



Association of Engineering Geologists  
**Inland Empire Chapter**, Southern California Section  
P. O. Box 8944  
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(10-Jul-05)

## JULY MEETING NOTICE

Wednesday, 20-July-2005

5:45 - 6:25	Geologist Orientation	Lounge
6:30 - 7:00	AEG Chapter Meeting	Banquet Room
7:00 - 8:00	Dinner	Banquet Room
8:00 - 8:30	Meeting Continued	Banquet Room

### **Hungry Hunter, Temecula**

Meeting Cost: From Menu  
(Fund-raising donation suggested is \$5.00, or more)

*(RSVP/Directions below)*

Dear AEG Members:

### **This Month's Speaker:**

*Dr. Jeffrey R. Keaton, P.E., P.G.,  
Senior Principal Engineering Geologist  
MACTEC Engineering and Consulting, Inc., Los Angeles, California.*

**Topic:** "Soil Stratigraphy and Surface-Water Hydrology of Part of the Hualapia Valley near Kingman, Arizona, for Litigation Support."

**Abstract**

The degree of calcic soil development and its influence on surface-water hydrology and scour processes were evaluated on an alluvial plain at a location in Hualapai Valley approximately 10 miles northeast of Kingman. Soils geomorphology in this part of Arizona has been studied previously only on a reconnaissance basis. Detailed soil stratigraphy evaluation in Hualapai Valley revealed remarkable similarities to calcic soil development in the well-studied Desert Project area in south-central New Mexico. Near-surface well developed argillic and calcic horizons developed in fine earth sediments of the alluvial plain probably are on the order of 100,000 years old. The calcic horizons are highly bioturbated but promote runoff into shallow channels on the alluvial plain. Discontinuous gullies are present in some areas, particularly where flow has been concentrated. Noncalcic soils backfill paleochannels eroded into the well-developed calcic horizon.

**Keaton Biographical Sketch**

Jeffrey R. Keaton is a Senior Principal Engineering Geologist in the Los Angeles office of MACTEC Engineering and Consulting, Inc. His education consists of a BS degree in Geological Engineering from the University of Arizona (1971), a MS degree in Engineering (Geotechnical) from the University of California, Los Angeles (1972), and a PhD degree in Geology from Texas A&M University (1988). He is registered as a Professional Engineer in California, Utah, Alaska, and Arizona. He is also registered as a Professional Geologist in California, Arizona, and Utah, and certified as an Engineering Geologist in California and Washington.

Keaton is a past president of the Association of Engineering Geologists, past chairman of the Engineering Geology Division of Geological Society of America, and past chairman of the Committee on Engineering Geology of the Transportation Research Board (TRB). He is the chairman of the TRB Section on Geology and Properties of Earth Materials. He specializes in quantifying hazardous natural processes for use in design and risk analysis.

**Thanks**

To the 16 individuals who attended the June Meeting in San Bernardino at last month's June meeting: Thank you for your participation, please see the meeting minutes at the Chapter's web-page in the Section's site: You are invaluable, and what it takes for us to move ahead. We are going to Temecula in July !

**Message from the President**

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Please refer to the President's Message as posted at the AEG Southern California Section Website, Inland Empire Chapter Web-page(s), and other information provided there-in (Meeting Minutes, Treasurer's Report, etc.).

Organic Committee: The first meeting occurred Monday 6-Jun-05 in Ontario, California; and, the next meeting was convened Wednesday 6-July-05 in Redlands, California. Certain results have been implemented or mentioned in regular Meeting Minutes, or are pending.

Fund-raising: In the last months, there has been a couple of fund-raising set of messages sent out. One involved specific individual messages, and more recently to the Members in the inland areas of southern California. Following the June meeting we received a donation, and in the first two days of July received two more (perhaps more mite be on the way). Nevertheless, this result is significant, and very encouraging. And there have been more donations recently. Now, the Chapter bank account is \$801.03, thanks to Petras Sponsors, and those attenders at regular meetings who also donated (Thanks meeting attenders !.)

Therefore, we want to recognize those who have given 10-times or more than the minimum we requested to assist us when we sought \$5, 10, 15, 25, 35, or more from individuals or perhaps from Corporate sponsors. We now have 5 of what we call **Petras Sponsor**, as follows:

- \* **Richard L. Orr, Leighton Group Of Companies, Leighton and Associates, Inc.,  
Rancho Cucamonga, California**
- \* **Roy J. Shlemon, Ph. D., Newport Beach, California**
- \* **N. Thomas Sheahan, Vice-President, Geomatrix Consultants Inc., Inland Empire  
Office, Corona, California**
- \* **Steven C. Suitt, Principal, Steven C. Suitt and Associates, Canyon Lake, California**
- \* **Richard R. Gundry, Agency Hydrologist - Water Rights, Southern California  
Agency, U.S. Bureau of Indian Affairs, Riverside, California**

Richard R. Gundry, Treasurer  
"Acting" for Frank Jordan, President

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## **PETRAS Sponsor**

"Petras" is a Latin term for a large rock edifice, monolith or massif of strength (eg., Rock of Gibraltar), as different to "petros", a term for a rock or stone, something one can pick up. It can mean something like a cornerstone, such as one set for the foundation of a building – something strong and set first from which a foundation is built for a larger structure needing the strength.

The distinguishing point is donations that recognize interest and generosity building foundational financial support to the Inland Empire Chapter in this inaugural year. And, ones that certainly take an immediate, bold and positive step. A solid contribution/donation is \$50.00 or more is **Petras Sponsor**. Other, smaller donations are requested, and are as important. All donors will be recognized.

## **Directions to Meeting:**

The meeting area is located in the City of Temecula located immediately west of I-15 on Jefferson

Avenue, between Winchester Road and Overland Dr.

Hungry Hunter  
27600 Jefferson Avenue  
Temecula, CA 92590  
Ph. (951) 694-1475

From the North: Pass the I-215/ I-15 junction. Take the Winchester Road exit and TURN Right (West) on Winchester Road. Immediately TURN LEFT (South) on Jefferson Avenue and proceed about 0.3 mile. TURN LEFT (East) into Hungry Hunter parking area.

From the South: Take the Rancho California exit and TURN LEFT (West) on Rancho California Rd. After crossing the I-15 Fwy, TURN RIGHT (North) on Jefferson Avenue and proceed North about 1.4 miles. TURN RIGHT (East) into Hungry Hunter parking area.

**Please:** RSVP by **Friday, July 15** with Rick Gundry at [rick.gundry@verizon.net](mailto:rick.gundry@verizon.net), or leave a message at (951) 924-6756, thanks.

**Next Meeting:** Joint AEG/Inland Geological Society meeting 3-Aug-05 (Wednesday, Riverside, CA). Somewhere in Temecula-Murietta and surrounding areas in mid-September. More ahead !

**Contact Information:**

Richard R. Gundry, AEG 7745  
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