

# AEG Inland Empire Chapter Newsletter

of the Southern California Section

October 2013 Vol.9 No. 10

[www.aegsc.org/chapters/inlandempire](http://www.aegsc.org/chapters/inlandempire)

## October 2013 Meeting Announcement

### *"State Mining and Geology Board - Then and Now"*

**Stephen Testa**

Executive Officer, California State Mining & Geology Board

Wednesday, October 16, 2013,

RSVP to [aeginland@gmail.com](mailto:aeginland@gmail.com) by Monday October 14, 2013

The Old Spaghetti Factory, Rancho Cucamonga

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## Chair's Message

Greetings to all! Hopefully all of you enjoyed the summer school break, took in a nice vacation with the family and are now getting back into the "swing of things" with the new school year and of course your normal workday. Our Chapter's summer break is also essentially over and I'm very excited to start up a new year. The break is always refreshing but it will also be good to catch up with our local professionals and students and continue to build on the momentum we created last year. If you are not aware, we have a new board of officers slated to take over in October. After a grueling and competitive election process I'm pleased to announce your 2013/2014 board of officers as follows: Chairman, Dave Gaddie; Vice Chairman: Jeff Fitzsimmons; Treasurer, Mark Doerschlag; and Secretary, Shaun Wilkins. This new board should serve all of you well as we have a good mix of experienced veterans and energetic newcomers. Sadly, we did not have anyone step into the annual field trip coordinator role so we will continue to ask for volunteers to help out in any capacity.

Our last official Chapter event was held back in July where we hosted Dr. Keith Meldahl, at the Temecula public library. It was a relatively small turnout for our chapter but for those we made the trip, but Dr. Meldahl was either our best or 2<sup>nd</sup> best speaker for all of last year so I'm sorry to say most of you missed out on a great

presentation big time! You just never know when you're going to miss that next great talk so it's probably better if you just make it to all of our meetings! Dr. Meldahl gave a very informative, highly upbeat and entertaining presentation on the latest models and theories surrounding the evolution of the western margin of the US, stretching from our local southern California shores all the way to the Rocky mountain ranges in Colorado.

In other AEG news, last month Kerry Cato and I represented our Inland Empire Chapter at AEG's annual conference in Seattle. This was my first trip to the conference and after taking part in the highly informative program, I would strongly encourage all of you to further your ongoing education and support our geologic profession by attending next year. Next year's conference will be in Scottsdale, Arizona so all of you IE geologists you won't even have to buy a plane ticket for that event!

Our upcoming Chapter meeting will be held at one of our favorite spots, the Old Spaghetti Factory in Rancho Cucamonga, where we will host Stephen Testa, Executive Officer for the State Mining and Geology Board in Sacramento. Mr. Testa has given quite a few talks to our Chapter over the years and is a really outstanding presenter. This talk will focus on the SMGB, its past and current impacts on our profession here in California and its potential future. We have not seen most of you dedicated Inland Empire professionals since last June or July

so I'm positive that we will see a very strong turnout for our quickly approaching October 16th meeting!

Best regards,

Douglass Johnston,  
Outgoing Chair  
AEG Inland Empire Chapter

MARCH MEETING LOCATION IS  
IN *RANCHO CUCAMONGA*



See map on page 4

## Congratulations To the NEW

### AEG Inland Chapter Officers For 2013-2014

**Chair**  
**David Gaddie**

**Vice Chair**  
**Jeff Fitzsimons**

**Treasurer**  
**Mark Doerschlag**

**Secretary**  
**Shaun Wilkins**

**(contact info on Page 4)**

# "State Mining and Geology Board - Then and Now"

## ABSTRACT

In 2010, the State Mining and Geology Board celebrated its 125<sup>th</sup> anniversary. The SMGB is the oldest geologic board in the country and has evolved over time, with its history divided into three major eras emphasizing the nature of its work: Board of Trustees during the Administrative Era (1885-1913), State Mining Board during the Mineral Resources Development Era (1929-1965), and SMGB during the Mineral Conservation, Reclamation and Geologic Hazards Era (1965-Present). The board was established in 1885 as the Board of Trustees. Its original purpose was to oversee the activities of the State Mineralogist and the Bureau of Mines, now the CGS, which was created by the Legislature five years earlier. The Board of Trustees was abolished in 1913, and reestablished as the State Mining Board in 1929. During these early years, the State Mining Board provided general policy and guidance to the Governor and the Division of Mines (now CGS), and served an advisory role for the Department of Natural Resources (now Department of Conservation) which was established in 1927. The State Mining Board was renamed the State Mining and Geology Board in 1965. Its focus was primarily on development of the State's mineral resources. In the 1960s, the emphasis on mineral resource development would shift to geologic hazards and addressing the environmental impacts of mining. By 1975, the board was granted additional powers and duties, and became involved with the implementation of policy pertaining to geologic hazards and surface mining and reclamation. These

responsibilities recognized the impacts that California's complex geology, large amounts of federally managed lands, high mineralization, and potential for geologic hazards, had on the State's economy, land use, and public safety. Today's board functions as a policy, regulatory and appeals board. In concert with the Department of Conservation (DOC) (which includes the California Geological Survey and the Office of Mine Reclamation), the board continues to be fully engaged in implementing the legislative mandates of the Alquist-Priolo Earthquake Fault Zoning Act (A-P EFZ Act), the Seismic Hazards Mapping Act (SHMA), and the Surface Mining and Reclamation Act of 1975 (SMARA).

## Speaker Biography



For over 25 years, Testa has worked as a consultant for a variety of firms. From 1976 until August 2005, he served as an engineering and environmental consultant for such firms as Bechtel, Dames and Moore, Converse Consultants and Engineering Enterprises, and in

1992, as Chief Executive Officer of the international consulting firm Applied Environmental Services, he took his firm public. Stephen M. Testa entered public service in August 2005 when he was appointed Executive Officer of the California State Mining and Geology Board.

Testa is the author of numerous books and over 125 publications, including *Geological Aspects of Hazardous Waste Management, The Reuse and Recycling of Contaminated Soils, and*

*Restoration of Contaminated Aquifers: Petroleum Hydrocarbons and Organic Compounds, Petroleum in the Environment, and most recently One Man's Planet – Earth in Today's Political Culture.* He has served as an instructor at USC and CSU Fullerton, and has provided numerous workshops and technical presentations.

Testa is the Past-President of the American Geological Institute (AGI) and the American Institute of Professional Geologists (AIPG), past Editor-in-Chief of American Association of Petroleum Geologists – Division of Environmental Geosciences' (AAPG-DEG's) peer review journal "*Environmental Geosciences*", and the recipient of the AIPG's Martin Van Couvering Award and Honorary Membership, AAPG-DEG's Research Award, and the Roy Shlemon Geology Mentor Honorarium for excellence in application of applied earth science. He currently writes editorials for various national venues including AGI's flagship *EARTH Magazine*. In his spare time, Steve is also working on a book "Gas Leaks and Oil Spills" with for McGraw Hill Publishers.

**AEG-IE  
Chapter Officers**

**Chair**  
**David Gaddie**  
Consulting Geologist  
[dgcgaddie@yahoo.com](mailto:dgcgaddie@yahoo.com)

**Vice Chair**  
**Jeff Fitzsimmons**  
John R. Byerly, Inc.  
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**Treasurer**  
**Mark Doerschlag**  
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[geofantasy@aol.com](mailto:geofantasy@aol.com)

**Secretary**  
**Shaun Wilkins**  
Petra Geotechnical, Inc.  
[swilkins@petra-inc.com](mailto:swilkins@petra-inc.com)  
(657) 269-4980

**Past Chairs:**  
Douglas Johnston, 2013;  
Debbie Kunath, 2012;  
Frank Jordan, 2005, 2011;  
Douglass Johnston, 2010;  
Kerry Cato, 2009;  
Mike Cook, 2008;  
Rick Gundry, 2007;  
Gary Wallace, 2006

**Newsletter Editor**  
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The AEG Inland Empire Chapter  
*Newsletter* is a monthly  
publication of the Inland Empire  
Chapter of the Southern  
California Section, Association  
of Environmental and  
Engineering Geologists. For  
more information visit the  
Chapter website:  
<http://www.aegsc.org/chapters/inlandempire>

Submittals: Deadline, 28<sup>th</sup> of the month. Employment notices, job position announcements, and advertisements can be posted for a minimal fee. *Newsletter* circulation about 170 in greater inland areas of Southern California, and elsewhere.

E-Mail Address changes:  
[aeiginland@gmail.com](mailto:aeiginland@gmail.com)

## AEG-IE October Meeting Details

**Date & Time**

October 16 (Wednesday)

Social time 5:30 to 6:30  
Dinner 6:30 to 7:30  
Announcements 7:30 to 7:45  
Talk and Q&A 7:45 to 8:45

**Location**

The Old Spaghetti Factory, 11896 Foothill Blvd., Rancho Cucamonga, CA  
(SEE MAP BELOW)

**Meal**

Choice of 1 entree:  
•Spaghetti with Meat Sauce  
•Spinach Ravioli  
•Fettuccine Alfredo

Includes: garden salad, fresh baked bread,  
and dessert of ice cream

Drinks: Attendees will have a choice of iced or hot tea,  
coffee, soda, or milk. Wine, beer, and cocktails are  
available for attendees to purchase on their own.

**Cost**

\$30 for those with RSVP's,  
\$40 for those without RSVP's,  
\$15 for students (with valid student ID)

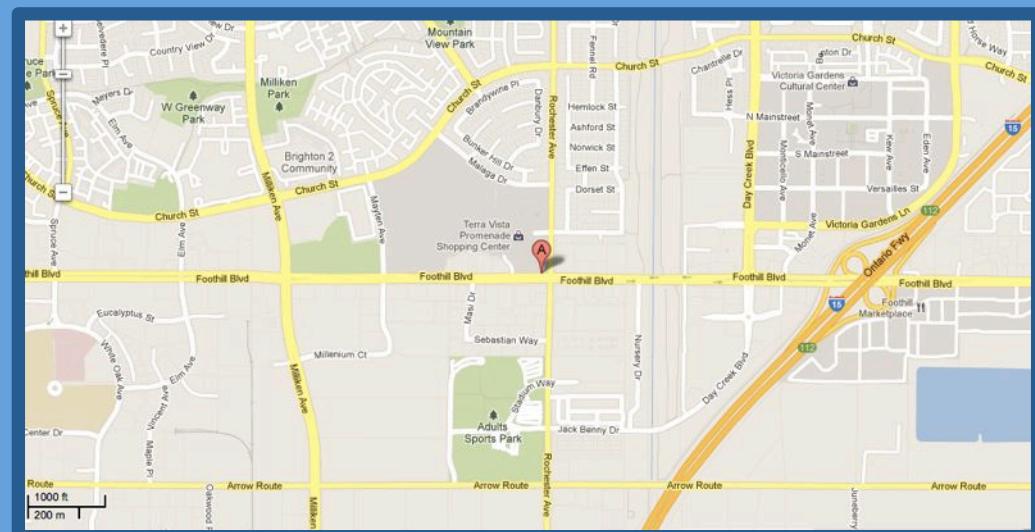
**RSVP:**

**RSVP by COB Monday October 14, 2013;** email: [aeiginland@gmail.com](mailto:aeiginland@gmail.com)  
On RSVP, specify if you are coming for MEAL +TALK or TALK ONLY

### DIRECTIONS TO THE OCTOBER MEETING LOCATION

**From the I-15 north:** Take the Foothill Boulevard off-ramp. Proceed west (left) on Foothill about  $\frac{1}{4}$  mile to Rochester Avenue. The Old Spaghetti Factory is on the northwest corner of Rochester and Foothill (easily seen from Foothill Boulevard).

**From the I-15 south:** Take the Foothill Boulevard off-ramp. Proceed west (right) on Foothill about  $\frac{1}{2}$  of a mile to Rochester Avenue. The Old Spaghetti Factory is on the northwest corner of Rochester and Foothill (easily seen from Foothill Boulevard).



## OTHER MEETINGS

### AEG-Southern California Section:

October 8, 2013 (Tuesday). Topic: *“Construction of the Caldecott Tunnel Fourth using the Sequential Excavation Method (SEM) of tunneling.”* Speaker: Sean Harvey, Brierley & Associates. Location: Victorios Restaurant, North Hollywood, CA.  
For more information visit: <http://www.aegsc.org/>.

### ASCE (Geo Institute Inland Empire Chapter): October 23, 2013, Wednesday.

Topic: *“Seismic Response for the Headwork’s Reservoir.”* Speaker: Dr. Martin Hudson, AMEC. For more info visit: <http://www.asce-sbriv.org/index.html>.

### ASCE (San Diego Section) Joint meeting with Geo-Institute: October 22, 2013 (Tuesday).

Topic: *“Challenges to Engineering Design From Extreme Events.”* Speaker: Jorge Menses, Senior Consultant and Earthquake Engineering Practice Leader at GEI Consultants, Inc. Location: Handlery Hotel San Diego (950 Hotel Circle North). **For more info visit:**

**GRA:** October 8-9, 2013. 29<sup>th</sup> Biennial Groundwater Conference & 22<sup>nd</sup> GRA Annual Meeting: **“California’s Groundwater Future in the Balance: Integrating Quantity & Quality in a Changing Climate.”** Location: Sacramento, CA.

October 3, 2013 – 12:00 to 1:30 pm, Pacific Daylight Time

**GRACast Web Seminar:** *“Compounds of Emerging Concern in Groundwater.”*

**For more info visit:** <http://www.grac.org/>.

**IGS:** October 2, 2013 (Wednesday). Topic: *“Analysis of Seismic Activity and Potential Seismic Hazards of the Fontana Trend in Southern California.”* Speaker: Margaret Gooding, LSA Associates. Location: LSA Associates offices at 1500 Iowa Avenue, Riverside, CA.  
**For more info visit:** <http://www.inlandgeo.org/>

**LA Basin:** TBD – usually held at lunchtime on the 4th Thursday of the month .

**For more info visit:** <http://www.labgs.org/>

**SCGS:** October 14 (Monday). Topic: *“Rare Earth Minerals: To Have Or Have Not.”* Speaker: **Don Fife**, SCGS Honorary Member. Location: Club Double Tree Hotel, 7 Hutton Centre Dr., Santa Ana, CA 92707. **For more info visit:** <http://www.scgs.org/>.

**SME:** October 12 & 13 (Saturday & Sunday). Field Trip: Saturday, Copper Mountain College and the Virginia Dale Gold District. For questions about the trip contact: Doug Shumway, [shumwaydoug@gmail.com](mailto:shumwaydoug@gmail.com), 760-559-7126

**SDAG:** Oct 16 2013 Wednesday. Topic: *“A Year in Kandahar.”* Speaker: Len Sinfield. Location: TBD. SDAG will hold *their Annual Field Trip to the San Luis Rey River Valley in Northern San Diego County* on November 8-10, 2  
**For more info about SCGS visit:** <http://www.southcoastgeo.org/>.



**CalGeo**<sup>SM</sup>  
The California Geotechnical  
Engineering Association

**CALGEO ANNOUNCES**  
**REGIONAL DINNER MEETINGS**  
**OCTOBER 15 & 17, 2013**

**Locations:**

Oct. 15 - Embassy Suites - Santa Ana, CA  
-and-  
Oct. 17 - Holiday Inn - Dublin, CA



**THE LATEST ABOUT...  
HEAVE, SETTLEMENT AND LATERAL  
EXTENSION OF COMPACTED FILLS**

**Presented by:**

**Iraj Noorany, Ph.D, GE**

Our October Regional Meetings will be presented by Iraj Noorany.

Many structural fills and embankments are composed of expansive soils. Water can gradually infiltrate the fill and cause both vertical movement and lateral expansion of the fill slope zone. The mechanism of heave, hydrocompression and lateral extension of compacted fills and the types of resulting distress features will be briefly reviewed. The latest ASTM test standard for volume change will be reviewed, and the triaxial test procedure for measuring vertical and lateral wetting-induced strains on anisotropically loaded specimens will be discussed. The presentation will then focus on the step-by-step procedure, "LFE Method", for calculating the amounts of heave/settlement and lateral fill extension as a function of the slope's geometry, the soil's characteristics, depth and degree of wetting. Mitigation of the effects of lateral extension of slopes will be briefly discussed.

**REGISTER TODAY!**

**Reservation Deadline: Wednesday, Oct. 9th**  
**(Space is limited, so reserve TODAY!)**

Price: Member-\$45.00, Non-Member-\$60.00, Students-\$20.00 (must show student ID)

Time: 5:30 p.m. - 8:30 p.m. (includes dinner)

For complete information and to reserve your spot, download the meeting form here: [CalGeo Website](#). Choose which site you wish to attend, complete the form, and fax (530-344-0834) or email ([mmyers@calgeo.org](mailto:mmyers@calgeo.org)) to CalGeo. You may pay at door (cash or check) or pre-pay online with a credit card.

Questions? Call the CalGeo office at (530) 344-0644 or email Executive Director, Marsha Myers at [mmyers@calgeo.org](mailto:mmyers@calgeo.org)



## California Earthquake Clearinghouse 2013 ShakeOut Exercise October 16, 2013

### **PLEASE FORWARD**

**CALIFORNIA EARTHQUAKE CLEARINGHOUSE  
ShakeOut EXERCISE  
Wednesday, October 16th  
10:00 am – 1:00 pm PDT**

Dear California Earthquake Clearinghouse member,

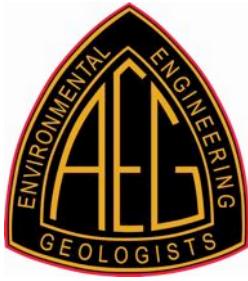
The California Earthquake Clearinghouse will be conducting an exercise for ShakeOut on Wednesday, October 16th, from 10:00 a.m. to 1:00 p.m. A physical clearinghouse location will be established at [Preservation Park in Oakland, CA](#) and Clearinghouse members are encouraged to attend during the exercise, but **YOU DO NOT HAVE TO BE IN THE BAY AREA TO PARTICIPATE!**

The purpose of the Clearinghouse exercise is to introduce everyone to the concept of expanded operations possible through the addition of the virtual Clearinghouse we're developing using the Unified Incident Command and Decision Support (UICDS) middleware. This year's scenario is a catastrophic San Francisco Bay Area earthquake. On October 16, Clearinghouse members will have the opportunity to use data collection tools to share information with the Clearinghouse which will then be displayed on the Clearinghouse website. We will also host a webex running concurrent with the exercise where you can tune in to hear the action narrated live, ask questions and hear from the various Clearinghouse partners (CGS, Cal OES, USGS, EERI, NASA, SpotOnResponse) developing the tools you'll be using.

This is the fourth of six planned Clearinghouse exercises. Over the last year we've listened to the feedback you've provided and continue to refine the SpotOnResponse mobile app being developed for us and we are eager to share with you the latest improvements, including off-line reporting capability. Visit the Clearinghouse website to register, create a login for SpotOnResponse and for more information about the exercise.

Please review a short Youtube training session <https://www.youtube.com/watch?v=h1VAbCctRI> that will introduce you to the updated SpotOnResponse, as well as tell you more about how you can participate in the Clearinghouses activities for Shakeout.

**Detailed instructions for participating in the exercise are coming soon and will be sent out to registered Clearinghouse volunteers and also posted on the Clearinghouse website.**



# AEG MEMBER BENEFITS

- You find value in our **conferences** - both Annual Meetings and Specialty Conferences - and in the technical knowledge and continuing education you receive at these meetings.
- You appreciate **networking opportunities** in local settings, at Section meetings, and at national conferences. With over 3,000 members, AEG provides you with access to a wide network of Environmental and Engineering geology professionals.
- You love our **publications** - the AEG NEWS, the Environmental & Engineering Geoscience Journal, and the AEG Insider - with their relevant geoscience information, updates on AEG activities, and engaging scientific interest stories.

With benefits like these, of course you want to be part of AEG! And we encourage you to spread the word - talk to your co-workers, classmates, and friends about AEG and all it has to offer.

Remember:

- New Membership is just \$95 (First Year of Membership only)
- Student Membership is FREE
- Graduating students receive their first year of full membership for FREE as our Graduation Gift to you (Contact [aeg@aegweb.org](mailto:aeg@aegweb.org) to receive your gift)

· If you have not renewed, there is still time to renew your membership for 2013, just \$140, plus Section Dues.

· If you have - thank you! Full members receive discounted registration for Annual Meetings and Specialty Conferences

If you have any questions regarding your membership status or would like to Join or Renew today, please call AEG Headquarters at 303-757-2926 or email [AEG@aegweb.org](mailto:AEG@aegweb.org).