



## Meeting Details:

- **Tuesday, July 8<sup>th</sup>**
- Spenger's, Berkeley
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Speaker
- \$30 members, \$15 students

**Reservations Due By NOON, THURSDAY JULY 3<sup>RD</sup>!**

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## JULY 2003 PROGRAM

John Wakabayashi, Consultant, Hayward, California

### ***RECOGNITION AND MAPPING OF MELANGES: IMPLICATIONS FOR ENGINEERING PROJECTS***

Melanges, geologic bedrock units with blocks in a weak, commonly sheared, matrix have been recognized by geologists as significant components of orogenic belts for decades, yet the engineering community has been slow to appreciate their importance. Serious errors continue to be made because of mischaracterization of melanges. The history of mapping of melanges in the Franciscan Complex of California serves as an illustration of how strongly interpretive field geology is, and how drastically different interpretations of the same unit can be. Research shows that the Franciscan is composed of both coherent thrust sheets and melanges, yet many viewed (and still view) the entire Franciscan Complex as a melange. In many engineering projects, melanges are still treated as stratified units, or occasionally mistaken for soil with boulders. Whether a melange is of tectonic or sedimentary origin is unimportant for engineering purposes. In contrast, the grade of metamorphism of the matrix can be important, because significant recrystallization of the matrix strengthens it and reduces block-matrix strength contrasts. A melange of engineering significance has a brittle rather than ductile-deformed matrix, metamorphosed under greenschist or lower temperature conditions. Recognition of coherent (non-melange) units in contrast to melanges in the field is not trivial; experience with such rocks on the part of the participating geologist(s) and a well conceived exploration plan are critical for adequate characterization. I will present some practical guidelines for identifying and characterizing melanges in the field, based primarily on examples from the Franciscan Complex.

### **Speaker Biography**

John is a San Francisco Bay area native, having lived in the region his entire life. He first became interested in geology as a rockhound prior to attending college. He collected nice quartz crystals from a vein from Franciscan metagreywacke in the mid 60's on a Sierra Club hiking trip to Pacheco Peak, and made his first of innumerable visits to Ring Mountain on Tiburon Peninsula with a basketball buddy in 1976. He graduated from UC Berkeley with a bachelor's degree in geology in 1980 and received his Ph.D. in geology from UC Davis in 1989 under the advisorship of Eldridge Moores.

*(Speaker biography continued on Page 3...)*

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- ***July Meeting and SF Giants Game Details***
- ***June Meeting Notes***
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- ***Field Trip and Short Course Announcements***
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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, Lisa Gentry ([secretary@aegsf.org](mailto:secretary@aegsf.org)).

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**CHAIR'S MESSAGE**

Wow! Here it is, summer already! Our June meeting had a larger than usual turnout for a summer month; I hope the July and August meetings are equally successful.

In addition to the usual second-Tuesday Section meeting this month, we are having a fund-raiser/social on Saturday, July 19th. Join us at Pac Bell park for a San Francisco Giants game and pre-game tailgate party. Tailgating starts around 11:00 AM and the game starts at 1:00 PM. Tickets are \$30 each and the number of tickets is limited. See the announcement in this newsletter for full details and remember to purchase your tickets soon.

I am in the process of updating our e-mail/snail-mail list. About one-third of the Section members have responded to the e-mail that I sent out asking if e-mails from the Section were being received (I used a different list than our webmaster uses – that's how I was able to e-mail people and ask if they are receiving e-mails!). If you haven't responded to the e-mail, please take a moment to do so. The Section has saved a considerable amount of money by reducing the number of newsletters that are printed and mailed every month. If, however, you prefer a paper copy, we will be happy to add you to (or keep you on) the snail-mail list and send you e-mail announcements as well. My goal is to keep all of the Section members informed about Section activities and other important events happening in the geologic community.

I look forward to seeing lots of Section members and their guests at the Giants game.

*Corinne*  
 Chair, AEG San Francisco Section

**JULY SECTION MEETING DETAILS**

The July Section Meeting will be held at Spenger's Fresh Fish Grotto at 1919 Fourth Street in Berkeley, California (phone: 510-845-7771). The meeting will take place in the Pacific Room, which is accessed through a separate entrance to the left of the main entrance to the restaurant.

**Directions**

From 80 West (driving towards the Bay Bridge) - Take the University Avenue exit at the Berkeley Marina. Turn right at University, driving east. Turn left at 6<sup>th</sup> Street. Turn left at Hearst (1 block). Turn left at 4<sup>th</sup> Street.

From 80 East (driving towards Sacramento) - Take the University Avenue exit. Follow the signs for Frontage Road (stay to the right). Turn right at Hearst. Turn right at 4<sup>th</sup> Street.

**Reservations must be faxed to Chris Hundemer by noon on Thursday July 3<sup>rd</sup>.**

See the back cover of the newsletter for the RSVP form.  
 NO SHOWS AND LATE CANCELLATIONS WILL BE CHARGED!

**SAN FRANCISCO GIANTS GAME**

Because of the popularity of last year's event, our section has again purchased a block of seats for a Giants game this season. Tickets are limited to 60 seats. The game is on July 19th, at 1:05 PM against the Colorado Rockies. Anyone who wishes to purchase tickets should call or e-mail Chris Hundemer as soon as possible.

The cost for the game will be the same as our monthly meetings (\$30) and will include drinks before the game. We will also have people bringing barbecues, so everyone should bring something they'd like to 'cue up. Visit the AEG SF website for information regarding directions, parking, and the time and location for the tailgate party.

**SPONSORSHIP**

**Sponsor a Section Meeting or become a Section Corporate Sponsor!** Show support for an individual presentation or a specific meeting, or donate to the Section and receive free advertisement each month, recognition at Section Meetings, and more!

Contact Corinne Stewart ([chair@aegsf.org](mailto:chair@aegsf.org)) for more information on sponsorship.

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### **JUNE MEETING NOTES**

June's meeting was held at Sinbad's in San Francisco. We had about 43 members attending. Keith Knudsen of the California Geological Survey spoke to us about the Seismic Hazard Mapping Program, which thanks to the gracious letters of support, has been saved for another year.

On an annual basis, 3.2 billion of loss in a year should be accounted for in California due to earthquakes. Ground failure, surface rupture motion, liquefaction, tsunami, and seiche are some of the potential problems associated with earthquakes. Roadways, infrastructure, buildings, and utilities are endangered during an earthquake, especially where ground failures and lateral spreading can occur.

The Alquist-Priolo Act involves surface expressions of faulting and establishes zones of study required if projects are planned within the zone. The Seismic Hazard Mapping Act of 1990 establishes zones of required investigation for landslide and liquefaction investigations. It delineates zones of required investigation, identifies ground failure hazards likely to occur, requires disclosure, and triggers an investigation alert. It helps to evoke knowledge and is based upon hazard and mitigation results and reports from investigations at "project sites" from many consultants and professionals.

Within these zones, a project's approval is often contingent upon geotechnical investigation to evaluate seismic hazards, report findings and recommend mitigation. The process requires that registered and licensed professionals be involved in the investigation and reporting. It defines what a "project" is, any subdivision of land and structures for human occupancy. Exemptions are single-family dwellings less than three stories and not part of a development of four or more units, additions to existing structures of greater than 50% for commercial properties. The report must be prepared and reviewed by a registered civil engineer or certified engineering geologist that has "competence in the field of seismic hazard evaluation and mitigation."

Keith suggests using Special Publication 117 for required guidelines for all seismic hazard reports that includes any field work, lab information and mitigation recommendations for all site specific investigations. Sound science and technology, practical tools, and

building existing statutes is how this program works best. This will raise the standards for geotechnical and seismic programs and construction in different seismic hazard areas.

Multiple maps will be released in June for northern (17) and southern California (72). Most of southern California has been mapped, so the Survey plans on concentrating on the Bay Area in the coming year. They base the need for mapping on growth rates, population density, and potential hazards. They've finished about 110 quads with about a total of 300 planned over the next 10 years.

Lisa Gentry  
Secretary, AEG San Francisco Section

### **SPEAKER BIOGRAPHY (CONTINUED FROM PAGE 1)**

As part of field courses taken at UC Berkeley, John was exposed to methods of identifying and mapping melanges by UC Berkeley professor and USGS geologist Clyde Wahrhaftig. In fact, mapping melanges in the Franciscan and in the Sierra Nevada was a major component of Clyde's geology field camp course, which John took in 1980. John's early exposure to Franciscan rocks, undergraduate mapping in Franciscan, and a short stint mapping Franciscan rocks in San Francisco with Geotechnical Consultants, Inc. in 1981-1982, fueled his curiosity and led to his doctoral dissertation on the tectonics and metamorphism of the Franciscan Complex of the San Francisco Bay area. After receiving his Ph.D., he worked from 1989 to 1992 with Earth Sciences Associates in Palo Alto before becoming an independent consultant in 1993. His independent consulting has continued to the present day, and he has also taught a few geology classes at Cal State Hayward and Berkeley. His consulting work spans a broad spectrum of applied geology, including engineering geology, neotectonics/seismic hazards, environmental geology, and contract petrography. Several of these projects have involved characterization of melange for both engineering and environmental geology. He has continued to conduct geologic research on Franciscan geology and other subjects, resulting in a number of geologic publications and international recognition. He has also led many geologic field trips for local, national, and international geologic groups and university geology departments.

More information, including a list of representative projects and a list of publications can be found on his website at: <http://www.tdl.com/~wako>. John's website is perhaps best known for the extensive wilderness trout fishing pages and his homebrewing and beer appreciation page. With his wife, Judy, he has fished over 500 backcountry lakes in the Sierra Nevada and Klamath ranges and brewed over 70 batches of beer.

### **SUMMER 2003 REVIEW COURSES FOR THE ASBOG GEOLOGY LICENSING EXAM**

AEG is pleased to announce the Summer 2003 series of review courses for the ASBOG geology licensing exam

taught by REG Review, Inc. AEG and REG Review, Inc. have partnered to provide these courses since 1992.

Course dates and locations are as follows:

Southern California Course - (2003SC-2)  
July 11, 2003, 8am - 5pm  
Best Western Orange County Airport North  
2700 Hotel Terrace  
Santa Ana, CA 92705  
714-432-8888

Northern California Course - (2003NC-2)  
July 12, 2003, 8am - 5pm  
Samuel Merritt College Health Education Center  
400 Hawthorne Avenue  
Oakland, CA 94609  
510-869-6161

California Courses are \$385 for AEG members, \$400 for non-members. ASBOG Courses are \$340 for AEG members, \$355 for non-members. *Note: Preregistration deadline for the Summer 2003 West Coast courses was June 20, 2003.*

Current information on 2003 study manuals, flash cards, and courses may be found online on REG REVIEW, Inc's website at <http://regreview@aol.com>.

To contact REG REVIEW Inc., [regreview@aol.com](mailto:regreview@aol.com), or call Patti Sutch at 650-947-8899.

**Thank You to the Corporate Sponsors of  
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## **UPDATED GEOLOGIC MAPS**

### **Geologic Map of the Monterey Quadrangle**

On June 27, 2003 the California Geological Survey released the updated geologic map of the Monterey 30' x 60' Quadrangle and Adjacent Areas. Contact the CGS publications office at 916-445-6199 or visit their website at <http://www.consrv.ca.gov/cgs/> for more information.

### **California Seismic Hazards Mapping Program**

Many Seismic Hazard Zone (SHZ) maps have been updated over the last year. To view maps or to download maps and data, visit <http://gmw.consrv.ca.gov/shmp/index.htm>.

Santa Clara County's Geologic Hazard Zones (which include Landslide and Liquefaction Hazard Zones) include the State Geologist updates. Updates of the Santa Teresa Hills and Morgan Hill Quadrangles are

expected in mid-2003. To learn more about this program, visit [http://www.sccplanning.org/planning/content/MapsGis/MapsGis\\_Geologic\\_Hazards.jsp](http://www.sccplanning.org/planning/content/MapsGis/MapsGis_Geologic_Hazards.jsp), or contact James Baker at 408-299-5774 or [jim.baker@pln.co.scl.ca.us](mailto:jim.baker@pln.co.scl.ca.us).

## **ALQUIST-PRIOLO GIS DATA AVAILABLE**

GIS data is available for download for official maps of 14 new and revised Alquist-Priolo Earthquake Fault Zones in Southern California. Visit the California Geological Survey's website for more information, at [http://www.consrv.ca.gov/cgs/rghm/ap/gis\\_download/ap\\_gis\\_download.htm](http://www.consrv.ca.gov/cgs/rghm/ap/gis_download/ap_gis_download.htm).

## **MEMBER UPDATES AND OTHER NEWS**

### **CCGO Updates**

The California Council of Geoscience Organizations (CCGO) e-mails monthly progress reports to CCGO members on record, as well as others who want to stay informed of their activities. The latest report is posted at [www.cngo.org](http://www.cngo.org).

The CCGO advocates the use of sound geologic knowledge and practice by proposing, reviewing, and monitoring statutes, regulations, and public policies.

Please contact Executive Director Jane Gill ([JaneHGill@aol.com](mailto:JaneHGill@aol.com)) to be added to their mailing list.

### **L'OREAL LAUNCHES NEW SCIENCE FELLOWSHIP PROGRAM FOR WOMEN**

Cosmetics company L'Oreal USA has announced the creation of a new For Women in Science US Fellowship Program. Designed to continue the legacy of support provided by the company's international initiative, the L'Oreal-UNESCO For Women in Science Awards, the new program will provide education and research grants to young women pursuing a career in science.

L'Oreal USA will award five annual fellowships to young women who are graduate students or postdoctoral researchers in the natural sciences (biological and physical), engineering, computer science, and mathematics. A fellowship grant of \$20,000 will be awarded to each recipient.

The US Fellowship program is open only to women in their third or fourth year of graduate studies enrolled in a doctoral program leading to a Ph.D. or Sc.D. and post-doctoral researchers. Applicants must be US citizens, planning to become citizens by the time the awards are announced, or permanent resident aliens of the United States. Graduate students and postdoctoral applicants must be planning to pursue their field of study or advanced research at a nonprofit institution in the US.

The application deadline is November 1, 2003. Complete program information and application forms are available at <http://www.lorealusa.com/forwomeninscience>.

**Thank You!**

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**USEPA ISSUES \$73.1 MILLION IN NEW  
BROWNFIELDS GRANTS**

The US Environmental Protection Agency announced that it has issued a new round of \$73.1 million in grants to 176 communities and Indian tribes in 37 states to assess and clean up brownfields sites. "These grants will help turn neighborhood eyesores into community assets, restoring hope and creating opportunity for the people who live nearby," said outgoing USEPA Administrator Christine Whitman. "Every acre of reclaimed brownfields saves 4.5 acres of greenspace, and every greenspace created, on average, has doubled the value of surrounding properties," she noted. Up to \$250 million in brownfields grants is authorized annually under the Small Business Liability Relief and Brownfields Revitalization Act, which President George Bush signed in January 2002.

**UPCOMING AEG-SF MEETINGS**

DATE	SPEAKER	TOPIC	PLACE
7/19/03	Giants vs. Rockies	Tailgate party and baseball game	PacBell Park, SF
8/12/03	Carol Prentice, USGS	How Historical Research into the 1906 Earthquake Provides a Better Understanding of the San Andreas Fault	Sinbad's, SF
9/9/03	Donald Wells, Geomatrix	The Hayward Fault at UC Berkeley's Memorial Stadium	The Old Spaghetti Factory, Oakland
<i>No October meeting (due to AEG Annual Meeting)</i>			
11/12/03 (Weds.) Joint ASCE-AEG Meeting	Lloyd Cluff, PG&E	Performance of the Trans-Alaska Pipeline During the 11/3/02 Magnitude 7.9 EQ	Spenger's, Berkeley
12/9/03	William Cole and Philip Johnson, Cotton, Shires and Associates	The Use of Large-Diameter Boreholes and Downhole Logging Methods in Landslide Investigations	San Jose (exact location TBA)

**OTHER MEETING ANNOUNCEMENTS**

**AEG Annual Meeting**

Plan to attend the 2003 AEG Annual Meeting - "Engineering Geology with an Altitude" in Vail, Colorado, September 15 through 21! Please visit [www.aegweb.org](http://www.aegweb.org) for more details.

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This is your personal invitation to join GSA in the beautiful Emerald City this fall. And, we're asking for your help to get the word out about Geoscience Horizons: Seattle 2003. Registration is now open for GSA's Annual Meeting and Exposition. We encourage geologists, scientists, students, and other geoscience professionals to attend this meeting in Seattle, Washington, November 2 through 5, 2003.

This year's meeting in the Pacific Northwest has a remarkable line-up of talks, poster sessions, and field trips. As Seattle Local Committee Chair Derek Booth states, "It's really tough to highlight the 'most interesting' sessions because there are so many to choose from."

You can register for this meeting online at [www.geosociety.org](http://www.geosociety.org) or fax the registration form that is in the June issue of GSA Today to 303-357-1071 or 303-357-1072 if using a credit card. Register before September 26, 2003 to get the discounted rate.

We hope to see you in Seattle!

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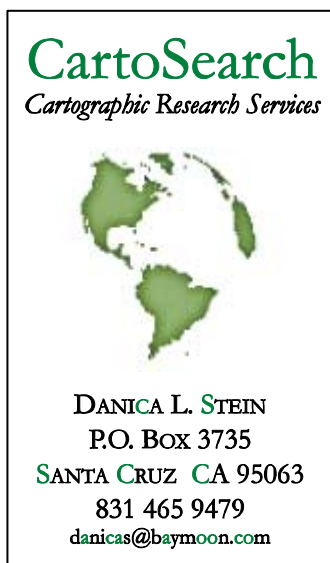
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**SHORT COURSES**

**Aerial Photography**

David Ruiz of Pacific Aerial Survey has offered to teach a short session on using aerial photographs. The course would likely be held at Pacific Aerial Survey's office in

Oakland in the early summer, and be limited to approximately 20 participants. If interested, please contact Ernest Solomon, Short Course Chair, at [shortcourse\\_chair@aegsf.org](mailto:shortcourse_chair@aegsf.org).



### Workshop on Fluid Flow and Transport through Faulted Ignimbrites and other Porous Media, Santa Fe, New Mexico, September 8-10, 2003

The workshop will take place at Ghost Ranch in Santa Fe, New Mexico. Application deadline is July 1, 2003, notification of acceptance will be given by July 15, 2003, and the deadline for registration is August 1, 2003.

Porous media, including volcanic and clastic sedimentary materials, exhibit a wide range in mechanical and hydrologic properties. The purpose of this workshop is to explore this range, with the goals of: (1) investigating physical controls on fault-zone deformation; (2) quantifying the hydrologic properties of structures produced by different deformation mechanisms; (3) utilizing fault-zone diagenesis as a record of fluid-rock interactions; and (4) developing methods to effectively model flow and transport through faulted porous media.

The workshop will begin with a field trip to examine faults in the Bandelier Tuff, exposed in Bandelier and Tent Rocks National Monuments. In addition to beautiful scenery, the trip will allow us to explore a range in fault-zone structures from fractures to deformation bands and will set the stage for discussing the hydrologic implications of the petrophysical and structural heterogeneity of faulted tuffs.

The following two days will be divided between brief sessions of short talks, poster sessions (posters will be up all day to facilitate discussion), and discussion sessions. Potential topics for presentation and discussion include: (1) case studies, including structural, geochemical, and hydrologic investigations of faulted porous media; (2) how to effectively incorporate qualitative geologic data into quantitative hydrologic models; (3) upscaling of small-scale structural and hydrologic data; and (4) extrinsic (e.g., confining

pressure, strain rate) versus petrophysical (e.g., porosity, cementation) controls on fault-zone deformation processes.

Please send letters of application to Deborah Rivera, Los Alamos National Laboratory, EES-IGPP, MS C305, Los Alamos, NM 87545 or [drivera@lanl.gov](mailto:drivera@lanl.gov) (phone 505-667-0920).

Conference costs will be \$335 for participants staying at Ghost Ranch in Santa Fe (double occupancy; single occupancy dependent on availability, add \$135 more) and \$165 for those who live locally.

The conference fee for those staying at Ghost Ranch includes three nights lodging, three meals a day, snacks, and transportation during the field trip; commuter fee includes lunch each day, dinner Tuesday night, snacks, and field trip transport. Round-trip airport shuttle will cost an additional \$40. Limited funds will be available to support some participants; applications should indicate the degree of need for such funds.

The final workshop agenda and additional travel information will be provided to all registrants in late July and will be posted on the New Mexico Tech Faults and Fluids Group web page at <http://www.ees.nmt.edu/Geol/Faults/Faultsflow>.



### ESRI International User Conference, July 7-11, 2003, San Diego, California

Special presentations, workshops, labs, showcases, and more than 100 user groups are designed to update ESRI GIS users on the latest technology, applications, and initiatives, as well as to provide users with a framework for engaging with others in the user community who work on similar projects or deal with the same types of challenges. The keynote speaker will be Peter Hillary, son of Sir Edmund Hillary, on the occasion of the 50th anniversary of the first successful ascent of Mt. Everest. For the current conference agenda, go to [www.esri.com/uc](http://www.esri.com/uc). For registration questions, contact ESRI at 909-793-2853, extension 1-1363, or [ucregis@esri.com](mailto:ucregis@esri.com).

For Short Course information and submittals, please contact:

Ernie Solomon  
Short Course Chair, AEG San Francisco Section

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### FIELD TRIPS

Drew Kennedy, AEG SF Field Trip Chair, is currently planning a field trip to Fort Funston to view the Merced Formation and discuss the regional tectonics associated with the offshore right-step over of the San Andreas fault. Details will be announced in the upcoming newsletter. Other field trips are listed below. For more details regarding the NCGS field trips, contact Jean Moran (NCGS field trip coordinator) at [jeanm@stetsonengineers.com](mailto:jeanm@stetsonengineers.com), or call her at 415-331-6806 (evening).

- Clear Lake Volcanic Field –August 2, 2003: Rolfe Erickson, Sonoma State, sponsored by Northern California Geological Society.
- Northern California Gold Belt, Quincy – Date TBA: Gregg Wilkerson, BLM, sponsored by Northern California Geological Society.
- Devil's Slide/Pebble Beach or Pigeon Point - Summer 2003: Scott Morgan, Morgan & Jody Castle of Earth Mechanics, sponsored by Northern California Geological Society.
- Foothills Fault System and Geology - September 2003: George Wheeldon, sponsored by AEG Sacramento Section, details to follow later this year.
- Point Reyes Area - October 11, 2003: Tom MacKinnon (exact itinerary TBA), sponsored by Northern California Geological Society.

### Friends of the Pleistocene

The FOP (Pacific Cell) holds annual field trips (usually three days in the fall) that focus on neotectonics, paleoseismology, geomorphology, and other aspects of

Quaternary geology. To make sure you're informed of future trips, sign up for the FOP Pacific Cell email list by following the instructions on the FOP Pacific Cell web site (<http://pacific.pleistocene.org/>), or emailing John Wakabayashi at [wako@tdl.com](mailto:wako@tdl.com). To see annotated photos from the 2001 field trip, visit John's web site at: <http://www.tdl.com/~wako>.

For Field Trip information and submittals, please contact:

Drew Kennedy  
Field Trip Chair, AEG San Francisco Section

### EMPLOYMENT NOTICES

*Please note: AEG provides the following as a courtesy but does not endorse these services or companies nor does it take responsibility for actions pursuant to these notices. Any member pursuing an employment notification does so at their own risk.*

### AWG GEOLOGIST-IN-THE-PARK POSITION: Mojave National Preserve, California, Cave Inventory

The Preserve has limited information on caves within its boundaries. It is presently working with the Southern California Grotto to gather data on the caves but needs to accelerate the process. Forty-five sites have been tentatively identified. All sites need a site-specific, preliminary inventory. This will consist of GPS-ing all cave entrances and filling out a data sheet for each site. Data collected will be preliminary information regarding the sites geology, paleontology, speleology, and biology, presence of cultural resources, and other such information. All data will be entered into a database. Or if preferred and if available, a GPS with a data dictionary may be used. Additional sites, if discovered, will need to be identified. If time permits, some mapping may be done. Qualifications Must have at least Masters credits in geology, skills with GPS and GIS, field experience, ability to read topographic maps. Cave experience desired. Time frame starts September 2003, with dates negotiable. Housing is available.

Closing date for applications is July 31, 2003 to Maggie Toscano, AWG GIP Coordinator, [awg-gip@awg.org](mailto:awg-gip@awg.org).

## Soil Tectonics

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Principal Soil Scientist	fax: 815.327.5331
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**AEG San Francisco Section – July Newsletter  
Monthly Section Meeting – July 8th  
Spenger’s Fresh Fish Grotto, Berkeley**

***CHECK OUT THE AEG SF SECTION WEBSITE AT [WWW.AEGSF.ORG](http://WWW.AEGSF.ORG)!***

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**RESERVATION FORM**

AEG SF Dinner Meeting – July 8, 2003 – 6pm  
Spenger’s Fresh Fish Grotto, Berkeley

**Reservation Deadline: 12:00 PM, THURSDAY JULY 3<sup>RD</sup>**

Fax Reservation Form to Chris Hundemer, c/o Upp Geotechnology (408-866-9436)  
Do not mail or fax payment – Check or Cash at the door – Make checks payable to AEG SF SECTION

Dinner and Meeting Cost: \$30 – members or spouses    \$15 – student members    \$32 – others

**No shows and late cancellations will be charged**

NAME \_\_\_\_\_ COMPANY \_\_\_\_\_

TELEPHONE NO. \_\_\_\_\_ NO. OF PEOPLE \_\_\_\_\_

PLEASE CHOOSE AN ENTRÉE:                      Chicken                      Fish                      Vegetarian

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**PERMANENT RESERVATION FORM**

AEG San Francisco Section monthly dinner meetings are typically the 2nd 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  
Chris Hundemer (fax: 408-866-9436) 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 \_\_\_\_\_