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ENGINEERING GEOLOGISTS**
Southern California Section

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NEWSLETTER – FEBRUARY 2000

Monthly Dinner Meeting

Date: Tuesday, February 8, 2000
Location: Wyndham Garden Hotel, 3350, Avenue of The Arts, Costa Mesa
Time: 5:30 p.m. - Social Hour; 7:00 p.m. – Dinner and Presentation
Reservations: Call (949) 253-5924, ext. 564 by 5:00 p.m., Friday, February 4, 2000
Cost: \$25.00 per person with advance reservations, \$30.00 at the door, and \$12.00 for students w/ valid i.d. "No-shows" will be billed \$10.00.

Speaker: **LISA B. GRANT, ASSISTANT PROFESSOR, UC IRVINE**

Subject: **EARTHQUAKE POTENTIAL OF THE SAN JOAQUIN HILLS FROM ANALYSIS OF LATE QUATERNARY MARINE TERRACES AND HOLOCENE SHORELINES**

Lisa Grant joined the Department of Environmental Analysis and Design in the School of Social Ecology at UC Irvine in 1998, where she currently teaches environmental and earthquake geology and conducts research on active faults. Dr. Grant earned a B.S. degree in Environmental Earth Science from Stanford University and then attended Caltech where she completed dual M.S. degrees in Environmental Engineering and in Geology followed by a Ph.D. in Earthquake Geology and Geophysics. Her primary research emphasis is characterizing the earthquake potential of active faults. She has published several papers on the earthquake potential of the San Andreas fault. She has recently turned her attention toward seismic hazards in Orange County and published papers on the southern Newport-Inglewood fault zone and the earthquake potential of the San Joaquin Hills. She is an Associate editor of the Bulletin of the Seismological Society of America and guest editor for a forthcoming BSSA special issue on paleoseismology of the San Andreas fault. Before joining the faculty at UCI, Lisa was an assistant professor at Chapman University, and worked in the geoenvironment group at Woodward-Clyde Consultants.

Analysis of emergent marine terraces in the San Joaquin Hills and ²³⁰Th dating of solitary corals from the lowest terraces reveal that the San Joaquin Hills have risen at a rate of 0.21 - 0.27 m/k.y. during the past 122, 000 yr. Movement on a blind thrust fault in the southern Los Angeles basin has uplifted the San Joaquin Hills and has the potential to generate a $M_w > 7$ earthquake within this densely populated area. Structural modeling suggests that the fault dips to the southwest and slips at approximately 0.42 - 0.79 m/k.y. Recognition of this blind thrust extends the known area of active blind thrusts and fault-related folding southward from Los Angeles into coastal Orange County. The historic record of earthquakes in the Los Angeles basin spans <250 years and contains few earthquakes greater than M 6.5. She will present evidence that marsh deposits and shorelines on the San Joaquin Hills coast were raised 1 m to 3.6 m above the present shoreline by a M 6.7 - 7.3 earthquake. Radiocarbon dating and the historic record of earthquakes suggest that uplift occurred between 1635 and 1855 A.D. Tectonic uplift of the San Joaquin Hills may present a potential tsunami hazard for southern California coastal communities.

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CHAIR'S COLUMN

Legislative issues have heated up for California geologists in the last month or two. The Southern California Section has sent a letter to the Board of Registration in response to the request for public comments regarding limiting the use of RG and CEG seals. The legislative Committee is strongly against the board adopting regulations restricting the use of a geologist's seal. At the time of writing this, the public hearing on this issue has not been held but when further news becomes available I will pass it along.

Another hot item for the legislative committee has been the proposal by the Legislative Sunset Review Committee to dismantle the Board of Registration and either form a Bureau under the Department of Consumer Affairs (DCA) to manage geology or merge the current board with the engineers board. All three California Sections of AEG are strongly opposed to either of these actions and we are working closely with our lobbyist in Sacramento, Judy Wolen, to form a plan of attack to save our board. Judy and representatives from the Sacramento and San Francisco Sections of AEG and CCGO held a day of meetings in Sacramento last week with representatives from the DCA and the Sunset Review Board to educate them about why the Board is necessary for the safety and protection of the California public. This day of meetings was the first step toward saving our board, our next step will be a letter writing campaign. I expect the Legislative Committee will have sample letters prepared within the next couple of weeks for members to send to the appropriate politicians. If you are interested in receiving a letter to send out, please contact me by email (schellbw@aol.com) and I will forward you a sample letter as soon as it is prepared.

As I promised last month, I have prepared a calendar of meetings for the coming year. This is a preliminary calendar and meeting venues are subject to change but the general vicinity of each meeting should be unchanged:

February 8

Wyndham Garden Hotel, Costa Mesa, Joint meeting with South Coast Geological Society

March 14

Steven's Steak House, Commerce. Joint meeting with ASCE Geotechnical Group

April 10

San Diego State University, Joint meeting with SDSU Student Chapter

April 11

Luminaria's, Monrovia

May 9

Steven's Steak House, Commerce

June 13

El Adobe Restaurant, San Juan Capistrano

July 11

Steven's Steak House, Commerce

August 8

Venue to be announced

September 12

Steven's Steak House, Commerce

October 10

Venue to be announced, Joint meeting with Inland Geological Society

November 14

Radisson Valley Center Hotel, Sherman Oaks

December 12

Steven's Steak House, Commerce

Lastly I would like to welcome two new members to the Southern California Section as well as a new corporate member, Earth Consultants International. I strongly encourage other geotechnical companies to consider joining the Association. Corporate membership forms are available at every meeting and by contacting me at 949-653-7150.

Wendy Schell, Chairman.

INSIDE THE ANNUAL MEETING:

A Guide to AEG 2000

By Robert E. Tepel, General Chair

Editor's note: In this and the next two issues Bob Tepel, the General Chair of AEG's 2000 Annual Meeting, will provide advance notice of some of the happenings planned for San Jose in 2000. Bob will also be requesting your input to make the meeting a success by delivering the

INSIDE THE ANNUAL MEETING (cont'd)

features you and your family want.

We have a very talented team at work for you on AEG 2000. San Jose is “the capital of Silicon Valley” and has top attractions for members and their families.

Our venue is the Doubletree Hotel near San Jose International Airport. The hotel provides free shuttle service. When you make your travel plans for AEG 2000, start by specifying San Jose International Airport (SJC). If you fly into San Francisco or Oakland, be prepared for a 40-mile ride to San Jose.

The meeting schedule is offset from our traditional timing. The three days of technical sessions will be on Friday, Saturday, and Sunday, September 22, 23, and 24, 2000. There are a couple of reasons for this. A survey indicated that members wanted to come to the annual meetings, but did not want to spend a full week away from the office as they were almost forced to do with mid-week technical sessions. Then the Silicon Valley business boom occurred. Hotels were full during the week and had low occupancy on weekends. We could negotiate lower room rates for AEG 2000 if we did not compete with the business travelers. AEG Members are very room-rate aware, so we opted for a schedule that kept room rates as low as possible.

Another advantage of the weekend timing of the meeting is that family participation is attractive. San Jose has a Children’s Discovery Museum, the Tech Museum of Innovation, the Intel Museum, an art museum, historic sites, and Great America and other recreational opportunities nearby. Regionally, the San Francisco Bay area has a lot to add for family activities as well as attractions for the parents. We’ll be taking advantage of these facilities and opportunities when we plan the spouse/guest activities and the field trips.

Your input wanted. The traditional scope of spouse-guest activities is not attracting good attendance. What needs to change here? Our AEG 2000 spouse/guest activities coordinators, Alice Tepel and Linda Upp, would like your fresh thinking on the sort of spouse/guest and family activities you and your family want. Email your ideas to bobtepel@pacbell.net and I’ll forward them.

Speaking of room rates.... They keep creeping up, it seems. Members correctly note that the cost of a room at the AEG meeting hotel is high compared to what they

typically pay on vacation or a business trip for similar accommodations in a non-meeting hotel. Meeting hotel rates are higher because it is the room rental that compensates the hotel for all of the function space AEG uses. The hotel wants to be assured of a certain amount of revenue, so we make room-night guarantees to the hotel to secure a reasonable room rate. We must pay a penalty if we do not fulfill those room-night guarantees. That is the way the meeting business is, and that is why every organization encourages its members to stay at its meeting hotel. AEG is not a priority customer for a meeting hotel because we use more function space than other organizations that can bring in the same room revenue.

My goal is to have an annual meeting that is successful in technical, professional, social, and financial aspects. From my standpoint as General Chair, an AEG Annual Meeting is best viewed as a complex and risky entrepreneurial enterprise. This has a very real impact on what we can offer you the member, and especially on the costs and sign-up and cancellation deadlines for basic registration and all events.

AEG 1999/2000 SALARY SURVEY

By David Seymour, Vice Chair

Thank you to all the members that participated in the 1999/2000 Salary Survey. I received 80 responses, which represents roughly 15 percent of our local section membership. The salaries are base salaries only, and do not include bonuses or vehicle allowances. According to some of the comments I received, bonuses are an endangered species. Some also commented on the brevity of the survey. This was done on purpose with the hopes that members would fill out a short form with simple answers.

Categories in the survey included Annual Salary, Years of Experience, Registrations, Employer Information, and Job Location. The limited number of responses made it difficult to provide statistically meaningful correlation between the various categories other than Annual Salary and Years of Experience. As an example, salary ranges for different counties could be made, but would be dubious at best due to the small number of responses. The number of responses from each county were as follows: Los Angeles (17), Orange (21), Riverside (4), San Bernardino (4), San Diego (15), Santa Barbara (1), and Ventura (18).

An overall increase in median salary does occur with increasing years of experience. Some distinct overlap in salary, however, does occur in the Years of Experience ranges starting at 5 to 10 years. Table 1 summarizes the salary ranges and number of responses for the Years of Experience categories. The data were tabulated in Excel

97 for Windows format and can be obtained via e-mail from dcsnce@aol.com. Any other comments or questions should also be directed to the same e-mail address.

Table 1
Salary Range Summary

Years of Experience	Number of Responses	Salary Range	Average	Median
0 to 2	2	\$36,000 – 40,000	\$38,200	\$38,200
2 to 5	6	\$30,000 – 45,000	\$36,917	\$37,250
5 to 10	12	\$40,600 – 75,000	\$51,268	\$49,500
10 to 15	23	\$44,200 – 115,000	\$69,814	\$65,500
15 to 20	15	\$50,440 – 88,000	\$68,307	\$70,000
over 20	22	\$30,000 – 220,000	\$88,376	\$74,150

AWG to Co-Host AAAS Luncheon

AWG, AWIS, AAAS, WEPAN, GWIS, and other organizations working toward the advancement of women in science, engineering and mathematics are hosting a networking luncheon to be held in conjunction with the AAAS Annual Meeting. This luncheon will be held on Monday, February 21, 2000 in the Omni Shorham hotel in Washington, DC, from 1:00p.m.-2:30p.m.

This is your opportunity to meet with women from all areas of science and all career paths and levels, including nationally-known scientists and policymakers, in an informal setting. This event has become extremely popular and we look forward to another exciting afternoon. Come meet members of different organizations with similar goals, learn what they are doing to achieve success in their own careers.

If you would like to attend this luncheon, please reserve your space by contacting Maggie Toscano at president@awg.org as soon as possible. Although we do not know the final cost, we expect to charge attendees approximately \$30 for the luncheon, which may be paid at the door by cash or check.

MEETING ANNOUNCEMENTS

10th Symposium on the Geology of the Bahamas

June 8-12, 2000, Bahamian Field Station, San Salvador, Bahamas.

Contacts: Cindy Carney, Department of Geological Sciences, Wright State University, Dayton, OH 45435, (937) 775-3455, cindy.carney@wright.edu or Ben Greenstein, Department of Geology, Cornell College, Mt. Vernon, IA 52314, (319) 895-4307, bgreenstein@cornell-iowa.edu.

Web site URL:

www.geology.wright.edu/geology/events/symposium.html

Pamela Hallock Muller will be the keynote speaker at the symposium.

REQUEST FOR ASSISTANCE FROM SCOUTS

Rachel Fischer (Los Angeles Chapter) received the following request for assistance in locating rocks from a Boy Scout summer camp. Please help if you can.

"I teach the youth staff that teaches the Boy Scout summer camp geology merit badge program. I am also on the staff of the BSA's National Camp School for Southern California. I would appreciate assistance in locating resources that could loan or give us specimens and student lesson plans for boys in the 12-18 year old range. During the summer and spring break camps I volunteer at the Mataguay Scout Reservation; it is located near Warner Springs (NE of San Diego). Unfortunately it is located in an area that is mostly granite so I have been bringing to camp specimens to give the boys from other areas. To be specific I need to resupply the camp with specimens of coal, limestone, marble, Iron Pyrite, quartz, etc. I also try make sure there is a supply of small gastropods or other fossils so that each boy can have one to start his collection. Ideally we need enough for about 175 boys to last the summer, etc. If no one can make donations is there a source in southern California that can sell these at cost?"

Thank you, Earl Towson

etowson@tmisnet.com

POSITION OPENING

UNIVERSITY OF WISCONSIN-WHITEWATER/SOFT ROCK GEOLOGY

The Department of Geography and Geology at the University of Wisconsin-Whitewater has an anticipated opening for a tenure-track position in Geology. We seek applicants with (1) a strong commitment to teaching at the introductory and advanced undergraduate levels and (2) field-based research in paleontology and sedimentary geology. As one of two geologists in the department, teaching responsibilities will include introductory geology and (on a rotating basis), soft-rock courses including paleontology, oceanography, historical geology,

stratigraphy-sedimentation, and environmental geology. Productive research leading to publication and funding is also expected.

The department offers a minor in geology and has supporting teaching and research facilities including a research-quality petrographic microscope, XRD, and mineral and rock collections. Starting date is 27 August 2000, with salary dependent upon qualifications and experience. Qualifications include a Ph. D. (ABD considered) with demonstrated teaching ability and experience. A complete application should consist of a letter of application, vita, non-certified transcripts, and three letters of reference. The University of Wisconsin-Whitewater is an AA/EEO employer and encourages applications from women, minorities, Vietnam-era veterans, and persons with disabilities. Closing date for applications is February 7, 2000. For more information or to apply, contact Peter Jacobs, Geology Search Chair, Department of Geography and Geology, University of Wisconsin-Whitewater, 800 West Main St., Whitewater, WI 53190-1790. Phone 262-472-1082. Fax: 262-472-5633. E-mail: <jacobsp@uww!vax.uww.edu>. See also [tp://www.uww.edu/admin/employmt/fac.htm](http://www.uww.edu/admin/employmt/fac.htm).

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EMPLOYMENT OPPORTUNITIES

ENGINEERING GEOLOGIST

Dames & Moore is currently accepting applications for a staff geologist with our Los Angeles office. The position requires a BS degree in geology, entry level and experienced applicants will be considered. Applicant must be willing to perform field, as well as office duties. Interested parties should forward resume to: Dames & Moore, 911 Wilshire Boulevard, Suite 700, Los Angeles CA. 90017, Attention: Jason Holcomb, FAX: (213) 996-7673, E-MAIL: snajlh@dames.com.

FIELD/ENGINEERING GEOLOGIST

Immediate, challenging opportunity available for a geologist with mass grading experience. At least 3 years of field mass grading experience are preferred. Registration is considered a plus. Competitive pay commensurate with experience. EOE. Please fax your resume to Professional Service Industries, Inc., attention Brian Skyers, (818) 346-2069 or send via e-mail to bskvers@mediaone.net

GEOLOGIST

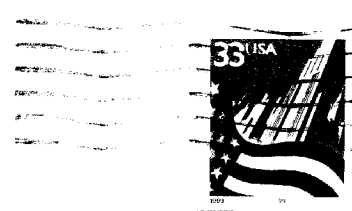
Zeiser Kling Consultants, Inc. is seeking a Staff Geologist for our Santa Ana office. Requirements include: BS degree in Geologic Sciences or related field, entry level experience will be considered, experience in the industry and hillside grading a plus. Please mail, fax or e-mail resume for consideration to: Zeiser Kling Consultants, Inc., 1221 E. Dyer Road, Suite 105, Attention: James Lancaster, Fax: (714) 755-1366, e-mail: jlancaster@zkci.com

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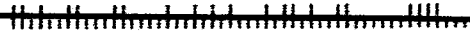
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