



THE ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS

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SOUTHERN
CALIFORNIA
SECTION

NEWSLETTER – June 2012

SOUTHERN
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SECTION

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Greetings, AEG Southern California Section Member! Please join us for the upcoming SoCal Section Meeting.

Visit the Southern California Section Website: www.aegsc.org

Upcoming AEG Meeting Date: *****Tuesday, June 12, 2012*****

Meeting Location: Stevens Steak House, 5332 Stevens Place, Commerce, CA (323) 723-9856

Meeting Time: 6:00pm Social Hour, 7:00pm Dinner, 7:45pm Presentation

Cost: \$30 per person with reservations for AEG/EERI members, \$35 without reservations, \$15 with a valid Student ID.

***Reservations:** Please contact Shant Minas at shant@aessoil.com or 818-552-6000x109

Speaker: Dr. Egil Hauksson, Caltech

Topic: The Goldilocks Seismicity of Southern California

June 2012

Chair's Column

By David Perry

Greetings Southern California AEG members

Our mid-year Board Meeting was held in Asheville, North Carolina the last weekend in April and I had the opportunity to participate and observe first-hand the many dedicated, hard working leaders at work in our organization. A synopsis of the meeting themes is included in this Newsletter. In summary, several recommendations have been put forth to improve the financial health of the Association. Firstly, we can improve upon our revenue numbers through membership. This can be achieved through renewals and encouraging our colleagues to join by promoting its value in terms of the professional growth and leadership opportunities it offers. On a second front, I hope many of you will be attending the Annual Meeting in Salt Lake City in September. It is certain to be outstanding. I have participated in several professional society meetings in Salt Lake City through the years and have enjoyed the diversity of topics and field trips to the beautiful and interesting geologic structure of the Wasatch Range.

We are pleased to announce this month's speaker is the esteemed seismologist, Dr. Egill Hauksson of the California Institute of Technology. I think you will be very interested in some new findings that Egill Hauksson, Lucy Jones, and the Caltech seismology group have discovered from "listening in" on southern California's microseismic earthquakes. They have been monitoring for a long time as you know, but over the past 5 years or so they have developed some new tools and new ways to process the data. They have found that the earthquakes seem "to like" a certain range of crustal temperatures. Egill is calling it the "Goldilocks" theory, not too hot and not too cold, but just right. He says he can now assign the microseismicity with better accuracy to late quaternary faults. This is some really great stuff and "breaking news". The meeting will be jointly held with the Earthquake Engineering Research Institute (EERI) on Tuesday June 12th at Steven's Steak House. Please see below for the presentation abstract and RSVP information.

We are planning on meetings in July and August covering topics in computer based stereo photo analysis and on ground-rupture studies. I will be getting input from those at the meeting next week to determine the best venue(s) for the meetings this summer.

June 2012

I look forward to seeing a large number of colleagues at Stevens Steak House on Tuesday.

April Meeting Summary

Greetings to all of our AEG Southern California Section Members. We returned to our member-favorite Victorio's Ristorante in North Hollywood for our section meeting this April.

We are honored to welcome back Jeffrey R. Keaton, PhD., PE, PG, D.GE, F.ASCE, F.GSA. Dr. Keaton is the Senior Principal Engineering Geologist and Vice President, Geotechnical Practice Leader at AMEC. The topic of Dr. Keaton's presentation is titled "Scour at Bridge Foundations on Rock." The research was funded by the National Cooperative Highway Research Program (NCHRP) with the intent of creating a standardized method for geotechnical site characterization that can be used by hydraulic engineers. The goals of the project include the determination of the time-rate of scour and the design scour depth at bridge foundations on rock.

A method for evaluating scour in sand was available but a method for evaluating scour in rock had not yet been developed. Dr. Keaton's presentation focused on two modes related to scouring in natural channels: 1) durable-rock quarrying and plucking and 2) degradable rock abrasion. Bridge sites throughout the United States were visited, which provided a range of conditions and data for the research project. The method developed as part of the research incorporates the stream power, flood frequency, empirical data from observations (scour per cumulative stream power), and physical data from testing (slake durability) to determine the time-rate of scour and the design scour depth for bridge foundations.

Dr. Keaton's research can be found under the NCHRP Project No. 24-29 with the intent of integrating the methods with the Federal Highway Administration, Hydraulic Engineering Circular HEC-18 "Evaluating Scour at Bridges."

June Speaker

Dr. Egill Hauksson is Senior Research Associate in Geophysics at the California Institute of Technology, Pasadena, CA since 1992 and Senior Research Fellow from 1989 to 1992. He was Research Associate (1983-1985) and Research Professor of Geological Sciences (1985-1989), Univ. of Southern Calif. (USC), Center for Earth Sciences and Dept. of Geol. Sciences. He received his Ph. D. (1981) in Geophysics from Columbia University in New York.

June 2012

He is a member of the California Integrated Seismic network (CISN) Steering Committee and chairs the CISN Program Management Group (2001 – Present). He was member of the Steering Committee (1991-1996) and serves on the Planning Committee (2007-Present) for the Southern California Earthquake Center (SCEC). He is a member of the IRIS/USArray Working Group (2006-present). He was associate editor for the Journal of Geophysical Research (1996-1998) and guest editor for the Bulletin of Seismological Society of America, in 2002. He is editor for Geophysical Journal International (2012 to Present). He is a member of the American Geophysical Union, Seismological Society of America, and American Association for the Advancement of Science. He has authored and co-authored more than 100 scientific manuscripts published in peer reviewed scientific journals, and more than 250 papers presented at scientific meetings.

His research interests are seismology with emphasis on mitigating earthquake hazards, determining earth structure, and understanding the physics of earthquakes; development of instrumentation and software for real-time earthquake monitoring, early warning, waveform analysis, and hazards mitigation.

Speaker Abstract

The Goldilocks Seismicity of Southern California

We analyze the waveform relocated (1981 to 2011) catalog of more than 500,000 earthquakes recorded in southern California, and assign a heat flow value and a GPS-measured shear strain rate to each epicenter. We synthesize this new data set to show that the “goldilocks seismicity” occurs preferentially in crust that is neither too cold nor too hot, as it accommodates plate-boundary loading at shear strain rates that are also neither too slow nor too fast. We have also measured the distance between each of the 500,000 hypocenters and the closest principal slip surface of a late Quaternary fault (PSZ) as mapped in the SCEC Community Fault Model (CFM). This new parameters allows us to investigate how different properties of the seismicity change with distance from the nearest PSZ.

2012 Mid-Year AEG Board of Directors Meeting Summary

The 2012 Mid-Year Board of Directors (BOD) meeting was held in Asheville, North Carolina from April 28 – 29th at the beautiful North Carolina Arboretum at the base of the Blue Ridge Mountains. A lot of ground was covered as AEG faces challenges in these tough economic times and with large demographic shifts and changes in traditional models of information distribution.

The usual committee and society relations were covered along with Section reports, and I encourage you to talk with your Board representative (Section Chair) or a member of the Executive Council (EC) if you have any questions. However, for this article I think it's more appropriate for a broad, even thematic, discussion of the BOD meeting. In that respect, the meeting covered 3 primary topics: 1) evaluating the past and owning our problem(s), 2) discussing immediate strategies for addressing problems, and 3) taking a long and hard look at the future AEG faces in these challenging times.

The Past: Owning Our Problems

For the last several years, AEG has experienced increasing annual operational losses. Thanks to some of our most successful meetings in the Association's history, these losses have not developed into large net losses for the Association, however these trends are not sustainable for the future of AEG (I encourage you all to read the Treasurer's Report in June AEG NEWS for more details, or speak to your Board Representative). Regardless of the many reasons for this (and they were discussed in great detail), there is a problem and it is the duty of the BOD and EC to own the problem. This has been achieved, in no small part due to the leadership of AEG and the dedication of the Finance Committee. The leadership of President Bauer has paved the way for all of us to move forward in reminding us of the reasons for our passion for AEG and dedication to volunteerism as well as encouraging us all to lay everything out on the table.

Now: Addressing Our Problems

To avoid further operational losses, strategies must be implemented now. Through the foresight of the BOD, EC and Finance Committee, a cost savings contingency plan was developed when preparing the FY2012 budget. Potential budget cuts and savings identified in the contingency plan are being enacted now with planned cuts designed to cause the least amount of impact to

June 2012

our member services. Future budgeting will account for the recent membership trend of the Association and the overall economy of our industry. Many of these budget cuts and savings come through the generosity of our leadership and the companies they work for.

As we've all heard elsewhere, budget cuts alone can't solve things. Many of our operations have already been trimmed about as far as they can be and any additional cuts will result in impacts to member services. To avoid an impact to member services, revenue must also be generated. The primary ways AEG can generate large amounts of revenue at this time are through membership and our Annual Meeting.

Membership for full members is down. While our student membership is way up, this has not yet translated into more full members, and full members generate AEG's revenue. I ask each and every one of you to consider what you can do to increase our membership now. Do you know someone who hasn't renewed yet? Do you have a colleague down the hall, or client across the street, or across the country who is not a member, but could be? Do you see faces at meetings that you know belong to non-members? Ask them to join. Tell them what you love about AEG. Consider volunteering as a Membership Chair for your section or joining any of our Operational Committees that support various membership goals.

Are you excited about the upcoming Salt Lake City meeting? Take some time to look through the insert in the June issue of the AEG NEWS and information posted on the website (www.aegweb.org) – it's going to be a great meeting. And we need each and every one of you to attend, as well as your colleagues. There is not a more significant, not to mention fun, way to improve AEG's finances than supporting the Annual Meeting. I hope to see you all there.

The Future: Assessing Our Needs

We all know times are changing. The Baby Boomer generation is facing retirement (or already there) and we have more student members than ever, but traditional funding sources everywhere are disappearing, information that was once only available from a distinct source at a price is now freely available on-line, data and communication are moving from paper to electronic, sustainability is the new buzzword, and the reasons we joined AEG appear to stand in stark contrast to our student members and the hundred thousand plus practicing geoscientists who haven't joined AEG. Statistics from the American Geosciences Institute clearly point to

June 2012

future growth in our industry, yet membership decline seems to be the norm for professional societies. The disconnect is clear, and something must be done about it.

As geologists we all understand the consequences of a failure to evolve. AEG follows a business model that is essentially over 100-years old. We face the strong possibility of becoming the equivalent of a buggy-manufacturer complaining about the invention of the automobile. AEG's COO Becky Roland, our Strategic Planning Committee (SPC) Chair Deb Green and SPC member Paul Hale have presented a plan for conducting a Needs Assessment to the BOD. With past SPC efforts, we feel that we have a pretty good idea about the needs of our current active members, however with a potential market-share of greater than 100,000, we have relatively little understanding of the needs of our potential members. With our professional membership in decline, the BOD feels that it is time that we start to understand those needs and has directed us to move forward with exploring strategies for assessing those needs. Based on the Board's direction the details of the Needs Assessment will be further evaluated by the EC and SPC.

As geologists, we often see the long-view of things and can be derisive of short-term-only solutions. The direction of the BOD to look toward the long-view gives me hope.

What Can We Do?

The truth is that our finest moments are most likely to occur when we are feeling deeply uncomfortable, unhappy, or unfulfilled. For it is only in such moments, propelled by our discomfort, that we are likely to step out of our ruts and start searching for different ways or truer answers.

-M. Scott Peck

Everything you ever wanted is one step outside your comfort zone.

-Original Source Unknown

Each member of AEG can make an immediate impact, both to save current revenue and generate more. Go to the AEG Website (www.aegweb.org), log in and look at your member account. Now opt-out of receiving the NEWS as a print copy and opt-in to electronic only. This is an immediate savings to the Association and promotes our goals of sustainability. Next,

June 2012

encourage any potential members you know to join AEG. Share your passion for the organization. Ask your company and those that provide services to you to become a Corporate Sponsor or advertiser in the AEG NEWS and website. And finally, join us in Salt Lake City this September – it's going to be a fabulous meeting.

Change can be uncertain, stressful, exciting and a lot of work. If you've made it this far into this article, you likely share my passion and love for AEG. We would love your help – contact anyone on the EC, your local Section Chair, a committee chair or technical working group chair. There are dozens of ways that your involvement can help AEG as it moves toward its future. We want and need your help. I and the rest of the leadership in AEG have a great hope for the future of AEG and we look forward to sharing it with each of you.

BPELSG Announcements

Visit <http://www.geology.ca.gov/> for news, meeting announcements, notices, and exam information.

ANNOUNCED JUNE 8, 2012 - FALL EXAMINATION ANNOUNCEMENT - The California Specific Examination will be administered as a Computer Based Test (CBT) on October 9, 2012; the Certified Engineering Geologist, Certified Hydrogeologist and the Professional Geophysicist Examinations will be administered as Computer Based Tests (CBT) on October 10, 2012. All candidates will receive a letter from the CBT vendor with instructions on when and how to schedule their examination once all applications have been reviewed and approved (there is no online link for this announcement).

ANNOUNCED MAY 2, 2012 - INFORMATION REGARDING NEW EXAMINATION FEES - New examination fees for geologists are now in effect. Click the above link for more information. Click on the following link for more information: http://www.pels.ca.gov/applicants/new_fees.pdf.

ADDED FEBRUARY 3, 2012 - 2012 LAWS NOW AVAILABLE - The 2012 Geologist and Geophysicist Act, the Professional Engineers Act, the Professional Land Surveyors' Act, and the Regulations Relating to the Practices of Geology and Geophysics and the Practices of Professional Engineering and Land Surveying are now available on the Board's website. Click the following link <http://www.geology.ca.gov/laws/index.shtml> for the links to the laws.

NOTICED JANUARY 27, 2012 - GEOLOGIST AND GEOPHYSICIST TECHNICAL ADVISORY COMMITTEE MEETING - The agenda for the Geologist and Geophysicist Technical Advisory Committee meeting is now available. Please click on the following link http://www.geology.ca.gov/about-us/meetings/agendas/20120207_gg_tac_agenda.pdf.

ADDED JANUARY 20, 2012 - ONLINE ADDRESS CHANGE SUBMITTAL - Applicants and licensees may now submit their address change notifications to the Board via our new online

June 2012

system. Click the following link https://www.dca.ca.gov/webapps/pels/address_change.php for the online submittal form. NOTE: It is the responsibility of the applicant or licensee to notify the Board of any change to their address of record within 30 days of the change. The Board is not responsible for the applicant's or licensee's failure to receive official mailings from the Board due to the applicant's or licensee's failure to timely notify the Board of a change of address.

POSTED JANUARY 12, 2012 - California Specific Examination for Professional Geologist will be administered as a computer based test (CBT) beginning March 14, 2012. All candidates will receive a letter from the CBT vendor with instructions on when and how to schedule their examination.

RELEASE OF SEPTEMBER/OCTOBER 2011 EXAMINATION RESULTS - Click on the link http://www.geology.ca.gov/applicants/release_of_september_2011_exam_results.pdf for information regarding the release of the September/October 2011 results.

TECHNICAL ADVISORY COMMITTEE MEMBERS WANTED - Click the link <http://www.geology.ca.gov/licensees/tacwanted.shtml> for information regarding becoming a Technical Advisory Committee member.

EXPERT CONSULTANTS WANTED - ENFORCEMENT - Click the link <http://www.geology.ca.gov/licensees/tewanted.shtml> for information regarding becoming an Expert Consultant for the Geologist and Geophysicist Program enforcement unit. Experts are needed to help review enforcement complaint investigations.

EXPERT CONSULTANTS NEEDED TO ASSIST WITH EXAMINATION DEVELOPMENT - The Board is recruiting Professional Geologists, Professional Geophysicists, Certified Engineering Geologists, and Certified Hydrogeologists to assist with the development of licensing examinations. Please click the link <http://www.geology.ca.gov/licensees/smeswanted.shtml> for additional information. The Board appreciates your interest in the professions and your willingness to assist in the licensure process.

Other Meetings

On June 19th, CalGeo will be hosting a Regional Dinner Meeting at the Hilton Arden West in Sacramento and will be webcasting the event to 13 host sites throughout California. Go to <http://www.calgeo.org/events/event-details.php?id=ppmi> to download the registration flyer and to pay by credit card.

"Geotechnical Lessons From The 2011 Great East Japan Earthquake"

Presented by: Professor Ross W. Boulanger

The 2011 Great East Japan (or Tohoku) Earthquake produced a wealth of geotechnical lessons and geotechnical data that will have a lasting impact on the science and practice of geotechnical earthquake engineering. The lessons and observations from this M=9 earthquake span a wide

June 2012

range of geotechnical and constructed facilities, including many affected by liquefaction. This presentation by Professor Ross Boulanger will examine some of the key lessons from this earthquake and discuss how they relate to current issues in geotechnical practice in the U.S.

CAREER OPPORTUNITIES

Current career opportunities in California are posted on our section website at <http://aegsc.org/jobs/>.

Additional career opportunities in California are also posted on AEG's national website on the Careers page at http://careers.aegweb.org/jobs#/results/filter=%28state_province%3Acalifornia%29&resultsPerPage=100&showMoreOptions=true&selectedTab=bti-facets-discipline&view=single.



Chapter Meetings

Inland Empire:

For the latest information and updates, please visit <http://www.aegsc.org/chapters/inlandempire/>

Central Coast:

For the latest information and updates, please visit <http://www.aegsc.org/chapters/centralcoast/>

San Diego:

For the latest information and updates, please visit <http://www.aegsc.org/chapters/extremesocal/>

National Business Donation

- Platinum - \$1,000
 - Gold - \$500
 - Silver - \$250

Company name, address and contact information are presented in AEG News and section receives 10% of donation. A national donation does not yield a line in our local section newsletter.

If you would like to post an ad in the newsletter, please contact Christy Confar at cconfar@groupdelsol.com. Advertisement rates are shown in the box below.

Company & Employment Advertising **Newsletter (includes website posting)**

	<u>Month</u>	<u>Year</u>
▪ Business Card	\$30	\$200
▪ ¼ Page	\$40	\$300
▪ ⅓ Page	\$50	\$400
▪ ½ Page	\$55	\$450
▪ Full Page	\$70	\$550

AEG SoCal website posting only

\$20/month or \$200/year

Professionals,
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AEG Member Benefits

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- National newsletter *AEG NEWS*
- National peer-reviewed *JOURNAL OF ENVIRONMENTAL & ENGINEERING GEOSCIENCE*, co-published with the Geological Society of America

WEBSITES

- National Website
- Southern California Section and Chapter Websites

MEETINGS

- Monthly Southern California Section Meeting
- Monthly Inland Empire Chapter Meeting

INFORMATION

- Regulatory updates
- Licensure updates from the Board of Professional Engineers & Land Surveyors

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Visit us on the web: www.aegweb.org

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Logo Ad
160 x 60 px

(Proportions are fixed; actual size is dependent on monitor resolution)

STATIC

(Ad displays continuously)

File Dimensions:
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File Type*: GIF, JPG
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Max File Size: 50k

Colors: RGB

ROTATING

(Ad will be looped with up to 4 additional ads, each displaying for 5 seconds)

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File Type*: GIF, JPG
(Animation is not supported for logo ads)

Max File Size: 50k

Colors: RGB

SKYSCRAPER AD

Skyscraper Ad
190 x 240 px

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STATIC

(Ad displays continuously)

File Dimensions:
190w x 240h pixels

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Colors: RGB

ROTATING

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Max File Size: 150k

Max Animation Length:
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Colors: RGB

**All animated images must be in GIF format only.*



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Skyscraper	Home Page	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Rotating	\$500	\$300	\$ _____
Logo*	Home Page	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Rotating	\$200	\$120	\$ _____
Skyscraper	Secondary Page (All)	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Rotating	\$250	\$150	\$ _____
Skyscraper	Secondary Pg. (1 specific pg.)	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Static	\$150	\$90	\$ _____
Skyscraper	Secondary Pg. (3 specific pgs.)	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Static	\$300	\$180	\$ _____
Skyscraper	Secondary Pg. (All pgs.)	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Static	\$600	\$360	\$ _____
Logo*	Secondary Pg. (1 ad per page)	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Static	\$50	\$30	\$ _____
Logo*	Secondary Pg. (1 ad for 5 pages)	<input type="checkbox"/> Year	<input type="checkbox"/> 6 Mo.	Static	\$200	\$120	\$ _____

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SEND ALL AD MATERIAL TO:

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 aeg@aegweb.org

June 2012

* The deadline for submitting an advertisement for next month's newsletter is July 31, 2012.

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