

ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS

Inland Empire Chapter NEWSLETTER – August 2024

Inland Empire Chapter 2024 Officers

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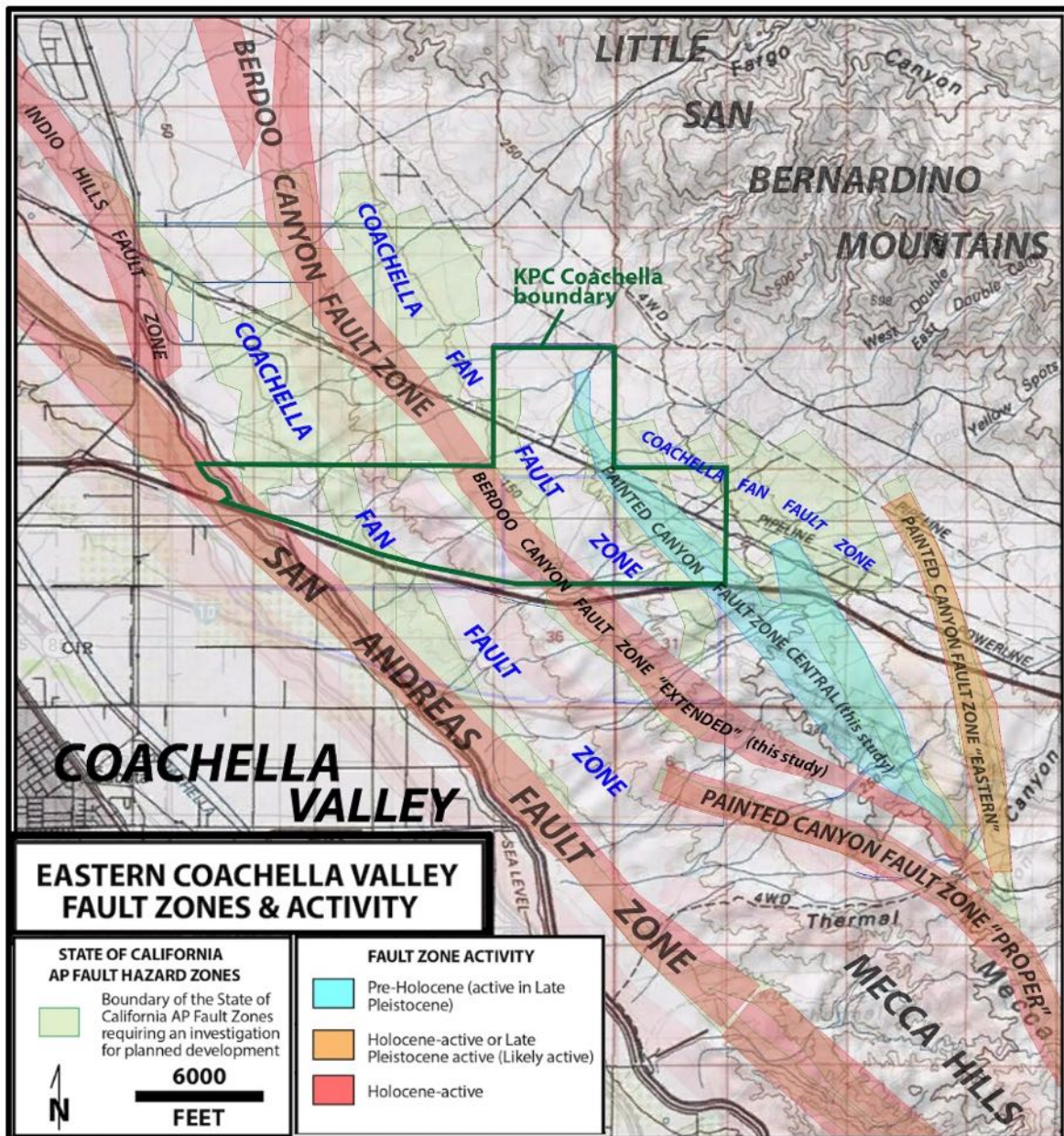
Inland Empire Chapter News

- AEG Inland Empire Chapter would like to again thank the four graduate students who presented their research at the Chapter's inaugural student night held in June: Gideon El Hiri and Sevag Injean both from CSU San Bernardino; and Chris Jones and Terry Li, both from UC Riverside.

Our latest "south" meeting was held on July 17, 2024, for our first visit to The Mexico Cafe restaurant on Pechanga Parkway in Temecula, CA. We were honored to welcome Dr. Miles Kenney PhD, PG of Kenney GeoScience from Del Mar (San Diego region) CA to discuss his extensive studies and work along the Coachella Fan fault zone (CFFZ) between the Indio Hills and the Mecca Hills of Riverside County, California. Dr. Kenney took us on a whirlwind tour covering several thousands of acres of alluvial fans impacted by the southern segment of the San Andreas fault zone system (See last month's "cover page" on page 2, has a graphic for fault detail explanation). Of note, the Painted Canyon "central" fault zone (PCCF) is a newly identified strike-slip fault within the Coachella fan area between the Indio Hills and the Mecca Hills as well as an additional strike-slip fault zone that was proposed in the northeastern limits of the CFFZ referred to herein as the Painted Canyon "eastern" strand, activity TBD. The study mapped an extension of the Berdoo fault, thus linking previously disconnected strands. Also, of great interest are the differences between Mode 1 faulting (dip-slip faults with strikes generally parallel with topographic contours resulting from lateral spreading [lower elevations] and land sliding [upper elevations], versus Mode 2 faulting (northwest trending strike-slip fault zones previously unrecognized in the region). Because of the interesting post-talk discussion this talk generated, everyone remained around and our host literally had to kick us out the door to close the restaurant!

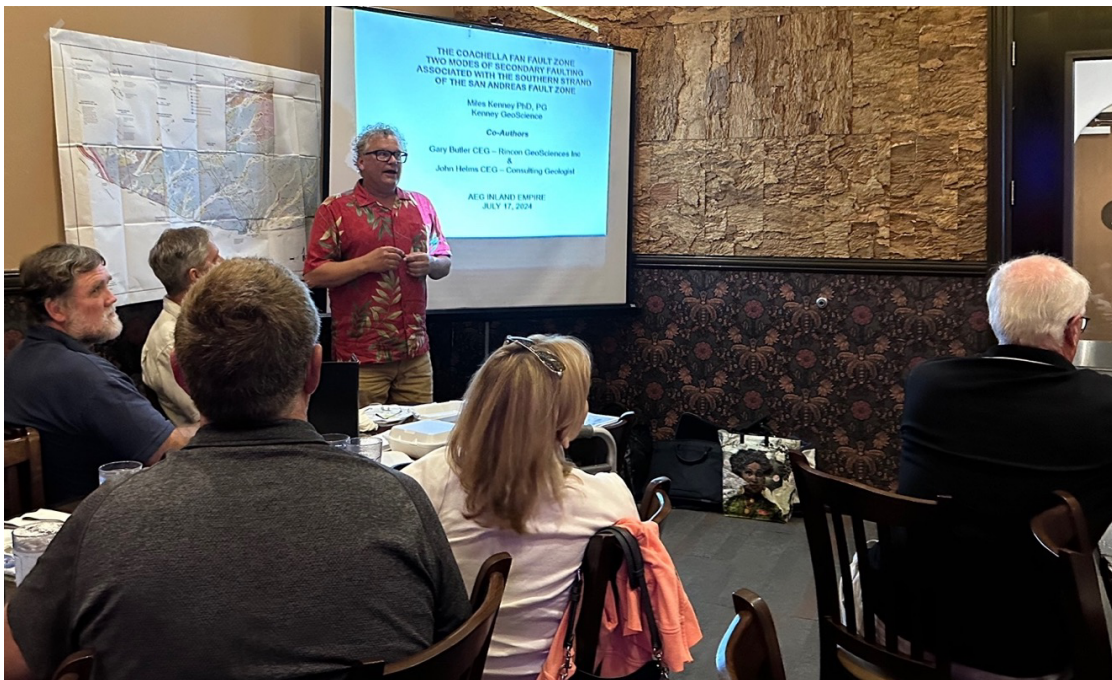
For the Inland Chapter's upcoming August 21, 2024 meeting event, we will return to the February meeting venue, Johnny Carino's Italian restaurant in Eastvale, CA. We are very pleased to welcome Mr. John Diehl, PE and owner of GEOVision, Corona CA, one of the most reputable geophysical consulting firms providing services across the United States. His

presentation will provide updates on the state-of-the-art geophysical tools and techniques that support geologic and geotechnical site characterization investigations. See details on page 5.



Graphic from the July presentation by Miles Kenny, Gary Butler, and John Helms.

August 2024



Guest speaker Dr. Miles Kenney, Ph.D., PG of Kenney GeoScience presenting at AEG-Inland Empire Chapter's July dinner meeting, Temecula, CA.

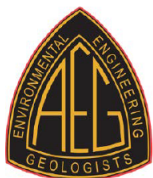


AEG-Inland Empire local area members in attendance at the July 2024 Chapter Meeting.

August 2024



Dr. Kinney discussing his many fault study findings in the Coachella Fan fault zone (CFFZ). Many of these findings subsequently led to the State of California to update their Alquist-Priolo Earthquake Fault Zone maps.



ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS

AUGUST MEETING ANNOUNCEMENT

Greetings AEG Inland Empire Chapter Members

We hope you will join us for our **eighth 2024 AEG Inland Empire** meeting. The meeting will be held **Wednesday, August 21**, at **Johnny Carino's Italian Restaurant**, in **Eastvale** this a "north" venue of our roving AEG-IE meeting locations. **Looking forward to seeing you there!**

Meeting date:

Wednesday, August 21

Location: Johnny Carino's Italian Restaurant,

12447 Limonite Ave, Eastvale, CA 91752

Time: 5:30 pm Social Hour

6:30 pm Dinner

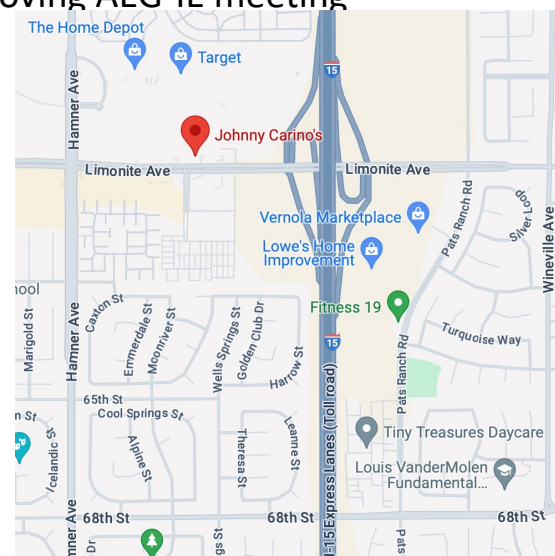
7:15 pm Presentation

Cost: \$45 per person with advance reservations for AEG members, \$50 without reservations (at the door) and non-members, \$10 for students with a valid student ID and current AEG Student membership.

Food: From Johnny Carino's Italian Restaurant

RSVP: Please email AEG-IE at: ageinland@gmail.com. Or reply to this email!

Please make reservations prior to Noon 12 p.m., Monday, August 19.



Speaker and topic:

Our speaker will be **Mr. John Diehl, GeoVision**, who will present

**"Geophysical tools and techniques that support
Geotechnical Investigations"**

See more presentation details on the following page

Title: **“Geophysical tools and techniques that support Geotechnical Investigations”**

Speaker: **Mr. John Diehl, PE**



Abstract: Geophysical tools and techniques can provide a variety of measurements and information about the subsurface that can dramatically improve our understanding of the physical properties of the rock and soil beneath our feet. In this presentation, John Diehl, President of GEOVision Geophysical Services will review multiple geophysical techniques that all Engineering Geologists should know including:

- Surface Wave surveys for Vs30 site characterization
- Seismic refraction for rippability
- Seismic reflection for shallow fault mapping
- Borehole techniques to measure shear wave velocity

Case studies and examples from actual projects will be shown and explained.

Speaker Bio: John Diehl received his BSME in 1976 from California State Polytechnic Institute of Pomona. His MSCE was received in 1977 from UCLA, where he also attended to receive his MBA in 1988. With two partners, he co-founded GEOVision in 1995, which nearly 30 years later is one of the most respected geophysical consulting firms in the United States. During his career, he has authored or co-authored over 30 publications, focusing primarily on geophysical instrumentation and geophysical testing. He is a lifetime member of ASCE and is a Professional Engineer in the state of California.