



ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS
Southern California Chapter
"Connecting Professionals, Practice, and the Public."

NEWSLETTER –4th Quarter 2016

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Greeting AEG SoCal members. Some of us recently returned from the annual meeting in Hawaii, which was a great success. See the Chair's column for a brief summary. We have two meetings remaining for calendar year 2016. The upcoming one will be on October 11, featuring Dr. Phil Hogan, senior consultant at Fugro, who will be talking about tunneling across the Palos Verdes Fault Zone. It promises to be a great talk in an active location in which many of us work, so please spread the word and let's have a strong turnout. The meeting will take place in Cisco's in Westlake Village.

See the sections below on more information about the upcoming meeting.

Chair's Column

By Shant Minas

October 7, 2016

Greetings, AEG members!

We just recently returned from Hawaii, the annual conference. Thankfully the conference was very well attended, and southern California members were well represented, both in attendance, as well as in the presentations. Several great talks were given by our members, including Kim Bishop, David Perry, Jeffrey Keaton, Eldon Gath, and Harry Audell, among others. I also gave a presentation on professional practice in southern California, which I will further develop and present to our chapter in a local meeting sometime in middle 2017. In addition to giving a talk, Dr. Kim Bishop of CSULA also organized two field trips across the Big Island which were very well attended.

Regional Director- Mr. Eldon Gath

Congratulations to Eldon Gath, who is the new Regional Director for southern California! Part of Eldon's role will be to coordinate our efforts here in southern California with our compatriots in the Inland Empire subsection, as well as our several members in the Orange County and San Diego areas, which although they do not have active monthly meetings, were well represented in Hawaii at the annual meeting. I was happy to meet several of them, including Diane Murbach, a longtime active member, and we discussed the possibility of a joint meeting in the southern Orange County area to bring our San Diego area members back into the scene, for sometime in middle of 2017. Stay tuned for more details on that in the early part of the year.

Current Membership. We kindly ask those you who have not updated your membership with AEG National to do so online prior to the meeting. Your membership dues are important so that AEG can continue its crucial work on behalf of our profession, with its publications, events, organization and lobbying efforts that all practicing geologists benefit from.

Upcoming Chapter Meetings

We cohosted the September meeting with South Coast Geologic Society back in September. It was a well-attended meeting overall, with Professor Art Sylvester speaking about his new Roadside Geology book, but only a few AEG members made it. Vice Chair Darrin and I take partial blame for that as several of us were caught up late summer and we dropped the ball on sending out a timely reminder to the meeting. Nevertheless it was well attended.

We are pleased to announce we will be hosting **Dr. Phil Hogan of Fugro**, for our monthly meeting in October. The meeting will take place at **Cisco's in Westlake Village, on Tuesday October 11**. Dr. Hogan's topic will be "**LACSD Ocean Outfall Tunnel Project: Seismic Imaging and Slip Rate Constraints of the Palos Verdes Fault Zone**" which will be a very informative and important talk. Our meetings at Cisco's are usually strongly attended so let's get the word out and have a great turnout.

In November, we will be **hosting a Student Night meeting**, which will take place at our **Applied Earth Sciences office**. The date of this meeting is set for **Wednesday, November 16**. I will be making a presentation catered to graduating student and graduate students about careers in engineering and environmental geology, followed by a free-form discussion in which other geologists can provide additional advice and support.

This meeting will take place at Applied Earth Sciences office in Glendale, details to follow. We will serve pizza and refreshments. The fee will be \$25.

As usual, we will not hold a meeting in December for the holidays.

2017 Board Members and Volunteer Opportunities

It has been an honor to be the Chairperson of the southern California section/chapter for nearly the last two years. My term started in 2015 and I am glad to say, that with the help of our Board, we were able to organize two highly successful field trips along the Hollywood and Santa Monica fault zones during my term. We also had several great presentations and talks.

The new Chair starting in 2017 will be Darrin Hasham of Kleinfelder, who has served as AEG Vice Chair for the last two years. Please welcome Darrin when you see him at our upcoming meeting.

I should note, however, that currently the southern California chapter is suffering from attrition of existing volunteers and lack of new volunteers. Edmond Lee stepped down as

Treasurer earlier this year, and his replacement, Pedram Rahimikian, also has recently stepped down after a brief stint. I have spoken to our senior members about this over the last few months. We are asking our membership, please volunteer! Those of you that own companies, get your young graduates to volunteer! It is not possible for the section to continue going strong without new volunteers coming forward to help organize meetings and events. I have grown tremendously as a professional during my 8 year involvement in the southern California section, and will continue to volunteer. Volunteering can be fun and a great way to meet other practitioners and learn about new techniques and possibilities in the profession.

But we need fresh faces and help from our membership to sustain our current level of activities (8-9 meetings annually and field trip). Please, step up, contact Darrin or myself about volunteering. We want to keep the chapter going strong but we need your help.

Currently the Treasurer position is open, but we can arrange for any level of involvement based on the volunteer's skills.

AEG Field Trip Guide- 2015-2016 Hollywood and Santa Monica Fault Zone

Matt Pendleton, Ted Zeidan and myself have been working to compile the several reports and maps that were prepared for the field trips, in one document. We are pretty close to bringing the whole thing together, after which we will confer with AEG National about publishing opportunities. Prior to an actual publication being made, we will make the PDF version available to our membership, which will be shared later this year in an email.

Lastly, be sure to check out the September edition of the AEG News online newsletter. I put a few pictures together of our field trips, along with a brief summary.

Dinner Costs

Starting in 2017, we will be charging \$40 for members who RSVP, and \$45 for walk-ins. The costs of these dinners has steadily increased, it is currently on average \$25-27 per person at the various restaurants where we hold meetings, not including tip. We also provide a token gift to the speakers, and arrange travel or transport for those coming from out of town. At our August meeting, which was our best attended meeting all year with over 50 guests, we came out of pocket about \$400 due to several students being present, and unfortunately some guests had dinner but failed to pay.

The \$40 fee is the same as the ASCE and other similar groups currently charge, and it will allow for meetings to cover their costs with a little left over for the chapter.

Our student fee was previously too low at \$15-\$20, which was not covering the cost of the meal. We found that some students seem to have been taking advantage of a subsidized steak meal! Starting immediately, we will be charging \$25 for students (cost), including the upcoming October meeting.

Remediation Workshop

On Thursday, October 20, Microbial Insights will be hosting a Remediation Workshop in Orange County, which is co-sponsored by AEG National. For those of you in environmental consulting it will be very informative and useful. The workshop is free of charge but they do ask that you RSVP. See below for further details.

3rd North American Symposium on Landslides

We are pleased to announce that AEG is a co-sponsor of a national meeting to take place in Roanoke, Virginia, in June 2017. Never too early to plan ahead for what will be a very informative meeting. Those of us working with landslide hazards will find this symposium to be a must-attend. Please see the flyer attached for additional information.

Dr. Phil Hogan - Biosketch

Dr. Hogan has 30 years of experience specializing in geohazard surveys for coastal infrastructure and energy projects. Since 2004 he has been a Senior Principal Engineering Geologist with Fugro Consultants, following his 20 year career with Nekton, Dames & Moore and URS. Dr. Hogan performs geologic reconnaissance, high-resolution geophysical mapping surveys, and geohazard evaluations in a variety of tectonic and sedimentary environments worldwide.

Dr. Hogan has a strong background in seismic hazards evaluation, structural geology, sedimentology, engineering geology, Quaternary geology, geochronology, geomorphology, and stratigraphy. Dr. Hogan has a broad-based knowledge of all aspects of geology, while specializing in geohazard studies, seismic hazard analysis, and coastal processes. Dr. Hogan has carried out investigations of landslide hazards, debris flows, liquefaction potential, basin analysis, water resource evaluation, surface fault rupture displacement, seismic source characterization, and foundation engineering conditions.

Dr. Hogan received his undergraduate degree in geology from Princeton University, and both his M.S. and Ph.D. degrees from the University of Southern California.

Dr. Hogan's undergraduate thesis focused on geologic structure and uplift rates of the Palos Verdes Peninsula, while his M.S. work addressed mass movement processes in the California Continental Borderland. Dr. Hogan worked on the Geochronologic, Tectonic, and Stratigraphic Evolution of the SW Pyrenees for his doctoral studies at USC. He also served on a pro bono basis as a geological consultant for the Palos Verdes Land Conservancy from 1989-2004.

Dr. Hogan currently serves as a Technical Authority for Fugro's GeoConsultancy Group.

Please see next page for an Abstract of his talk.

“LACSD Ocean Outfall Tunnel Project: Seismic Imaging and Slip Rate Constraints of the Palos Verdes Fault Zone”, October 11, 2016

ABSTRACT

New high-resolution 2-D seismic reflection data were collected for the Sanitation Districts of Los Angeles County’s proposed Joint Water Pollution Control Plant Effluent Outfall Tunnel across the Holocene-active Palos Verdes fault zone (PVFZ) in the eastern Palos Verdes Peninsula (PVP). These data were used in conjunction with digital renderings of early 20th-century topography and borehole data to refine the location, geometry and kinematics of shallow (< 6,000 feet) faulting and folding along one of the highest-slip-rate structures in the greater metropolitan Los Angeles area. The onshore PVFZ is approximately 6,000 feet wide and consists of three principal strands, referred to herein as the northern, middle and southern splays (PVFN, PVFM and PVFS, respectively). PVFN bounds the northeastern range front of the PVP, and is interpreted as a 75-degree, southwest-dipping blind reverse fault. The location of the fault tipline is well constrained at an elevation of approximately -1,500 feet by an unfaulted angular unconformity near the top of the Pliocene Fernando Formation. The unconformity and adjacent reflectors are folded into a prominent synclinal hinge, and form the common limb with a hangingwall anticline involving the Miocene Monterey Formation and Quaternary San Pedro Sand. The axial surface of the syncline projects upwards to a well-defined topographic break-in-slope, which we interpret as a fold scarp. PVFM is interpreted as an 80- to 85-degree, southwest-dipping, right-oblique fault. Integration of the reflection data with subsurface constraints from nearby oil and gas wells shows that the Monterey Formation thickens in the hangingwall of the PVFM. Based on an attenuated to absent section of equivalent strata in the footwall, PVFM likely initiated as a Miocene extensional fault and was subsequently inverted in transpression; PVFN may be a footwall-breakout off of this fault. PVFS is interpreted as a vertical strike-slip fault based on the down-dip trajectory of reflection terminations, an abrupt juxtaposition of contrasting reflection sequences and, as visible in the early 20th-century topographic data, aligned linear drainages, slope breaks and channel deflections. This study provides robust constraints on the location and geometry of what was previously a poorly located section of the fault zone.

AEG-Southern California would like to invite you to the Orange County Remediation Workshop that Microbial Insights will be hosting on October 20th. Over **6,000** people have registered for a workshop so far this year there is typically a good mix of consultants, regulators, and industrial managers.

Our half-day technical workshops cover a range of topics from bioremediation, chemical oxidation, metals stabilization, thermal desorption, and many others. Thanks to the workshop sponsors & exhibitors there is **NO CHARGE** for you to attend. A hot lunch buffet is provided and you'll also receive a certificate for **4 PDH credits**.

I also wanted to draw your attention to a video we have on our website that will give you a quick peek inside one of our workshops: <https://www.youtube.com/watch?v=avy0ISDnIvI>.

ORANGE COUNTY WORKSHOP SCHEDULE

11:15 - Registration, hot buffet lunch is served, and networking with exhibitors

11:45 - Welcome on behalf of Remediation Workshops; Travis Bowman

12:00 – Opening Speaker

12:15 – Michael Dodson - "In Situ Thermal Remediation"

12:55 – Dora Taggart - "Stable Isotope Probing and Molecular Biological Tools for Site Assessment and Remedy Selection"

1:35 – BREAK

2:00 – Bud Ivey - "Surfactant Enhanced Push-Pull Method for In-situ Remediation of Petroleum Contaminated Soil and Groundwater"

2:40 – Dr. Alan Seech - "Treatment of Heavy Metals in Soil & Groundwater with Iron/Iron sulfide-based MetaFix® Reagents"

3:20 - BREAK

3:35 – John Freim - "Performance Review and Advantages of Z-Loy™ Products: The Perfect Particle Size Remediation Amendment"

4:15 – Mitchell Brouman - "Can Real-Time Monitoring Affect Your Project's Bottom Line?"

5:00 - After-hours networking hosted by one of our sponsoring organizations

4th Quarter 2016

Orange County Workshop Location – Thursday, October 20th

Embassy Suites by Hilton Santa Ana Orange County Airport– 1325 E. Dyer Rd.

REGISTER ONLINE: <http://remediationworkshop.com/workshops/orange-co-ca/>

Even though it's a **FREE** workshop, you must register online so that we know how much food to order.

Feel free to forward this on to others in your office and I'll see you at the workshop!



**Third North American
Symposium on Landslides**

Roanoke, Virginia, USA
June 4-8, 2017



FIRST ANNOUNCEMENT

THEME

Landslides: Putting Experience, Knowledge and Emerging Technologies into Practice

The 1st North American Symposium on Landslides held in 2007 in Colorado and of 2nd North American Symposium on Landslides held in 2012 at Banff, Alberta, Canada.

THE OBJECTIVE OF THESE SYMPOSIA

The main objective of the symposia is to provide a stimulating forum for geoscientists, engineers, planners, economists, program managers, and other decision makers concerned with landslide hazards and their impact on society. Papers related to investigation, classification, monitoring, analysis and mitigation of landslides, as well as case studies on innovative analysis techniques and solutions will be presented.

THE TECHNICAL PROGRAM

- Sunday Workshops
- Sunday Evening “Ice-Breaker” Reception
- Three days of Technical Presentations with Morning Plenary Sessions and Afternoon Concurrent Sessions
- Exhibition Space
- Included Luncheons and Refreshment Breaks
- Selection of Full-day Field Trips on Wednesday
- Poster Sessions
- Electronic Proceedings

ROANOKE ATTRACTIONS

The Symposium Hotel is in central Roanoke, the largest city, shopping, and dining destination in the “Virginia Mountains Region.” Roanoke is an entry point for the Blue Ridge Parkway – “America’s Most Scenic Drive.” Local points of interest include several museums, the Historic Roanoke City Market, various craft breweries, and one of Virginia’s favorite hikes, McAfee Knob. Nearby areas are a playground for outdoor enthusiasts with lakes to boat, rivers to fish, and peaks to conquer. But that’s not all, there are many historical and cultural attractions. So consider a family vacation before or after the Symposium!!

For Additional Information:

<http://www.aegweb.org/landslideroanoke2017/>

TIMELINE FOR SUBMISSIONS

June 30, 2016	Abstract submission deadline
July 31, 2016	Abstract acceptance notification
October 31, 2016	Manuscript submission deadline
January 2, 2017	Manuscript returned for revision
February 13, 2017	Manuscript final submission

Abstracts will be limited to 250 words. All submissions will be peer-reviewed. Style templates will be provided. Both oral and poster presentations will have written submissions.

All submissions will be included in the Electronic Conference Proceedings and will follow Environmental & Engineering Geoscience Journal standards.

Papers are invited from all topics in landslide science, engineering, and public policy fitting the general themes below. The topics listed are examples only. Abstracts on any relevant landslide topic are welcome.”

Example Topic List

Experience

- The National Landslides Hazards Program
- The National Landslide Loss Reduction Act
- Emergency Management and Response
- Case histories and lessons learned
- Impacts of climate change
- Predicting slope failures
- Landslide insurance

Knowledge

- Hazards reduction and communication
- Risk analysis, reduction, and mitigation
- Societal impacts of landslide hazards

- Impacts of weather on slope stability
- Earthquake-induced slope failures
- Mechanics of rock and soil slopes
- Slope stability in mining environments
- Sustainable slope design

Emerging Technologies

- LiDAR, UAS and remote sensing techniques
- New developments in monitoring and mitigation
- Soil and rock slope stabilization
- Early warning and rapid response systems
- Advances in landslide modelling
- Rapid mapping and mobile GIS applications

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AEGF Scholarship Applications

For California students, the AEG Foundation has six scholarship programs to support students, including scholarships for field camp, field research, scholarship and professional development at both the undergraduate and graduate levels. Academic scholarships are briefly described below. For the AEG Foundation scholarship application and specific information about each of our scholarship programs, please visit our website at www.aegfoundation.org.

We encourage students to apply for Foundation scholarships. Applications are only accepted online at www.aegfoundation.org/applications. First-time users will need to set up an account, but you can then apply for multiple scholarships from that account. Please read the criteria for each scholarship to determine if you are eligible.

You must be a student member of AEG to apply for AEG Foundation scholarships, but student membership in AEG is free! Go to www.aegweb.org to become a student member.

Faculty members, as members of academic institutions supporting students in Environmental and Engineering Geology, the AEG Foundation hopes that you will encourage students to apply for one or more of the many scholarships we offer. In addition, we hope that you will assist the students by completing recommendations for applications when or if you are requested.

Funds for Students

These Funds assist students to attend field camps, professional meetings, and support student research, scholarship, and professional development.

- **BEARDSLEY-KUPER FUND:** This scholarship was established in 2009 by Cathryne Beardsley with her daughter Dorian Kuper and son-in-law Tom Kuper. The fund provides financial support for field camp tuition and expenses.
- **CAROLINAS SCHOLARSHIP FUND:** This scholarship fund was established in 2015 by the AEG Foundation to support direct costs associated with the Carolinas Scholarships.
- **LEMKE FUND:** This scholarship was established in 2007 in memory of June and Richard Lemke and provides supporting funds to AEG Student Members presenting at professional meetings at which AEG plays a substantial role.
- **MARLIAVE FUND:** The Marliave Fund was established by AEG in 1968 and is in memory of Burton, Chester, and Elmer Marliave. This fund supports graduate and undergraduate Scholarships in Engineering Geology and Geological Engineering.
- **TILFORD FUND:** Established in 1998 in memory of Norman Tilford, a Past President and Executive Director of AEG, and professor at Texas A&M. This fund is distributed as grants awarded to graduate and undergraduate students in support of field studies.
- **STOUT FUND:** Established in 1994 by the Southern California Section in honor of Professor Martin Stout. This fund supports graduate and undergraduate students in environmental and engineering geology.

Latest Update from GMED, Los Angeles County

The Geotechnical and Materials Engineering Division (GMED) of the County of Los Angeles Department of Public Works is now accepting Building and Grading permit application document submittals through a web application at the following URL:

<https://dpw.lacounty.gov/apps/esubmissions/gme/default.aspx>

Permit applications must be filed with Building and Safety before documents can be submitted to GMED because a plan check application number must be provided on the upload screen. First-time users are required to create a site login, which facilitates future submittals and provides contact information should it be determined that additional information is needed to process the submittal.

Documents submitted through the web portal include consultant's reports, building/grading plans, permit applications, fee receipts, etc., and must be in Adobe PDF format. Submittal of hard copy (paper) documents to GMED is no longer required.

Our web application will not accept plan check application numbers for applications filed through Land Development Division and some Contract Cities. For information on submitting these projects, or for any other questions, please contact GMED at GMEDSubmittals@dpw.lacounty.gov, or (626) 458-4923.



Project X
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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/>

YEAR 2017 CONTRIBUTORS NEEDED

Contributions from corporations and individual members are greatly appreciated. Contributors will be listed in our newsletter throughout the year and can post their logo or business card in the newsletter if so desired. Please mail contributions made out to **AEG** to our section treasurer, Pedram Rahimikian.

2017 MEMBERSHIP RENEWAL

For those of you who have not yet renewed **(the deadline is November 1)**, are unsure about your membership status, or did not receive your membership dues statement, please contact AEG Headquarters at www.aegweb.org. You can renew your membership online. Please update your membership if you wish to continue to receive future issues of the newsletter.

EMPLOYMENT OPPORTUNITIES & ADVERTISING

If you would like to post an ad in the newsletter, please contact Ted Zeidan at ted@aessoil.com. Advertisement rates are shown in the box below.

Company & Employment Advertising Newsletter (includes SoCal website posting)	
<u>Quarterly Newsletter</u>	
▪ Business Card	\$50
▪ ¼ Page	\$75
▪ ½ Page	\$100
▪ Full Page	\$200
<u>SoCal website posting only</u>	
\$20/month	

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