



# SAN FRANCISCO SECTION NEWSLETTER



## Meeting Details:

- Tuesday, September 10th
- Spenger's, Berkeley
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Speaker
- \$30 members, \$15 students who call Dr. Williams, 408-924-5050.
- **Reservations due by Friday, September 6th. See back cover for RSVP form.**

## Section Officers, 2001-2002

### Chair

Jason Preece  
Camp, Dresser & McKee, Inc.  
925-933-2900  
chair@aegsf.org

### Vice-Chair

Chris Hundemer  
Upp Geotechnology, Inc.  
408-866-5436  
vice\_chair@aegsf.org

### Treasurer

Corinne Stewart  
Pacific Geotechnical  
408-629-7801  
treasurer@aegsf.org

### Secretary

Lisa Paulick  
Earth Systems Consultants  
510-353-0320  
secretary@aegsf.org

### Committee Chairs

#### Membership Chair

Jim Springer  
jimbeau@speakeasy.net

#### Short Course Chair

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

#### Field Trip Chair

Drew Kennedy  
Gilpin Geosciences  
fieldtripchair@aegsf.org

## SEPTEMBER 2002 PROGRAM:

### The REAL Dirt on Liquefaction-The Role of ABAG in Liquefaction Susceptibility and Hazard Mapping by Jeanne B. Perkins

The Association of Bay Area Governments (ABAG) received funding from the U.S. Geological Survey (USGS) to work on liquefaction hazard mapping in a collaborative project with William Lettis & Associates, Inc. (WLA). As part of this collaborative effort, WLA received funding from USGS to develop new regionally consistent maps of Quaternary deposits in a project led by Keith Knudsen. These maps are significantly different from the maps of Quaternary deposits ABAG and others have used in the past. One of the principal differences is that the materials are mapped based more on the environment in which they have been deposited (basin, terrace, alluvial fan, etc.) and less on estimated grain size. WLA then grouped the geologic map units in the digital Quaternary map into categories of similar susceptibility to liquefaction based on:

- ◆ typical ground water levels (for each map unit across all nine Bay Area counties),
- ◆ typical sediment properties; and
- ◆ liquefaction occurrences during past earthquakes.

ABAG's role in this collaborative effort was to examine damage patterns in past earthquakes based on various combinations of shaking and liquefaction susceptibility, and use the results to (1) develop a practical guide for the educated lay public on the implications of liquefaction, and (2) develop a series of liquefaction hazard maps for various earthquake scenarios. ABAG focused on data from the Loma Prieta earthquake due to limited funding. The analysis of the damage data showed a strong correlation between liquefaction susceptibility mapping and damage to water and natural gas pipelines and roads, but was problematic for other types of damage, including damage to buildings and hazmat incidents. This information was used to develop a table for assigning relative liquefaction hazard for various combinations of shaking severity and liquefaction susceptibility. ABAG's work also resulted in a report, *The REAL Dirt on Liquefaction* and the hazard maps are available on ABAG's earthquake program Internet site at [quake.abag.ca.gov/liquefac/liquefac.html](http://quake.abag.ca.gov/liquefac/liquefac.html).

### Speaker Biography

Jeanne B. Perkins is the Earthquake Program Manager for the Association of Bay Area Governments (ABAG) and major pusher for development of ABAG's popular website on earthquakes. She has served as the principal investigator for several research projects focusing on earthquake preparedness issues in the Bay Area and has a long history of working with other earthquake issues, including research on liability for earthquake losses and hazardous materials problems in earthquakes. Her research on improving earthquake hazard maps for the San Francisco Bay Area resulted in the May 1995 publications of a revised report, *The San Francisco Bay Area -- On SHAKY Ground* and a September 1998 *Supplement* to that report, *Riding Out Future Quakes*, in October 1997 (updated in April 2002), and the March 1999 planning report, *Ideas for Action*. She also helped to revise the liquefaction hazard mapping for the Bay Area and was the principal author of the February 2001 report, *The REAL Dirt on Liquefaction*. She is involved in a number of projects estimating uninhabitable housing units, numbers of displaced people and resulting shelter populations in future Bay Area earthquakes, resulting in the report, *Shaken Awake!* in April 1996. She has led ABAG's research on the status of earthquake retrofitting of single-family and multifamily housing, as well as the reasons why owners retrofit and don't retrofit, which resulted in the report, *Preventing the Nightmare*, in October 1999.

Pay for your copy of "Engineering Geology Practice in Northern California" before September 18th and save 20%! See page 3 for details.

**Committee Chairs**

**CCGO Liaison**

Betsy Mathieson  
Exponent Failure Analysis  
ccgo@aegsf.org

**Legislative Chair**

Julian C. Isham  
legislative\_chair@aegsf.org

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publications\_chair@aegsf.org

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Keil Albert  
Geoconsultants, Inc.  
awards\_chair@aegsf.org

**Past Chair**

Gary Pischke  
Earth Systems Consultants  
past\_chair@aegsf.org

**Newsletter Editor?**

Lisa Paulick  
Earth Systems Consultants  
510-353-0320  
secretary@aegsf.org

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

**Submittals:**

Deadline is the 20<sup>th</sup> of each month for the following issue. Contact Lisa Paulick by email (newsletter@aegsf.org) for submittal. All submittals are subject to editing for space. Job ads are free if brief.

**Address changes:** Please submit to Section Secretary, Lisa Paulick (secretary@aegsf.org).

**Advertisements:**

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

	<u>Monthly</u>	
Business card	\$ 15	\$ 10
1/4 page	\$ 30	\$ 40
1/2 page	\$ 60	

**Sponsorship:**

Become a Section Corporate Sponsor! Donate to the Section and receive free advertisement each month, recognition for your donation at Section Meetings, and more! For more info on Section Sponsorship, Contact Jason Preece ([chair@aegsf.org](mailto:chair@aegsf.org)).

**INSIDE THIS ISSUE...**

2002-2003 Officer Ballot Results – Page 3

**NEWSLETTER STATUS and NEW OFFICER NOMINATIONS!**

The results for new officers election is here. To discuss the staff opportunities now available, please contact current chair, Jason Preece at ([chair@aegsf.org](mailto:chair@aegsf.org)). PLEASE NOTE: Due to the National meeting, there will not be an October Newsletter.

**NEW TECHNICAL FORUM**

You are invited to join... *WaterTalk, StormTalk, SewerTalk*...three new Technical Forums for water resource professionals. These forums will keep you up-to-date with the latest tips and tricks in hydraulic and hydrologic modeling. Post your engineering questions and share your unique modeling experiences with a global audience of thousands of professionals. Learn more and sign up at the link <http://www.haestad.com/e/m.asp?d=49&m=020319DGs>

**URL FOR MCLAUGHLIN'S MAPS.**

Here they are: The first on is the front page for "geopubs": <http://geopubs.wr.usgs.gov/>. You can click on "Miscellaneous Field Studies" or go directly to <http://geopubs.wr.usgs.gov/docs/wrgis/mf-map.html>. You can go down the list and click on "MF 2373" or go directly to: <http://geopubs.wr.usgs.gov/map-mf/mf2373/>

**SEPTEMBER SECTION MEETING DETAILS**

The upcoming September meeting will be held at **Spenger's Restaurant**, located in Berkeley. Validated parking is available.

**Please make your reservations by Friday, September 6th! See the back cover for the RSVP form. Please FAX all meeting reservation correspondence to Corinne.**

**August Meeting Notes**

The August Section meeting, held at Sinbad's in San Francisco, was attended by 26 people. It was a great evening to be in San Francisco – the view of the Bay was beautiful and proximity to the water provided pleasant relief from the heat of the week. Our new membership chair, Jim Springer was introduced during the preprogram announcements.

The program, titled "Ground-Penetrating-Radar Geophysical Profiling Applications for Geotechnical Investigation: Case Studies in Slope Stability and Landslide Imaging," was presented by Gary Mann of Earth Imaging Geologic Services. Ground-Penetrating-Radar (GPR) is a reflection geophysical method that uses electromagnetic waves instead of acoustic waves to image subsurface geologic interfaces. Waves are directed into the ground and bounce back as reflections. These reflections are then converted to digital data and stored in a lap top computer. GPR is fast (you can collect data just as fast as you can walk) and inexpensive to use (after you buy \$40 to \$50 thousand worth of necessary equipment!).

Mr. Mann described a typical application of GPR at a desalination plant located north of San Simeon beach where GPR was used to map depth to bedrock in intricate detail. Digital enhancing can be used to enhance or suppress certain subsurface features such as the ground water table. GPR is often used in environmental work for identifying and/or locating buried tanks, old fill, etc.

GPR can be used to locate displacement along faults. Since faults and landslides have similar features and structures, they can be geophysically modeled in the same way. Surficial evidence for sliding (such as en echelon cracks, leaning walls, and "mole tracks") prompts the use of GPR for landslide investigations. To model a landslide using GPR, profiles are taken across surface lineaments. GPR can be used to identify both the bedrock-soil interface and slide planes that have formed beneath this interface within the bedrock. GPR is very poor in identifying different soils, however, it will distinguish zones of variable weathering.

For more information on GPR, Gary Mann can be contacted at (530) 295-9272.

Corinne Stewart  
Section Treasurer/New Chair

## UPCOMING MEETING ANNOUNCEMENT

Please note that there will not be a Section meeting in October since the Association's Annual Meeting is at the end of September. The November meeting will be the joint ASCE\AEG meeting usually held at Spenger's Fish Grotto in Berkeley. The meeting is tentatively scheduled for Thursday, November 14<sup>th</sup>. Speaker, topic, and details will be announced in the November newsletter.

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## MEMBER STATUS AND UPDATED INFO

We will have a new Newsletter Editor and Webmaster for the 2002-2003 term, which begins in October. We will also have a new Membership Chair, Jim Springer. We'd like to thank all our volunteers for their help and efforts. New staff members will be announced at this month's meeting.

It seems like we haven't had any updates on individual members in ages.

Upp Geotechnologies hired a new geologist in February. Craig Reid graduated from the University of Wisconsin, Madison with a double major in Geology and Geologic Engineering. He also studied abroad in Peru. The most important things about Craig are that he's really nice, has a great sense of humor, and he is an AEG member.

AEG member, Stephanie Clark (Pacific Geotechnical Engineering) is pregnant with twins. She is due in January.

SF Section Secretary/Newsletter Editor/Webmaster, Lisa Paulick (Earth Systems) is marrying her long-time boyfriend, Denton Gentry on October 3, 2002 in the heart of the Sonoma County Wine Country.

Please send news about yourself, your company, or other AEG members to the newsletter-editor@aegsf.org.

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## Engineering Geology Practice in Northern California

The "Engineering Geology Practice in Northern California" publication will be printed and available for purchase in time for the Annual Meeting in Reno (September 23<sup>rd</sup> through 29<sup>th</sup>). Only 600 copies of this long-awaited publication are being printed and our section will receive 150 copies for resale. The Section has paid about \$11,000 towards the costs of creating and printing the publication; a portion of this money is from contributions given to the Section specifically for the publication, the majority of the money is being paid by the Section.

We hope that AEG members will want to purchase "Engineering Geology Practices in Northern California" and we encourage the San Francisco Section Members to support the Section by purchasing the publication from us. The publication will be sold for \$95 (by both AEG and CGS); however, the Section will be giving a 20% discount (\$76) on paid preorders and on purchases made at the Annual Meeting. Firms or individuals that have contributed a minimum of \$500.00 for publication costs will get a free copy. Contributors of a minimum of \$250.00 will receive a 20% discount. There are a limited number of copies available to the S.F. Section,

and therefore, prepurchasing is probably the best way to secure a copy.

To preorder "Engineering Geology Practices in Northern California" for \$76.00, send a check (payable to AEG SF Section) to: Corinne Stewart, c/o Pacific Geotechnical Engineering, 16055-D Caputo Drive, Morgan Hill, CA 95037. Your order must be post marked no later than September 18<sup>th</sup>. The prepaid publications can be picked up at a section meeting. Call Corinne at 408-778-2818 with any questions.

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## OFFICER ELECTION RESULTS

The votes are in. 30 members voted for the new officers for the section. This is consistent with past voting, though closer to 10 percent than the past votes.

The new officers are:

**Corinne Stewart**- Chair- 30 votes

**Patrick Drumm**- Vice Chair- 30 votes

**Chris Hundemer**- Treasurer- 30 votes

**Lisa Paulick**- Secretary - 28 votes; one vote for Craig Reid, and one vote for Maile Smith.

Congratulations to the new officers for 2002-2003. And signing out for now.

Gary Pischke

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## SHORT COURSES

No short courses are pending.

Ernie Solomon,  
Short Course Chair

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## GSA Annual Meeting in Denver

Betsy Mathieson, Ed Medley (both AEG, San Francisco Section) and Prof. Gunter Riedmueller (Head of the Institute of Engineering Geology at the Technical University of Graz, Austria) are moderating a Topical Session at the GSA Annual Meeting at Denver in October 27-30, 2002. <http://www.geosociety.org/meetings/2002/>. The Session is being Sponsored by the Engineering Geology Division of GSA.

The Session is T23 - "Working with Geological Chaos: Characterization, Design, and Construction Problems of Fault Rocks, Melanges, Sapolites, and other Block-in-Matrix Rocks (Bimrocks)". The session will present research and case history experience of investigation, characterization and earthwork/tunneling experience in bimrocks. Bimrocks frustrate reliable geological and geotechnical methods of characterization because of their often extreme spatial variability and geomechanical heterogeneity. Bimrocks abound: the fabric of blocks-in-matrix, or hard blocks surrounded by weaker matrix, is fundamental.

For details contact:

Dr. Edmund Medley, Exponent Failure Analysis Associates  
149 Commonwealth Drive, Menlo Park, CA 94025 USA  
phone: 650 688 7107 fax: 650 328 3094  
<mailto:emedley@exponent.com> <http://www.exponent.com>

## FOP FIELD TRIPS

The Friends of the Pleistocene, Pacific Cell, holds annual (usually three days in the fall) field trips that focus on neotectonics, paleoseismology, geomorphology, and other aspects of Quaternary geology. Attendance usually exceeds 150 people, and the trips are a terrific mix of serious science (best discussions and debates you'll ever hear on field trips) and serious fun (imagine 150+ geologists camping out and you get the picture). To make sure you are informed of future trips, sign up for the FOP Pacific Cell email list by following the simple instructions of the Pacific Cell FOP website at: <http://pacific.pleistocene.org/> John Caskey of SF State will be leading the 2002 trip to the Central Nevada Seismic Belt. To see annotated photos from the 2001 trip see the page on John Wakabayashi's website at: <http://www.tdl.com/~wako/geopics.html>

John Wakabayashi

## NOTES FROM THE SECRETARY

"Success seems to be connected with action. Successful men keep moving. They make mistakes, but they don't quit."

The Engineering Geology Practices of Northern California book is available for preorder for the Annual Meeting in Reno. The Annual AEG-AIPG Joint meeting will be held September 23-29, 2002 in Reno Nevada. Please go to [www.aegweb.org](http://www.aegweb.org) for more details.

I plan to remain on as Secretary. There has been a few offers for someone else to do the Newsletter and Webmaster position, so I will recind those positions. I hope you all have enjoyed reading these last newsletters as I have enjoyed preparing them. I will still continue writing notes, so be afraid.

Lisa Paulick (secretary@aegsf.org)  
2001-2002 San Francisco Section Secretary


## SPONSORS SOUGHT

If you would like to present your company services or products that may be of interest to the geotechnical community, become a Monthly Section Meeting Sponsor! Give a quick presentation of your company before the main speaker at the monthly meeting, get free advertising in the newsletter and website, and reap the benefits of exposure! Contact [chair@aegsf.org](mailto:chair@aegsf.org) for more information and sign up today!

**Thank You to AEG Corporate Sponsors from the San Francisco Section!**

*Applied Geomechanics – Santa Cruz*  
*Exponent Failure Analysis – Menlo Park*  
*Upp Geotechnology – San Jose*

Thank You  
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**Glenn Borchardt, Ph.D.** 510.654.1619  
Principal Soil Scientist cell : 510.205.4562  
Cert. Prof. Soil Sci. No. 24836 fax : 815.327.5331  
P.O. Box 5335 gborchardt@usa.net  
Berkeley CA 94705-0335 www.soiltectonics.com



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831 465 9479  
danicas@baymoon.com

**JOB OPORTUNITIES AND ADS**

**SENIOR STAFF GEOTECHNICAL ENGINEER**

3-5 years experience. BSCE required, MSCE preferred. Registration desirable. Land development experience required.

**SENIOR STAFF GEOLOGIST**

3-5 years experience. BS required, MS preferred. Land development experience required.

**FIELD TECHNICIAN**

2+ years with land development experience.

3 Opportunities to join an established and growing Geotechnical and Environmental Consulting firm. We are looking for the best and brightest to join our team in San Diego. This company offers great potential for hardworking and motivate individuals. Qualified candidates ONLY please email resume in Word format to sherril\_s@adrconsult.com or fax to 916-727-9911. Southern CA candidates strongly preferred.

Sherril Swett, Recruiter ADR Consulting, Inc.  
916-727-9911 Fax  
[sherril\\_s@adrconsult.com](mailto:sherril_s@adrconsult.com)

**SENIOR ENGINEERING GEOLOGIST - PROJECT MANAGER**

RGH Consultants, a small Sonoma County firm, is seeking a Senior Engineering Geologist - project manager with 10+ years experience, preferably in northern California geology. California registration/certification required. To send resume or for more information, contact us at (707) 544-1072.

**GEOTECHNICAL REGIONAL MANAGER ENGINEER-URGENT**

LOCATION Flex, 1,000 Oaks, Simi V., Santa Clarita, Ventura, Westlake Village area (Need to relo to a larger space this summer

and new mgr will decide). Region LA County to Ventura. Salary: 95,000 - 110,000 bonus, other perks  
COMPANY BRIEF Great company, well known in So. Ca, good growth, stable clientele, Stable staff. Matrix organization - no politics - job open due to promotion  
JOB DESCRIPTION: Be in charge - set the standards. Need Geotechnical background to run the 30+ office who execute integrated getoechnical professional services. MUST HAVE CALIFORNIA PE and experience. Established, thriving office. Just need the manager to step in behind excellent manager who was promoted.  
QUALIFICATION P.E. or G.E., (Masters a plus) - geotechnical or related discipline, 10+ years managing a professional staff, OR a Project Manager who sees this as his next step UP THE CAREER LADDER

RECRUITER; Beth McNeely  
Management Recruiters  
Email: bethmcneely@aol.com  
Phone: (360) 357-9996

**PROJECT ENVIRONMENTAL GEOLOGIST/ENGINEER**

LOCATION USA - CA - San Diego. \$80000 - 100000  
COMPANY BRIEF Well established company in Southern CA market, with small environmental group which has more business to handle, so excellent opportunity to "Grow" an office.  
JOB DESCRIPTION Run the work of engineers/geologists and the environmental site assessments leading to remediation design. Use your scientific knowledge and skills to establish a sophisticated culture of excellence.  
QUALIFICATION BS (Geology, Hydrolgeology, Environmental, or Civil) We do need a registered engineer, hydrologist or geologist (or can obtain) to sign the work. 7+years Phase I, II, III exp. California experience within last 10 years.

RECRUITER : Beth McNeely  
Email: bethmcneely@aol.com  
Phone: (360) 357-9996

**GEOTECH LAB MANAGER/SUPERVISOR**

Great company in Bakersfield, CA is looking for a geotech lab manager/supervisor. Staff of 6 to coordinate. Salary open, relo paid. This is a very well run small company, people stay and grow with them.

Beth McNeely  
Management Recruiters of Olympia, WA  
360 357 9996  
E: bethmcneely@aol.com

**SENIOR PROJECT MANAGER**

ATC Associates Inc., a leading national environmental consulting company, is seeking a Senior Project Manager for its Due Diligence group in Pleasanton, CA. Required qualifications include:

- BS or MS in Geosciences, Engineering or Environmental Sciences
- 7-10 years consulting experience in Phase I/II work
- Certification/registration as a California REA, R.G. or P.E.

Essential job duties include:

- supervising and mentoring Due Diligence staff
- Writing proposals
- Budgeting, scheduling and managing projects
- Maintaining client relations.

For company information please visit our website at [www.atc-enviro.com](http://www.atc-enviro.com). To apply, please send cover letter and resume to:  
Human Resources ATC Associates Inc.

6602 Owens Drive, Suite 100

Pleasanton, CA 94588

No phone calls please. EOE

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### **TENURE TRACK POSITION IN ENGINEERING GEOLOGY or SURFICIAL PROCESSES**

The Department of Geosciences at SFSU invites applications for a tenure-track faculty position at the assistant professor level in Engineering Geology and/or Surficial Processes, beginning January or August 2003. The position requires a Ph.D in geology, strong quantitative and field mapping skills, and a commitment to excellence in teaching at graduate (MS) and undergraduate levels. We seek someone to teach advanced-level engineering geology and/or surficial processes courses, and general education courses in natural hazards or earth systems. The successful applicant will be expected to maintain an active research program that involves graduate and undergraduate students. Preference will be given to applicants who have applied experience with a geotechnical or environmental firm and experience in teaching and in applying GIS technologies.

The Department of Geosciences includes geology, meteorology, and oceanography and consists of 13 faculty members from these fields. The department offers BS and BA degrees in Geology, a BA degree in Meteorology, and a MS degree in Applied Geosciences.

San Francisco State University, a member of the California State University system, serves a multi-cultural, ethnically diverse student body of 27,000 students, offering bachelor's degrees in 117 academic areas and master's degrees in 95 fields of study. Excellence in teaching is the University's primary mission, although SFSU faculty are expected to demonstrate continued professional achievement and growth through research, publications, and community involvement.

To apply, send a curriculum vitae, a statement of teaching and research interests, and names and addresses of three references to: Lisa White, Dept. of Geosciences, San Francisco State University, San Francisco, CA 94132. Applications should be received before September 30, 2002. San Francisco State University is an Equal Opportunity / Affirmative Action employer.

Raymond Pestrong, PhD  
Professor of Geology  
Department of Geosciences  
San Francisco State University  
San Francisco, CA 94132  
(415) 338-2080 Fax-(415) 338-7705  
E-mail - [rayp@sfsu.edu](mailto:rayp@sfsu.edu)

THE NEW WEBSITE FOR THE CALIFORNIA GEOLOGICAL SURVEY AT [www.consrv.ca.gov/cgs/](http://www.consrv.ca.gov/cgs/) IS CONSTANTLY UPDATING THEIR MAPS.

#### Six New Bay Area Preliminary Seismic Hazards Maps

Released August 14, 2002.

Several of these maps include areas that were previously mapped and released. The new mapping covers only the Alameda County parts of the quadrangles.

#### Complete Set of Alquist-Priolo Earthquake Fault Zones GIS

Files Now Available.

With the release of CD 2001-05, Southern Region, and CD 2001-06, Northern and Eastern Region, accompanying the previously published CD 2001-04, Central Coastal Region, the complete set of A-P GIS data is now available.

#### Three Official Seismic Hazard Zone Maps Released on June 21, 2002

Areas covered include parts of Orange, Ventura and Santa Clara Counties. Maps and Evaluation Reports may be viewed at the Seismic Hazards Mapping website.

Eight Preliminary Seismic Hazard Zone Maps are now available for review. Maps for Fillmore, Ojai, Piru, Val Verde, Pitas Point, Oxnard, Saticoy and Santiago Peak Quadrangles have been released for public review.

Go to their web site for more information and other new releases!

Lisa Paulick  
34892 Sea Cliff Terrace  
Fremont, CA 94555

**AEG September Newsletter**  
**September 10 – Monthly Section Meeting**  
**Spenger's, Berkeley**

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

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**RESERVATION FORM – September 10, 2002 AEG Dinner Meeting, 6pm**

Please fax your reservation to arrive before *noon*, Friday, September 6th

Fax to Corinne Stewart, c/o Pacific Geotechnical Engineering (408-779-6879)

- Check or Cash at the door – Do not mail or fax payment.

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

**Make checks payable to: AEG SF SECTION**

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 usually but not always on 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 will fax or mail a cancellation notice to

Corinne Stewart (fax: 408-779-6879) by noon, the Friday before the meeting.

NAME \_\_\_\_\_ TELEPHONE NO. \_\_\_\_\_

BILLING ADDRESS \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

Dinner Costs are normally but not always: \$30 – members or spouses                      \$15 – student members                      \$32 - others

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