

# AEG Inland Empire Chapter Newsletter

of the Southern California Section

January 2013 Vol.9 No. 4

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

## January Meeting & Speaker Announcement

### *“Quaternary structure and stratigraphy of the Century City/Cheviot Hills area associated with interactions of the Santa Monica and Newport-Inglewood Fault Zones, California ”*

**Dr. Miles Kenney,**

Kenney Geoscience

Wednesday, January 16, 2013

Temecula Public Library, Temecula, CA

RSVP to [aeginland@gmail.com](mailto:aeginland@gmail.com) by Monday January 13, 2013

See pages 3 & 4 for more meeting details

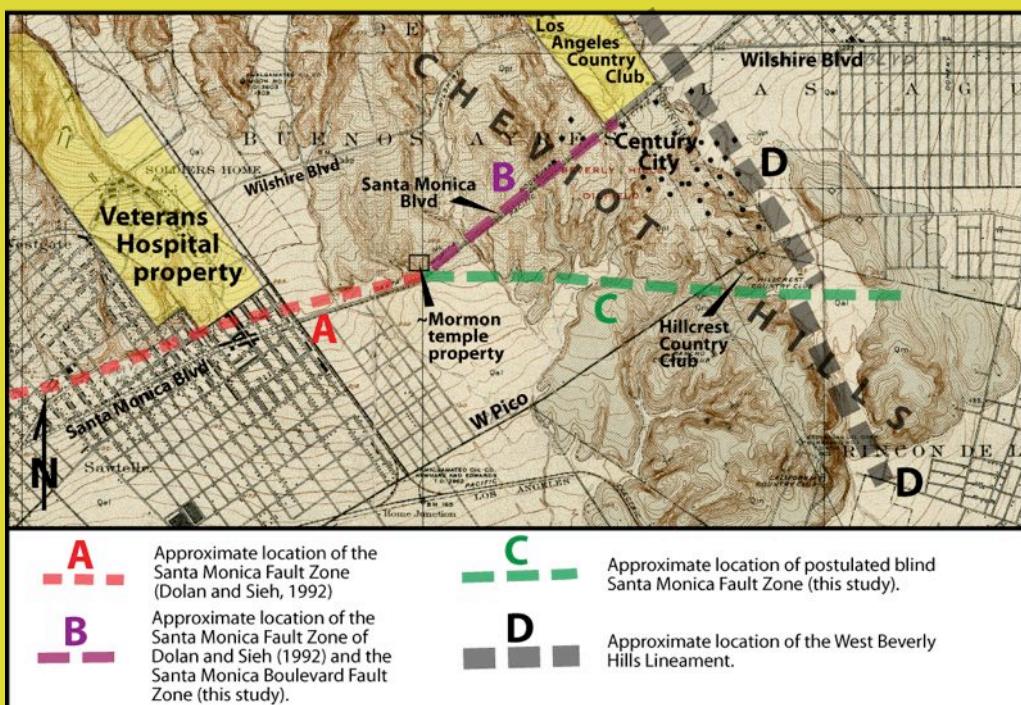


Figure: Proposed faulting in the Cheviot Hills

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Holiday greetings to you all! I hope Santa was good to all the geo's out there and new Brunton's, rock picks or Dibble maps were under the tree for everyone! We all know how quickly time passes so it's hard to believe it's already time to ring in a new year. 2012 has been a great one overall and 2013 promises to be even better, fiscal cliff and the federal government notwithstanding! I was very glad and encouraged to see so many of you turn out for our last meeting in early December where we hosted Dr. Doug Yule from Cal State Northridge who presented his latest research and fault trench conclusions along the San Andreas fault system in the San Gorgonio pass "knot". It was quite a tight squeeze to fit everyone into what they considered a "banquet room" but I thought the prime rib was excellent and Dr. Yule's talk was well received by all. By the looks of the past few meetings we have had a nice increase in membership attendance by all of you practicing professionals and I thank everyone present for taking part in our local chapter. The more we can serve your ongoing professional educations the more we can grow AEG as a whole.

Even with the holiday season coming to a close we have not forgotten to bring you a great speaker for this upcoming month. We are pleased to host Dr. Miles Kenny, consulting geologist, who will give us a talk on his recent faulting and structural geology work in the general area of Beverly Hills. I know this is not very local to our Inland

Empire area of study but Dr. Kenny is a great speaker and his work in the project area has some controversial aspects to it. We will host this meeting at the Temecula public library with catering by Pat N Oscars but I'm sorry to note that no beer is allowed in the library. I hope to see many of you IE geologists in about 3 weeks!

In February we will hold a joint meeting with the AEG LA Section most likely in the Pomona area with the presentation by the 2013 AEG/GSA Jahns Distinguished Lecturer Dr. Jim McCalpin. This is a must see event for all professionals and students as the Jahns lecturer is one of the better presentations of our year. Following that we will host Dr. David Lynch with the USGS Earthquake Science Center in Rancho Cucamonga during March and our annual field trip is still tentatively planned for mid-April.

See you in January at the Temecula Library



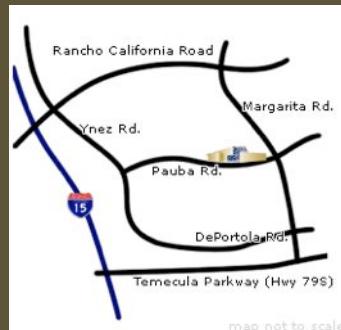
Since we won't host a meeting in the Temecula area for several months after this January meeting make sure you take advantage of this opportunity for all you southern Riverside County folks to make an event without having to drive too far! Don't be afraid to invite a young geologist or someone else you may know who has an interest in geology to our meetings.

Seasons Greetings,

Douglass Johnston,

Chair, AEG Inland Empire Chapter

#### JANUARY MEETING LOCATION



See detailed map on page 3



## ***“Quaternary structure and stratigraphy of the Century City/Cheviot Hills area associated with interactions of the Santa Monica and Newport-Inglewood Fault Zones, California ”***

### **ABSTRACT**

In 2011 Kenney GeoScience (KGS) was retained by the Beverly Hills Unified School District to provide a geologic evaluation of the Century City/Cheviot Hills area with an emphasis on Quaternary fault structure and stratigraphy. A geomorphic evaluation was performed in addition to utilizing data derived from numerous recent site-specific geologic studies completed by various parties within the Century City/Cheviot Hills area. The Century City/Cheviot Hills area has long been a subject of great geologic interest because of its location near the intersection of the Santa Monica, Hollywood, and Newport-Inglewood Fault Zones and specific local topographical features including the West Beverly Hills Lineament. Prior to 2011, the closest paleoseismic fault study conducted on the Santa Monica Fault Zone was approximately 2 miles west of Century City. The West Beverly Hills Lineament represents a north-northwest trending east-sloping escarpment located on the western edge of the City of Beverly Hills.

It is proposed that the eastern left-lateral reverse Santa Monica fault zone (SMFZ) extends into the southern Cheviot Hills and thus south of Santa Monica Boulevard as a blind fault causing uplift of the hills to the north. Hence, Century City occurs in the hanging wall of the SMFZ. A fault zone does occur along Santa Monica Boulevard in Century City as proposed by Dolan and Sieh (2000) however this fault is a “secondary” right-lateral normal

oblique upper plate (hanging wall) fault residing above the basal SMFZ. In this model the eastern end of the SMFZ may extend east of the West Beverly Hills Lineament and link with the northwestern extension of the Compton Thrust. Accordingly, the Newport-Inglewood fault zone is proposed to extend beneath the SMFZ in the Century City/Cheviot Hills area. Movement across Newport-Inglewood and SMFZ has caused folding (uplift) in the Century City area concurrently with erosion from Benedict Canyon which produced the West Beverly Hills Lineament.



Miles Kenney

### **Speaker Biography**

Dr. Kenney has over 20 years of professional experience working as a Geologist in the southwestern United States. Areas of expertise include fault hazard evaluation (paleoseismology), desert landscapes (alluvial fans, aeolian systems - dunes), basin scale stratigraphy (assists in groundwater studies), structural geology,

stratigraphy, and neotectonics. Miles Kenney earned a Bachelors in Science degree from San Diego State University in 1989 with a Geology Major and minor in Chemistry. He then worked for Leighton and associates for 5 years as a geotechnical geologist primarily involving numerous fault investigations of the Elsinore Fault Zone working with Dr. Tom Rockwell and taking a million sand cone density tests on various grading projects! From 1994 to 1999 Miles went to the University of Oregon working with Dr. Ray Weldon and completed his doctorate degree. His dissertation involved the evaluation of the subsurface structure of the San Andreas, San Jacinto and Cucamonga fault zones in the San Gabriel Mountains. After receiving his PhD, Miles then worked for Earth Consultants for over a year then began teaching at San Diego State University and various community colleges in San Diego County. From 2002 to 2009 Dr. Kenney worked at Petra Geotechnical as their fault hazard specialist managing numerous fault investigation studies in southern California. From 2009 to the present time he has worked as an independent Geologic consultant. Recent projects have involved structural evaluation of Basin and Range structure in the Mojave desert for groundwater storage projects (Cadiz Groundwater and Storage Project), evaluation of sand dune systems regarding dust emissions and preservation of habitat (numerous solar energy projects and the Los Angeles Department of Energy and Power).

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Frank Jordan, 2005, 2011;  
Douglas Johnston, 2010;  
Kerry Cato, 2009;  
Mike Cook, 2008;  
Rick Gundry, 2007;  
Gary Wallace, 2006

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

# AEG-IE January Meeting Details

**Date & Time**

January 16 (Wednesday)

Social hour 6:00 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**

Temecula Public Library, Temecula, CA  
30600 Pauba Rd., Temecula, CA, (951) 693-8900

- Social/Dinner: Community Room A
- Presentation: Community Room A

**Meal**

**Dinner Menu (catered by Pat n' Oscars Restaurant):**

-Hot breadsticks	-Barbeque Ribs
-Baked Chicken	-Greek Salad
-Baked pasta	-Non-alcoholic drinks and water
-Cookies	

**Cost:**

Professionals \$25; Students \$10

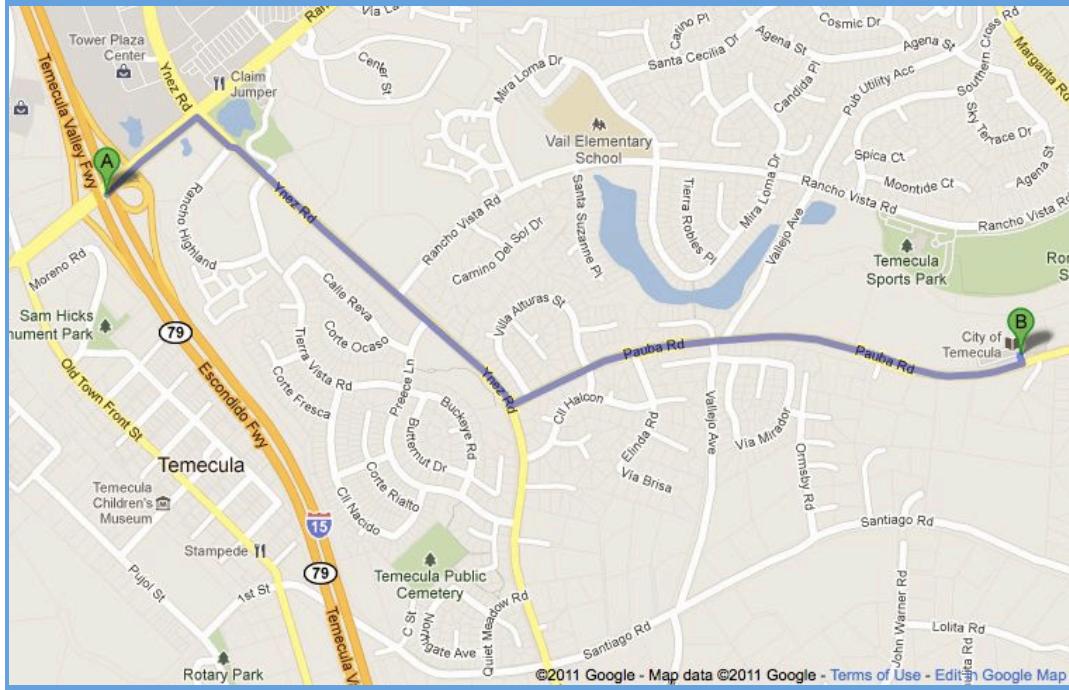
**RSVP:**

RSVP by COB Monday January 13, 2013; email: [aeginland@gmail.com](mailto:aeginland@gmail.com)

## DIRECTIONS

From I-15, EXIT at Rancho California Rd. and proceed 0.2 miles northeast to the first light at Ynez Rd and take a right (south). Proceed 0.8 miles southeast on Ynez to the third light at Pauba Road. Take a left on Pauba Rd. and proceed 0.9 miles northeast. The Temecula Public Library is the large building on the north side (left) of the road.

Go through the Library's main sliding glass door entrance and Community Room A will be on the right past the large glass sculpture.



## OTHER MEETINGS

**AEG-Southern California Section:** January 17, 2013 (Thursday): Topic & Speaker: **TBD**. Location: Stevens Steak House, Commerce, CA. For more information visit: : <http://www.aegsc.org/>

**ASCE:** (San Bernardino-Riverside Branch): **ASM-ASCE-NACE TEMECULA COMBO MEETING** Topic: *“Opportunities to support water infrastructure through the integrated regional water management program plans.”* Speaker: **Mark Norton**, Santa Ana Watershed Project Authority. For more info visit: <http://www.asce-sbriv.org/index.html>.

**GRA** (*Central Coast Branch Meeting Dinner*): January 9, 2013 (Wednesday). Topic: *“Update on Water Treatment Technologies for Chromium, Perchlorate, and Nitrate.”* Speaker: **Dr. Nicole Blute**, Hazen and Sawyer. Location: UC Santa Barbara, Bren Hall room 1424. For more info visit: <http://www.grac.org/>.

**IGS:** January 10, 2013 (Thursday). Topic: *“Quaternary volcanic history of the Long Valley Caldera and Mono Craters.”* Speaker: **Dr. Steve Lipshie**, Retired, L.A. County, Department of Public Works. For more info visit <http://www.inlandgeo.org/>.

**LABGS:** January 24, 2013 (Thursday). Topic: *“Hydraulic Fracturing and Groundwater: A Perspective from a LA Water District”*, Speaker: **Ted Johnson**, Chief Hydrogeologist of the Water Replenishment District of Southern California. For more info visit: <http://www.labgs.org/>.

**SCGS:** January 14, 2013 (Monday), Topic: *“Geoethics: Past, Present, Future.”* Speaker: **Eleanora (Norrie) Robbins**, SDSU Department of Geological Sciences. For more info about SCGS visit: <http://www.southcoastgeo.org/>.

**EERI, SDAG, & SEAOSD:** January 16, 2013 (Wednesday). Topic: *“NRC Regulations for Seismic Analysis and Design Applied to San Onofre Nuclear Generating Station.”* Speakers: **2 NRC Speakers**. Location: Grand Pacific Palisades Resort and Hotel, 5805 Armada Dr., Carlsbad, CA 92008 (<http://www.grandpacificpalisades.com/>). For further information and registration please visit this website: <https://eeri.org/cohost/registration/eeri-san-diego-jan-16th-dinner>.

**CHANNEL ISLANDS RESTORATION:** March 14 – 18 (Thursday – Monday). Since the Inland Empire Chapter was interested in forwarding info about our trip to the White Mountains last year, we thought you might also like to tell people about our upcoming **Trip to Death Valley National Park!** Tanya Atwater will be co-leading this trip. Thanks, Ken Owen Channel Islands Restoration. More info at: <http://www.cirweb.org/dv/> SEE ATTACHED BROCHURE

## ANNOUNCEMENTS

### New Alquist-Priolo Zoning - Sierra Madre Fault

**Jerry Treiman**, of the California Geological Survey, is developing recommendations for the establishment of new Alquist-Priolo regulatory zones around strands of the Sierra Madre and related faults in the Azusa quadrangle. Faults under consideration include the Sierra Madre, Duarte and Clamshell-Sawpit faults. If you have any information with regard to the location and activity of fault traces in this area Jerry would be interested in hearing from you. **He will be attending our January meeting to discuss his findings before or after the talk.** If you cannot attend you can contact him at CGS by phone (213-239-0889), email (Jerry.Treiman@conservation.ca.gov) or U.S. mail (Jerry Treiman/California Geological Survey/ 888 S. Figueroa St., suite 475/Los Angeles, CA 90017)



Map of Greater Los Angeles, depicting selected major faults and the region in northern metropolitan Los Angeles being squeezed by movements of Earth's tectonic plates. Image credit: NASA/JPL.

### FHWA Information Website

The Federal Highway Administration (FHWA) recently launched a new information-sharing website designed to help local public agencies and state departments of transportation manage their Federal-aid Highway Program projects. The Federal-aid Essentials for Local Public Agencies site, at <http://www.fhwa.dot.gov/federal-aidessentials/index.cfm>, offers a central online library of informational videos and resources, designed specifically for local public agencies. Each video addresses a single topic—condensing the complex regulations and requirements of the Federal-aid Highway Program into easy-to-understand concepts and illustrated examples.

FHWA would like to get the word out to AEG members about this great new resource. I am attaching four articles of varying lengths for consideration on your website or in the AEG News. I appreciate any help you can provide in reaching out to your members.

Steve Moler, Public Affairs Specialist, Federal Highway Administration, Office of Public Affairs, Office of Public Communications, 201 Mission Street, Suite 1700, San Francisco, CA 94105, Office: 415-744-3103, Fax: 415-744-2620

## ANNOUNCEMENTS (cont.)



### FIRST MEETING OF THE CALIFORNIA EARTHQUAKE CLEARINGHOUSE

When: Wednesday, February 20<sup>th</sup>, 2013 10:00 a.m.– 2:00 p.m.

Where: Cal EMA offices - 3650 Schriever Ave., Mather, CA

Or

Participate via the web (Information TBD)

For directions, please visit

[https://maps.google.com/maps?safe=active&ie=UTF-8&q=3650+schriever+ave,+mather,+ca&fb=1&gl=us&hnear=0x809add04d3e5f3ed:0x94bf4e65c74e2554,Rancho+Cordova,+CA&cid=0,0,10062068289766475572&ei=dqjvTc2YEYL4sAPu5ICABw&oi=local\\_result&ved=0CBoQnwIwAA](https://maps.google.com/maps?safe=active&ie=UTF-8&q=3650+schriever+ave,+mather,+ca&fb=1&gl=us&hnear=0x809add04d3e5f3ed:0x94bf4e65c74e2554,Rancho+Cordova,+CA&cid=0,0,10062068289766475572&ei=dqjvTc2YEYL4sAPu5ICABw&oi=local_result&ved=0CBoQnwIwAA)

The Clearinghouse is a location where, after a damaging earthquake, engineers, geologists, seismologists, sociologists, economists, and other professionals who arrive in the affected area to investigate such things as ground failure, structural damage, social or financial impacts of devastation, or simply to lend a hand can become part of a larger, temporary organization (the Clearinghouse) to facilitate the gathering of information, maximize its availability, and better use the talents of those present.

A full agenda will be provided in the next few weeks, however, the meeting will include information about the upcoming **May 2013 Golden Guardian exercise** planned for the Bay Area, as well as an update of our efforts to implement the Unified Incident Command & Decision Support (UICDS) data sharing middleware in support of a virtual Clearinghouse. To learn more, please visit <http://www.eqclearinghouse.org/CA/>

**Anne Rosinski PG 7481, CEG 2353**, Senior Engineering Geologist, California Geological Survey  
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A Northridge garage.



[Click to view this email in a browser](#)

## 8 Spots still open on the CIR Death Valley Trip March 14 - 18

[www.cirweb.org/dv](http://www.cirweb.org/dv)



Join Channel Islands  
Restoration for our second  
Death Valley National Park  
camping trip with Tanya  
Atwater, Steve Junak and  
Jared Dawson!



Encompassing 3 million acres  
of desert, (95% as designated  
wilderness), Death Valley is the  
largest national park in the  
United States, south of Alaska.  
It is also an island of amazing  
geologic features, abundant  
wildflowers, desert wildlife,  
historic sites, sublime scenery,

For more information and to register, visit the trip  
website: [www.cirweb.org/dv](http://www.cirweb.org/dv)



and clear night skies.

Death Valley National Park is a superlative desert of streaming sand dunes, snow-capped mountains, multicolored rock layers, water-fluted canyons. It is Home to the Timbisha Shoshone people and to plants and animals unique to the harshest desert.

Geology, botany and wildflowers will be the main focus of this trip – the second outing to the park sponsored by Channel Islands Restoration.

We are fortunate to have as our leaders Dr. Tanya Atwater, Emeritus Professor of Geology from UCSB, and Steve Junak, herbarium curator from the Santa Barbara Botanic Garden. They will share their vast knowledge gained from their lifetimes of research and numerous trips to Death Valley. Additional naturalists will join us to cover birds and other specialties.

We will also be joined by Jared Dawson, who leads birding trips for the Santa Barbara Audubon Society

For more information and to register, visit the trip web site:  
[www.cirweb.org/dv](http://www.cirweb.org/dv)





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