, identifying tilt and age of stream terraces, more boreholes in bedrock, better identification of bedrock units based on thin-sections, and investigation of local gravel pits.

CORINNE STEWART

Thanks to our Corporate Sponsors!

Applied Geomechanics – Santa Cruz
Exponent Failure Analysis – Menlo Park
Geo Test Unlimited – Nevada City
Gregg Drilling – Martinez
Upp Geotechnology – San Jose

FALL COURSE OFFERINGS AT SFSU

San Francisco State University Department of Geosciences
Fall 2000 Graduate Course: Geol 475/775 - Hydrogeology (MT 1710-1825; T 1410-1700). For other course info go to:

<http://tornado.sfsu.edu/geosciences/geosciences.html>

Fall 2000 Instructor(s) needed! Geol 101- Intro to Geology Lab (W 1410-1700), Geol/Metr 103- Intro to Oceanography Lab (M 1410-1700). Contact Angelica Fausto (afausto@sfsu.edu; 415-338-2061).

EDITORIAL

Dear fellow geoscientists,

I am writing to discuss an incident that I feel needs to be addressed by the California State Board of Registration for Geologists and Geophysicists. I bring it to your attention as an example of what I think is a failure of the SBRGG to perform its regulatory duties. I am therefore requesting that the Board reopen my case 01-96-7 for enforcement because I believe it was given a cursory examination and then prematurely closed.

The infraction I refer to involves a very remote Caltrans hazardous waste site in Northern California opened for bid in June 1994. I had just started my firm and was attempting to subcontract a portion of this project. An environmental contractor and I had examined the site together and had discussed the terms of a work agreement between us. The contract that was drafted, however, was not to my satisfaction. A second and third contract were drafted, and neither stipulated that a registered geologist be on site to supervise sampling at this remote site, as had originally been requested by Caltrans and as is explicitly required by SBRGG regulations. I brought this issue to the attention of an SBRGG officer and was advised not to accept the contract. I did as I was instructed, but later discovered from another subcontractor that the investigation had apparently been conducted without a registered geologist on site. The investigating contractor even offered to pay me to review the site report and sign it as a registered geologist, even though I had not been on site to supervise the work, and would be legally liable for any infractions or errors that might have been committed by the investigating team. This practice, or at least parts of it, are clearly unethical and in blatant violation of the SBRGG Code of Regulations; specifically Article 6, section 7872(g).

I have written to two Caltrans managers informing them of this activity and requesting a hearing, and their response was to offer me compensation, but not a hearing. I personally petitioned the SBRGG to consider my case at a public meeting in Sacramento, and the Board subsequently sent an Enforcement Officer to visit me. He spent some time at my office examining the evidence I had on this case and told me that he felt infractions had been committed, but no further work has been done. I have appealed my case to two Executive Officers and two Presidents of the State Board of Registration for Geologists and Geophysicists requesting that I be granted a hearing. Eight qualified state registered geologists have reviewed my case, and all have written to the Executive Officer of the SBRGG requesting that I be granted a hearing. Each of us has received official letters assuring us that the matter will be reviewed, but to date no hearing has been held.

I am only asking that I be given an opportunity to present my complaint to the Board in a sanctioned hearing. An SBRGG officer originally advised me to turn down this contract at a time when I was struggling to establish my business in a very competitive market. Yet this same regulatory agency does not see fit to pursue my case when there is compelling evidence that an SBRGG regulation has been violated.

(Continued on Page 4)

Editorial (continued)

I am aware of other registered professional geoscientists who have had cases of regulatory violations ignored by the SBRGG. I encourage them to continue to appeal their grievances. These infractions are a serious threat to our professional livelihood. Registered geologists, engineering geologists, geophysicists, and hydrogeologists have worked hard to pass the state registration exams and then must pay annual fees to maintain these credentials. Is it asking too much to demand that the Board also uphold its duties to carefully examine incidents where there is evidence that illegalities have been committed? It not only ensures an honest and fair business environment for geoscience professionals; it also protects the public from fraudulent activities by individuals who are not qualified to perform these tasks. **Regulation without enforcement is worse than no regulation at all!**

Respectfully yours,

Tridib Guha
Advanced Assessment and Remediation Services
Concord, California
(925) 363-1999
aars@ccnet.com

GEOLOGY IN ADVERTISING

Geology in Advertising is a "just for fun" poster that is being presented at the Annual Meeting in San Jose, September 2000. I am looking for contributions from anyone and everyone. To contribute to this poster, send an ad (newspaper, magazine, etc.) or label (bottled water, etc.) or anything else that is advertising and relates to or uses geology, to:

Corinne Stewart
2622 Gassmann Drive
San Jose, CA 95121.

Include your name, the source of the ad (if possible), and any comments that you would like to make. Contact Corinne by email at stewart_corinne@hotmail.com.

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CONTOURING SHORT COURSE OFFERED

Dr. Sands Figuers will teach a short course in subsurface contouring. The course will cover the basics of geologically based contouring techniques and will include:

- Effect of conceptual models (how to use them and how to abuse them);
- The mechanical process (how to, as well as do's and don'ts), and
- Computer-based methods (kreiging and other unpronounceable methods).

Examples and work problems will be liberally supplied. Sandy says, "Subsurface contours are used to depict the size, location, and shape of the geologic variable(s) being mapped. As such, each contour represents a prediction by the interpreter about that variable. To make effective predictions, the interpreter must have some geologic model in mind. Without a model, contouring is simply an exercise in connecting the dots."

The course will be held Saturday, July 29, 2000 at the LFR Levine Fricke offices, 1900 Powell St. in Emeryville. Registration at 0830, class will start at 0900 hours and take about four (4) hours. The charge will be \$25 for AEG members, \$30 for non-members, and \$5 for students.

Please use the following enrollment form to sign up for the course! Submit it to Ernie by fax, snail mail or email (see below).

ENROLLMENT FORM for CONTOURING SHORT COURSE

Date: July 29, 2000
Time: (registration) 0830, (class) 0900-1300
Location: LFR Levine Fricke
1900 Powell St.
Emeryville, CA 94608

Contact: Ernest Solomon
Phone: 650-948-3528
E-mail: esolo@earthlink.net
Fax: 415-522-5220 (c/o Olivia Chen Consultants)
Snail mail: 27500 Elena Road, Los Altos Hills, CA 94022
Fee: (pay at the door) Member \$25
Non-AEG member \$30
Student \$ 5

Please make reservations as soon as possible. Class size is limited!

Name: _____
Status: _____
(AEG member, non-member, student)
Phone No.: _____

NEWS FROM THE AEG•GRA 2000 TEAM

What's new for AEG•GRA 2000? We're planning a multi-author booksigning event at the Icebreaker on September 21. You will have a chance to purchase any of several books that relate to geology and engineering geology, in both textbook and popular formats, and have them autographed by the author. We are still negotiating with authors and their publishers, so the list of titles will be announced later. (Check www.aegweb.org).

AEG•GRA 2000 is the Annual Meeting you will not want to miss. No matter what your specialty is, there will be technical sessions of interest and value on all three days. All 252 traditional spoken presentation slots are filled, plus at least a dozen poster session slots. Ten symposia, covering a wide range of cutting-edge topics, are included in the technical sessions. The meeting time frame is September 19-26, with field trips and short courses flanking the core technical sessions held on September 22-24.

Eight world-class field trips are ready to go, and the field trip guidebook will be a valued reference for years to come. Four short courses will introduce you to state-of-the-art technology and provide real-world experience under the guidance of experts. The Exhibit Hall is full with all 42 booths taken. Spend some quality time with these experts and see what new technology is headed your way.

Double your discounts: register as an AEG or GRA member by August 21 and you will receive both the early registration discount and the member discount. You can print an AEG membership application form, print the meeting registration form, and reserve a hotel room at the AEG web site, www.aegweb.org. GRA membership application forms are available on-line at www.grac.org. The hotel room block is limited, so make your hotel reservations early to take advantage of the special block rate.

The Program with Abstracts volume will be delivered in July to GRA and AEG members. For non-members, a limited number of complimentary copies will be available from AEG. Contact Julie Keaton at 520-204-1553 or at meetings@aeg.tamu.edu.

BOB TEPEL

STUDENT VOLUNTEERS NEEDED FOR AEG 2000 NATIONAL MEETING IN SAN JOSE

The 2000 National AEG Meeting is being held September 19th through September 26th in San Jose, CA. Over 50 student volunteers are needed for the meeting. Some of the "perks" of being a student volunteer are as follows:

- Free full registration including registration gift, complimentary exhibitors luncheon and ice breaker reception
- Priority for the free annual banquet ticket raffle (last year all of the volunteers received tickets)
- A great opportunity to network and learn more about

engineering geology

- A great opportunity to meet other students (informal student get-togethers will be planned)
- Something great to put on your resume!
- If you are a student volunteer for a short course or field trip, you get all of the hand-outs and materials that the registered participants receive (priority goes to the first students who volunteer)

If you are interested in being a student volunteer and/or would like more information, contact Corinne Stewart at (408) 629-7801 or stewart_corinne@hotmail.com.

ANNOUNCEMENTS

Student Resume Binder for AEG 2000 Meeting

A binder of students' resumes will be available for review at the AEG National Meeting in San Jose, September 2000. Copies of the individual resumes will be available to interested employers. You do not have to attend the meeting to submit a resume. If you are interested, please contact Corinne Stewart by email at: stewart_corinne@hotmail.com.

The AEG San Francisco Section Web Site is now online! Go to www.aegsf.org for the latest information on San Francisco Section Events, Meetings, AEG 2000, Links and more to come!

Extra AEG 1999 Salt Lake City Meeting bags for sale! See Gary Pischke at the July meeting to purchase one.

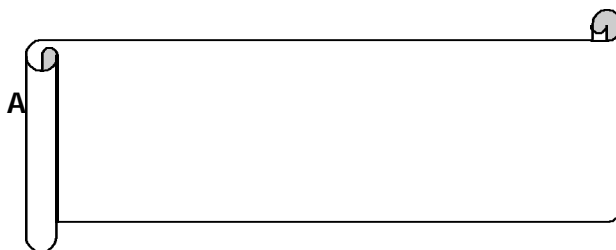
EMPLOYMENT OPPORTUNITIES

SENIOR ENGINEERING GEOLOGIST

Exponent Failure Analysis Associates seeks a senior engineering geologist to join its Geological, Geotechnical and Geo-Environmental (Geo3) group based in Menlo Park, CA. The group has 14 geoprosessionals. Minimum qualifications are an MS in Engineering Geology or Geological Engineering, more than 8 years experience (including geotechnical aspects of engineering geology), and a California CEG license. Experience with tunnels and excavations is most desirable. Exponent has a staff of more than 700 people in 25 offices, representing more than 50 engineering and science disciplines. Contact: Betsy Mathieson, CEG, Exponent Failure Analysis Associates, 149 Commonwealth Drive, Menlo Park, CA 94025; phone (650) 688-6755; email: emathieson@exponent.com

Gretchen Mora – Newsletter Editor
37192 Oak Street
Fremont, California 94536

AEG July Newsletter
July 11 - AEG Meeting
Sinbad's Restaurant
Embarcadero, San Francisco



RESERVATION FORM – July 11, 2000 AEG Dinner Meeting, 6pm

Sinbad's Restaurant, Embarcadero, San Francisco

Please Fax or Mail your reservation to arrive before noon, Friday, July 7

Fax to Dennis Maslonkowski, c/o ARCADIS Geraghty & Miller (510) 233-3204 - Pay at the door – Do not send payment.

Dinner and Meeting Cost: \$28 – members or spouses \$14 – student members \$30 – others

NAME _____ COMPANY _____

TELEPHONE NO. _____ NO. OF PEOPLE _____

PERMANENT RESERVATION FORM

AEG San Francisco Section Monthly Dinner Meetings are usually but not always on the 2nd Tuesday of each month.

I will attend and make payment for each meeting. If I am unable to attend I will fax or mail a cancellation notice to

Dennis Maslonkowski (fax: 510-233-3204) by noon, the Friday before the meeting.

NAME _____ TELEPHONE NO. _____

BILLING ADDRESS _____

SIGNATURE _____ DATE _____

Dinner Costs are normally but not always: \$28 – members or spouses \$14 – student members \$30 - others
