

## September 2017 Meeting Announcement

# “Corrosion Evaluations for Geotechnical Engineering: What IS a Corrosion Engineer Looking For?”

**Eduardo Hernandez, PE**

Principal Engineer, Project X Corrosion Engineering

Wednesday, September 20, 2017

Location: Pinnacle Peak Steakhouse, Colton, CA

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RSVP to [ageinland@gmail.com](mailto:ageinland@gmail.com) by **5:00pm, Tuesday, September 19, 2017.**

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A tip of the hat to Dr. Jonathon Matti of the U.S. Geological Survey for his presentation, "San Gorgonio Pass – Where It All Comes Together" at our June 21<sup>st</sup> monthly meeting. If you missed it, this meeting was very well attended by a broad spectrum of members and non-members from students through academia to professionals. Gary Rasmussen was in attendance and I commented to him, "I figured this talk would bring you out of the woodwork". Always nice to see Gary. Dr. Matti covered a lot of ground in the time allotted about the San Gorgonio Pass area which is a "well known structural knot in the San Andreas Fault zone". Geographically, the south southwest-facing escarpment of the Little San Bernardino Mountains above Desert Hot Springs served as a sort of centerpoint for the large area encompassed by Dr. Matti's presentation. I believe this is the second year in a row we've had Dr. Matti as our June speaker heading into our three month summer break and his talks are always well received. Thank you, Dr. Matti and we look forward to having you back.

During the week of June 26<sup>th</sup>, I have received and responded to correspondence from AEG National regarding the setup of our new Chapter. At this point, we have decided Chapter dues will be \$35 in line with the other California chapters and we have received information and clarification on the financial relationship between our Chapter and HQ. So I presume when you renew your membership either later this year or early next year, the Inland Empire Chapter will be one of the options for Chapter dues. We're moving forward.

I read a couple of articles in the June 2017 issue of GSA Today, published by the Geological Society of America, that I thought might be of interest to our members. The first discusses the use of Augmented Reality Field Trips as a way to increase undergraduate interest in the geosciences. While I consider myself old-school when it comes to the use of electronic applications in geologic field work (mostly because I don't understand it all), in my opinion, this paper describes the use of student's Smartphones to supplement introductory geoscience courses, thereby generating interest in the geosciences. The second paper on Color Vision Deficiency and the Geosciences is something I've never really thought about but, it may be appropriate in how you prepare and present your color illustrations in the future. Both papers, along with previously posted articles, are accessible through the following link:

<ftp://dpwftp.co.la.ca.us/pub/GMED/geology/Geologic%20Articles/>

Greg Johnson  
Chair, AEG Inland Empire Chapter

## **Eduardo Hernandez, PE**

Principal Engineer, Project X Corrosion Engineering

### **“Corrosion Evaluations for Geotechnical Engineering: What IS a Corrosion Engineer Looking For?”**

#### **SUMMARY**

Mr. Hernandez will discuss what corrosion engineers need to know to develop their corrosion control recommendations to avoid costly future failures. We'll review how to collect soil samples and where to collect soil samples and the significance of various tests.

#### **SPEAKER BIOGRAPHY**

Eduardo Hernandez, PE is the Principal Engineer at Project X Corrosion Engineering. A native of southern California, Mr. Hernandez graduated from Cal Poly Pomona as a Mechanical Engineer and celebrated by backpacking around the world, ending up getting married in Finland and earning a Masters in Materials Science at Tampere University of Technology in Finland.

He has worked as a foundry intern, university researcher, land development and water resources design engineer at RBF Consulting, a corrosion engineer at Schiff Associates, and a forensic engineer at Vollmer-Gray Engineering Labs. His experience has provided the opportunity to learn from many people's mistakes and to provide advice on avoiding future mistakes.

**AEG-IE**  
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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/chapter/inlandempire>.

Submittals: Deadline, 25<sup>th</sup> of the month. Employment notices, job position announcements, and advertisements can be posted for a minimal fee. Newsletter circulation exceeds 300 people in greater inland areas of Southern California, and elsewhere.

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

# AEG-IE SEPTEMBER MEETING DETAILS

**Date/Time**

Wednesday, September 20, 2017.  
Social hour 5:30 - 6:30  
Dinner 6:30 - 7:15  
Announcements 7:15 - 7:30  
Talk and Q&A 7:30 - 8:30

**Location**

Pinnacle Peak  
2533 La Cadena Drive South  
Colton, CA 92324

**Cost**

\$15/student with RSVP and proof of valid student ID  
\$30/RSVP  
\$35/walk-ins without RSVP  
Parking is free

**RSVP**

[aeginland@gmail.com](mailto:aeginland@gmail.com)

**Deadline is COB Tuesday, September 19, 2017**

(individuals who RSVP but do not attend may be charged if the final attendance does not meet the restaurant guarantee)



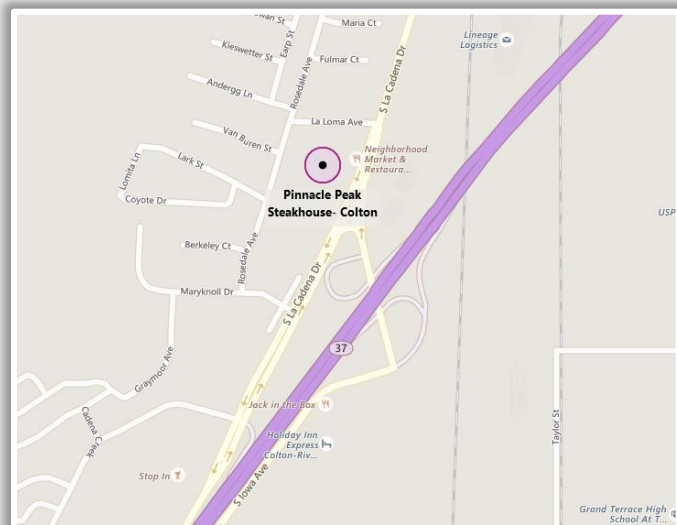
## DIRECTIONS TO MEETING LOCATION

**Directions: From I-215 Heading South:**

1. Exit Barton Road and merge onto La Crosse Ave
2. Turn Right onto Barton Road
3. Turn slight Left onto La Cadena Drive South
4. Destination on right. (2533 La Cadena Drive South).

**Directions: From I-215 Heading North:**

1. Exit South Iowa Avenue.
2. Turn Right onto South Iowa Avenue
3. Continue onto La Cadena Drive South
4. Make a U-Turn at West La Loma Street
5. Destination on right. (2533 La Cadena Drive South).



# Announcement from CGS

The California Geological Survey (CGS) is pleased to announce the release of earthquake regulatory zone maps as a web services product that can be incorporated into your geographic information systems (GIS). Access to these maps via the internet provides an alternative to downloading individual 7.5-minute quadrangle maps that fall within your jurisdiction and maintaining the most up-to-date versions on your systems, although we will still offer that option.

The web-based earthquake hazard zone maps are now available at this URL: [https://spatialservices.conservation.ca.gov/arcgis/rest/services/CGS\\_Earthquake\\_Hazard\\_Zones](https://spatialservices.conservation.ca.gov/arcgis/rest/services/CGS_Earthquake_Hazard_Zones) and include:

- Alquist-Priolo Earthquake Fault Zones
- Alquist-Priolo Earthquake Fault Zone Fault Traces
- Seismic Hazard Zones for Earthquake-triggered Landslides
- Seismic Hazard Zones for Liquefaction
- Seismic Hazard Zones for Overlapping Areas of Landslide and Liquefaction
- Areas not evaluated for Landslide and Liquefaction Hazards.

Attributes included with these data provide links to reports on how the maps were prepared and to the PDF cartographic versions.

Metadata pages are available at:

- [https://maps.conservation.ca.gov/cgs/metadata/SHP\\_Fault\\_Zones.html](https://maps.conservation.ca.gov/cgs/metadata/SHP_Fault_Zones.html)
- [https://maps.conservation.ca.gov/cgs/metadata/SHP\\_Fault\\_Traces.html](https://maps.conservation.ca.gov/cgs/metadata/SHP_Fault_Traces.html)
- [https://maps.conservation.ca.gov/cgs/metadata/SHP\\_Landslide\\_Zones.html](https://maps.conservation.ca.gov/cgs/metadata/SHP_Landslide_Zones.html)
- [https://maps.conservation.ca.gov/cgs/metadata/SHP\\_Liquefaction\\_Zones.html](https://maps.conservation.ca.gov/cgs/metadata/SHP_Liquefaction_Zones.html)
- [https://maps.conservation.ca.gov/cgs/metadata/SHP\\_LQLS\\_Overlap\\_Zone.html](https://maps.conservation.ca.gov/cgs/metadata/SHP_LQLS_Overlap_Zone.html)
- [https://maps.conservation.ca.gov/cgs/metadata/SHP\\_Unevaluated.html](https://maps.conservation.ca.gov/cgs/metadata/SHP_Unevaluated.html)

Access to the 7.5-minute quadrangle tile data is still available through the CGS Information Warehouse (<http://maps.conservation.ca.gov/cgs/informationwarehouse/>). These data include GIS Shapefiles and metadata, GeoPDF cartographic maps, as well as associated reports.

Also to be released in the next few weeks is a GeoApp that will include these zone maps and incorporates statewide parcel data, which will allow users to determine very quickly whether any particular property is included within these regulatory zones.

If you have any questions or comments on these new web services please contact Tim McCrink, CGS Seismic Hazards Program Manager, at (916) 324-2549 or [Tim.McCrink@Conservation.ca.gov](mailto:Tim.McCrink@Conservation.ca.gov).

John G. Parrish, Ph.D., PG  
State Geologist  
California Geological Survey

**AEG-Southern California Section**

For more information visit: <http://www.aegsc.org/>

**AEG-Inland Empire Section**

Dinner Meetings are usually held every 3rd Wednesday of each month at Pinnacle Peak Steakhouse, 2533 La Cadena Drive South, Colton, CA 92324, 5:30pm-8:30pm. \$10/\$25/\$30 student/reservation/walk-in. Parking is free.

- September, NOT on break for the summer. We decided to return a month early!
- October, keep your eyes peeled for our meeting announcement.

For more information visit: <http://www.aegsc.org/chapters/inlandempire/>

**ASCE (Los Angeles Section)**

Life Member Luncheon Meeting at ASCE LA Office, 1405 Warner Ave., Suite B, Tustin, CA 92780 are typically held every 1<sup>st</sup> Thursday of the month.

For more information visit: <http://www.ascelasection.org/>

**ASCE (Orange County Branch)**

- September 20, 2017, 5:00pm-7:00pm— YMF Board Meeting. Held at Jacobs Engineering, 3161 Michelson Dr., #500, Irvine, CA 92626. OPEN to ALL.
- September 21, 2017, 10:30am-12:00pm— Joint Luncheon with UESI presents “Newport Beach Forced Main Project- Underground Utilities”. Held at The Center Club, 650 Town Center Drive, Costa Mesa, CA 92626.
- September 26, 2017, 5:00pm-7:00pm— YMF presents “Understanding the Legal Aspects of Civil Engineering”. Held at the HNTB Office, 200 Sandpointe Ave, #200, Santa Ana, CA 92707.

For more information visit: <http://www.asceoc.org/>

**ASCE (San Bernardino-Riverside County Branch)**

For more information visit: [http://www.asce-sbriv.org/asce\\_new/calendar.html](http://www.asce-sbriv.org/asce_new/calendar.html)

**ASCE (San Diego Section)**

- September 19, 2017, 6:00pm-8:00pm— General Meeting. Held at Soda & Swine, Liberty Station. \$10/\$15/\$20 student/YMF members/non-members.

For more information visit: <http://www.sandiego-ymf.org/events.html>

**CalGeo**

- January 20, 2018— South Loss Prevention Seminar presents “Loss Prevention Begins with You!”. Held at Embassy Suites Santa Ana, 1325 E. Dyer Rd., Santa Ana, CA 92705.

For more information, visit: [www.calgeo.org/](http://www.calgeo.org/)

**EERI (San Diego)**

For more information, visit: <http://sandiego.eeri.org/>

**GRA (San Diego Branch)**

- September 27, 2017, 12:00pm-1:00pm— GRACast presents “Remediation of Poly- and Perfluoroalkyl Contaminants using In Situ Chemical Oxidation: A Laboratory Study”. \$0/\$75/\$100 student/earlybird/non-member.

For more information, visit [www.grac.org/events](http://www.grac.org/events)

(continued on next page)

**IGS**

Dinner Meetings are usually held every 1<sup>st</sup> Thursday of each month at LSA Associates, 1500 Iowa Ave, Suite 200, Riverside, CA 92507. 6pm-7:45pm. \$12/\$15 reservation/walk-in. Parking is free.

For more information visit: <http://www.inlandgeo.org/>

**LA Basin**

Lunch Meetings are usually held every 4<sup>th</sup> Thursday of each month at The Grand at Willow Street Conference Center, 4104 East Willow Street, Long Beach, CA, 11:30am-1pm, 562-426-0555. \$5/\$20/\$25/\$30 student/retired/reservation/door.

- September 21, 2017— Lunch Meeting, Dr. Richard Laton presents “Low Altitude Photography Utilizing UAVs: Geologic and Hydrologic Applications”.

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

**SCGS**

- October 2, 2017, 6:00pm-9:00pm— Monthly Meeting, Dr. Sean Lloyd presents “Salt dome cap rock calcite formation by the anaerobic oxidation of methane”. Held at Dave & Busters, 20 City Blvd West, Orange, CA 92868. \$0-\$35.

For more information visit: <http://www.southcoastgeo.org/meetings.shtml>

**SME**

Meetings are usually held twice a year, one in the spring and one in the summer. No meetings have been announced for 2017.

For more information visit: [www.mine-engineer.com/socalmining/](http://www.mine-engineer.com/socalmining/)

**SDAG**

Meetings are usually held every 3<sup>rd</sup> Thursday of each month at Geocon Incorporated, Upstairs Lounge, 6960 Flanders Dr., San Diego, CA 92121, 858-558-6900. Social hour starts at 5:30pm, with dinner following at 6:15pm. \$15/\$30/\$35 students/members/non-member.

- September 20, 2017— Monthly Meeting, Drake Singleton and Dr. Tom Rockwell presents “Late Holocene Earthquakes on the Rose Canyon Fault”.

For more information visit: <http://www.sandiegogeologists.org/Meetings.html>

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## AEGF SCHOLARSHIP OPPORTUNITIES

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](http://www.aegfoundation.org).

We encourage students to apply for Foundation scholarships. Applications are only accepted online at [www.aegfoundation.org/applications](http://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](http://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.

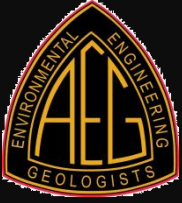
- **BEARDSLEY-KUPER FUND:** This scholarship was established in 2009 by Cathryne Beardsley with her daughter Dorian Kuper and son-in-law Tom Kuper. The fund provides financial support for field camp tuition and expenses.
- **CAROLINAS SCHOLARSHIP FUND:** This scholarship fund was established in 2015 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.



# YOUR AEG OFFICERS

2016-2017

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## AEG MEMBER BENEFITS

### ◆ Conferences -

You will find value at both Annual Meetings and Specialty Conferences and in the technical knowledge and continuing education you receive at these meetings.

([More Info](#))

### ◆ Networking Opportunities -

With over 3000 members, AEG provides you with access to a wide network of Environmental and Engineering geology professionals at both our local section meetings and at national conferences. ([More Info](#))

### ◆ Publications -

*AEG News*, the Environmental & Engineering Geoscience Journal, and the *AEG Insider* contain relevant geoscientific information, updates on AEG activities, and engaging scientific interest stories. ([AEG News](#)) ([AEG Insider](#))

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

REMEMBER:

- Student Membership is **FREE!**
- Graduating student receive their first year of full membership for FREE as our Graduation Gift to you (Contact us at [aeg@aegweb.org](mailto:aeg@aegweb.org) to receive your gift)

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, please call one of our officers.