

January 2016 Meeting Announcement

“An Introduction to the CPT for geotechnical and geo-environmental applications”

Dr. Peter Robertson

Technical Advisor, Gregg Drilling & Testing Inc., USA
and Gregg Canada Ltd

Professor Emeritus, University of Alberta, Canada

Thursday, January 21st, 2016

Location: Pinnacle Peak Steakhouse, Colton, CA

See speaker & meeting details on pages 3 - 4

RSVP to aeginland@gmail.com by **5:00pm, Tuesday January 19, 2016.**

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The AEG-Inland Empire Chapter wants to thank Dr. Jeff Keaton, Principle Engineering Geologist with AMEC Foster Wheeler, for his lecture "Earthquake Ground Motion for Design of the Hoover Dam Bypass Bridge (US Highway 93)" at our December meeting. I was unable to attend the December 9th meeting due to other obligations but, if you did attend, your presence was appreciated. I hope everybody's holidays and new year celebrations were joyful and festive.

From last month's message, I wanted to recap this scenario and provide a limited update because I find this interesting. Our Development Review section received an inquiry from one of the cities on the Palos Verdes Peninsula about property on active landslides. A property owner with property of one of the active landslides on the peninsula wanted to sell their property and hired a surveyor to define the property boundaries. The surveyor's question, which was forwarded to the County through the city, was "should his benchmark be outside of the landslide", or should he "determine where the property boundaries would be based on where they are currently located with respect the property". If he uses a benchmark outside of the active landslide then, a portion of the physical property would be located on someone else's lot. The bottom line is the current property lines are not in the locations as originally surveyed. To date, we have not received any response from either our County Survey Division or our Counsel and we are researching our archives for past precedence although, without much success. My guess is this can't be the first time an event like this has occurred but, if you have an opinion or any ideas, I would appreciate your input on the matter.

As we begin 2016 (or any new year), I'm consistently drawn to and interested with the numerous lists of the top things, discoveries, etc. from various sources that have occurred the previous year. The December 30, 2015 issue of the AEG Insider is a prime example. If you haven't had a chance to look at your issue (provided you are a member of AEG), it might be worth a look. The top "Science Highlights" articles of 2015 include topics such as "A new way to find old maps" from the U.S.G.S., "How could a pile of dirt cause a major interstate bridge to tilt?" from GeoPrac.net, "Rivers of blue fire erupt from Indonesia's volcanoes" from Nerdist, "The Samarco dam failure: An intriguing video" from the American Geophysical Union, "Mutant fossils reveal toxic metals may have contributed to the world's largest extinctions" from the U.S. Geological Survey, and "On the unstoppable rise of vineyard geology" by Oxford University Press, among others. Quite a varied list of titles from across the planet so, go have some fun with it.

We look forward to meeting and seeing you at this month's talk titled "An Introduction to the CPT for geotechnical and geo-environmental applications" by Dr. Peter Robinson, Technical/Managerial Advisor with Gregg Drilling and Testing, Inc. out of Signal Hill, CA. By the way, I believe CPT is the acronym for "cone penetrometer". Hope to see you at Pinnacle Peak on Wednesday, January 20th.

Greg Johnson, Chair
AEG Inland Empire Chapter

Note from the Editor

SPONSOR! SPONSOR! SPONSOR!

We are looking for companies to be annual sponsors so more students can get involved by attending at a lower cost. So help the students out while you market your business.

Students!!! If you attend the meeting, you can email me your resume after the meeting and it will be included in the next months newsletter.

Members, if you have any announcements, please email me the information by the 25th of the month. Otherwise the information will be put into the following month's newsletter. Thank you, and I look forward to seeing you at the next event.

James Burns
AEG-IE Newsletter Editor

Dr. Peter Robertson

Technical/Management Advisor

Gregg Drilling and Testing, Inc. Signal Hill, California

“An Introduction to the CPT for geotechnical and geo-environmental applications”



ABSTRACT

The Cone Penetration Test (CPT) is becoming increasingly popular as a site investigation method for most soil conditions. The test is fast, continuous and repeatable and the results can be interpreted for a wide range of geotechnical and geoenvironmental applications. Additional sensors have been added to the probe for various geoenvironmental applications. This presentation will provide an introduction to the CPT and highlight the main applications

SPEAKER BIOGRAPHY

Dr. Peter Robertson brings more than 40 years experience as an educator, researcher, consultant and practitioner specializing in the areas of in-situ testing and site investigation, earthquake design of geotechnical structures, and soil liquefaction. Peter is recognized as an expert both nationally and internationally in the areas of in-situ testing and soil liquefaction. He has been a consultant to various industrial clients and insurance companies in North America, Asia and Europe for projects involving liquefaction evaluation for major structures, stability of on-shore and off-shore structures, landslides, stability of natural slopes and tailings dams, and use and interpretation of in-situ tests. He is the co-author of the primary reference book on Cone Penetration Testing (CPT). He has also authored or co-authored over 250 publications as well a popular CPT Guide that is freely available via the Gregg website. With support from Gregg Drilling & Testing Inc., Peter has also assisted in the development of several inexpensive CPT based interpretation software programs and has presented a series of free webinars on the CPT in an effort to enhance education and practice. Peter continues to provide private consulting to a wide range of clients

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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. For more information visit the Chapter website:

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

Submittals: Deadline, 25th of the month. Employment notices, job position announcements, and advertisements can be posted for a minimal fee. Newsletter circulation exceeds 300 people in greater inland areas of Southern California, and elsewhere.

E-Mail Address changes:

aeginland@gmail.com

AEG-IE JANUARY MEETING DETAILS

Date/Time	Thursday, January 21, 2016. Social hour 5:30 - 6:30 Dinner 6:30 - 7:15 Announcements 7:15 - 7:30 Talk and Q&A 7:30 - 8:30
Location	Pinnacle Peak 2533 La Cadena Drive South Colton, CA 92324
Cost	\$25 with RSVP \$10 per student with RSVP and proof of valid student ID \$30 for walk-ins without RSVP
RSVP	aeginland@gmail.com Deadline is COB Monday, January 19, 2016 Individuals who RSVP but do not attend may be charged if the final attendance does not meet the restaurant guarantee.

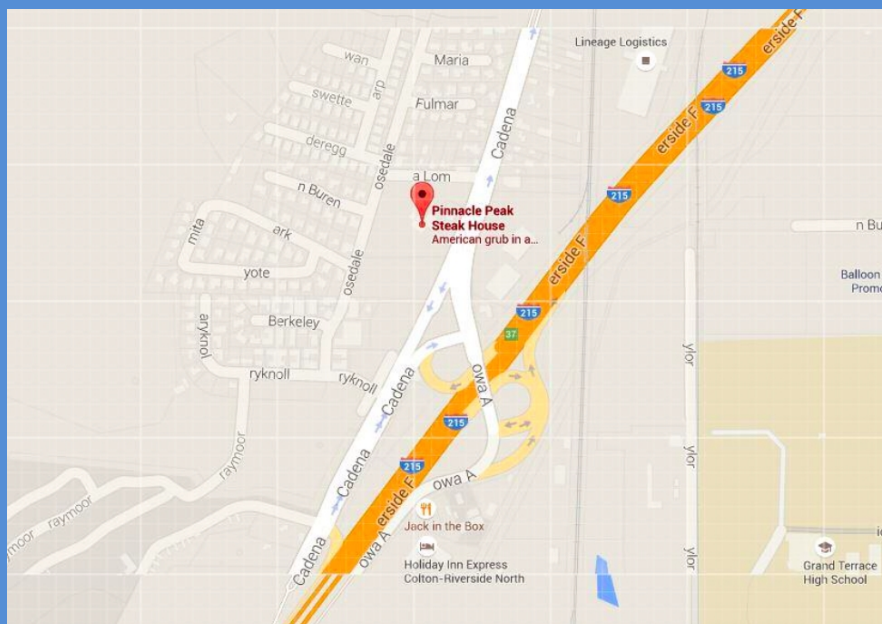
DIRECTIONS TO THE MEETING LOCATION

Directions: From I-215 Heading South:

1. Exit Barton Road and merge onto La Crosse Ave
2. Turn Right onto Barton Road
3. Turn slight Left onto La Cadena Drive South
4. Destination on right. (2533 La Cadena Drive South).

Directions: From I-215 Heading North:

1. Exit South Iowa Avenue.
2. Turn Right onto South Iowa Avenue
3. Continue onto La Cadena Drive South
4. Make a U-Turn at West La Loma Street
5. Destination on right. (2533 La Cadena Drive South).



OTHER MEETINGS

AEG-Southern California Section: January 2016 Meeting TBD.

For more information visit: <http://www.aegsc.org/>

AEG-Inland Empire Section: January 21, 2016 (Thursday). *"An Introduction to CPT to geotechnical and geo-environmental applications"* Speaker: Dr. Peter Robertson, Gregg Drilling and Testing, Inc.

For more information visit: <http://www.aegsc.org/chapters/inlandempire/>

ASCE: (Orange County Branch). January 26, 2016 (Tuesday). General Meeting. For more info visit: <http://www.asceoc.org/>

ASCE: (San Bernardino-Riverside County Branch). January 2016 Meeting TBD. For more info visit: http://www.asce-sbriv.org/asce_new/calendar.html.

ASCE: (San Diego County Branch). January 28, 2016 (Thursday) Groundwater Sustainability Seminar. For more info visit: <http://www.asce-sd.org/>

EERI: (San Diego). TBD. For more info, visit: <http://sandiego.eeri.org/>

GRA: January 13, 2016 (Wednesday). Sacramento Branch Meeting with Laurie Racca, PG. January 20, 2016 (Wednesday). San Francisco Bay Regional Water Board's Annual Regulatory Update. See Website for Meetings. For more info, visit www.grac.org/

IGS: January 7, 2016 (Thursday) "Evidence for Middle Pleistocene Surface Uplift of the Northern Cady Mountains" and "Possible Origin of the Myth that California is Falling into the Ocean" Speaker: Dr. Norman Meek of CSUSB Dept of Geography. For more info visit: <http://www.inlandgeo.org/>

LA Basin: January Meeting TBD. For more info visit: <http://www.labgs.org/>

SCGS: January 12, 2016 (Tuesday). Topic: *Geologic Highlights and Scientific Literacy* Speaker: Jeff Miller, PG. For more info visit: <http://www.southcoastgeo.org/meetings.shtml>.

SME: January Meeting TBD. For more info visit: <http://mine-engineer.com/socalmining/>

SDAG: January 27, 2015 (Wednesday). Topic: TBD

Annual Field Trip, 2016: *TBD*

For more info visit: <http://www.sandiegogeologists.org/Meetings.html>

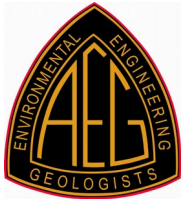
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AEG MEMBER BENEFITS

◆ Conferences -

You will find value at both Annual Meetings and Specialty Conferences and in the technical knowledge and continuing education you receive at these meetings. ([More Info](#))

◆ Networking Opportunities -

With over 3000 members, AEG provides you with access to a wide network of Environmental and Engineering geology professionals at both our local section meetings and at national conferences. ([More Info](#))

◆ Publications -

AEG News, the Environmental & Engineering Geoscience Journal, and the *AEG Insider* contain relevant geoscientific information, updates on AEG activities, and engaging scientific interest stories. ([AEG News](#))([AEG Insider](#))

With benefits like these, of course you want to be part of AEG! We encourage you to spread the word – talk to your co-workers, classmates and friends about AEG and all it has to offer.

REMEMBER:

- Student Membership is **FREE!**
- Graduating student receive their first year of full membership for FREE as our Graduation Gift to you (Contact us at aeg@aegweb.org to receive your gift)

If you have – **thank you!** Full members receive discounted registration for Annual Meetings and Specialty Conferences.

If you have any questions regarding your membership status or would like to join, please call one of our officers.

AEG_Inland Empire Chapter

2015-2016 Monthly Speaker Schedule

Meeting Date	Guest Speaker	Title of Presentation
Wednesday, October 21, 2015	Dr. Jonathan C. Matti - Geologist, U.S. Geological Survey	<i>The San Andreas Fault system in the Inland Empire region: What is known and what remains to be known</i>
Thursday, November 12, 2015	Dr. Norman Meek - Chair of the Department of Geography and Environmental Studies, CSUSB	<i>How (In)Effective is the Headward Erosion Process</i>
Wednesday, December 09, 2015	Dr. Jeff Keaton - Principal Engineering Geologist, AMEC Foster Wheeler, Los Angeles, CA	<i>Earthquake Ground Motion for Design of Hoover Dam Bypass Bridge</i>
Wednesday, January 20, 2016	Dr. Peter Robertson - Technical/Management Advisor Gregg Drilling and Testing, Inc. Signal Hill, California	<i>An Introduction to the CPT for geotechnical and geo-environmental applications</i>
Wednesday, February 17, 2016	Dr. Sally McGill - Chair of the Department of Geologic Sciences, CSUSB	<i>Distribution of fault slip across the Pacific-North America plate boundary in southern California: Recent results from geologic and geodetic studies</i>
Wednesday, March 16, 2016	Dr. David Oglesby - Chair of the Department of Earth Sciences, UCR	<i>Dynamic models of an earthquake and tsunami offshore Ventura, California</i>
April 2016	INLAND GEOLOGICAL SOCIETIES-JOINT MEETING: AEG-IE, IGS, SME, CSUSB	TBA
May 2016	Short Course	TBA
June 2016	Dr. John Izbicki - Geologist, U.S. Geological Survey	TBA



OPPORTUNITY TO VOLUNTEER



California Earthquake Clearinghouse



Would you like to help out in the event of a damaging earthquake? With your expertise emergency responders can effectively manage earthquake response without the risk of butting heads or micromanaging responders. This is one of the goals of The California Earthquake Clearinghouse and they are expanding into our area. The CEC looking for geologists, engineers and other professionals to help coordinate earthquake field investigations as well as share their knowledge with emergency responders and the engineering and scientific communities. Benefit from shared information, situational awareness, FEMA training and limited liability coverage training. You can find a more detailed history of the CEC, events they have responded to and reasoning behind its creation here:

www.californiaeqclearinghouse.org

Interested? Additional Questions?

Contact

Andrew Robinson

Geochemistry Laboratory Specialist

Vice Chair South AEG-IE

arobi002@ucr.edu



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS



JOB OPPORTUNITY

Posting Date: December 22, 2015

EXAM NUMBER C43710 FILING DATES

SALARY REQUIREMENTS

REQUIREMENT INFORMATION

SPECIAL INFORMATION

EXAMINATION INFORMATION

ELIGIBLE INFORMATION

VACANCY INFORMATION

ESSENTIAL JOB FUNCTIONS

ENGINEERING GEOLOGIST

Beginning Tuesday, December 22, 2015 until the needs of the service are met and may be closed at any time without advanced notice.

\$7,834.00 - \$8,731.00 Monthly

A valid California State Certificate of Registration as an Engineering Geologist. A valid California Class C Driver License or the ability to utilize an alternative method of transportation when needed to carry out job-related essential functions. Physical Class III – Moderate: Includes standing or walking most of the time, with bending, stooping, squatting, twisting, and reaching; includes working on irregular surfaces, occasionally lifting objects weighting over 25 pounds, and frequent lifting of 10-25 pounds

Before a final appointment is made to this position, candidates are subject to security clearance which includes fingerprinting. An individual may be withheld from appointment, if he/she has a conviction record incompatible with the essential duties of the position for which he/she has applied. Any false statement or omission of material fact may cause forfeiture of employment rights. Information presented on employment applications, resumes and during the examination process is subject to verification. Disqualifying factors may include but are not limited to: felony convictions, certain job-related misdemeanor convictions, certain serious traffic convictions or patterns of traffic violations (e.g., 4 or more moving violations within the past 2 years, failure to appear, at-fault accidents, and driving under the influence), illegal use of certain controlled substances and/or poor employment history.

This examination will consist of an interview covering education, training, experience, personal fitness, and general ability to perform duties of the position weighted 100%.

The names of candidates receiving a passing grade in the examination will be placed on the eligible register in the order of their score group for a period of twelve (12) months following the date of eligibility. **NO PERSON MAY COMPETE IN THIS EXAMINATION MORE THAN ONCE EVERY TWELVE (12) MONTHS.** Applications will be processed on an as-received basis and will be promulgated to the eligible register accordingly.

The resulting eligible register for this examination will be used to fill a vacancy in the Department of Public Works, Geotechnical and Materials Engineering Division.

An Engineering Geologist is responsible for performing a combination of the following essential job functions: conducts geological and hydrogeological investigations, American Society for Testing and Materials (ASTM) Phase I and Phase II environmental site assessments and environmental site remediation; performs and completes environmental testing and characterization of soil, groundwater, and materials; prepares geologic, hydrogeologic and environmental investigative reports; performs various types of geological and environmental logging and sampling; reviews, evaluates, and field checks plans for development projects from an engineering geology perspective; provides technical review of engineering geology reports and environmental site assessments for development projects; conducts grading and construction inspections of projects to verify anticipated geologic conditions; prepares for and conducts meetings, discussions, and other communications with consultants, developers, engineers, etc.; evaluates and determines the most appropriate exploratory and monitoring techniques to be used for a given project; prepares and analyzes cost estimates for geologic investigations and environmental site assessments; evaluates and analyzes geologic and environmental data to develop conclusions and recommendations for private and public development projects; prepares bid specifications, evaluates bid responses and oversees geologic and environmental work performed on County projects by outside consultants; field checks residential and subdivision lots, locations of buttresses, retaining walls and sub-drains, and general geological structure in cuts to ensure conformity with submitted grading plans and to verify geological structures in the area of these improvements are as originally anticipated; designs and oversees the installation of piezometers, monitoring wells and geotechnical instrumentation; may drive vehicles to and from work sites; and walks/hikes on steep uneven terrain, while occasionally carrying heavy gear and equipment.

IMPORTANT INFORMATION

Engineering Geologist Exam#: C43710

SUBMITTING YOUR APPLICATION

All applicants are required to submit a Standard County of Los Angeles Employment Application. You have the option of filing your application either by Hard Copy submission – OR – Online (via electronic submission). **Please select only one method to file your application.**

This examination will remain open until the needs of the service are met and is subject to closure without prior notice.

Instructions for Filing Online: The Standard County of Los Angeles Employment Application for this examination may be completed online and submitted electronically beginning Tuesday, December 22, 2015. Applications electronically received after 5:30 p.m., PST on the last day of filing will not be accepted. To apply online, click on the link below on or 12/22/15:

<https://www.governmentjobs.com/careers/lacounty/jobs/1269587/engineering-geologist>

Candidates who apply online must upload any required documents as attachments during application submission or fax the documents to (626) 979-5440 within five (5) business days of filing online. Please include your Name, Exam Number and the Exam Title on the faxed documents.

Instructions for Hard Copy Submission: A Standard County of Los Angeles Employment Application for this position **MUST** be submitted **ONLY** at the Department of Public Works, Human Resources Division, located at 900 South Fremont Avenue, Lobby Floor, Alhambra, CA 91803-1331, Monday through Thursday ONLY, between 7:00 a.m. and 5:30 p.m., beginning Tuesday, December 22, 2015. Applications not submitted to the Department of Public Works will not be accepted. **Please note this office is closed on Fridays.**

Facsimiles of employment application to the Human Resources office will not be accepted. For additional information call the Human Resources office at (626) 458-2141. Standard County of Los Angeles Employment Applications are available at the Department of Public Works address listed above or can be found at http://file.lacounty.gov/dhr/ehr/cms1_160546.pdf

COMPLETING YOUR APPLICATION

The acceptance of your application will depend on whether you have **clearly** shown that you meet the **Minimum Requirements**. Please be sure your application shows complete information. In the space provided for education, include the names and addresses of schools attended, titles of courses completed, dates completed, and number of credits earned. For each job held, give the name and address of your employer, your job title, beginning and ending dates, description of work performed, and salary earned. All information supplied by applicants is subject to verification.

EMPLOYMENT ELIGIBILITY INFORMATION

Final appointment is contingent upon verification of U.S. citizenship or the right to work in the United States. Immigration law requires that all persons hired after November 6, 1986 are required to present original documents to the County, within three (3) business days of hiring, which show satisfactory proof of: 1) identity and 2) U.S. employment eligibility.

AN EQUAL OPPORTUNITY EMPLOYER

It is the policy of the County of Los Angeles to provide equal employment opportunity for all qualified persons, regardless of race, religion, gender, national origin, age, sexual orientation or disability.

SOCIAL SECURITY ACT OF 2004

Section 419(c) of Public Law 108-203, the Social Security Protection Act of 2004, requires State and local government employers to disclose the effect of the Windfall Elimination Provision and Government Pension Offset Provision to employees hired on or after January 1, 2005, in jobs not covered by Social Security. The County of Los Angeles does not participate in the Social Security System. All newly hired County of Los Angeles employees must sign a statement (Form SSA-1945) prior to the start of employment indicating that they are aware of a possible reduction in their future Social Security benefit entitlement. For more information on Social Security and about each provision, you may visit the website www.socialsecurity.gov or call toll free 1-800-772-1213. Persons who are deaf or hard of hearing may call the TTY number 1-800-325-0778 or contact a local Social Security office.

CHILD SUPPORT COMPLIANCE

In an effort to improve compliance with court-ordered child, family, and spousal support obligations, certain employment and identification information (e.g., name, address, Social Security Number, and date of hire) is regularly reported to the State Directory of New Hires which may assist in locating persons who owe these obligations. Family Code Section 17512 permits under certain circumstances for additional employment and identifying information to be requested. Applicants will not be disqualified from employment based on this information.

VETERAN'S PREFERENCE CREDIT

Veterans Preference Credit of 10 points will be added to the final passing grade in any open competitive examination if you are an honorably discharged veteran who served in the Armed Forces of the United States:

- a) During a declared war; or
- b) During the period April 28, 1952 through July 1, 1955; or
- c) For more than 180 consecutive days, other than for training, any part of which occurred after January 31, 1955, and before October 15, 1976; or
- d) In a campaign or expedition for which a campaign medal or expeditionary medal has been authorized and awarded.

This also applies to the spouse of such person who, while engaged in such service was wounded, disabled or crippled and thereby permanently prevented from engaging in any remunerative occupation, and also to the widow or widower of any such person who died or was killed while in such service. A DD214, Certificate of Discharge or Separation from Active Duty, or other official documents issued by the branch of service are required as verification of eligibility for Veterans preference. If you are unable to provide any documentation at the time of filing, the 10 points will be withheld until such time it is provided.

DEPARTMENTAL POLICY

In accordance with Departmental policy, no person may be appointed, promoted, reduced, transferred or reassigned to a division in which a close family member works, exceptions may be considered on a case by case basis based on unique or specialized employee skills. All applicants for employment and promotion to a position within this department shall be required to disclose the name(s) of any relative currently employed in the department prior to appointment.

RECORD OF CONVICTIONS

A full disclosure of all convictions is required. Failure to disclose convictions will result in disqualification. Not all convictions constitute an automatic bar to employment. Factors such as your age at the time of the offense(s), and the recency of offense(s) will be taken into account, as well as the relationship between the offense(s) and the job(s) for which you apply. However, any applicant for County employment who has been convicted of workers' compensation fraud is automatically barred from employment with the County of Los Angeles (County Code Section 5.12.110). **ANY CONVICTIONS OR COURT RECORDS WHICH ARE EXEMPTED BY A VALID COURT ORDER DO NOT HAVE TO BE INCLUDED.**