----- ----- ELECTION – 2006-2007 OFFICERS ----- ----- 

"Advanced Aquifer test analysis with the general well function"

Wednesday August 16, 2006

5:30 - 6:30 Geologist Orientation Lobby or Bar
6:30 - 7:15 Dinner Meeting room
7:15 - 8:30 Meeting Meeting room

Hungry Hunter, Temecula
(Meeting Cost $25?with Tax/Gratuity)?
(Fund-raising donation suggested is $5.00, or more)
(RSVP/Directions below)

Dear AEG Members:

Meeting location details and directions are found inside this Newsletter, as well as other news potentially of interest to you.

RSVP Please by close of business 10-Aug -06
Send e-Mail RSVP to Rick Gundry at rick.gundry@verizon.net by COB 10th-Aug, or call RSVP message at (951) 924-6756.

VOTE FOR NEW OFFICERS FOR 06/07
See pages ahead for AEG Chapter Election

This Month’s Speaker:

Dr. Tom Perina, PG, CHG, Senior Hydrogeologist, CH2MHi11, Riverside, CA

"Advanced Aquifer test analysis with the general well function"

Talk Description

At the first of a two-part aquifer test analysis presentation, Dr. Perina gave an introductory
talk during a meeting of the Inland Geological Society in Riverside on June 7. This talk introduced a new concept of aquifer test analysis - using a single model, "general well function", and multiple test data to improve the estimates of aquifer properties.

The second talk to the AEG on August 16, 2006 will include a description of the differences between the general well function (GWF) of Perina and Lee (2006) and other, widely used analytical models (e.g., Theis, Neuman, Hantush, Moench, etc.). Dr. Perina will describe the analysis procedure that employs the GWF, and a combination of a genetic algorithm and non-linear least-squares. He will address the non-uniqueness of the results for some common tests and show how combined test analysis improves the resolution of aquifer properties. Dr. Perina will present the results for several field tests and outline a sequential analysis of aquifer tests to optimize field investigations.

Speaker Biography

Dr. Tom Perina is a senior hydrogeologist with over 20 years of experience on environmental and water resources projects. With CH2M HILL since 2002, he has managed projects at Superfund sites including Stringfellow, Newmark-Muscoy, and Omega Chemical. He supports other projects as a senior groundwater modeler. His experience in Southern California also includes geophysical investigations of several groundwater basins, and environmental projects at Air Force and Naval facilities, municipal landfills, and petroleum sites. He managed groundwater resources and environmental investigations, and an open-pit coal mine stability assessment in the Czech Republic. He is an external lecturer at the University of California Riverside.

Dr. Tom Perina received his Ph.D. and M.S. from the University of California Riverside, and M.S. from the Charles University in Prague. His on-going research interests include the hydraulics of wells, and inverse analysis of aquifer and soil vapor extraction tests.

Election - This Meeting

ELECTION OF OFFICERS 06-07 AEG Inland Empire Chapter

The current term of Chapter Officer expires 30-Sep-06. An election will occur in this meeting, and will include votes already tallied and any new votes that come from nominations from the floor or from the existing Ballot. Results of Election will be announced before meeting adjournment.

Candidates for Officers should be AEG Members or become AEG Members, Candidates for President are required to be a Member of AEG by 1-Oct-06. Write-in candidates are allowed before this meeting election. A slate of candidates was portrayed in the previous month’s Newsletter. A Ballot has been distributed and votes received, and will be provided for write-ins only if nominated from the floor at the meeting. New Officers in charge effective 1-Oct-06

Thanks

Thanks to the 33 Professionals that attended the very muggy 19-July 2006 Meeting in Corona, for GSA-AEG Richard Jahns 2006 Distinguished Speaker in Engineering Geology, Jerry D. Higgins, as follows:
Dr. Jerry D. Higgins and Mrs. Jerry D. Higgins (receiving bouquet of wrapped flowers), Colorado School of Mines; Golden, CO; Gary Wallace, Rick Gundry, Mark Spykerman, Scot Mathis, Pat MacNamarra, Bob Riha, Avi Schwartz, Sean Richards, David Smith, Debabrata Biswas, Raffi Babayan, Zafar Ahmed, Mike Cook, Dave Gaddie, Jeff Keaton, Warham Stejer, Glennn Lauman, Phil Buchiarelli, Janis Hernandez, David Jines, Doug Cook, Lori Cook, Arasan Singanayaham, Kandeeban Savavana, Katie Maes, Blake Elliot, Jason Hertzloey, Don Jankly, Mark McLat and Frank Jordan:

Geology Continuing Education Series  Fall/Winter/Spring 2006-2007

Quarterly One-Day Short Courses are focused to geologically-related subjects of interest to the southern California community. Some will be centered on particular geologic issues, and some will be aligned with specific geologic applications to a variety of earth sciences issues and problems. Speakers are comprised primarily of experts from professional services industries and government, and from academic institutions. Courses presided by a coordinating instructor.

We are continuing to provide these courses for communication and dialogue among students, teachers, educators and professionals alike in discussions and learning about various geologic problems and issues in southern California. In the same venue will be a forum for exchange of information and cross-fertilization between professionals, educators, teachers and students.

The cost structure employed is structured at a low cost to all, and also to provide qualified students an opportunity for free short courses upon enrollment, attendance, and successful completion.

We are seeking your input (suggestions/ideas) for future topics and any suggested speakers for those topics. We would like to hear your suggestions/ideas concerning topics/problems involving geologic hazards issues; engineering geology and geotechnical issues; economic/mining geology and mineral resources issues; environmental and contaminant hydrogeology issues; groundwater and water rights issues; flood and debris issues; hill-side development and alluvium fan development issues; and land-planning and land use issues in the context of earth-science issues and problems. Please feel free to add to the list and let us know (as indicated below).

Inland Geological Society and AEG Inland Empire Chapter in cooperation with the Department of Earth Sciences, University of California, Riverside, are Co-sponsoring the on-
going short course series quarterly over the next few years. Our collective interest is to provide an opportunity for certain specialized and focused education, and generate interest and participation in learning and discussion and communication participation by students, consultants, business, industry, government, individuals, and academic institutions and researchers.

If you have questions, comments, suggestions or ideas, please contact Phuong Chau or Rick Gundry, Program Chairpersons: (PChau@LeightonGeo.com or Rick.Gundry@verizon.net).

Field Trip Leaders & Ideas Needed
Contact Mark Spykerman or Rick Gundry

Meeting Location

The meeting site is located in the City of Temecula West of I-215 on Jefferson Avenue at Winchester Road.

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

Directions to Meeting

Proceeding South on I-15 or I-215 to Temecula, after Freeways merge, prepare very soon to EXIT at Winchester Road and turn right at end of off-ramp on Winchester Road to head west briefly to turn immediately left. At Jefferson Avenue, turn left to proceed south immediate to turn left to parking area for Hungry Hunter.

Proceeding North on I-215 to Temecula watch for Winchester Road and EXIT, to turn Left (west) on Winchester Road. Cross over freeway preparing to turn left. At Jefferson Avenue (the first left) turn left proceeding south for immediate turn left into parking area for Hungry Hunter.

RSVP Please: send RSVP to Rick Gundry at rick.gundry@verizon.net by Thursday close of business 10-AUG-06, or call RSVP (951) 924-6756 to leave message. IMPORTANT ! Thanks.

Future Meetings

SEP Wednesday SEPT 20, 2006, Riverside
– Citrus City Grille, Riverside
"Dynamics of Geometrically Complex Faults"
  __ Dr. David Oglesby, Associate Professor of Geophysics, Department of Earth Sciences, University of California, Riverside, Riverside, California.

OCT Wednesday OCT 18, 2006, Temecula
– Pat & Oscars Restaurant, Temecula
“Rock Slope Stability Analyses – A Case Study” and “Three Dimensional Rock Mass Fracture Geometry and Fluid Flow modeling for a tunnel site in California”
  __ Dr. Pinnaduw H.S.W. Kulatilake, Professor, Geological Engineering Program, Department of Materials Science and Engineering, University of Arizona, Tucson, Arizona

NOV Wednesday NOV 15, 06 Rancho California
– Claim Jumper, Rancho Cucamonga
“Refraction Microtremor for Shallow Shear Velocity”
  __ Tiana Rasmussen, Geophysicist, Project Geologist, Gary S. Rasmussen and Associates, Inc., San Bernardino, California

DEC Wednesday DEC 20, 2006, Corona
– Cask ‘N Cleaver Steakhouse, Corona
“Secondary Fault-Rupture-Hazards at a School Damaged by the 1971 San Fernando Earthquake”
  __ Jeffrey R. Keaton, MACTEC, Los Angeles, California

JAN Saturday JAN 20, 2007 Hi or Low Desert
- Bring own food/gear, 7am-3pm in field
  “field site(s) topic to be announced”
  __ Attenders are the contributers/speakers

FEB  Wednesday FEB 21, 2007, Temecula
  - Hungry Hunter, Temecula
  “The Search for PaleoTsunami Deposits in
  Southern Thailand”
  __ Dr. Brady Rhodes, Professor, Department of
  Geology, California State University, Fullerton,
  Fullerton, California

UPCOMING SHORT COURSES

These low-cost courses are in the Geology
Continuing Education Series for a 2nd year ahead
held at the Extension Center - University of
California, Riverside Co-sponsored by Inland
Geological Society and AEG Inland Empire
Chapter in cooperation with the UCR
Department of earth Sciences.

Fall 2006 - “Groundwater issues and problems
in the Inland Empire” (tba)

Winter 2007 - “Seismologic, Faulting and
Fault Investigation” (tba)

Spring 2007 - “Edge-cutting Frontiers of
Geologic Interest” (tba)

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49th Annual Meeting AEG “From Till to Fill”
30-Oct to 4-Nov, Boston, Massachusetts

50th Annual Meeting AEG
24-28 Sept. 2007, Los Angeles, California
Anniversary - AEG founded in Southern
California
  Ideas for Theme ?

NOT A MEMBER ? Just think, become AEG
Member and immediately save money for course
enrollment as a Member on most AEG functions
and $30 discount for 3 years for new Members.
See new website of AEG
www.aegweb.org

Connecting . . .
Professionals
Practice,
And the Public