



# SAN FRANCISCO SECTION NEWSLETTER



## Meeting Details:

- **Tuesday, April 12<sup>th</sup>**
- The Englander, San Leandro
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Speaker
- \$35 members, \$15 students, \$40 non-members

**Reservations Due By NOON, FRIDAY, April 8<sup>th</sup>!**

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## APRIL 2005 PROGRAM

David L. Wagner, California Geological Survey

### ***NEW CONSTRAINTS ON THE AGE AND DISTRIBUTION OF CENOZOIC VOLCANICS NORTH OF SAN PABLO BAY, CALIFORNIA: IMPLICATIONS FOR DISPLACEMENT ALONG FAULTS INBOARD OF THE SAN ANDREAS FAULT***

Most of the volcanic fields in the San Francisco Bay Region are part of a succession of volcanic fields located along the trend of the San Andreas fault system (SAF) that become younger to the northwest within each fault block. These fields include the Quien Sabe Volcanics (QSV), volcanic rocks in the Berkeley Hills (BHV), the Burdell Mountain Volcanics (BMV), the Tolay Volcanics (TV), the Sonoma Volcanics (SV), and the Clear Lake Volcanics. All of these fields are complex, heterogeneous, bimodal volcanic suites inferred to be the result of mantle upwelling behind a slab window trailing the Mendocino triple junction.

The Sonoma Volcanic field differs from the other fields within the San Francisco Bay Region by being much more voluminous, by containing the only significant amount of ignimbrites, and by being active much longer. The BMV and the TV were once considered to be part of the SV, but with the availability of radiometric ages, it became clear that most of the volcanic rocks west of the Rodgers Creek fault in southern Sonoma and Marin counties are older than the SV. Recent Ar/Ar results show that many K/Ar ages in the North Bay region are too old and that volcanics in the Cotati/Petaluma area correlated to the BMV are part of the TV. The TV correlate with the BHV indicating about 40-45 km of displacement along the Hayward and Rodgers Creek faults. The BMV have been correlated with the QSV suggesting about 170 km of displacement along the Calaveras-Hayward-faults as well as unknown faults west of Petaluma Valley (Burdell Mountain and related faults?). The distribution of the TV indicated by these new dates requires that displacement along the Petaluma Valley Fault is much less than previously suggested and that little or no lateral displacement along the Tolay Fault.

### Author Biography

Dave Wagner is a Senior Geologist with the California Geological Survey in Sacramento. He retired in September 2004 after more than 30 years of service, but continues to work part time for CGS conducting geologic mapping in the North San Francisco Bay Region. He received his BA and MS degrees in geology from San Jose State University. He is a registered geologist and a certified engineering geologist. Most of his CGS career has been devoted to the Regional Geologic Mapping Project compiling regional geologic maps as well as quadrangle mapping throughout the state. Other assignments have included evaluating active faults for Alquist-Priolo Earthquake Hazards Zones, conducting geologic hazards investigations in the San Francisco Bay area, evaluating the seismic safety of nuclear power plants in California, slope stability mapping in the Highway 50 corridor, and reviewing timber harvest plans.

### IN THIS ISSUE...

- ***Chair's Message***
- ***April Meeting Details***
- ***March Meeting Notes***
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- ***Short Course and Field Trip Announcements***
- ***Employment Opportunities***

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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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**CHAIR'S MESSAGE**

Hello Members:

I have lots of news to report this month. We are working to complete our speaker schedule through the end of the year so that a list of upcoming speakers can be published in our newsletter. As you may know, AEG will be hosting the AEG/ASCE joint meeting in November at Spenger's in Berkeley, and we have contacted a well-known former Bay Area professional to speak at that meeting (no hints until details are confirmed).

May I remind you that the annual joint meeting for the Cordilleran Section of the Geological Society of America and the Pacific Section of the American Association of Petroleum Geologists will be in San Jose from April 29<sup>th</sup> through May 1<sup>st</sup>. AEG is planning to have a booth for publication sales and more at the meeting. We encourage our members to attend the GSA/AAPG meeting and support fellow AEG members who are giving presentations and leading field trips. Please register early to secure a field trip spot and avoid additional fees for late registration.

We are finalizing details for our first short course of the year, which focuses on aerial photographic interpretation. Please contact Ernie Solomon at [shortcourse\\_chair@aegsf.org](mailto:shortcourse_chair@aegsf.org) if you have any short course suggestions.

We are still looking for a volunteer to fulfill the Publications Chair vacancy. This is a great opportunity to get involved and make a difference in the organization. Please contact Bill Godwin if you are interested ([vice-chair@aegsf.org](mailto:vice-chair@aegsf.org)).

As always, please contact me at [chair@aegsf.org](mailto:chair@aegsf.org) if you have ideas on how your section officers and committee chairs can better serve you.

Pat  
Chair, AEG San Francisco Section

**APRIL SECTION MEETING DETAILS**

**New Venue for April 2005 Meeting**

The Englander Sports Pub & Restaurant is located at 101 Parrott Street in San Leandro, 510-357-3571, between Washington Avenue and East 14<sup>th</sup> Street.

**Driving Directions:** From the 880 Freeway, exit Davis Street and drive east to Washington Avenue. Turn right (south) on Washington Avenue and then left (east) on Parrott Street. Look for The Englander on the south side of Parrott Street.

**Parking:** You may park for free in The Englander lot in front of the restaurant or next door in the Washington Mutual Bank parking lot after hours. Otherwise, street parking is available.

**Bart Directions:** Get off at the San Leandro Bart Station and walk south two blocks to Parrott Street. Then walk toward the Hayward fault, another 4½ blocks, to reach The Englander on the south side of the street.

*Reservation Form Located on the Last Page of the Newsletter*

**SPONSORSHIP**

Sponsor a Section Meeting or become a Section Corporate Sponsor! Donate to the Section and receive free advertisement each month, recognition at Section Meetings, and more! Contact Patrick Drumm at [chair@aegsf.org](mailto:chair@aegsf.org) for more information on sponsorship.

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**MARCH SECTION MEETING NOTES**

The March section meeting was the annual Student Awards night. Two students from Berkeley and one from San Jose State presented brief talks about their thesis/dissertation work. The three topics spanned the range of interests of AEG members—from tectonics to groundwater to earth stability issues.

George Hilley recently completed his PhD at UC Berkeley Earth and Planetary Sciences Department and is now engaged at Stanford. His talk, Imaging Large, Slow-Moving Landslides in the Berkeley Hills using Synthetic Aperture Radar, presented new data on the slow deformation of the hills caused by active landslides. Synthetic Aperture Radar (SAR) has been used by several groups (notably by Roland Burgman at UCB) to quantify relative offset along faults and in zones of broad tectonic deformation. Hilley applied the same technique to document landslide movement that mainly shows up as subsidence in blob-shaped areas on the hillsides of North Berkeley. The areas identified by SAR corresponded to traditionally mapped landslides. The areas of subsidence also correlated to EBMUD utility repair requests and pipe breaks. A time-series of the images showed that rapid movement occurred toward the end of the rainy season in 1997-1998 (an El Nino year). A small (M4.1) earthquake centered in the northern part of the study area occurred in the 1998 rainy season. Hilley thinks that additional movement on the northern landslide (of three that are there) may have been triggered by the earthquake. The landslides are inactive when dry. Another interesting feature of Hilley's images was that creep on the northern segment of the Hayward Fault could be traced through north Berkeley and Kensington.

Jeff Moore, from Civil at UC Berkeley, presented a talk titled Detecting Seepage through a Natural Moraine Dam Using the S-P Method. Besides spectacular photos and tales of hardship, Jeff delivered an engaging talk about how to use a rather simple Self-Potential system to locate areas of subsurface flow in the natural version of earthen dams. His study area was high in Yosemite National Park at Dana Lake. He and his field assistant carried in heavy equipment to do the monitoring (this was the hardship part). The monitoring results were plugged into a model to resolve flow rates and hydraulic head. All these data were used to assess the stability of the dam.

John Radyk from San Jose State discussed his work with artificial recharge in his talk titled Investigation of Recharge Beneath Ephemeral Stream Channels in the Western Mojave Desert and Their Suitability for Artificial Recharge. Radyk worked with the Victor Valley Water District in the Victorville area of the Mojave Desert which has seen a 300% population increase and 400% increase in water usage in the last few years. Traditional groundwater sources cannot continue to supply the community, so a study was initiated to test the feasibility of using artificial recharge (A/R) for the shallow aquifer. Two areas were tested, both were located in washes along the alluvial fan front developed on the north side of the mountains. One was a wash on the active Sheep Creek fan, the other was an abandoned incised channel along the Oro Grande Wash. Recharge, as measured by natural tracers, appears better in the Oro Grande Wash site where rates were about 1 m/yr. The upper, coarser, part of the channel had higher percolation rates than the lower part. A subsequent pilot A/R project constructed by the Victor Valley Water District was a success.

Janine Weber-Band  
Secretary, AEG San Francisco Section

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

**San Jose State University**

**San Jose, California**

**MEMBER UPDATES AND OTHER NEWS**

**CCGO UPDATE**

**California Building Standards Commission Clears the Way for Adoption of International Building Code**

CCGO's Code Development Committee, which worked hard for three years to improve the new International Building Code (IBC), is pleased to announce that an earlier setback to adoption of the code by the State of California has been overcome. After all our work to increase recognition of the importance of geologic considerations in the IBC, the California Building Standards Commission in July 2003 recommended adoption of the National Fire Protection Association 5000 building code, which we had never heard of and which contained precious little mention of geologic or grading issues. Now, fortunately, the recommendation has been rescinded, and the State is proceeding toward adoption of the IBC as the basis for the next California Building Code (CBC).

Code Development Committee Chair Betsy Mathieson and current CCGO Vice President Charles Nestle have both been working with the California Grading Officials

Association on their efforts to have important grading code provisions included in the next CBC. In addition, Betsy and CCGO founder Bob Tepel are members of the Grading Standards Technical Advisory Committee of the California State Mining and Geology Board. The Committee is in the process of preparing an SMGB special publication on engineered grading.

For further information or to join CCGO's Code Development Committee contact Betsy Mathieson, [emathieson@exponent.com](mailto:emathieson@exponent.com) or 510-523-5852.

### **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

### **YEAR OF PHYSICS**

Did you know that 2005 is the World Year of Physics? This worldwide celebration of physics and how it is important to our lives is also important for Earth Science Week. Earth Scientists use physics to help them understand our planet. Geophysicists, seismologists, and structural geologists are just a few examples of the geoscientific careers that have a strong background in physics and the Earth sciences. To learn more about the World Year of Physics visit <http://www.physics2005.org/>.

### **ESTEME WEEK**

April 11-16, 2005 is ESTEME (Excellence in Science, Technology, Engineering, and Mathematics Education) Week. This week offers schools the opportunity to focus on improving math and science education. The Department of Education and NASA have teamed up this year with other governmental agencies and scientific societies to sponsor activities for ESTEME Week. Visit the website at <http://www.esteme.org/index.html> to access links to agencies involved in the week, complete webquests, and learn how you can become involved.

### **GEOLOGISTS EXPLORE LINK BETWEEN HUMAN ACTION AND LANDSCAPE CHANGE**

Since they began clearing valleys and slopes for agriculture more than 9,000 years ago, and continuing with the construction of roads, buildings and cities, people have been altering landscapes. University of Vermont geologists explore the link between human actions and landscape—and reach some important conclusions.

Paul Bierman, professor of geology, and colleagues—including three undergraduates—authored the paper, titled "Old Landscape Images Record Landscape Change Through Time." The paper is the result of research collected via UVM's Landscape Change Program, a searchable, web-based community archive of more than 10,000 images of Vermont landscapes from before 1810 to the present. The archive, which is particularly rich in rare images of rural areas, can be accessed online at <http://uvm.edu/perkins/landscape>. The full article can be found at <http://www.uvm.edu/news/?page=news&storyid=6018&fieldvalue=geologists>

### **WHAT'S GOING ON**

Wonder what the federal government has been up to while the news media has been focusing on Michael Jackson and Terri Schiavo? Here are a few of the highlights...

#### **EPA Rule on Mercury Emissions**

The US EPA announces a new rule on mercury emissions from coal-fire power plants that will phase-in reductions over 20 years. The plan delays deep cuts in mercury pollution for about 10 years. The EPA rule reduces mercury emissions from power plants through a cap-and-trade system that allows some power plants to make deep pollution cuts while others make none. The rule sets broad national limits on mercury emissions that enables power companies to decide which coal-fired plants will receive pollution controls—meaning that even as many states reduce their emissions, some could see increases in emissions of mercury, a potent neurotoxin. The rule is certain to be contested in court by environmental groups, who charge that it places the financial interests of power companies over public health. The states of New Jersey and Pennsylvania have already filed lawsuits.

Read the full article at <http://sfgate.com/cgi-bin/article.cgi?file=/c/a/2005/03/15/MNG9GBPCQD1.DTL> (March 15, 2005)

#### **One Step Closer to Drilling in ANWR**

A narrow Senate vote on a budget resolution makes the Arctic National Wildlife Refuge potentially vulnerable to oil drilling. Since Bush's election in 2000, the Senate had blocked efforts to drill in the refuge, which is home to caribou, polar bears, musk oxen and millions of migratory birds. But the Senate's 51-49 vote is likely to clear the way for oil development on part of the refuge's 1.5- million-acre coastal plain. Republicans prevailed by attaching the measure to a budget resolution—citing the

potential for \$2.5 billion in revenue from oil leases in the refuge—allowing it to pass with a simply majority instead of the 60 votes needed to break a filibuster. Senate Democrats decried it as a "backdoor effort" to approve drilling, but they could not secure enough votes Wednesday to strip it from the budget. The USGS estimates the refuge could contain 6 billion to 16 billion barrels of oil, making it one of America's largest untapped oil reserves. Critics note that the US Energy Information Agency believes the short-term impact of drilling on gasoline prices would be negligible. Drilling in the refuge could increase domestic oil supplies by 20 percent by 2025, but would only lessen America's dependence on foreign oil from 62 to 60 percent.

Read the full article at <http://sfgate.com/cgi-bin/article.cgi?file=/c/a/2005/03/17/MNGDLBQMVM1.DTL> (March 17, 2005)

### HAZWASTE EXECUTIVE SENTENCED TO 27 MONTHS IN JAIL

The US District Court for the Eastern District of Michigan has sentenced Gazi George, former vice president of the City Environmental facility in Detroit, Michigan, to serve 27 months in prison and pay a \$60,000 penalty for felony violations of the Clean Water Act and the Resource Conservation and Recovery Act. George had plead guilty last September 24 to allowing millions of gallons of untreated waste to flow into the sewers of Detroit and from there to the Detroit River. In addition, George and coconspirator Donald Roeser authorized thousands of tons of hazardous waste to be sent to a landfill that was not designed to handle hazardous waste. Roeser was sentenced to serve a 12-month prison term and to pay a \$60,000 fine in December 2004.

### NAME CHANGE FOR CALIFORNIA LICENSED GEOLOGISTS

Senate Bill 1914 changes the name for licensed geologists in the State of California from Registered Geologist (RG) to Professional Geologist (PG). This change 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. 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).

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### 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.

### FUN WITH GEOSCIENCE TRIVIA

(from GSA Connection)

1. In what form of sedimentary rock would you find an erosional feature called rilling?
2. What unusual ore has been obtained from Wieliczka, Poland for over 1,000 years?
3. What does BIF stand for?

Answers on Page 7.

## *SOIL TECTONICS*

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

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### OTHER MEETING ANNOUNCEMENTS

#### UPCOMING AEG SF SECTION MEETINGS

May 12, 2005: Bluford—Earthquake History Preserved in Tyson Lagoon, Scotts (joint meeting with CCGO)

June 14, 2005: Iverson—Dynamics of Debris Flows and Rock Avalanches, Spengers, Berkeley (Jahns Lecturer)

July 12, 2005: Greene—Tsunami Generating Landslides

#### AEG ANNUAL MEETING

Plan to attend the 48<sup>th</sup> Annual AEG Meeting, "Under the Neon", at the Flamingo Las Vegas Hotel in Las Vegas, Nevada, September 17-25, 2005.

The deadline to submit an abstract is May 1, 2005. For more information on the annual meeting, visit [www.aegweb.org](http://www.aegweb.org).

#### GSA CORDILLERAN SECTION ANNUAL MEETING

The 101<sup>st</sup> Annual Meeting of the Cordilleran Section of the Geological Society of America (GSA) and the 80<sup>th</sup> Annual Meeting of the Pacific Section of the American Association of Petroleum Geologists (AAPG) will be held jointly at the Fairmont Hotel, San Jose, California, April 29-May 1, 2005 (the standard registration deadline is March 28<sup>th</sup>). The theme is Bay, Basins, Basement, and Beyond. A great technical program is planned, and there are still quite a few spaces left on pre- and post-meeting field trips and short courses.

Meeting highlights include:

- The keynote address is by Mary Lou Zoback, who will speak on April 30<sup>th</sup> at 5:15 pm. Her talk is titled: 1906 Earthquake Centennial: A Century of Progress in Understanding Earthquake Science.
- A wonderful wine tasting and dinner in the Club Regent room of the Fairmont Hotel follows Mary Lou's talk on the evening of April 30<sup>th</sup>. The event is An Evening of Exploration-Geology and Wine, and your hosts are David Howell, USGS, and Jonathan Swinchatt, authors of *The Winemaker's Dance, Exploring Terroir in the Napa Valley*. David and Jonathan have been able to put together a tasting of 9 fine local wines (that's right: NINE FINE WINES!), and they will help us examine how geology and wine intersect as we enjoy the fruits of the winemaker's labor. The price includes tasting all wines, dinner, and, of course, the engaging company of our expert hosts. Copies of the book will be available for purchase at the event.

The 2005 annual meeting will be hosted by the San Jose State University Geology Department. There are even a few open spots for student volunteers (contact Debbie Harden directly at [harden@geosun.sjsu.edu](mailto:harden@geosun.sjsu.edu) no later than April 15<sup>th</sup> for info). Up-to-date information about the meeting can be found at <http://www.geosociety.org/sectdiv/cord/05cdmtg.htm>.

### **NORTHERN CALIFORNIA GEOLOGICAL SOCIETY**

The next NCGS meeting will be Wednesday, April 27<sup>th</sup>. Dr. Michael Manga, University of California, Berkeley, will present his talk titled "An Explosive Theory About Volcanoes".

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.

### **SHORT COURSES**

#### **BUILDING ON EXPANSIVE AND COLLAPSING SOILS**

Damage to structures and infrastructure in the US due to expansive soils will exceed \$10 billion this year alone. Many of the problems result from inadequate design and construction due to the failure to identify expansive soils on the site. This course is intended to provide structural, geotechnical, and construction engineers, engineering geologists, and architects with the tools necessary to design and construct foundations on expansive soils sites for a variety of soil types.

The course will be held at the Red Lion Hotel, 1401 Arden Way in Sacramento, California, on April 10-11, 2005.

The registration fee of \$580 includes the seminar, refreshments, and short course materials. A \$25 late

registration fee will be charged if registration is made less than 10 days from the date of the seminar. Registration and questions should be directed to 970-491-7501 (phone), 970-491-7747 (FAX), or [ocsreg@colostate.edu](mailto:ocsreg@colostate.edu). Colorado State University will grant Continuing Education Units after successful completion for a fee of \$25.

### **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).

### **GRA SEMINARS**

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.

### **AEG ANNUAL MEETING SHORT COURSES**

Short courses at the 2005 AEG Annual Meeting include:

- Aquifer Testing
- Paleoseismic Investigations
- Engineering Geophysics Workshop
- GIS for Geologic Mapping
- Review Course for ASBOG Test

For Short Course information and submittals, please contact:

Ernest Solomon

Short Course Chair, AEG San Francisco Section



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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 49MB. 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, it is \$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.

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

### Upcoming NCGS Field Trips

May 21, 2005—Robert Sibley Volcanic Regional Preserve in the Berkeley Hills; Stephen Edwards, Director, Tilden Regional Botanic Garden

June 25 and 26, 2005—Blueschists and Breweries ("Brewschists II"); John Wakabayashi, Consultant

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.

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

## EMPLOYMENT OPPORTUNITIES

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

### Staff Geologist

Upp Geotechnology, Inc. (UGI) is a small-sized geotechnical consulting firm that provides soil and foundation, geologic, and geotechnical engineering investigations and consulting services to private and commercial clients throughout the greater San Francisco Bay area and northern California. UGI is seeking a recent graduate for an entry level staff geologist position.

Responsibilities will include field work, drafting, laboratory testing and report writing. Applicants must possess

strong verbal and written communication skills and a degree in geology.

Interested applicants please submit your resume and profile via fax 408-866-9436 or mail to: Upp Geotechnology, Inc., c/o Human Resources, 750 Camden Ave, Suite A, Campbell, CA 95008.

### 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.

### EARTH IMAGING GEOLOGIC SERVICES

**530.295.9272**

- fault and landslide imaging
- hydrogeologic studies
- landfill and sump imaging
- UST and utility location
- bedrock/aggregate imaging
- concealed well location

*Custom ground geophysical surveys utilizing GPR, magnetometer, gravimeter, and seismic reflection*

RG No. 6589, CEG No. 1224, RPG No. 945

*Affordable rates from experienced professionals*

## ANSWERS TO GEOSCIENCE TRIVIA

1. Limestone
2. Salt
3. Banded Iron Formation

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

**AEG San Francisco Section – April Newsletter  
Monthly Section Meeting – Tuesday, April 12<sup>th</sup>  
The Englander Sports Pub & Restaurant, San Leandro**

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

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**RESERVATION FORM**

AEG San Francisco Section Meeting • Tuesday, April 12, 2005 • 6:00 pm • The Englander, San Leandro  
**Reservation Deadline: 12:00 PM, FRIDAY, APRIL 8<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: \$35 – members      \$15 – student members      \$40 – 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) \_\_\_\_\_