



SAN FRANCISCO SECTION NEWSLETTER



Meeting Details:

- **Tuesday, April 13th**
- Spenger's, Berkeley
- 6:00pm – Cocktail Hour
- 7:00pm – Dinner
- 8:00pm – Speaker
- \$30 members, \$15 students, \$35 non-members

Reservations Due By NOON, FRIDAY APRIL 9th!

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APRIL 2004 PROGRAM

Donald Wells, Geomatrix Consultants

David Doolin, Dept. of Civil and Environmental Engineering, UC Berkeley

FAULT RUPTURE HAZARD AT MEMORIAL STADIUM, UNIVERSITY OF CALIFORNIA, BERKELEY

The California Memorial Stadium at the University of California, Berkeley sits astride the Hayward fault zone. In preparation for planned improvements and seismic strengthening of the Stadium, we completed detailed investigations to constrain the location of active fault traces at the Stadium. The work included fault trenching on the north side of the Stadium, surveying of creep-related deformation to drainage culverts beneath the Stadium and curbs near the Stadium, drilling soil borings, and detailed mapping of cracking in the Stadium walls, columns, and floors. We also completed a detailed evaluation of historical data, including pre-construction topography, construction/site grading and fill plans, and soil borings completed for previous investigations at the Stadium. Logging of two trenches located along the hillslope north of the stadium revealed the presence of several weakly expressed fault traces in young colluvial deposits along the lower part of slope. Because the faults observed in the trenches appear to extend into the youngest colluvial deposits, the faults are judged to be active. However, the massive native materials exposed in the trench are poorly suited for retaining a decipherable record of fault displacement, making it difficult to assess with confidence the actual width of the zone of active faulting. Based on the observed alignment of creep-related deformation in the northern part of the stadium with the locations of creep-related deformation in the drainage culverts and curbs along Stadium Rim Way and with the weakly expressed faults exposed in the trenches, we conclude that these features mark the location of the main zone of active faulting north of the stadium. Review of pre-construction topography, however, shows that geomorphic features indicative of young faulting occur over a wider zone than identified from the creep-related deformation, thus, that actual fault rupture hazard zone may be much wider than the zone of creep-related deformation. We developed preliminary estimates of the expected displacements for zones of primary and secondary fault displacement based on a scenario earthquake rupture of the Hayward fault for use in planning and retrofit design of the stadium.

Speaker Biography

Speaker biographies begin on Page 3.

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- ***April Meeting Details***
- ***February and March Meeting Notes***
- ***Member Updates and Other News***
- ***Short Course and Field Trip Announcements***
- ***Employment Notices***

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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, Janine Weber Band (secretary@aegsf.org).

Advertisements:

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Use these low rates to expand your market:

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

CHAIR'S MESSAGE

Student night was a great success last month. There was quite an increase in attendance compared to last year and the presentations were top-notch. Thank you to San Jose State University Geology Department for sponsoring student night. We also had great weather in San Francisco and a great view of the bay from Sinbad's.

Our highly anticipated range front thrust faults field trip sold out in less than 24 hours – Drew and I were amazed at how fast the trip filled up. I'm sorry we can't accommodate more people. We will be printing some extra guidebooks (spiral bound with some color illustrations); please contact Drew or me if you might be interested in purchasing one (they will probably be priced at \$20 or \$25 each).

There has been a change of schedule for the May AEG-SF/CCGO meeting. The meeting will be on THURSDAY, May 13th at Spaghetti Factory in Oakland. Tanya Atwater will be speaking to us about the tectonic origin of the western United States.

Our third annual AEG-SF Giant's game social will be Saturday, May 29th. We will have a tailgate party in the parking lot from 4:30 to 6:30 PM and the game starts at 7:00 PM. We purchased a block of great seats behind home plate and there will be fireworks after the game. More details are provided later in the newsletter.

We are officially in the processes of organizing a San Francisco Section scholarship. We have a sample application and list of qualifications to review. We will be setting up a separate bank account to be used exclusively for scholarship and figuring out how to guarantee that donations to the scholarship fund are tax-deductible. Unfortunately, our Student Liaison, Robert Urban, is leaving us for Santa Barbara.

The Section is still in need of a power point projector and a small PA system. Would anyone like to donate either of these items? Donations to AEG are tax-deductible. Finally, we have had great response to advertising the Engineering Geology Practice in Northern California volume with other Sections. If you wish to purchase one of these volumes, it's probably a good idea to make your purchase soon – we are down to the final third of our inventory!

There are still 42 members who have not paid their dues – please renew, we don't want to lose any Section members!

Thank you all for your continued interest in AEG,

Corinne
Chair, AEG San Francisco Section

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 at chair@aegsf.org for more information on sponsorship.

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

Applied Geomechanics – Santa Cruz

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Speaker Biography

Donald Wells is a Senior Geologist with Geomatrix Consultants of Oakland. He has more than 17 years of experience in engineering geologic, geologic hazards, and probabilistic seismic hazards assessment. He has completed regional and site-specific studies to assess landsliding, surface-fault rupture, liquefaction, differential compaction, flooding, and ground shaking hazards, both locally and worldwide. He has performed extensive research on historical earthquake ruptures, has chased numerous earthquakes, and is currently completing NEHRP-sponsored investigations of earthquake scaling and source parameters. Donald has published numerous peer-reviewed papers on empirical relationships among earthquake source parameters, blind thrust faults, geologic hazards assessment, and probabilistic seismic and ground motion hazard evaluation. He is a member of the Association of Engineering Geologists, American Geophysical Union, Earthquake Engineering Research Institute, and the Seismological Society of America, with the appropriate large stacks of journals that he wishes he had time to read. He finds the time spent with his family, Elizabeth, Hannah (age 5) and Seth (age 3), much more rewarding.

David Doolin is a post-doctoral researcher at UC Berkeley working on wireless sensor network applications. He completed his PhD in geotechnical engineering at UC Berkeley in 2002, working with Dr. Nick Sitar. His doctoral research focused discontinuous deformation analysis, including numerical modeling applications for landsliding and slope stability analyses. Dave also has applied his analytical skills in industry, having worked as a software engineer for Sun Microsystems, Inc., and Infrasearch, Inc., with several patents pending for data search applications. Dave has published numerous peer-reviewed papers on discontinuous deformation analysis, kinematics of landsliding, and fracture and rock mechanics. He is a member of the American Society of Civil Engineers, the Network for Earthquake Engineering Simulation Consortium, the Society for Industrial and Applied Mathematics, and the American Rock Mechanics Association.

Thank You!

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APRIL SECTION MEETING DETAILS

The April Section Meeting will be held at Spenger's Fresh Fish Grotto at 1919 Fourth Street in Berkeley, California (phone: 510-845-7771).

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 6th Street. Turn left at Hearst (1 block). Turn left at 4th 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 4th Street.

Reservations must be faxed to Corinne Stewart by noon on Friday April 9th.

See the back cover of the newsletter for the RSVP form.

NO SHOWS AND LATE CANCELLATIONS WILL BE CHARGED!

**Thanks to San Jose State University
Geology Department for sponsoring the
AEG SF March Section meeting!**

MARCH MEETING NOTES

Three stellar talks were given by the best of the newest batch of students. The talks were well-delivered and relevant.

Talk No. 1 – Brian Collins, introduced by Nick Sitar of UC Berkeley, spoke about *Field Behavior and Failure Mechanics of Variably Cemented Coastal Bluff Deposits, Part of USGS investigation of Pacifica disasters, 97/98 El Nino to now.*

Study area was just south of Mussel rock – about 2 km long area along beach bluffs. The predominant failure method in weakly-cemented bluffs is wave action mechanism and shear failure. In moderately-cemented bluffs, the mechanism is seepage and failure.

Colorful profile maps showed how seepage failure was concentrated in southern part; wave action in northern and central part. Collins applied the Culmann method to analyze slope stability of bluffs. Compared Culmann Method to field measurements and modified analysis for better failure prediction. Collins gave an example of a failure in January 2003 that would have been predicted using the modified analysis. Failure in Tension from seepage is apparently not from shear. Collins is still working on that part of the analysis.

Talk No. 2 – Jordan Miller, introduced by his advisor: Atilla Aydin of Stanford, spoke about *Using Geomechanical Modeling to Constrain the Geometry of the Northern Anatolian Fault within the Marmara Sea, Turkey.*

Jordan Miller gave a great talk about the Northern Anatolian Fault (NAF), which is very similar in size, scale and style to the San Andreas Fault. Since 1939 there has been a progressive western migration of large ruptures along the NAF. The apparent next fault should be located within the Marmara Sea, close to Istanbul, so it would be interesting to understand what the potentially

active fault traces look like (size, orientation, etc). Seabed topography showed four basins within the Marmara Sea, all of which appeared to be fault-bounded. Miller's work evaluated several different interpretations of fault geometry that have been proposed by different groups. He did this by applying a computer model using the different fault geometries, letting the model run, and comparing it to real GPS-measured displacement. The best-fit interpretation was that of a segmented fault with local pull-apart basins. In addition to providing an independent test of the proposed models, the modeling process itself looks like it can contribute to improving the interpretation of 3-D fault geometry.

Talk No. 3 – Ann Rosinski, introduced by John Williams from San Jose State University, spoke about *Geologic and Geotechnical Characterization for Regional Liquefaction-Induced Deformation Mapping*.

This rapidly delivered talk covered a lot of ground: Rosinski was part of a multi-agency research project involving CGS, CalTrans and numerous other entities. The objective was to take site-specific methods of estimating liquefaction-induced deformation and judiciously apply the methods to the Northern Santa Clara Valley region to attempt to predict where deformation will occur. Rosinski reviewed thousands of boring logs in an effort to identify the thickness and depth of Holocene and Pleistocene deposits and other potentially useful parameters. In near future, her project will produce hazard maps that show where the worst/moderate/not-so-bad deformation will occur. The maps can also differentiate vertical and horizontal displacements. Areas of highest deformation are expected to be concentrated in younger sediments around streams and creeks.

Janine Weber Band
Secretary, AEG San Francisco Section

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

San Jose State University

San Jose, California

FEBRUARY MEETING NOTES

Chris started off his talk about *Landslides in Big Sur* with a preview of the new 30' x 60' geologic map of Monterey now available from the CGS for \$20 in paper or on CD with GIS files. This map was a joint effort of CGS, USGS, and MBARI; it shows both on-land and underwater geology.

Chris' talk described how Caltrans has worked with the CGS to map existing and potential landslides of interest. He gave numerous examples. The Highway 50 slide that CGS mapped was the one that prompted Caltrans to contract with the CGS to evaluate existing and potential landslides on Highway 50, along Highway 1, and I-5 over the Grapevine.

The Last Chance Grade near Crescent City is an active landslide that Caltrans has to re-pave every year. Chris' group mapped the area for landslides and geology. They noted that landslides occurred where Franciscan mélange (or broken formation) was mapped. Both deep-seated landslides and shallow debris-flow types occurred in Franciscan mélange units and most of Highway 1 was built through this unfortunate material.

The CGS mapped shallow and deep landslides as well as geology along the Highway 60 corridor in Riverside County. On this geologic map, the group mapped only the landslide deposits, not the scars. No surprise - they found that landslide occurrence correlated to rainfall, especially with El Nino high rainfall years when "everything falls apart".

South of Monterey, along Highway 1, the CGS generated a 1:24,000 strip map of the Highway. This work has generated a new (and compiled) geologic map designed for use by Caltrans and general public. All maplets (pieces of the strip map) are available for download from the internet. One of the interesting parts of the work is a table comparing formations or units with susceptibility to landslides. Because of the location, there is a lot of granitic rock as well as Franciscan, and even some marble. The maps emphasize Quaternary features. Chris discussed that they found this area lacked the typical wave cut platforms or terraces, but instead had old platforms covered with alluvium/colluvium, probably accumulated by debris-flow activity that piled up the wedge of colluvium along the steeper slopes.

Chris described their challenge in devising a workable system for classifying landslides so that different users can describe the same slide with consistent terminology. Landslides were classified by their dominant mode and by their relative age; debris slides were the most common type. Again no surprise, huge active landslides occurred where serpentine was mapped.

Chris's slideshow went on to show several more examples of landslides along highways (some even generated by Caltrans work). The causes of the failures include: Weak rocks (including igneous rocks with >15% biotite), wave erosion at base, stream erosion on side slopes, and undercutting the slope for roads.

Chris mentioned a new resource available for those working with coastal projects: the Coastal Records Project website. It has beautiful photos of the coast and is often updated, so you can view changes along the coast.

Janine Weber Band
Secretary, AEG San Francisco Section

MEMBER UPDATES AND OTHER NEWS

AEG San Francisco Spring Social Event: San Francisco Giant's Baseball and Tailgate Party

Come and join AEG San Francisco Section for a tailgate party and then watch the San Francisco Giants play the Colorado Rockies! AEG will provide barbecues and drinks (BYOB) for the party; bring your own meat to barbecue (and something to share if you like!). The seats are located behind home plate and will offer great views of Oakland and the Bay (and the game!). There will be fireworks after the game. This is the third year for this AEG-SF event and the past 2 years have been lots of fun. You are encouraged to bring non-geologists (family, kids, friends)!

Date: Saturday, May 29, 2004

Tailgate time: 4:30 to 6:30 PM

Game time: 7:00 PM

Ticket quantities are limited, so purchase early! Ticket price is \$25 per ticket purchased by March 26, 2004 (after this date, ticket price will increase to \$27 per ticket). To purchase tickets, mail a check, payable to AEG-SF, to Corinne Stewart - AEG, c/o Pacific Geotechnical Engineering, 16055-D Caputo Drive, Morgan Hill, CA 95037.

If you have any questions, please contact Corinne: chair@aegsf.org or 408-778-2818.

HOPE TO SEE YOU AT THE GAME!

Proposed AEG Policy Statements for Seismic Safety, Weak Rock Classification, and Site Characterization

Over the years our Association has developed Policy Statements for various elements of our profession. The primary purpose of a policy statement is to establish an Association position and/or practical guideline for the specific topic. Policy statements are proposed by committees or ad hoc committees established for a specific topic.

At the 2003 Board of Directors meeting in Vail, Colorado, proposed policy statements on Seismic Safety, Site Characterization, and Classification of Weak Rock were presented for consideration. The consensus of the Board was that the policies could not be adopted because opinions varied considerably. It was decided that wider discussion should occur on the proposed policy statements and the statements should be presented in the AEG News for member input.

To access the policy statements: (1) Log onto the AEG web site (www.aegweb.org), (2) Access the Member Services section by logging in with your member number and password (found on membership cards), (3) Click on the *View Member Documents* link. The statements are posted individually for your review.

Please consider the following during your review:

- Whether you are in favor of having the Association develop a policy on the specific topic.

- Does the statement reflect AEG principals and beliefs?
- Would the policy statement be useful to its specific community?

If all previous were answered yes, provide comments to improve the statements. To do this, go to the AEG Message Board and select *Proposed Policy Statements* forum. Please post your comments on the Bulletin Board for consideration by others. The Bulletin Board will close on April 15, 2004. Comments will be reviewed and the proposed policy statements will be presented at the 2004 Mid-year Board meeting.

Please pay you 2004 dues!

The following 42 AEG San Francisco Section members have not yet renewed their membership for this year. We don't want to lose anyone! Please, if you know someone on this list (or you are on this list), encourage him/her to renew his or her membership. Membership can be renewed online at AEGweb.org. Please e-mail Becky Roland at broland@aegweb.org if you need assistance.

Chanie Abuye, Joel Greger, Clifton Davenport, Dawn McGuire, Eric Eddlemon, Michael Malone, Graham Irvine, James Babcock, Jose Cercone, James Faris, Jeff Richmond, Jason Patton, Bijan Khazai, Isabell Lamb, Lawrence Pavlak, Thomas Lee, Linda Spencer, Mikko Valkonen, Anthony Choi, Jason Woodward, Hesham Alalusi, Peter Yen, Gus Raggambi, Robert Nelson, Gary Kupp, Sadek Derrega, James Sickles, Susannah Belding, Timothy Whalen, Robert Russell, Stephen Johnson, David Rogers, Darwin Myers, Thomas Kolbe, Roland Johnson, Michael Carey, Miles Grant, Dale Dell'Osso, Sally McCraven, Mark Caruso, Phyllis Flack, Eric Garcia

Wanted: Projector and Wireless Microphone

AEG-SF is in considerable need of a projector and a wireless microphone. If you or anyone you know might want to donate some equipment that is obsolete to them but still useful for AEG, please contact Corinne Stewart at chair@aegsf.org.

Note: Equipment donated to AEG-SF is tax-deductible!

UPCOMING AEG-SF MEETINGS

Date:	May 13, Thursday
Speaker:	Tanya Atwater, UCSB
Topic:	Tectonic Origin of the Western US
Place:	Old Spaghetti Factory

OTHER MEETING ANNOUNCEMENTS

AEG Annual Meeting

Plan to attend the 2004 AEG Annual Meeting "at the Core of the Shores!" in Dearborn, Michigan, September 25th through October 3rd! For more information on the annual meeting, visit www.aegweb.org.

SHORT COURSES

Seismic Hazards Analysis Workshop

The Sacramento Sections of AEG and ASCE will be jointly hosting Part 2 of a Seismic Hazards Analysis Workshop initiated last Spring. The workshop will be held on April 23, 2004 UC Davis Alumni Center next to the Mondavi Center. This will be an applied probabilistic seismic hazard analysis (PSHA) workshop applying the concepts developed in Part 1 and involving development of desired ground motion parameters. Attendance of Part 1 is not considered a pre-requisite to the Part 2 workshop.

The panel of instructors will include Dr. Norm Abrahamson, Dr. Robert Sewell, and several other seismologists, geotechnical engineers, and geologists from government agencies such as California Geological Survey (CGS) and US Geological Survey (USGS). We will be providing free evaluation and public domain versions of current software and will have representatives available for questions, including EZ-FRISK® and FRISKSP®. Breakout sessions provide hands-on experience using example problems to demonstrate available software in estimating ground motion parameters using provided notebook computers.

All attendees will receive a binder containing workshop notes, free versions for computer programs, and valuable reference materials. Because of the breakout session format, we will need to limit the workshop to 80 people on a first-come first-serve basis – So sign up early!

Cost, applications, and agenda details will be coming soon and will be provided through AEG and ASCE websites at <http://www.aegsacto.org/>.

For Short Course information and submittals, please contact:

Ernest Solomon
Short Course Chair, AEG San Francisco Section

FIELD TRIPS

Friends of the Pleistocene 2004 Field Trip: Santa Barbara Fold Belt, Santa Barbara, California

You are invited to attend the Friends of the Pleistocene field trip for 2004 in the Santa Barbara area, April 15-18, 2004. The field trip will officially start the morning of Friday, April 16th at 8:00 am. There is an optional field trip on April 15th focussing on the emergent coastline between the mouths of the Devereaux and Goleta sloughs; contact Robert West at westrb@elac.edu or 323-260-8115 for more information.

The trip will begin with a number of presentations at Shoreline Park examining the marine terrace history of the fold belt. We will also take a short walk to look at some of the uplifted marine terraces we believe may have been produced by late Quaternary earthquakes. From there we will drive to East Beach where we will begin a hike along the coast to examine three active anticlines: the zoo-cemetery; Ortega Hill; and Loon Point. At Loon Point we will also be able to observe a fault-propagation fold that deforms a 105 ka terrace. We will then go to Lake Cachuma Campground for Friday night. There will be evening video presentations at the campground by Tanya Atwater on the plate tectonic history of southern California.

On Saturday, April 17th we will meet at a coastal site to discuss rates of stream incision in the Santa Ynez Mountain Range. Tim Tierney will also talk about the evolution and segmentation of the Santa Ynez Range. Then it's off to the Santa Barbara Historic Mission where we will observe the tectonic geomorphology of the active Mission Ridge anticline including several paleo channels of Mission Creek and to discuss the westward propagation of the fold. We will then walk to Rocky Nook Park to view a giant debris flow with a volume of about 10 million cubic meters. Presentations will be made by Amy Selting and Robert Urban on the debris flow features and hazards. Following lunch, we will drive to Skofield Park where we will look at the landslide and headscarp that we believe is the origin of the debris flow. Lee Harrison will talk about pool formation in Rattlesnake Creek at Skofield Park. We will then hike Rattlesnake Canyon to an overview site.

On Sunday, April 18th we will venture to the University of California reserve system site known as Sedgwick Ranch. There we will examine hill slope and other processes with Tom Dunne, Manny Gabet, Oliver Chadwick and Tony Garcia. The field trip will adjourn late in the afternoon.

The web site address for field trip information and downloading the registration form for the meeting is: <http://www.geol.ucsb.edu/projects/fop2004>. We will post the guidebook in *.pdf format on our website and it will be available for download mid-March.

For Field Trip information and submittals, please contact:
Drew Kennedy
Field Trip Chair, AEG San Francisco Section



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Positions open in Emeryville and Mountain View offices. Please send your resume to Human Resources at jobs@weiss.com.

EMPLOYMENT NOTICES

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Maile Smith
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**AEG San Francisco Section – April Newsletter
Monthly Section Meeting – Tuesday, April 13th
Spenger’s, Berkeley**

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

RESERVATION FORM

AEG SF Dinner Meeting – April 13, 2004 – 6:00 pm
Spenger’s, Berkeley

Reservation Deadline: 12:00 PM, FRIDAY APRIL 9th

Fax Reservation Form to Corinne Stewart, c/o Pacific Geotechnical (408-779-6879)
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 \$35 – others

No shows and late cancellations will be charged!

NAME _____ COMPANY _____

TELEPHONE NO. _____ NO. OF PEOPLE _____

PLEASE CHOOSE AN ENTREE’: Fish Chicken Pasta

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 _____

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