



## Meeting Details:

- **Tuesday, March 8<sup>th</sup>**
- Sinbad's, San Francisco
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Speakers
- \$30 members, \$15 students, \$35 non-members

**Reservations Due By NOON, MONDAY, MARCH 7<sup>TH</sup>!**

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Patrick Drumm  
Earth Focus Geological Services  
510-794-7495  
chair@aegsf.org

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MACTEC  
707-793-3841  
vice-chair@aegsf.org

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Exponent  
510-208-2025  
treasurer@aegsf.org

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Janine Weber-Band  
EnviroVision, Inc.  
925-356-2998  
secretary@aegsf.org

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membership\_chair@aegsf.org

### Short Course Chair

Ernest Solomon  
650-948-3528  
shortcourse\_chair@aegsf.org

### Field Trip Chair

Phil Johnson  
Cotton, Shires & Associates  
408-354-5542  
fieldtrip\_chair@aegsf.org

### CCGO Liaison

Seena Hoose  
Santa Clara Valley Water District  
ccgo@aegsf.org

## MARCH 2005 PROGRAM – STUDENT NIGHT

George E. Hilley, Department of Geological and Environmental Sciences, Stanford University

### ***IMAGING SLOW MOVING LANDSLIDES IN THE BAY AREA USING SYNTHETIC APERTURE RADAR INTERFEROMETRY PERMANENT SCATTERER ANALYSIS***

In the past, assessing the kinematics of large, slow-moving landslides has been hampered by difficulties in collecting high spatial- and temporal-resolution deformation data over broad areas. To overcome this problem, we use high-resolution InSAR Permanent Scatterer data resolve the rates and rate variations of slow-moving, continuously creeping landslides located within the Berkeley Hills in the Bay Area, California. The permanent scatterers InSAR method identifies radar-bright and phase-stable targets such as buildings, utility poles or rock outcrops within many (>15) SAR scenes to determine a high spatial- and temporal-resolution image of ground displacements. In the specific case of the Berkeley Hills dataset, the processing method provided precision of...

***(Continued on Page 3)***

Jeff More, Civil and Environmental, University of California Berkeley

### ***CHARACTERIZING SEEPAGE THROUGH NATURAL MORAIN DAMS FOR SITES IN THE SIERRA NEVADA AND CANADIAN COAST RANGE***

The self potential (SP) method has seen routine use for characterizing seepage through earth dams and embankment structures. This passive geophysical tool utilizes a simple field configuration to measure naturally occurring voltages on the ground surface over the area of interest. Measurements are made quickly and large areas can be covered with ease. For seepage investigations SP has proven to be a uniquely well-suited technique as it is the only geophysical tool that responds directly to moving fluids in the subsurface. A number of documented cases confirm that SP surveys can successfully characterize fluid flow through an earthen matrix, in particular flows that may cause seepage erosion and potential instabilities of embankment dams.

***(Continued on Page 3)***

John Radyk, Department of Geology, San Jose State University

### ***MODELING OF THE GROUNDWATER SYSTEM TO DETERMINE FEASIBILITY OF ARTIFICIAL RECHARGE NEAR VICTORVILLE, WESTERN MOJAVE DESERT***

Groundwater pumping around the town of Victorville, in the western Mojave Desert, over the last 50 years has resulted in a steady decline in water-table elevation. Since 1980, population in the area has more than tripled and water usage has increased by 400 percent. In 1994, the U.S. Geological Survey, in cooperation with the Mojave Water Agency, began an investigation into the possible recharge contributions of ephemeral stream channels in the area. The purpose of the investigation was to provide data for more accurate modeling of the groundwater system and to determine the feasibility of artificial recharge of the regional aquifer through the stream channels. The study of Oro Grande Wash and Sheep Creek Wash was accomplished by drilling and instrumenting boreholes placed in the active channel...

***(Continued on Page 3)***

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legislative\_chair@aegsf.org

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rgmbig@yahoo.com

Newsletter Editor  
Maile Smith  
Weiss Associates  
newsletter\_editor@aegsf.org

Webmaster  
Craig Reid  
Upp Geotechnology  
webmaster@aegsf.org

The AEG San Francisco Section Newsletter is a monthly publication of the San Francisco Section of the AEG.

For more information, visit [www.aegsf.org](http://www.aegsf.org).

**Submittals:**

Deadline is the 20th of each month for the following issue. Contact Maile Smith by email ([newsletter\\_editor@aegsf.org](mailto:newsletter_editor@aegsf.org)) for submittal. All submittals are subject to editing for space considerations. Employment notices are free if brief.

**Address changes:**

Please submit to Section Secretary, Janine Weber-Band ([secretary@aegsf.org](mailto:secretary@aegsf.org)).

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**IN THIS ISSUE...**

- **Chair's Message**
- **February Meeting Notes**
- **Member Updates, CCGO Update, and Other News**
- **Short Courses and Field Trip Announcements**

**CHAIR'S MESSAGE**

Hello Everyone:

Our February meeting at the Old Spaghetti Factory in Concord was a great success. AEG's president, Dave Bieber, updated our group about the latest on the Midland fault in eastern Alameda County, and presented the latest financial figures and statistics, which suggest that AEG is well into the black and that our overall membership has increased. Dave brought up the possibility of a controversial name change for a show of hands—"Association of Engineering Geologists" versus "Association of Environmental & Engineering Geologists." My hand was raised in favor of the possible name change. If you want to register your opinion or would like to read opinions from others on this topic, please visit the main AEG website.

Attendees at the February meeting also heard from Jason Preece, president of CCGO, regarding the possibility of the two organizations sharing the AEG lobbyist, Judy Wolen. Currently, California's three AEG sections each pay a portion of Judy's fee to be represented in State government. In the past, AEG has informally shared the lobbyist with CCGO. CCGO is now offering to contribute an equal sum to help pay for the services of our lobbyist, thus formalizing their relationship with Judy Wolen. Our legislative chair, J.C. Isham, expressed concern that accepting CCGO's offer could create an awkward and potentially compromising situation, with Judy representing two organizations whose needs may not always be in alignment. This matter has not been fully resolved.

As mentioned in the February newsletter, as of April we are increasing our dinner meeting prices by \$5.00. That is, we will charge members \$35.00, and non-members \$40.00. For the time being, student prices will not be affected and will remain at \$15.00. If you have any comments regarding our price increase, other ideas for defraying costs, suggestions for future restaurants, or any other thoughts or concerns, please contact me.

Pat  
Chair, AEG San Francisco Section

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Contact Patrick Drumm at [chair@aegsf.org](mailto:chair@aegsf.org) for more information on sponsorship.

**AEG San Francisco Section Thanks our Academic Sponsor!**

**San Jose State University**

**San Jose, California**

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## MARCH SECTION MEETING DETAILS

The March Section Meeting will be held at Sinbad's restaurant, Pier 2, Embarcadero Street (cross street: Mission), San Francisco, California, 415-781-2555. Please enter through the main door and proceed to your left.

### Directions

From 101 North—Exit I-80 East towards Bay Bridge/Oakland. Continue for about ½ mile and take the 7th Street exit towards Downtown. Bear left on 7th Street. After approximately ½ mile, turn right on Mission Street. Continue until Embarcadero Street.

From 80 West (Bay Bridge)—Take the Harrison Street exit towards Embarcadero. Continue on Fremont Street for ½ mile. Turn right on Mission Street. Continue until Embarcadero Street.

**Reservations must be e-mailed or faxed to Sachiko Tanikawa by noon on Monday, March 7<sup>th</sup>.**

*No shows and late cancellations will be charged!*

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## SPEAKER ABSTRACTS AND BIOGRAPHIES

(CONTINUED FROM PAGE 1)

### George Hilley, Abstract (cont.)

...~1 mm for displacement measurements at ~25 m spacing every ~30 days and so allows this monitoring and characterization of slow-moving landslide features over broad regions using remote sensing methods. Satellite-to-ground distances (range changes) on these landslides increase at rates of 5 to 7 mm/yr indicating average down-slope sliding velocities from 27 to 38 mm/yr when these scalar range-change values were projected into the average downslope direction. Historical photography and clusters of utility damage around these features independently demonstrate that the spatial extent of these features is accurately gauged by the InSAR method, and that these landslides move rapidly downslope. Analysis of the velocity time-series obtained from the Permanent Scatterer data shows that displacement occurs mainly during the high-precipitation season and range-change rates increased to up to 11 mm/yr during the years spanning the 1997-1998 El Niño event. The temporal association of increased precipitation and slide motion suggests that increases in pore-water pressure may weaken the basal surface of these landslides and accelerate their motion. During the El Niño season, we observed a time lag of about 3 months between the onset of precipitation and acceleration of the slides that may suggest that the near-surface groundwater system acts to buffer the effects of intense and sustained precipitation early in the wet season. In addition, we found that as yearly precipitation increased, so did total yearly slide motion. During years with extremely heavy precipitation, slide motion increased less than expected based on a linear extrapolation of slide motion when seasonal precipitation was lower. We suggest that this non-linear response of total slide motion to yearly precipitation may reflect the

effects of saturation of the near-surface groundwater system and/or increasing material resistance to shear as these features accelerate. Based on our success in imaging the temporal response of these landslides over broad areas, we expect that the InSAR Permanent Scatterers method may be an effective tool for identifying, monitoring, and studying these features throughout the larger Bay Area, and in other regions as well.

### George Hilley, Biography

George Hilley received his BS degree from Stanford University in Geological Engineering and Hydrogeology and his PhD from Arizona State University. He has been working as a postdoctoral research associate in the Department of Earth and Planetary Sciences and Berkeley Seismological Laboratory at UC Berkeley. At the beginning of this year, he joined the faculty of the Department of Geological and Environmental Sciences at Stanford University.

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### Jeff More, Abstract (cont.)

In the current work, we show a new application of the SP method to investigate seepage through natural dams, in particular moraine dams high in alpine areas created by advancing and retreating glaciers. The technique provides both qualitative and quantitative information for evaluating the health and stability of moraine dams against seepage erosion, and in hazard evaluation and prevention.

### Jeff More, Biography

Jeff Moore is a PhD candidate at the University of California, Berkeley, studying fluid flow in earth materials and the coupled electromagnetic response. He studies under Prof. Steven Glaser in the Geotechnical Engineering group of the Civil and Environmental Department. He completed his Masters of Science in Geotechnical Engineering at UC Berkeley, and his Bachelors degree in Geological Engineering from the University of Arizona in Tucson, where he was born and raised.

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### John Radyk, Abstract (cont.)

...of each wash and on control surfaces away from the channels. A multi-technique approach involving examination of physical properties and measurement of chemical and isotopic environmental tracer concentrations was employed.

Stable isotope, tritium, and chloride data indicate that infiltrated stream water moves downward towards the water table beneath the channels. Soil waters from beneath the channels show a general trend to more evaporatively enriched isotopic compositions in the downstream locations, indicating that infiltration and percolation rates decrease with distance downstream. Percolation rates based upon the tritium data range from 0.3 to 1 m per year. In contrast, the data indicate that evapotranspiration prevents infiltrated water from moving beyond shallow depths beneath the control surfaces under current climatic conditions. High chloride

concentrations beneath the control surfaces indicate that the current climate has existed for as long as 10,000 years.

The lack of caliche layers and the presence of water already moving through the unsaturated zone make the channels excellent locations for artificial recharge. A pilot recharge project performed by the Victor Valley Water District in 2002 percolated over 48 million gallons of water through a one-acre percolation pond at a rate of 0.3 to 1 m per day. The success of the pilot project led to the purchase of an additional 64 acres of property along the Oro Grand Wash where it is hoped that 13,000 to 17,000 acre-ft per year of California Aqueduct water will help to replenish the regional aquifer and be available for future use.

### **John Radyk, Biography**

John Radyk received a BA in Geology from Humboldt State University. He is working towards completion of an MS in Geology at San Jose State University. He is currently employed as a hydrologic technician at the US Geological Survey in Menlo Park.

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### **FEBRUARY SECTION MEETING NOTES**

David Bieber, of Geocon Consultants, Inc. is the current AEG President. His talk was in three parts: the first was a discussion about the current proposal to change the name of AEG to "The Association of Environmental and Engineering Geologists", the second was about the State of the Association, and the final, technical part was about the Midway Fault in Alameda County. Regarding the name change, sixteen past AEG presidents unanimously pressed for the name change primarily because it reflects the actual orientation of so many of our members, namely environmental geologists. A vigorous discussion including Bob Tepel, Jim Baker, Seena Hoose, Jason Preece, Ernie Solomon and others served to highlight the main pros and cons of a name change, which boil down to this:

**FOR:** Including "Environmental" in the name includes more people and is a more accurate description of who we are. It also is more attractive to people coming out of university with new degrees.

**AGAINST:** Name recognition. Why change what seems to be working just fine?

The Association wants to hear from everyone on this topic. E-mail your comments or thoughts to David Bieber at [president@aegweb.org](mailto:president@aegweb.org).

The second part of the talk was about the state of the Association. Financially AEG is doing well mainly due to a dramatic upswing in participation in the last 5 years. AEG money is used to support and fund member programs. As capacity increases, education programs and continued training opportunities will expand. Last year AEG had terrific participation from volunteers.

Bieber also discussed the AEG Foundation. The Foundation is a tax-free entity that operates independently of AEG supports education, publications,

and funds (scholarships). Since its inception just a few years ago, the fund has increased steadily and is now approaching \$200K...and that is with much less than 100% participation. If every member contributed just a minimum amount, the fund could easily double.

Bieber's technical presentation was titled "An Updated Characterization of the Midway Fault, Alameda County, California". The Midway Fault is a small fault lying subparallel to the Greenville and Black Butte faults in the vicinity of Altamont Pass in the eastern Coast Ranges. Previous mapping by Dibblee in 1980 and by Sowers et al., in 1993 showed the fault as an approximately 7-mile long trace. During a site investigation by Geocon for a proposed power plant, Bieber's group noticed on air photos that bends in stream channels suggested left lateral movement along the Midway Fault. Dibblee thought it was a normal fault, Wesnousky (1986) thought it was mainly a reverse fault. A left-lateral fault would be exactly opposite of most of the major fault displacement in the area. Further investigation (gamma ray spectrometer survey and field mapping) helped define the best area to trench. Geocon made a very long trench across the mapped trace and the other apparent structures identified in the field study. Glenn Borchardt helped log the soils. The team found a flower structure with fault gouge and disrupted caliche deposits in the vicinity of the mapped fault trace. Because the soils had not been displaced by the fault, the timing of the last displacement event was deduced to be between 10,000 and 40,000 years ago. Based on other features exposed in the trench, events along the Midway Fault were characterized as being small (between 1 and 3 feet per event). A small thrust fault was mapped west of and perpendicular to the Midway Fault. The thrust faulting and the left-lateral displacements on the Midway Fault may reflect clockwise rotation of a small block on the east side of the right-lateral Greenville fault (4 miles east).

Coast Range geology is complex at all scales. This study adds another bit of data in an important area of the Coast Ranges as the Altamont Pass area is a major transportation corridor.

Janine Weber-Band  
Secretary, AEG San Francisco Section

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**MEMBER UPDATES AND OTHER NEWS**

**Name Change for California Licensed Geologists**

With the passage of Senate Bill 1914 in the Fall of 2004, the name for licensed geologists in the State of California changed from Registered Geologist (RG) to Professional Geologist (PG). This change in the law became effective on January 1, 2005. Individual license numbers will remain the same, but all new pocket licenses and wall certificates will state Professional Geologist. Existing wall certificates and pocket licenses are still valid and do not need to be replaced (but new stamps are a good idea). For more information, visit [http://www.leginfo.ca.gov/pub/03-04/bill/sen/sb\\_1901-1950/sb\\_1914\\_bill\\_20040929\\_chaptered.pdf](http://www.leginfo.ca.gov/pub/03-04/bill/sen/sb_1901-1950/sb_1914_bill_20040929_chaptered.pdf).

**NEW HAZARDS MAPS AVAILABLE**

Santa Clara County has a new set of Hazard Maps available to the public on their website. Go to [www.sccplanning.org](http://www.sccplanning.org) and click on maps-GIS to access the information.

**AEG-SF PUBLICATIONS UPDATE**

We have recently received a new shipment of the guidebooks for the hugely successful spring 2004 field trip, "Seismic Hazard of the Range Front Thrust Faults/Northeastern Santa Cruz Mountains/Southwestern Santa Clara Valley". These spiral bound publications with awesome color graphics are on sale for \$30. You can contact me at [whgodwin@mactec.com](mailto:whgodwin@mactec.com) or by phone at 707-793-3841 and I can arrange to have a copy shipped to you. Another more affordable way is to avoid postage and come to the next AEG SF Section meeting and purchase one there.

I am looking to transfer Publication Chair duties to another geologist this year or anyone who has an interest in "getting the Lit out". As Publications Chair you can meet new members at the Section meetings, have provocative conversations regarding who wrote what where, provide valuable reference material, and stay in tune with the technical publication work being done by those on top of the field of engineering geology. Let me know if you are interested or speak to me at the next section meeting.

Bill Godwin  
Publications Chair, AEG San Francisco Section

**Thank You!**

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**CCGO LEGISLATIVE UPDATE**

**Governator Concedes Plan to Eliminate 88 Regulatory Panels Needs More Work**

Thanks to those members who chose to participate in the meeting on February 14<sup>th</sup> with the Department of Consumer Affairs, Governor Schwarzenegger has withdrawn his plan to eliminate 88 regulatory panels, including the Board of Geologists and Geophysicists and the State Mines and Geology Board.

The CCGO's next step is to proactively address problems before they get out of hand, and we will be bringing up some items to discuss, such as these proposed by Tim Parker of the Groundwater Resources Association:

- Should we consider some sort of long term plan to proactively take this issue on? It isn't going away. Some things that come to mind immediately as fuel for protagonists:
  1. Question of necessity of the board
  2. Lack of efficiency in enforcement (backlog)
  3. Test failing rate
- And some of the possible long-term efforts could involve:
  1. Developing educational brochures with key historical examples for the layperson of what we do and why we need licensure and enforcement by and for our profession - of course hazards are a big one (landslides, earthquakes) and other issues including water, groundwater and hazardous wastes.
  2. Increasing enforcement efforts slowly over time and demonstrating an increasingly responsive track record.
  3. This is a tough one - but perhaps ties back to the complexity of California geology in relation to other states and could be incorporated into (1) above.

**OTHER MEETING ANNOUNCEMENTS**

**AEG ANNUAL MEETING**

The 2005 AEG Annual Meeting will be held in Las Vegas, Nevada, September 17-25.

**SOIL TECTONICS**

**Glenn Borchardt, Ph.D.**  
Principal Soil Scientist

<p><b>510.654.1619</b> fax : 510.654.2935 or : 530.655.0018 cell : 510.205.4562</p>	<p>P.O. Box 5335 Berkeley CA 94705-0335 <a href="mailto:gborchardt@usa.net">gborchardt@usa.net</a> <a href="http://www.soiltectonics.com">www.soiltectonics.com</a></p>
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## GSA CORDILLERAN SECTION ANNUAL MEETING

The 101st Annual Meeting of the Cordilleran Section, Geological Society of America (GSA) and the 80th Annual Meeting of the Pacific Section, AAPG, will be held jointly at the Fairmont Hotel, San José, California, April 29–May 1, 2005. The theme is Bay, Basins, Basement, and Beyond. The 2005 annual meeting will be hosted by the Department of Geology, San José State University. Up-to-date information about the meeting can be found at [www.geosociety.org/sectdiv/sections.htm](http://www.geosociety.org/sectdiv/sections.htm).

## NORTHERN CALIFORNIA GEOLOGICAL SOCIETY

The next NCGS meeting will be Wednesday, March 9, 2005—a lunch meeting! AAPG Distinguished Lecturer David Jennette, Bureau of Economic Geology, Austin, Texas, will present "*Making Sense of Turbidite Reservoirs: A Multi-Basin Perspective on What Drives Architecture and Rock Properties*". Lunch is at 11:30 am and the talk begins at 12:30 pm at ChevronTexaco Park, 6001 Bollinger Canyon Road, San Ramon. Contact Will Schweller at [WJSA@chevrontexaco.com](mailto:WJSA@chevrontexaco.com) at least a day in advance of the talk to request a visitors badge.

On Wednesday, March 30, 2005 Dr. Barbara Bekins of the USGS will present a talk on "*Hydrogeology and the Weak Nature of Plate Boundary Faults*". The talk is at 7:00 pm at the Orinda Masonic Center.

The NCGS typically meets the last Wednesday of each month in Orinda at the Masonic Center, 9 Altarinda Road. There is a social period at 6:30 pm, and at 7:00 pm a talk (no dinner). To reserve, leave your name and phone number at 925-424-3669 or [danday94@pacbell.net](mailto:danday94@pacbell.net). Cost is \$5 per regular member; \$1 per student member.

## AMERICAN RIVER WATERSHED CONFERENCE

The College of Natural Sciences and Mathematics at California State University, Sacramento and the Center for Regional Environmental Science and Technology (CREST) are pleased to announce the next American River Watershed Conference: The Roles of Science and Management. The goals of this conference are to review existing studies on the American River Watershed, facilitate the exchange of information between groups and agencies, and foster coordination of future projects.

The conference will be held at CSU Sacramento on April 21-23, 2005. For more conference information, please call 800-858-7743 or 916-278-4433. Information will also be posted on the conference website at [www.cce.csus.edu/conferences](http://www.cce.csus.edu/conferences).

## SHORT COURSES

### GRA WORKSHOP ON ARTIFICIAL RECHARGE

The Groundwater Resources Association of California presents "Artificial Recharge - Nexus of Quantity and Quality in California", at the Lions Gate Hotel, McClellan Park, Sacramento, on March 16 and 17, 2005. A related

field trip addressing north Sacramento area regional water issues will be held on March 15.

Cooperating Organizations include the California Department of Water Resources, US Geological Survey, State Water Resources Control Board, and Association of California Water Agencies.

"Artificial Recharge - Nexus of Quantity and Quality in California" is a workshop intended for water agency managers and staff, policy/risk analysts, technical experts doing applied research in hydrogeology and geochemistry, regulatory agency personnel, water resources consultants interested in the latest strategies for understanding and addressing issues and challenges related to artificial recharge and anyone involved in developing a conjunctive use program in California.

Currently, California is able to meet most, but not all, of its water demands in most years. Except in multi-year droughts, most urban areas currently have sufficient supplies for existing populations; however, even in average precipitation years, some agricultural and environmental requirements are not fully met. California's population continues to increase by about 600,000 per year, and groundwater overdraft continues at the rate of 1 million to 2 million acre-feet per year. California will require many different water management strategies and tools in place in the near future to meet growing water demands.

Artificial recharge is one of the tools available to achieve more efficient utilization of limited available water supplies. Improvements in technology in recent years have reduced the cost of water supply facilities expansion substantially, coupled with the availability of water bond funds in the state suggest the future use of this technology will accelerate. Many challenges lie ahead for artificial recharge projects including adequate understanding of local hydrogeology, groundwater chemistry, source water chemistry, mixing and reactions, aquifer beneficial uses, source water chemistry, and developing regulatory policy.

The field trip will provide an overview of the American River Basin Regional Conjunctive Use Project, and background on the historic Water Forum and the formation of the northern Sacramento Area Regional Water Authority. The field trip stops will include addressing contamination issues at former McClellan AFB, Diamond Creek Aquifer Storage Recovery (ASR)



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Visit <http://www.grac.org/ar> or contact Mary Megarry at GRA, 916-446-3626 or [mmegarry@nossaman.com](mailto:mmegarry@nossaman.com) for more information.

Other upcoming GRA symposia include "GRA's Legislative Symposium and Lobby Day", May 18, 2005 at the Sheraton Grand Hotel, 1230 J Street, Sacramento, and "Subsurface Vapor Intrusion to Indoor Air—An Update", May 25, 2005 at the Hyatt Hotel in San Jose.

For Short Course information and submittals, please contact:

Ernest Solomon  
Short Course Chair, AEG San Francisco Section

(1982). The guidebooks can be downloaded from [www.diggles.com/pgs/](http://www.diggles.com/pgs/).

The NCGS has posted photos and comprehensive field trip reviews for many of their recent field trips. Visit [www.ncgeolsoc.org](http://www.ncgeolsoc.org) for more information.

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### Upcoming NCGS Field Trips

Spring (March) 2005 – Colorful Geology of the Fremont Area; Joyce Blueford and Paul Belasky

Spring 2005 – Robert Sibley Volcanic Regional Preserve in the Berkeley Hills; Stephen Edwards, Director, Tilden Regional Botanic Garden

For Field Trip information and submittals, please contact:  
Phil Johnson  
Field Trip Chair, AEG San Francisco Section

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### EMPLOYMENT NOTICES

*Please note: AEG provides the following as a courtesy but does not necessarily endorse these services or companies nor does it take responsibility for actions pursuant to these notices.*

#### Senior-Level Seismic Geologist

The Seismic Hazards Group of URS Corporation based in Oakland, California, has an opening for a senior-level seismic geologist. The successful candidate will be involved in the seismic hazard evaluations of critical and important facilities worldwide. Minimum requirements are a Masters or PhD degree in geology with an emphasis on seismic geology or paleoseismology; a minimum of 5 years work experience either professional, academic, or research; a strong publication record; and strong verbal and written English communication skills. Salary is negotiable based on qualifications.

Interested applicants please go to [www.urscorp.com/careers](http://www.urscorp.com/careers) to submit your resume and profile. URS is an equal opportunity employer.

#### Senior Project Engineer

Weiss Associates is seeking a senior project engineer to perform and manage technical project work, attend regulatory meetings, supervise technical staff, and develop business. The position is based in Emeryville and/or Mountain View. This position requires 8 to 15 years of turnkey experience in environmental site cleanup/closure and/or regulatory compliance, including at least 5 years' experience conducting business development. Also requires at least a BS in chemical, civil or mechanical engineering, registration as a California PE, and current 40-hr and 8-hr SARA/OSHA training.

Apply to [jobs@weiss.com](mailto:jobs@weiss.com), and refer to JOB #AEG021405spe. Include your resume and cover letter in the body of your message, as attachments will be deleted. Please see Careers section at [www.weiss.com](http://www.weiss.com) for a complete listing of our current job openings.

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### FIELD TRIPS

#### Seismic Hazard of the Range Front Thrust Faults Guidebook

The guidebook from the sold-out March 2004 Range Front Thrust Fault Field Trip is now available on the section website for downloading. The PDF version of the guidebook is approximately 49 megabytes, and can be opened and printed using Acrobat Reader. The guidebook contains an overview paper, directions and mileage log, 10 technical papers, and many color photos and illustrations. The guidebook is a must-have reference for engineering geologists working along the northeastern range front of the Santa Cruz Mountains between Los Gatos and Daly City. If you would like to purchase a printed, spiral-bound copy of the guidebook, we are currently taking orders. The book sells for \$30 (\$5 more if you would like it shipped to you). To order a guidebook, contact [publications\\_chair@aegsf.org](mailto:publications_chair@aegsf.org) or call Corinne Stewart at 408-778-2818.

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#### PGS and NCGS Guidebooks

The Peninsula Geological Society has posted guidebooks from their recent field trips, including Panoche and Tumey Hills (2004), White-Inyo Range (2002), Mount Shasta and the Klamath Mountains (2001), Big Sur (2000), and the Northern Sierra Nevada

Maile Smith  
c/o Weiss Associates  
350 East Middlefield Road  
Mountain View, California 94043

**AEG San Francisco Section – March Newsletter  
Monthly Section Meeting – Tuesday, March 8<sup>th</sup>  
Sinbad’s – San Francisco**

***CHECK OUT THE AEG SF SECTION WEBSITE AT WWW.AEGSF.ORG!***

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**RESERVATION FORM**

AEG San Francisco Section Meeting • Tuesday, March 8, 2005 – 6:00 pm • Sinbad’s – San Francisco  
**Reservation Deadline: 12:00 PM, MONDAY, MARCH 7<sup>TH</sup>**

SEND RESERVATION FORM TO **SACHIKO TANIKAWA**  
FAX: **510-208-2039** or E-MAIL: **TREASURER@AEGSF.ORG**

*Please include “AEG-SF Reservation” in subject line • Include entrée choice • This reservation form can be completed electronically.*

Do not send payment – check or cash at the door – Make checks payable to AEG SF SECTION  
Dinner and Meeting Cost: \$30 – members      \$15 – student members      \$35 – non-members  
***No shows and late cancellations will be charged!***

NAME \_\_\_\_\_ COMPANY \_\_\_\_\_  
TELEPHONE NO. \_\_\_\_\_ NO. OF PEOPLE \_\_\_\_\_  
PLEASE CHOOSE ENTREE(S):      Chicken       Fish       Vegetarian

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**PERMANENT RESERVATION FORM**

AEG San Francisco Section monthly dinner meetings are typically the 2<sup>nd</sup> Tuesday of each month.  
I will attend and make payment for each meeting. If I am unable to attend, I agree to fax or mail a cancellation notice to Sachiko Tanikawa by NOON the Friday before the meeting or I will be charged for the meeting.

NAME \_\_\_\_\_ COMPANY \_\_\_\_\_  
TELEPHONE NO. \_\_\_\_\_ NO. OF PEOPLE \_\_\_\_\_  
BILLING ADDRESS \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ ENTRÉE(S) \_\_\_\_\_