



ASSOCIATION OF ENGINEERING GEOLOGISTS
 Southern California Section

*"Serving Professionals in Engineering, Environmental,
 and Groundwater Geology Since 1957"*

NEWSLETTER – July 2005

Officers

Chair- Matthew Hawley, mhawley@lqcgeo.com, (805) 579-3434
 Vice Chair- Charles Nestle, cnestle@ladpw.org, (626) 458-4923
 Treasurer- Brian Villalobos, bvillalobos@petra-inc.com, (714) 549-8921
 Secretary- Rosalind Munro, rmunro@lqcgeo.com, (949) 650-1018

- Meeting Date:** **Tuesday, July 12, 2005**
- Location:** **Steven's Steak House, 5332 Stevens Place, Commerce, CA**
- Time:** **Social Hour: 6:00 PM; Dinner: 7:00 PM; Presentations: 7:45 PM**
- Reservations:** **Call (949) 253-5924 ext. 564, or email Brian Villalobos, by **Noon, Monday, July 11****
- Cost:** **\$30 per person with reservations, \$35 at the door; \$15 for students with valid student ID.**
- Presenter:** **Matt Werner**
- Topic:** **Dealing With Uncertainty Regarding The Chemistry of Drinking Water Wells—An Example From the City of Riverside**

Abstract:

As engineering geologists we have learned—and readily accept—that there is inherent internal variability in the characteristics of geologic media. We're not talking about laboratory error, here; we're talking about spatial differences in property values that are just intrinsic to every formation, deposit, and aquifer. We can accept and understand this; yet, we struggle continuously with how to give our colleagues, "the engineers" the "one number" they always seem to want. Should we give them the "one number" that we think would support an adequately conservative design (how conservative should that be), or should we give them a "plus/minus"

or a "from/to" value? And just how much plus or minus should we add to be safe? Groundwater retailers face the same problem. When groundwater is blended (like whiskey or wine grapes) its potability can be improved by diluting undesirable characteristics. Two non-potable flows, with different undesirable characteristics, can be blended to yield potable water. But groundwater has the same issues of intrinsic variability as other geologic media—concentrations go up and down over time. Minute-by-minute sampling of continuous feedstock flows is impossible, so what "one number" does one use for designing the blends, knowing

that the number must be adequately conservative that the resulting water must never fail potability standards?

In Southern California, we can expect to see more water blending as population growth taxes our available groundwater

resources. This presentation looks at the nature of variability in groundwater chemistry and several methods to characterize it for use in potable water blending.

Speaker Biographical Information:

Matt Werner began his career in 1973 in the Central Appalachians and Newark Basin evaluating seismic and fault hazards for nuclear generating stations and foundation conditions for pipe- and power-lines. He was transferred to California in 1978 to manage fault hazard studies for a proposed LNG off-loading facility at Point Conception. After changing firms in 1979, he led field teams evaluating geologic conditions and hazards at MX missile deployment areas in the Basin and Range. From 1981 to 1985 his focus was on tectonic, geomechanical and hydrogeologic conditions around mined openings proposed to house spent nuclear fuel in salt domes in the Gulf Coastal Plain. Between 1986 and 1992, he managed geologic mapping, drilling, seismic and geomechanical characterization to support Title I design of a proposed 50-mile tunnel for a Superconducting Super Collider in the chalk/marl of central Texas. For the next three years he mapped and tested abandoned homestead water wells in the Antelope Basin. In 2000, following a two-year stint writing successful proposals for government contracts and a three-year stint managing the firm's Honolulu office, he returned to California and more technical endeavors. For the past five years he has evaluated groundwater conditions in the Bunker Hill Basin, with particular emphasis on groundwater use by the City of Riverside. Matt has a PhD from Penn State and is a California CEG and CHg. He is a Senior Project Director with 25-years of seniority at Earth Tech.

From the Chair

Chair Column (by **Matthew Hawley**)

[Hello Southern California Section!](#)

[Legislative Issues Persist](#)

As you all are likely aware, our Section along with the other California Sections recently pressed onward to Sacramento to fight for the continuation of the Board for Geologists and Geophysicists (BGG). Senate Bill 228 (SB228, **Figueroa**) proposes to continue with the BGG until 2011-2012 and AEG is in favor of its passing.

The Governor's administration however, does not believe the Board provides a measurable level of service to the public and has thus indicated to **Governor Schwarzenegger** that this bill should not be signed into law. In fact, the Department of Consumer Affairs (DCA, where the BGG is located) recommended that the services provided by the BGG be blended into those provided by the Board for Professional Engineers and Land Surveyors (BPELS) as they are larger in number, and thus must be a better organization. This

strong-arm tactic by the DCA was summarily rejected by Senator Figueroa as baseless and too late in the process for consideration. However, the Governor has indicated he will not sign the bill if this proposed merger is rejected by Figueroa, the Senate and the Assembly. Thus, the BGG will sunset and the BGG will become a Bureau.

Based on the e-mails, phone calls and discussions I had with AEG members, the proposed merger was not highly welcome. However, the Bureau idea was not so welcomed either. What to do, what to do??

In order to campaign for our and the public's interests, a two-pronged front was formulated. The first was a letter-writing campaign to the Legislative Business and Professions Committee, the DCA and the Governor to indicate the level of support the profession has for the Board and to indicate the flaws with the proposed merger. I must say this campaign went very well as I personally reviewed nearly three dozen letters all of which were nicely prepared and insightful.

The second was the formulation of a Political Action Group (PAG) to march on Sacramento to show our support for SB 228 and Senator Figueroa and to indicate the faults with the proposed merger. The Group went up on Tuesday June 28th and spoke to the Legislative Business and Professions Committee. Focused, as of one mind and body, our Group presented our arguments to the Committee. The resulting vote was a 10-0 decision in favor of the bill's passage without amendment. Because the Committee is composed of both Republican and Democratic representatives, it is our hope this outcome sends a message to the Governor that the BGG provides services that are not quickly or easily blended with other Boards and that the BGG does provide a valuable service for the public.

Although PAG left Sacramento with the best possible outcome for our efforts, it is our understanding that the fight is not yet won. Additional review and committees are forthcoming and additional efforts will be needed. I hope that we can count on your continuing efforts and additional efforts by those who have yet to become involved.

For this Newsletter, I'd like to specifically thank the following individuals who spent their own time and money to accompany me to present to the Legislative Committee:

- **Charles Nestle** - SoCal Section Vice Chair, CCGO Vice President
- **Brian Villalobos** - SoCal Section Treasurer
- **Roz Munro** - SoCal Section Secretary
- **Peter Thams** - SoCal Section Legislative Committee
- **Terri Wright** - SoCal Section Member Consultant
- **Dave Bieber** - AEG National President
- **Patrick Drumm** - San Francisco Section Chair
- **Darcie Forma** - Sacramento Section Vice Chair
- **Eric Chase** - Sacramento Section Member Consultant
- **Steve Baker** - Professional Engineers in California Government
- **Robert Holmer** - California Geotechnical Engineers Association Director
- **Tim Parker** - Groundwater Resources Association Director
- **Judy Wolen** - AEG Lobbyist

Thank you all very much for your participation and concern for the well-being of the geologic, hydrologic and geotechnical concerns in California. Well Done.

Chapter Officers

The new Chapters (Central Coast, Inland Empire and San Diego Chapters) are thriving and off to a great start. Congratulations to all of you working hard to make those groups come together.

As hard as it is to believe, the year is half over and my term as Chair is up in September. In line with the Changes for our Section officers, the Chapters will also need positions filled for the following year. At this time all positions are temporary but appear to have evolved into more permanent positions, which I am in favor of and glad to see.

However, I want the Chapters to have a more formal recognition of the officers for their groups and thus should plan on having their members vote to pick those positions for the following year. Ideally, I'd like to have these positions set by August of this year, which means that Chapter members need to vote on their officers at their July meeting – August meeting latest.

The voting process should be on the same scale as that for the Section, a verbal reply of Ayes or Nays to the candidates by the attending members. The outcome of this verbal response should then be indicated to the Section for recognition by the Section.

Finally, and if possible on such short notice, I'd like to have those officers elected for their respective positions attend the August Section meeting for a large-scale gathering that represents the membership. I'd also like this to become an annual event where the various officers can meet and greet at least once during their tenure. I think this format will build the relationships our community needs to keep our interests alive and kicking.

Section Officer

The end term for current officers is September of this year. In preparing for that time, we are looking for people interested to take on the seats that will become available. My term will end and **Charles** is planning to take that seat. **Brian Villalobos** has been a great Section Treasurer and is interested in the Vice Chair position. **Roz Munro** has decided she is interested in the Treasurer position.

Therefore, we are looking to fill the Officer position of Section Secretary. Please let me or any of the Section officers know if you are interested in this spot as we'd like to start grooming you as soon as possible.

Seminar

Julie Keaton, AEG's Professional Meeting Planner, has forwarded to me a list of short courses available to the Sections. The topics vary and I will ask for the input of the other officers for their choices that reflect the interests of our Section. I will let you know what the Section decides, but I anticipate the Seminar would likely occur outside of my tenure and into Charles's time as Section Chair.

If you or someone you know has a topic of interest, please let me know, and we'll consider it too.

That's it for now. As always, please stay active with **YOUR** organization, and ...
pay your dues.

Cheers – Matthew Hawley



Association of Engineering Geologists
Inland Empire Chapter, Southern California Section
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Phone (951) 924-6756, (909) 888-2422 www.aegsc.org

Frank Jordan, President
Organic Committee (Neo-Long-Term Planning)
Mike Cook
Frank Jordan
Doug Cook
Rick Gundry
Gary Wallace
Richard Orr, Chair, Membership Committee
(vacant), Education/Outreach Chair/Committee
(vacant), Field Trip Chair/Committee
(vacant), Speaker Liason

Richard R. Gundry, Treasurer
(vacant), Vice-President South
(vacant), Vice-President North
(vacant), Secretary
(vacant), Editor, Newsletter
(vacant), 2005 President-Elect
(vacant), Web-Person
(vacant), Govt Affairs Liason
(vacant), Media Representative
(vacant), Political ContactChair
(vacant), Fund-raising Chair

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., 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."

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

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 is scheduled 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. The Chapter bank account is \$601.03, thanks to Petras Sponsors, and those attenders at regular meetings who also donated.

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 3 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**

- Richard R. Gundry, "Acting"

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, or leave a message of RSVP at (951) 924-6756. Thanks.

Contact Information:

Richard R. Gundry, AEG 7745
PG 5602, CPG 8518

Agency Hydrologist - Water Rights
Southern California Agency
U.S. Bureau of Indian Affairs
Riverside, CA
(951) 276-6624, ext. 257
rick.gundry@verizon.net

Frank Jordan AEG 7022
PG 5984, CEG 1913, CHG 486

Engineering Geologist
Gary S. Rasmussen & Associates, Inc
Engineering Geologists
San Bernardino, CA
(909) 888-2422
geo.jordan@gmail.com

President's Message
AEG Inland Empire Chapter

The 2nd and 3rd initial meetings forming and organizing intent of the Inland Empire Chapter convened in San Bernardino, California, on 18-May- and 15-Jun-05. Again, like the 1st meeting in April, more incredibly productive 'meetings of the minds' with unanimous support, resulted in significant progress, and much fun.

Although President Frank and I were not available to attend the May meeting, the group that met had an election voting that we be the President and Treasurer, respectively (thanks people for you support). Thanks also to Mark Spykerman and Richard Orr as suddenly-appointed Committee Chairs convening the meeting ! Good Job ! Lots of business was conducted at the May meeting thanks to all who were attending and participating leading to steps ahead.

Besides that, a significant amount of work was performed resulting in even more results occurring in the recent June meeting, with one of the committees meeting in between, the Organic Committee, in Ontario on June 6th. Hat's off to all you that have attended or even supported this Chapter from other types of efforts. You are all appreciated very highly.

Please refer to the AEG Inland Empire web-page within the Southern California Section Website (Inland Empire Chapter) for information concerning meetings, meeting minutes, meeting announcements/agendas, Treasurers report and the like. <http://www.aegsc.org/chapters/inlandempire/> [Thanks Kerry Cato !] We now have a bank account too ! (And we need donations.) Following the meeting we received an inaugural Sponsor donation from **Leighton and Associates, Inc.** (Rancho California/Temecula Offices). We close the AEG Fiscal Year with \$ 301.03 in the bank, thanks to donations from attenders, and from a corporate donor, Chapter Sponsor **Leighton Group Companies** ! We accept Sponsor donations readily, with need !

Speaking of Temecula, **Temecula** is the destination for our **next meeting to occur at Hungry Hunter** for a big bunch of hungry geologists. Jeff Keaton has kindly offered to speak: " Soil Stratigraphy and Surface-Water Hydrology of Part of the Hualapai Valley near Kingman, Arizona, for Litigation Support ". Aside from what our speaker will inform us about, the main point of meeting is for attender discussion of interests, ideas and suggestions, and participation, involvement and leadership opportunities from AEG Professionals in the Murietta-Temecula area and surrounding areas that can make up the Inland Empire Chapter.

Those in attendance so far, with thanks and credit to twenty-two (22) of you, in the initial meetings thus far include: **Tony Chakurian, Leighton and Associates, Inc.; Richard Orr, Leighton and Associates, Inc.; Derik Howard, Leighton and Associates, Inc.; Paul Peterson, Earth Tech Inc.; Mark Spykerman, Earth Systems Southwest; Terrance Davis, CHJ Inc.; Gary Wallace, RMA Group; Frank Jordan, Gary Rasmussen and Associates, Inc.; Rick Gundry, Bureau of Indian Affairs (U.S. Department of the Interior); Cris Bingley, Consultant; Matt Hawley LGC; Doug Cook, Kleinfelder & Associates; Mike Cook, Kleinfelder & Associates; Jeff Keaton, AMEC; Richard Escandon, Kleinfelder & Associates; David Perry, Moffett & Nicoll; Janis Hernandez, California Geological Survey; Karl Harmon, Earth Systems Southwest; Shelton Stringer, Earth Systems Southwest; Scot Stormo, Earth Systems Southwest; Joey McKinney, Earth Systems Southwest, and Alex Schreiner, Earth Systems Southwest.**

Please note that we are planning 3 meetings in the Murietta-Temecula area ahead this year (July, September and November), and plan to meet alternately a bit north and south in the Inland Empire. I hope you're there.

- Rick Gundry, Treasurer
"Acting" for Frank Jordan, President

AEG's 50th Annual Meeting, September 24-29, 2007, Sheraton Universal, Los Angeles, CA

This announcement is intended to alert the AEG membership to the Golden Anniversary of AEG. We have been cruising along since the hotel contract was signed a few years ago, but now it the time to begin to get organized. I invite any and all who are interested to get involved. A number of tasks need to be done by AEG volunteers; however, many of the details are being handled by AEG's Meeting Planner, Julie Keaton (yes, we're related).

The first thing that needs to be done is fun. We need a meeting theme and a logo to go with it. Please start thinking of ideas as we all get ready to go to the 48th Annual Meeting "Under the Neon" in Las Vegas. At that meeting, of course, we will hear about the 49th Annual Meeting "From Till to Fill" in Boston. The Southern California Section needs to have the theme, logo, and some general ideas about technical sessions, symposia, field trips, and social events in a form to be presented to the attendees in Boston.

Another item that deserves some quality thought is AEG's Outstanding Environmental and Engineering Geologic Project Award. It does not have to be a local, Southern California project, but hey, why not think about quality projects that are in our back yard? The Outstanding Project Award in 1995 went to the West Coast Basin, Dominguez Gap, and Alamitos Seawater Intrusion Barrier System, Los Angeles, California. Check out page 49 in your January 2005 AEG News 48 (Annual Report and Directory) for past projects and criteria for nomination.

I am looking forward to working with a bunch of you Southern California Section AEG members to put on a memorable 50th Annual Meeting for the Association membership. Please feel free to get in touch with me with all of your ideas at my new address listed below.

Jeffrey R. Keaton, PhD, PE, PG
MACTEC Engineering and Consulting, Inc.

200 Citadel Drive
Los Angeles, CA 90040
phone: (323) 889-5300
cell: (323) 215-8454; e-message: 3232158454@cingularME.com
fax: (323) 889-5308
e-mail: jrkeaton@mactec.com

Section Business Donation

- Platinum - \$500
- Gold - \$250
- Silver - \$125

Company receives a line in the section newsletter giving their name or their company name under the appropriate metallic heading.

National Business Donation

- Platinum - \$1,000
- Gold - \$500
- Silver - \$250

Company name, address and contact information are presented in AEG News and section receives 10% of donation. A national donation does not yield a line in our local section newsletter.

Company & Employment Advertising

	<u>Month</u>	<u>Year</u>
▪ Business Card	\$10	\$100
▪ 1/4 Page	\$20	\$200
▪ 1/2 Page	\$35	\$350
▪ Full Page	\$50	\$500

* The deadline for submitting an advertisement for next month's newsletter is Friday, July 29.

YEAR 2005 CONTRIBUTORS NEEDED

Contributions from corporations and individual members are greatly appreciated. Contributors will be listed in our newsletter throughout the year and can post their logo or business card in the newsletter if so desired. Please mail contributions made out to **AEG** to our section treasurer, Brian Villalobos.

2005 MEMBERSHIP RENEWAL

For those of you who have not yet renewed **(the deadline was November 1)**, are unsure about your membership status, or did not receive your membership dues statement, please contact AEG Headquarters at www.aegweb.org. You can renew your membership online. Please update your membership if you wish to continue to receive future issues of the newsletter.

EMPLOYMENT OPPORTUNITIES & ADVERTISING



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Email: kesmond@lgcgeo.com

1319 Calle Avanzado
San Clemente, CA 92673
Tele: (949) 369-6141 Fax: (949) 369-6142
Email: info@lgcgeo.com

Website: www.lgcgeo.com

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0 to 3 years experience, BS in civil engineering (MS a plus), EIT certificate, familiarity with slope stability and liquefaction calculations.

Project Geotechnical Engineer/Engineering Geologist

3 to 6 years experience in geotechnical consulting, California PE or PG registration (GE or CEG a plus), project management, project planning, excellent report and proposal writing capability.

Engineering Technician

2 to 4 years experience in grading and post grading projects, good written and oral communication skills. NICET and city certifications a plus.

Send Resumes to:

Matthew G. Rogers, PE, GE
Zeiser Kling Consultants, Inc.
1221 East Dyer Road, Suite 105
Santa Ana, CA 92705
(714)755-1366 Fax
e-mail: jobs@zkci.com

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Primary duties include: Management of petroleum related subsurface investigation and remediation projects. Will be responsible for providing oversight for all activities associated with such projects including report writing, and managing all field staff and resources. Candidate must have an ability to plan and organize field assignments and construction activities, as well as provide strategic direction for the projects. This would involve the preparation and review of work plans and sampling plans, oversight of staff completing field sampling, evaluating and interpreting environmental and hydrogeologic data, and assisting and reviewing report preparation. BS/BA in Geology, with California RG/PG required, along with 5 to 8 years of experience.

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Corporate Address: 2950 Oleta Ln, Highland, California 92346

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