



SAN FRANCISCO SECTION NEWSLETTER



Meeting Details:

- **Tuesday, August 12th**
- Sinbad's, San Francisco
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Speaker
- \$30 members, \$15 students

Reservations Due By NOON, THURSDAY AUGUST 7th!

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AUGUST 2003 PROGRAM

Carol Prentice, Western Earthquake Hazards, USGS

AT THE INTERSECTION OF HISTORY AND GEOLOGY: HOW HISTORICAL RESEARCH INTO THE 1906 EARTHQUAKE PROVIDES A BETTER UNDERSTANDING OF THE SAN ANDREAS FAULT

The great San Francisco earthquake of 1906 was the first thoroughly studied earthquake in the US, and among the first scientifically studied earthquakes in the world. Archival materials associated with the study of the 1906 earthquake, such as old photographs, maps, correspondence, and original reports, have provided essential information to several studies along the northern San Andreas Fault.

This presentation will review four study areas (Loma Prieta, San Francisco Peninsula, Fort Ross, and Shelter Cove) where historical materials related to the 1906 earthquake have played a key role in recent geologic studies of the northern San Andreas Fault.

Speaker Biography

Carol Prentice received her undergraduate degree in Geology from Humboldt State University in 1979. After teaching high school for three years, she continued her studies in Geology at Caltech, where she earned her MS in 1984, and her Ph.D. in 1989. Since 1989 she has been a research scientist at the USGS, and has conducted paleoseismic research on faults in northern California, Dominican Republic, Trinidad, Nicaragua, Puerto Rico, New Zealand, Thailand, Mongolia, and Taiwan.

SF GIANTS GAME

A great time was had by all at the Giants game social. Chris Hundemer set up a great tailgate party complete with a barbecue, chips, salsa, and drinks. There were AEG members with spouses, boyfriends, girlfriends, kids, friends, and in-laws attending the game. Our seats at the Pac Bell Park provided a great view of the San Francisco Bay, McCovey Cove (with many boat owners hoping to net a homerun ball), the Bay Bridge, and the Port of Oakland. AEG SF even had our name on the scoreboard! To make the day even better, the Giants beat the Colorado Rockies 5 to 3 and we got to see Barry Bonds hit a home run!

Chris did a great job setting up the event (Pat Drumm and I tried to organize it, but both of us are completely hopeless with anything that involves sports). Chris has volunteered to organize another Giants game social next year; come join us (even if you're not a baseball fan), it's really fun.

IN THIS ISSUE...

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- ***August Meeting Details***
- ***July Meeting Notes***
- ***Member Updates and Other News***
- ***Short Course and Field Trip 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.

Submittals:
 Deadline is the 20th of each month for the following issue. Contact Maile Smith by email (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).

Advertisements:
 The newsletter's circulation is about 360 within northern California.

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 business card: \$15 / month
 1/4 page: \$30 / month
 1/2 page: \$60 / month

CHAIR'S MESSAGE

Usually attendance at AEG SF Section meetings is lowest during the summer months. (I've always attributed this to geologists taking advantage of increased daylight hours and staying out in the field longer.) This summer, however, Section meeting attendance has been outstanding. Average meeting attendance has increased by more than 40% (from an average of 35 people per meeting to an average of 50 people per meeting). I'd love to know what we're doing right so we can continue! We have been trying to improve communication with the members, especially with regards to Section meeting details; we have also had great speakers!

The end of the fiscal year was June 30th. Chris is in the process of preparing the annual Section treasury report. The Section's finances have continued to improve this fiscal year. There are several possible activities being discussed for the next year; hopefully we'll be offering some short courses and/or field trips within the next year.

The annual AEG meeting is happening in September in Vail, Colorado. There are many San Francisco Section members presenting talks and posters at the meeting. I encourage everyone to check out the program with abstracts (if you haven't received one yet, please e-mail Becky Roland broland@aegweb.org) and try to attend the meeting. It's also dues statement time again. Renewals should be going out in the mail soon, so keep an eye open for them! Prompt renewal really facilitates record keeping and helps both the Association and Section financially.

I hope to see many of you at the next Section meeting and in Vail!

Corinne
 Chair, AEG San Francisco Section

AUGUST SECTION MEETING DETAILS

Dr. Prentice's presentation was also given on June 25, 2003 at the Northern California Geological Society meeting. If anyone missed that presentation, this is another chance to see it.

The August 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 1/2 mile and take the 7th Street exit towards Downtown. Bear left on 7th Street. After approximately 1/2 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 1/2 mile. Turn right on Mission Street. Continue until Embarcadero Street.

Reservations must be faxed to Chris Hundemer by noon on Thursday August 7th.

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

SPONSORSHIP

Sponsor a Section Meeting! Show support for an individual presentation or a specific meeting.

Become a Section Corporate Sponsor! Donate to the Section and receive free advertisement each month, recognition at Section Meetings, and more!

Contact Corinne Stewart at chair@aegsf.org for more information on sponsorship.

JULY MEETING NOTES

July's meeting was held at Spenger's in Berkeley. We had about 60 members attending. John Wakabaishi spoke to us about mapping melanges. They are often mis-mapped as continuous beds and layer-cake style beds. Common misconceptions are that mélanges are rare, when they actually make up a significant fraction of California geology, and that they are associated with serpentinites only, when in fact many contain ultramafic sheets and material. Bounding contacts can be either tectonic or olistostrome, meaning faults or sedimentary contacts. They have mappable foliation within the mélange and good contacts outside the zones. People die when the mélanges are mis-mapped and construction is to happen and is based upon only bore holes.

When mapping bore holes you have to recognize you are in a mélange first, they are formed by faulting, sedimentary processes, landsliding. Thrust faults, subduction are the most common areas, but not so often in strike-slip faults. But formation has little impact on the engineering aspects of the mélanges. Once they become metamorphosed they are no longer considered soft or "goo" engineering-wise.

The higher the proportion of blocks, the more lengthened the blocks are in a mélange the stronger the melange material is. Zones can be mapped that are rich, poor or even lacking in certain types materials and blocks. Geomorphology is the one of the most important clues as to the presence of a mélange, and they need to be internally heavily mapped, but the external boundaries can be contact mapped. Small outcrops of chert, basalt, metamorphic or serpentinites including blueschist, in a sandstone outcrop, you are most likely in a mélange.

Sandy Figuers needs copies of old guide books. Please contact him if you think you may have a copy of one he needs to finish his lists. Jim Baker suggested to go to www.sccplanning.org and pick the laws and guidelines choice to be able to download SP117 and its guideline supporting books.

Lisa Gentry
Secretary, AEG San Francisco Section

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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 (3 plates: shaded relief color geology; topo base geology; map units explanation). Contact the CGS publications office at 916-445-6199 or visit their website at <http://www.consrv.ca.gov/cgs/> for more information.

Other new publications just released from CGS: Fault Investigation Reports for Development Sites within Alquist-Priolo Zones (1974-2000), and Fault Evaluation Reports Prepared (by CGS Geology Staff) under the AP Earthquake Fault Zoning Act.

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, or contact James Baker at 408-299-5774 or 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.

MEMBER UPDATES AND OTHER NEWS

NATIONAL EARTH SCIENCE DAY: Black Diamond Mines Regional Preserve Educator's Day

The East Bay Regional Park District and NCGS are hosting a field trip for Bay Area teachers to the Black Diamond Mines Regional Preserve on October 25, 2003. The Antioch preserve is centered around historic coal

mines (and a cemetery) that played an important role in the early industrial San Francisco Bay Area. The field trip will be held during National Earth Science week, and will be limited to 30 teachers. For more information, contact Ray Sullivan at 415-338-7730 or sullivan@sfsu.edu.

Passing of AEG Members

Recently, two AEG members have passed away.

John Ivey passed away on July 11th. John was a member of the Rocky Mountain Section. He served as President of the AEG in 1980 and he received the Floyd T. Johnson Service Award in 1987.

Emily Cooper passed away on July 16th. Emily was a member of the New England Section and was an AEG member for 17 years.

NCGS Recognizes Dan Day and Ron Crane for Services on Behalf of the Society

The Northern California Geological Society recognized Dan Day and Ron Crane on June 25, 2003 for their outstanding contributions to the society. Dan will be leaving his position as newsletter editor this year after service as secretary or newsletter editor for nearly 10 years. Ron was the lead or co-lead for 12 field trips over the last 15 years. Both also served as past presidents and vice presidents of the NCGS.

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.ccco.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) to be added to their mailing list.

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

Applied Geomechanics – Santa Cruz

Exponent Failure Analysis – Menlo Park

Upp Geotechnology – San Jose

EERI Student Paper Competition

The Earthquake Engineering Research Institute is pleased to announce its Annual Student Paper Competition (Undergraduate and Graduate levels). The purpose of the competition is to promote active involvement of students in earthquake engineering and the earthquake hazards research community. Up to four student authors will be invited to the Annual Meeting of

EERI in Los Angeles, California, February 4-7, 2004, and will receive travel support for this purpose. Their papers will also be considered for publication in *Earthquake Spectra*.

Guidelines for preparing the manuscript can be obtained from EERI, 499 14th Street, Suite 320, Oakland, California 94612, 510-451-0905, fax 510-451-5411, or www.eeri.org. All papers must be received by November 3, 2003. No fax copies or e-mail copies will be accepted.

Melange Guidebook and Handouts Available

Did you enjoy John Wakabayashi's presentation on melanges at the July AEG SF meeting? Did you lie awake that night wondering if the stratified rock or soil with boulders you described in your last report was actually a melange? Do you feel as if you're falling behind the standard of practice? Improve your understanding of melanges by adding these two AEG SF Section publications to your library!

Tunnels Through Fault Rocks and Tectonic Melanges: A Short Course for Engineering Geologists and Geotechnical Engineers

- Field Trip Guidebook, May 31, 2002
- Lecture Handouts and Reprints of Selected Papers (includes CD with Gunter Riedmuller's and Wulf Schubert's presentation), June 1, 2002

The field trip guidebook and lecture handout binder are available for \$50.00 each. Contact Betsy Mathieson (emathieson@exponent.com) or AEG SF Publications Chair, Bill Godwin (publications_chair@aegsf.org).

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 postdoctoral 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>.

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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
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!

Register for the 2003 annual meeting no later than August 16 and receive your DISCOUNT RATE for registration fees, field trips, and short courses.

For more information on the annual meeting, visit www.aegweb.org.

24th BIENNIAL GROUNDWATER CONFERENCE AND 12th ANNUAL GRA MEETING

For 48 years the Biennial Groundwater Conference has provided policy-makers, practitioners, researchers, and educators the opportunity to learn about the current policies, regulations, and technical challenges affecting the use and management of groundwater in California.

The theme of this year's conference is "The Role of Groundwater in Integrated Water Management". Presentations will explore the role of groundwater in formulating water policies, planning and managing water resources, and optimizing beneficial uses.

Dr. Chip Groat, Director of the USGS, will be the Keynote Speaker. His presentation will focus on recent publications and programs of the USGS that have emphasized the integrated nature of water resources, challenges of groundwater sustainability, the importance of long-term groundwater monitoring for water resources management, the importance of assessing water availability and use, and national goals for collecting and disseminating the necessary information for integrated water resources planning and management.

The meeting will be held on October 28 and 29, 2003 at the Double Tree Hotel in Ontario, California. More information is available on the University of California Water Resources Center website (www.waterresources.ucr.edu) and the Groundwater Resources Association website (www.grac.org/conference.html), or by calling Pamela Dick at 909-787-4327.

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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 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!

Soil Tectonics

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SHORT COURSES

AEG ANNUAL MEETING: Short Courses

There are four diverse short courses lined up for Vail. Sign up early, as they expect to fill quickly!

Short Course No. 1: Practical Application of Unsaturated Zone Hydrology, Monday, September 15, 2003

The one day short course will provide participants with an overview of the theoretical background of unsaturated (vadose) zone hydrology and numerous examples of the practical application of those principles by means of a variety of case histories. Participants will be provided with an extensive course notebook comprising key articles and resources regarding unsaturated flow that will provide more detailed information beyond that which can be covered in the initial one day course. Short Course Instructors are James R. Kunkel and Peter D. Duryea, Knight Piésold and Co., Denver, Colorado. The price is \$200; \$225 after August 16, 2003.

Short Course No. 2: Applied Rock Slope Engineering, Tuesday, September 16, 2003

This one-day short course will focus on basic rock slope engineering presented from the standpoint of practitioners responsible for the design and construction aspects of excavations in rock. Basic engineering theory will be covered during the course although the focus will be on the practical applied aspects of rock slope design and remediation. The course is geared for Engineering Geologists and Geotechnical Engineers that are (or plan to be) involved with excavation design in rock. Attendees should be familiar with basic engineering geological data interpretation using stereonet projection and understand basic physics principals. The course will be "hands-on" and we will provide practical stereonet

and limit equilibrium design problems to be worked out during the course. We will also provide participants with published papers and references for further study and excel spreadsheets that may be used for limit equilibrium design and analysis of rock slopes. Short Course Instructors are William (Bill) Gates and Brendan Fisher, Kleinfelder, Incorporated. The price is \$200; \$225 after August 16, 2003.

Short Course No. 3: Geophysics for Engineering Geologists: A Practical Guide to Applications, Limitations, and Benefits, Tuesday, September 16, 2003

This half-day short course, adapted from an on-going course for the Federal Highway Administration (FHWA), is intended to educate end users of geophysics about the variety of methods, where geophysics is being used, and its limitations. In a methodical format the course focuses on the use of geophysics as it applies to geological, engineering, groundwater, and environmental applications, rather than the theory of the techniques. Five main methods will be presented, detailing the following techniques: Seismic, electrical resistivity, electromagnetic, ground penetrating radar, and non-destructive testing. Short Course Instructor is Phil Sirles, Blackhawk GeoServices, Golden, Colorado. The price is \$100; \$125 after August 16, 2003.



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Short Course No. 4: Application of Block Theory to Slope Stability Problems in Blocky Ground, Saturday, September 20, 2003

This course will focus on applying the principles of block theory to solve practical ground support problems in mining, tunneling, dam foundations and slope stability. Key-block analysis provides a powerful limit equilibrium tool for assessing the stability of excavations in jointed rock masses. The overall objective of the analyses is to check stability of blocks before and after a selected support system design has been applied. Presentations will focus on how block theory works and provide hands-on examples illustrating the power and flexibility of the programs. Example applications and special analyses (water pressures, earthquakes, optimizing support, etc.) will be discussed. It will include introductory training in using the PTWorkshop with the Key-block application module to solve practical ground support problems in mining, tunneling and slope stability. This course will focus on applying the principles of Block Theory to a variety of slope stabilization projects. Example

applications and special analyses will be discussed. Short Course Instructors are John Tinucci, PanTechnica Corporation, Chaska, Minnesota, and Matthew Mauldon, Virginia Technical University, Blacksburg, Virginia. The price is \$200; \$225 after August 16, 2003.

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, has threatened to plan 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 an 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, 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.
- Sierra Nevada Foothills Fault System and Geology - September 2003: George Wheeldon, sponsored by AEG Sacramento Section, details to follow later.
- Point Reyes Area – September 27, 2003: Tom MacKinnon, Consultant, and John “Rusty” Gilbert,

Chevron-Texaco (exact itinerary TBA), sponsored by Northern California Geological Society.

- Southern Sierra Nevada – October 3-5, 2003: Greg Stock (UCSC), Bill Bull (University of Arizona), Gary Wiessman (Michigan State University), Nate Stephenson (National Park Service), and Anthony Caprio (National Park Service). Itinerary: Visit the southern Sierra Nevada in and around Sequoia and Kings Canyon National Parks to discuss river incision, landscape evolution, and climate change in the Southern Sierra Nevada. Sponsored by Pacific Cell Friends of the Pleistocene (FOP). One-day lichenometry short courses by Bill Bull will bracket the FOP weekend. For more information, visit <http://es.ucsc.edu/~gstock/fop2003/>.
- Mt. Burdell - November 2003: Rick Ford, SFSU Graduate Student (exact itinerary TBA), sponsored by Northern California Geological Society.
- Northern California Gold Belt, Quincy – Date TBA (likely Summer 2004): Gregg Wilkerson, BLM, 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. 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

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**AEG San Francisco Section – August Newsletter
Monthly Section Meeting – August 12th
Sinbad’s Restaurant, San Francisco**

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

RESERVATION FORM

AEG SF Dinner Meeting – August 12, 2003 – 6pm
Sinbad’s Pier 2 Restaurant, San Francisco

Reservation Deadline: 12:00 PM, THURSDAY AUGUST 7th

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

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 _____