



Newsletter

Inland Empire Chapter News

Southern California Section, Association of Environmental and Engineering Geologists

Editor: Rick Gundry rick.gundry@verizon.net (951) 924-6756

May 7, 2007 (1-May--07)

Vol. 3, No.5

-- Final Call for Nominations - Officer Candidates for 2007-2008 --

“Site characterization for the design of effective groundwater remediation projects”

Wednesday 16-May-2007

5:00 - 6:00	Geologist Orientation	Dining Room Bar
6:15 - 6:30	Meeting Announcements	V.I.P. Dining Room
6:30 - 7:30	Dinner Meeting	V.I.P. Dining Room
7:30 - 8:30	Speaker Presentation	V.I.P. Dining Room

The Castaways Restaurant, San Bernardino

Meeting Cost \$35, Order from Banquet Menu

(includes tax/tip/gratuity)

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

(RSVP/Directions below)

Meeting Details at right (or see inside)
RSVP Due by c.o.b. 12-Apr-07 e-mail at
rick.gundry@verizon.net or call above No.

Chapter Officers

Chapter President
Rick Gundry
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(see above e-mail, phone no.)

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Riverside County
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This Month's Speaker :

Jahns Distinguished Lecturer in Engineering Geology

John Moylan, RG, Professional Geologist.

Abstract

Too often groundwater remediation projects have been implemented with too little site specific geologic, hydrogeologic, and geochemical site characterization data. There are differences of opinion as to whether groundwater can be effectively and efficiently remediated. In order to adequately address this question, we must openly and honestly discuss the factors affecting effective remediation, design and remediation methods, and perhaps most importantly performance monitoring data.

Literature reports of remediation often provide very little information on the hydrogeology or geology of the site. These are extremely important types of data if groundwater remediation case studies are to be truly useful. Many articles never clearly describe the aquifer material, don't state the range or distribution of hydraulic

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Rick Gundry

CCGO Liaison *volunteer*
Rick Gundry

Past Presidents
Frank Jordan 2005
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 (AEG). For more information visit websites shown in News head (top of page 1)

Submittals: Deadline is 28th of the month. Employment notices of job position vacancy announcements are at no cost. (See notice inside this *Newsletter*)

Address changes: please submit to e-Mail address at Newshead on page 1.

Advertisements: *Newsletter* circulation is about 170 or more in greater in land areas of southern California, and elsewhere. Advertisements are welcome also at no cost for posting; however, we would like some form of donation, to be later recognized in list of donors

conductivities, or discuss the homogeneity or heterogeneity of the water bearing material. In these cases, it is seldom possible to determine whether the remedy being reported on is effective or efficient.

Remedies are often selected on the basis of the Feasibility Study (FS) or Corrective Measures Study (CMS) data and the data available at the completion of the FS or CMS may not be sufficient to support effective remedial design or development of an effective performance monitoring plan. These data commonly don't define many of the important subsurface parameters needed to develop a good design. Developing

and implementing a design without the benefit of sufficient design data commonly leads to an excessively costly remedy or one that does not remedy the problem.

There are a number of geologic, hydrogeologic, and geochemical factors that potentially affect effective remedial design and remediation performance. In most cases, geologic, hydrogeologic, and geochemical factors are inter-dependant. Some of the important geologic, hydrogeologic, and geochemical factors are listed below.

- Lithology
- Stratigraphic detail
- Nature of porosity
- Hydraulic conductivity
- Confined or unconfined aquifer Boundaries
- Pumping effects
- Formation heterogeneity
- Contaminants
- Non-contaminant chemistry
- Contaminant distribution
- Is source present
- Source nature and distribution

Projects in Kentucky and Colorado will be used to illustrate the importance of adequate site characterization for effective groundwater remediation.

Jahns Distinguished Lecturer Background

John E. Moylan has been named the 2007 Jahns Distinguished Lecturer. The Association of Environmental and Engineering Geologists and the

Engineering Geology Division of the Geological Society of America (GSA) jointly established the *Richard H. Jahns Distinguished Lectureship* in 1988 to commemorate Jahns and to promote student awareness of engineering geology through a series of lectures offered at various locations around the country throughout the year. Richard H. Jahns (1915-1983) was an engineering geologist who had a diverse and distinguished career in academia, consulting, and government.

The titles for the 2007 Jahns lectures are: “Strength Reduction in Shales – Causes, Effect on Stability, Case Histories, Recognition”, “Site Characterization for the Design of Effective Groundwater Remediation Projects”, “Geologic Influences on Selected Mid-Continent Dams”, and “Effects of Geologic Factors on the Design and Performance of Permeable Reactive Barriers”. Requests for scheduling lectures should be directed to John Moylan at john_moylan@sbcglobal.net

Biographical Sketch

Mr. Moylan received a BS degree in Geology from the University of Kansas in 1958 and attended a special Corps of Engineers Geological Engineering program at the University of Minnesota in 1974. He worked as a geologist for the Corps of Engineers Kansas City District for 33 years where he rose to Chief of the Geology Section and retired as Chief of the Geotechnical Branch in 1991. He was an Adjunct Instructor in Geology at the University of Missouri at Kansas City from 1979 through 1985. Following his retirement from the Corps of Engineers, he worked for Woodward-Clyde Consultants/URS for 10 years as a Senior Consulting Geologist and is currently an independent consulting geologist.

Mr. Moylan is experienced in most aspects of engineering geology. He has conducted geologic investigations for site selection,

design, construction, performance monitoring, and remedial design of dam projects. In addition, he worked on the geologic investigations of many military projects, a natural salt contamination area, and a proposed nuclear waste disposal site. Since 1978, his work also included the investigation, remedial design, and performance evaluation of hazardous waste sites and he has worked on over 50 National Priority List Superfund Sites. While with Woodward-Clyde/URS, he was technical advisor and peer reviewer on geotechnical and environmental projects through out the company. He has actively encouraged expanding the focus of environmental geologic investigations and studies from the nature and extent of contamination to include site characterization needed for effective remedial design and remedial action.

Mr. Moylan is a member of the Geological Society of America and has been an active member of the Association of Environmental and Engineering Geologist since 1966 and was a founding member of the Kansas City-Omaha Section. He served as the 1969-1970 Section Chairman and again 2003 to 2005. He has actively encouraged the participation of geology students at the University of Missouri at Kansas City and the University of Kansas in Kansas City-Omaha Section activities and has made several technical presentations at these two universities and the University of Missouri at Rolla.



Message from the Chapter President

New Chapter Officer. Welcome to **Mitch Bornyasz**, our newly-appointed Chapter Vice President South, replacing the elected **Frank Jordan** of J. R. Byerly and Associate, Inc, Bloomington, California. Mitch is Project Geologist of Leighton Group in the Temecula Office, California, and we are glad we have another

representative on the Board of Officers of that part of the Inland areas of southern California to help us guide and lead what this Chapter will be doing in the future. Please say Hello to Mitch.

Tribute to former Officer. We also thank **Frank Jordan** who volunteered for the position earlier this year when working out of Murrieta, California, and also is the First Chapter President from 2005. Thank you Frank ! Jobs well done !

Elections - Future Officers. The upcoming May meeting will be last opportunity under the Official Call for Candidates announced at the Chapter meeting in Temecula April 18th, for the upcoming election ballot to be distributed a couple of months from now. Write-in candidates are allowed, but only during the actual election process using the ballot. If interested, let us know and get your name on the Ballot (contact Mike Cook, Vice President North for expressing your interests or any information)

Next Meeting. You are all encouraged to join in with the low cost **Geology Continuing Education Series** continuing education one-day Saturday short course to be convened 12-May-2007 co-sponsored by this AEG Chapter and the Inland Geological Society: “*Earthquakes and Seismic Hazards*” with six speakers from industry, state and federal government, and some from academia, representing their messages the state of the art in many fields that practicing geologists and engineering geologist should be interested. This course has bits of overlap with the two-day course in late April, but each course compliments the other and with significantly different focus or breadth of coverage. This is the sixth focused course in the series.

Giving to Students. 16 May meeting Coinciding with the GSA/AEG 2007 Jahns Distinguished Lecturer in Engineering Geology (whose purpose is focused to earth science students) will be the awarding of checks for financial assistance to 6

undergraduates with Geology majors from three local Universities. The purpose is primarily to assist undergraduates with costs of field trips, and Summer field camp costs..

Thanks

Thanks to the 23 Professionals attending the April meeting in Temecula, California, including: **Dr. David Oglesby** (speaker), University of California, Riverside; **Dr. Kerry Cato**, Cato Geosciences; **Rick Gundry**, Inland Geologic; **David Gaddie**, Riverside County; **Frank Jordan**, J. R. Byerly and Associates, Inc; **Chris Gibberson**, Kleinfelder Inc.; **Jon Cain**, Petra Geotechnical; **Doug Johnston**, Petra Geotechnical; **James Oblinski**, Petra Geotechnical; **Bob Riha**, Leighton and Associates, Inc; **Lisa Battiato**, Kleinfelder, Inc.; **Mitch Bornyasz**, Leighton Group; **Jeff Keaton**, MACTEC; **Mark Spyckerman**, Earth Systems Southwest; **Warham Stejer**, Leighton and Associates; **Pat McNamarra**; Leighton and Associates; **Joseph Montgomery**, LGC Geotechnical; **Stephen Jacobs**, independent consultant; **Jeff DeLand**, Leighton and Associates; **Avi Schwartz**, Leighton and Associates; **David Perry**, MACTEC; **Johnathon Rossie**, Nevada Pacific; **Chad Welke**, Earth-Starta, Inc. Much discussion occurred by many after meeting closed.

Thanks

The recent two-day short course the last weekend of April occurred with an impressive attendance of 42 attendees “*Paleoseismology in Seismic Hazard Assessment: Distinguishing Active Faults from Neotectonic Features that look like hem (with a field trip to Ridgetop Spreading Zones)*”. Many have exclaimed the course was excellent

Professionals included many from Riverside, San Bernardino, San Diego, Orange, Los Angeles and Ventura Counties as well as from as far north as Oakland and Cloverdale in Central and Northern California. Further information and photographs will be available at the Chapter web-page. A CD from CDMG regarding ridgetop spreading in California paid by attendees will be sent by mail once received in a few weeks (part of course fee).



Meeting Details and Location

**Advance RSVP is Mandatory by 11-May-07
No late RSVP allowed, No admittance at door..**

Location. The meeting site is located in the City of San Bernardino, east of the I-215.:

The Castaways
679 Kendall Drive
San Bernardino, CA 92407
(909) 881-1502

Directions to Meeting. Kendall Derive exit is between the I-15 and I-215 interchange and the I-10 and I-215 in northern San Bernardino (southward from CSUSB). It is north of Hywy 30 (Highland) and the eastward extension of I-210).

One can take the Kendall Drive exit from I-215 several miles south of I-15 and I-215 Interchange proceeding southeast to the Restaurant address listed above, on the right side approaching top of hill). Otherwise, proceeding north on I-215 from I-10, take CA HYWY 30 EAST, EXIT E Street, Turn LEFT onto N. E Street and follow CA Hywy 206 a little over a mile to Restaurant (on left).

Banquet Meal Menu Selection. Select from the following basic items:

Country Steak Dinner
Roasted Turkey Dinner
Meatloaf Dinner
Top Sirloin Steak
Fresh Lemon-Pepper Salmon
Artichoke Mushroom Chicken

All Dinners include Caesar salad, cornbread and fountain drinks, iced tea or coffee. Also

includes slice of Apple, Chocolate Cream or Lemon Meringue Pie.

*No Host Bar: Drinks, etc., additional

Future AEG Meetings

JUN Wed. June 20, 2007, Temecula, CA
-- "Municipal Landfills and Groundwater Contamination in southern California"
Dr. Jim Finnegan, CHg, Senior Hydrogeologist, Geosyntec Consulting, Pasadena, California

JUL Wednesday July 18, 2007, Redlands, CA
-- 'Overview of VOC and Perchlorate Contamination Case Histories'
Gerard J. Thibeault, Executive Officer, Santa Ana Regional Water Quality Control Board, Riverside CA

AUG Wednesday June 20, 2007, Temecula
-- "Issues in Interacting strike-slip faults"
Dr. David Oglesby, Associate Professor of Geophysics, Department of Earth Sciences, University of California, Riverside.

SEP Mon-Fri Sep. 24-28, 2007, Los Angeles, CA
Golden Anniversary in the Golden State
50th Annual Meeting Association of Environmental and Engineering Geologists
Special Anniversary Meeting in Southern California
— AEG founded in Southern California —

OCT Wednesday, October 17, 2007, Temecula
-- 'Alquist-Priolo, and potential changes'
Steve Testa, Executive Officer, California State Mining and Geology Board, Sacramento

NOV Weds. Nov. 14, 2007, Cal State San Bernardino
- CSUSB Geology Club & AEG Joint Meeting -
-- "Latest Pleistocene slip rate of the San Bernardino strand of the San Andreas fault"
Dr. Sally McGill, Professor of Geology, Geology Department, Cal. State Univ., San Bernardino, CA

Other Future Meetings

MAY May 15, 2007 San Bernardino, CA
SME/IGS CSUSB Geology Club Joint Meeting
-- "125 years of mining at California Portland Cement"
Brian Fortelka, Mine Engineer, California Portland

Cement, Colton, California

-- "Underground Mapping course , Broken Hill, Australia"

Dr. Eric Melchiorre and Students, CSUSB

-- ' Texas BBQ ', CSU, San Bernardino, CA

CONTINUING EDUCATION COURSES



MAY Saturday, May 12, 2007, Riverside, CA

Geology Continuing Education Series

-- "Earthquakes and Seismic Hazards "

Co-Sponsored by Inland Geological Society and AEG Inland Empire Chapter: \$70 Members, \$75 Non-Members

UC-Riverside, Extension Center, Riverside, CA

Continuing Education Ongoing Short Course

"An Introduction to Landslides or Mass Wasting"

An Online course

AIPG Accredited (3.5 CEU's)

rgfont@geosciencedm.com,

slbishop@geosciencedm.com

www.geodm.com Robert Font, Ph.D.

AEG and IGS Seeks Candidate Speakers

The Inland Geological Society and this AEG Chapter are seeking suggestion of speakers for three focused Geology Continuing Education Series courses for Fall 2007, Winter and Spring 2008. Likely subjects include::

- Landslide analysis and evaluation
- Groundwater issues and evaluation
- Fault investigation methods and evaluation

Contact Information

Inland Empire Chapter, Section and Association

AEG Inland Empire Chapter, P. O. Box 8944,
Moreno Valley, CA 92552-8944

<http://www.aegsc.org/chapters/inlandempire>

AEG Southern California Section Web-site

<http://www.aegsc.org/>

Association of Environmental and Engineering Geologists (Headquarters)

<http://www.aegweb.org>

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