

Association of Environmental and Engineering Geologists Inland Empire Chapter, Southern California Section

c/o Cato Geoscience, Inc.
P. O. Box 89130
Temecula, CA 92589
Newsletter Editor: Rick Gundry

www.aegsc.org/chapters/inlandempire
www.aegsc.org
www.aegweb.org
kerry@catogeoscience.com

April 3, 2009

Vol. 5, No. 4

AEG Inland Empire Chapter **April Monthly Meeting** Co-sponsored by Cal Poly Pomona Geology Club & Geological Sciences Department

GSA/AEG 2009 Jahns Distinguished Lecturer in Engineering Geology: Dr. Ed Medley

"The Least You Should Know About Characterizing Geological Chaos: Bimrocks"

Wednesday, April 15, 2009

5:15 – 6:15	Social	Kellogg Center
6:15 – 7:30	Dinner	Kellogg Center
7:30	Announcements/Speaker	Kellogg Center

Location

Cal Poly Pomona, Kellogg West Conference Center

(Meeting Cost \$30 Professionals, \$10 Students with Student ID)

(Fund raising donation suggested is \$5.00, or more)

(RSVP, Directions & Map on last 2 pages of Newsletter)

Chapter Chair
Dr. Kerry Cato
Cato Geoscience, Inc.
(951) 834-2619
kerry@catogeoscience.com

Vice Chair North
Frank Jordan
John R. Byerly, Inc.
(909) 877-1326
Geo.Jordan@gmail.com

Vice Chair South
Mitch Bornyasz
Strata-Vista
Mitch@Strata-Vista.com

Treasurer
Ernie Roumelis
AKW, Inc.
akwgeotechnical@verizon.net

Secretary
David Gaddie
David@johnrbyerlyinc.com

This Month's Speaker

Dr. Ed Medley
Geosyntec Consultants, Oakland

Abstract

Bimrocks present major challenges to geopractitioners because successful and economical characterizations of rock/soil mixtures are frustrated by their geological, spatial and mechanical variability. This lecture presents broad concepts on characterization, design and construction in bimrocks that have been provocative, yet useful, to geopractitioners around the world.

Program Chairman
Newsletter Editor,
Rick Gundry

Webmaster,
Dr. Kerry Cato,
Cato Geoscience, Inc.
kerry@catogeosciece.com:

Field Trip Chairman
Mark Spykerman, Earth Systems
Southwest,
mspykerman@earthsyst.com:

Membership Chairman
Richard Orr, Leighton Group,
Rorr@leightongroup.com:

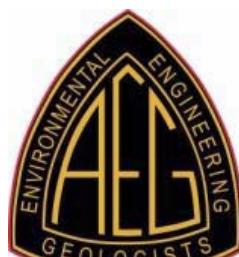
Past Presidents; Frank Jordan,
2005; Gary Wallace, 2006; Rick
Gundry, 2007, Mike Cook, 2008.

The AEG Inland Empire Chapter *Newsletter* a monthly publication of Inland Empire Chapter of the Southern California Section, Association of Environmental and Engineering Geologists. For more information visit websites shown in Newshead page 1 or for Officers, page 2.

Submittals: Deadline, 28th of the month. Employment notices, job position vacancy announcements no cost.

E-Mail Address changes: Send e-Mail to:
kerry@catogeoscience.com.

Advertisements: *Newsletter* circulation about 170 in greater inland areas of southern California, and elsewhere. Advertisements welcome.



**INLAND
EMPIRE
CHAPTER**

Speaker

Edmund Medley, Ph.D., P.E., C.E.G., F.ASCE is the **2009 Richard H. Jahns Distinguished Lecturer in Engineering Geology**. The selection committee for this award is composed of representatives of the **Association of Environmental and Engineering Geologists** (AEG) and the **Engineering Geology Division of the Geological Society of America** (GSA). The award was established in 1988 to commemorate Professor Jahns (1915-1983), who had an influential and diverse career in academia, consulting and government.

Dr. Medley is a Senior Consultant in the Oakland, California office of **Geosyntec Consultants**, an international consultancy renown for innovative solutions to geoengineering and environmental problems. Dr. Medley started work in the Applied Earth Sciences in 1969, and now has over 30 years of unusually varied international experience in geotechnical and geological engineering consulting, mineral exploration prospecting, failure investigation, project management, litigation testifying, academic research, teaching, and lecturing. He has an international reputation for his pioneering research into the engineering and geological characterization of bimrocks (block-in-matrix rocks), complex geological mixtures of rock and soil such as melanges, fault rocks, weathered rocks, tills, and colluvium.

Dr. Medley also has experience evaluating geotechnical/geological engineering vulnerabilities and the causes of civil engineering failures, and has provided testimony for attorneys, insurance companies, contractors, and municipal clients. Projects include investigation of major landslides, rockfall hazards, expansive/collapsing soils, tunnel failures, coastal erosion, sinkholes and other ground movements in California, Nevada, District of Columbia, Hawaii, Guam, and Papua New Guinea. He is licensed as an engineer and geologist in the USA, Canada and the United Kingdom.

In 1978, graduating from the Univ. British Columbia, Dr. Medley was the first awardee of the *Aro A. Aho Memorial Medal for Academic Excellence in Geological Engineering*. He was the AEG Marliave Scholar in 1993, awarded for outstanding scholarship in Engineering Geology and Geological Engineering.

What Are “Bimrocks”?

(Reference: www.bimrocks.com by Ed Medley)

“Bimrocks” are block-in-matrix rocks, mixtures of stronger blocks of rock surrounded by weaker matrix rocks. Bimrocks are geologically, spatially, and mechanically heterogeneous. Bimrocks include melanges fault rocks, weathered rocks, lahars and some “rock/soil mixtures.”

The term is a geologically neutral word to focus attention on the fundamental and troublesome fabric of strong rock blocks in weak rock matrix, regardless of geological origins and euphonious geological names.

AEG INLAND EMPIRE CHAPTER

Chair's Message

April 2009

Field Trip Pictures

More pictures on website:
<http://www.aegsc.org/chapter/s/inlandempire/fieldtrips/>



We want to thank the 32 people who attended the Inland Chapter's Annual Field Trip on Saturday March 14, "Hydrogeology of Thermal Springs in the Palm Springs Area -Indian Canyons and Agua Caliente Spring". The trip was co-led by:

- Scot Stormo, Earth Systems Southwest
- Mark Spykerman, Earth Systems Southwest, and
- Clifford Batten, Agua Caliente Band Cahuilla Indians.

Our Chapter and trip participants thank these individuals and their respective organizations for the time and expense that it took to conduct this trip. There were two areas of focus on the trip. We began the trip at the Agua Caliente Spa & Resort. That presentation was led by Scot Stormo where he detailed the hydrogeology of the spring and history of its development. The second stop in Indian Canyons Park was led by Mark Spykerman. There we were led up Palm Canyon Creek to view the springs, native stands of California Palms, and the elusive Palm Canyon Fault. A nice trip; fun in the sun and the right amount of geology.

This month's Chapter presentation is by the 2009 GSA/AEG Jahns Lecturer – Dr. Ed Medley of Oakland, CA. The meeting is being co-hosted by the Cal Poly Pomona Student Geology Club and Department of Geological Sciences. Dr. Medley will be speaking on "Bimrocks" a subject worth listening to and given by an entertaining showman. But please, do not stop at only one talk; take the opportunity to listen to three other talks at local universities that the Chapter helped organize. These talks are listed below.

- **Tuesday April 14, 12pm (noon)**, UC-Riverside Hewett Club, Geology Dept. "Of Elephants, Earthquakes, Caves and Hot Rock - Recent Geological Engineering Adventures".
- **Wednesday April 15, 2:30pm**, CSU-San Bernardino, Geology Dept., "The Comforts of Ignorance and the Benefits of Arrogance: Lessons of the Failure Kind for the Geopractitioner"
- **Thursday April 16, 12pm (noon)**, Cal Poly Pomona, Geology Dept., "Forensic Investigation of the Sea Cliff Incident, an Urban Catastrophe"

See you at Cal Poly Pomona on April 15.
Kerry Cato, Chapter Chair

Future AEG Inland Chapter Meetings

MAY Wednesday May 20th, 2009, Murrieta, CA
"Scour of Rock – Rates and Threshold Conditions"
Dr. Jeffrey R. Keaton, MACTEC, Los Angeles, CA

JUNE short course (See Short Course title below)

JULY Wednesday July 15th, Hemet, CA
"Land-Use Photography & Videography"
Woody Higdon, GEO-TECH IMAGERY,
Oceanside

AUGUST - Wednesday August, 19th 2009, Riverside
"Groundwater Contamination, Orange County CA"
Dr. Tom Perina, CH2MHill, Riverside, CA

SEPTEMBER - NO Chapter Meeting,
National Meeting at Lake Tahoe

Annual AEG Inland Chapter Short Course

- **June 12th, Friday** (Tentative date & title)

**"Geology & The Environment:
Areas Of Practice & Methods"**
UC-Riverside, Extension Center, Riverside, CA
*****More Details To Follow*****

Cal Poly Pomona April 15 Meeting Details and Location

RSVP required: Advance RSVP is required by Tuesday April 7, 2009. E-Mail: akwgeotechnical@verizon.net (info needed: name, company, number attending, and specify meal selection (see below). We must provide exact count to Kellogg Center 1 week in advance.

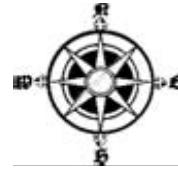
Meal choices: (Cost \$30=Professionals; \$10 Students with ID)

- * Breast of Chicken with Rosemary Cream Sauce
- * Tri-Tip with Peppercorn Sauce
- * Salmon: Teriyaki Soy Glazed Salmon
- Standard items/amenities/accouterments for all meals
- Bar with Attendant

Cocktails, Wine, Imported Beer, Domestic Beer, Sodas, Bottled Water

Location:

Kellogg West Conference Center
Dining Room 'A'
Cal Poly University Pomona
3801 West Temple Avenue, Bldg. 76
Pomona, CA



Directions to Meeting from Hwy 57

From the Orange Freeway (Route 57) and the Pasadena Freeway (Route 210)

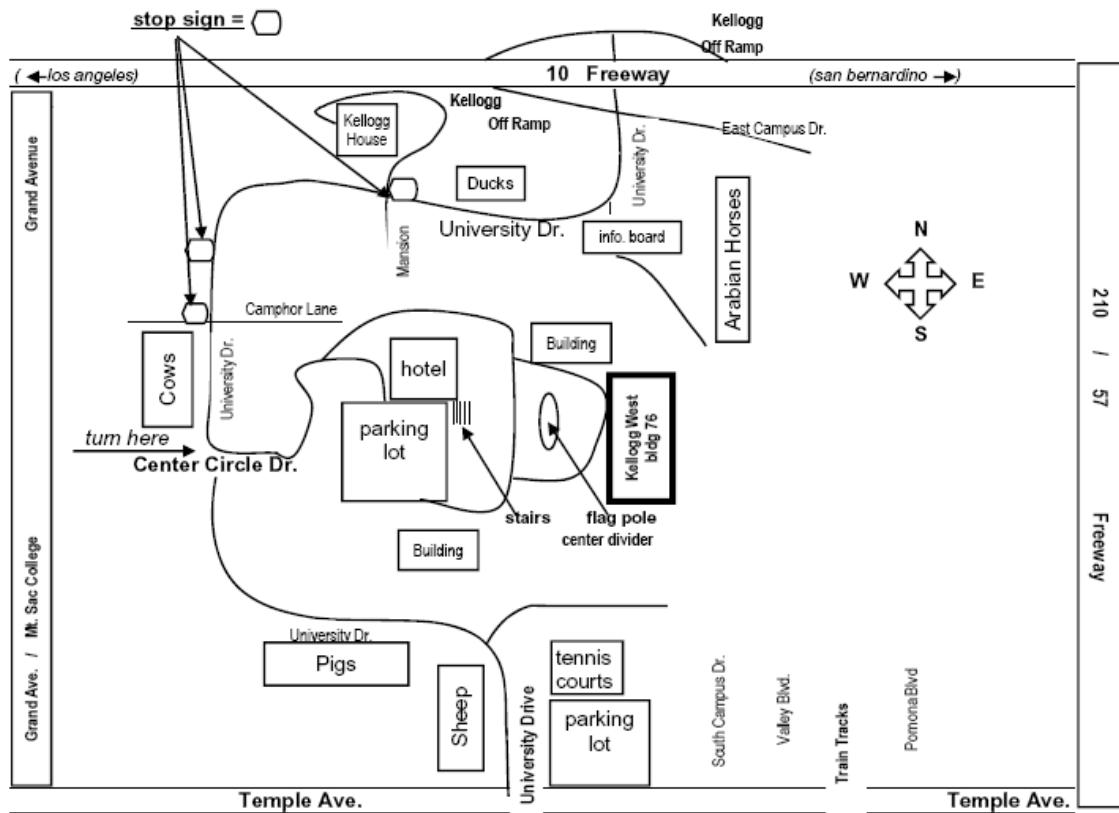
- Exit Temple Ave. off ramp, go west on Temple Ave., Make a right at University Drive and follow the "Kellogg West" signs through campus. Turn right at Center Circle Drive to the Kellogg West Conference Center and Lodge

From the San Bernardino Freeway (Interstate 10)

- Exit Kellogg Drive off ramp (exit 42), go south on Kellogg Drive, make a right turn at University Drive (info. light board) and follow the "Kellogg West" signs through the campus. Turn left at Center Circle Drive to the Kellogg West Conference Center and Lodge.

Cal Poly Pomona Map to the Kellogg West Conference Center

Note: Parking permits are required Monday thru Friday from 7am to 5pm – must obtain from front desk inside Kellogg West. No permits necessary if arrive after 5pm.



Connecting ...

Professionals ...

Practice

& The Public

