Association of Environmental and Engineering Geologists

AEG Inland Empire Chapter Newsletter

of the Southern California Section

June 2014 Vol.10 No. 7

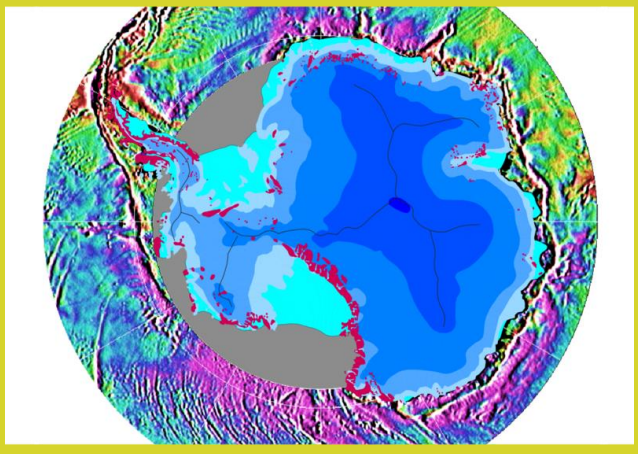
www.aegsc.org/chapters/inlandempire

June 2014 Meeting Announcement

"Advancement in Fundamentals of Various Geophysical Methods and Instrumentation"

Hans van de Vrugt

P.G., C.E.G., R.Gp.



Wednesday, June 11, 2014

5:00 – Social 6:00 – Dinner 7:00 - Program

Location

Lonestar Steakhouse in Lake Elsinore

(Meeting Cost $30 with RSVP; $35 without RSVP; Students $15 with proof of student ID);

See meeting details on pages 3 - 7

RSVP to desmond.chung@geobrugg.com by 5:00pm, Monday June 9, 2014

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Chair's Message

Hello all, just finished a great day at our annual short course. This year our presenters, Jorge Meneses (of GEI Consultants) and Jennifer Thornburg (from CGS) covered the changes required for seismic assessment for projects under the 2013 CBC. A very enlightening presentation and very well attended. I wish to thank all of those who attended, making this year's short course a rousing success. As this is the Chapter's main fund raiser for the year, it is gratifying to see such a good turnout which enables the Chapter to continue to support various programs aimed at helping and encouraging area students who are pursuing careers in earth science and the environmental fields.

Now we are looking forward to this month's meeting where Hans van de Vrugt will regale us with his expertise in geophysics, a somewhat "black art" to many of us but a very powerful investigative tool. The meeting this month is set somewhat earlier than usual to accommodate Han's schedule, so I look forward to seeing all of you on June 11 at the Lonestar Steakhouse in Lake Elsinore. Directions and the times for the meeting are contained in this newsletter.

Again, I want to thank all who attended our short course and a very special Thank You to Kerry Cato for his fabulous effort in putting this whole endeavor together. We as a Chapter are all, I am sure, indebted to Kerry for all his unflagging efforts through the years to ensure the continuing success of our chapter. He truly should be regarded as our "Chairman Emeritus"!

See you all on June 11.

Best regards,
David Gaddie, Chair
AEG Inland Empire Chapter

We are growing! So come join us, and see what's happening!

Note from the Editor

We had 66 attendees at the May Short Course, and we are growing. Support the society so we can keep the interest in the industry with the next generation.

SPONSOR! SPONSOR! SPONSOR!

We are looking for companies to sponsor our meetings so more students can get involved by attending for free. So help the students out while you market your business. Email me for more information

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.

Desmond Chung
AEG_IE Newsletter Editor

Hans van de Vrugt

"Advancement in Fundamentals of Various Geophysical Methods and Instrumentation"

INTRODUCTION

Mr. van de Vrugt will discuss the fundamentals of various geophysical methods and instrumentation including ground penetrating radar (GPR), electromagnetics, magnetics, and seismics; the application to environmental, geotechnical, construction, and forensic projects; and data interpretation. The presentation will cover recent advances predominantly in computers and software, advantages and limitations of geophysics, and how it can be used as a cost saving tool. Also included are case histories emphasizing the use of geophysics to characterize subsurface stratigraphy, locate voids, delineate landfills, locate earthquake faults, detect utilities, and locate USTs.

SPEAKER BIOGRAPHY

Hans van de Vrugt, P.G., C.E.G, R.Gp.

Mr. van de Vrugt received a B.S. degree in Geological Sciences with an emphasis in Geophysics from SDSU in 1988, and a M.S. Degree in Geological Sciences specializing in Seismology from SDSU in 1995. He has been practicing engineering geology and geophysics since 1989 where he began with Leighton & Associates in Temecula. In 1991 he moved on to Ninyo & Moore and in 2004 he left and formed Southwest Geophysics, Inc. Mr. van de Vrugt's geotechnical, geological, and geophysical experience has included a variety of project types, including bridges, tunnels, highways, mines/quarries, hotels, pipelines, wastewater treatment facilities, power plants, and industrial, commercial, and residential developments. Projects have included fault hazard evaluations, landslide and slope stability studies, geologic reconnaissance evaluations, mineral resource studies, groundwater studies, forensic evaluations, archaeological studies, and construction testing and inspection services. His background in geotechnical engineering and geology has allowed him to efficiently integrate geophysics to provide real world solutions.

Recent geophysics projects at Southwest Geophysics, Inc. have included detection and location of illegal border crossing tunnels using seismic tomography, Sting, and remote controlled sondes; locating lava tubes in Oahu, Hawaii through the measurement of total field magnetics; locating objects of archaeological interest in Old Town, San Diego using ground penetrating radar; and the hydrogeological characterization of the Fargo Canyon Subarea near Indio, California utilizing high resolution electrical resistivity (Sting), seismic tomography, and controlled source audio magnetotellurics/magnetotellurics (CSAMT/MT);

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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/chapters/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:
desmond.chung@geobrugg.com

AEG-IE June Meeting Details

Date & Time Wednesday, June 11, 2014.
Social hour 5:00 to 6:00,
Dinner 6:00 to 6:45
Announcements 7:00 to 7:15
Talk and Q&A 7:15 to 8:15

Location Lonestar Steakhouse
18601 Dexter Avenue
Lake Elsinore, CA 92532

Meal See attached menu

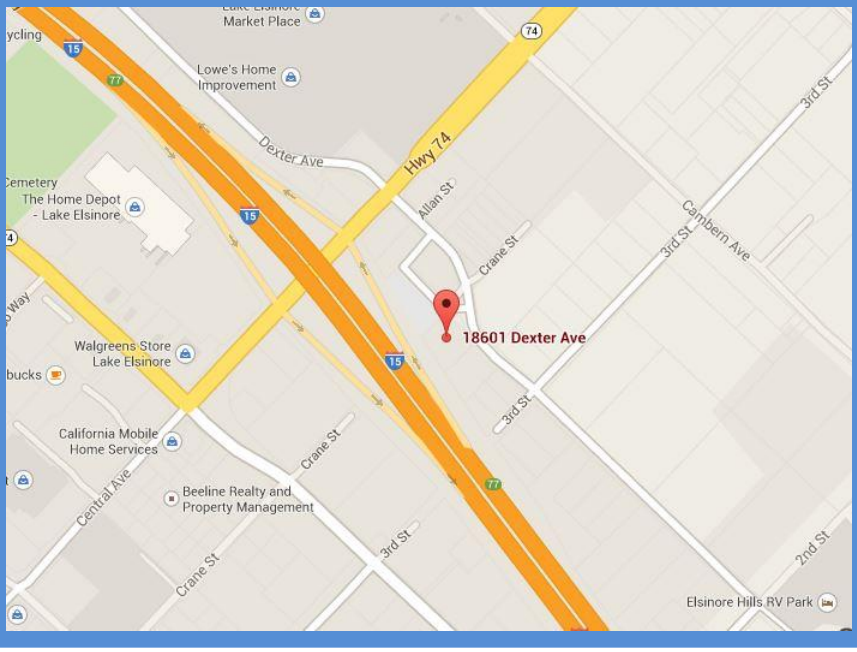
Cost $30 with RSVP
$35 without RSVP
$15 per student with proof of valid student ID

RSVP **desmond.chung@geobrugg.com** **Deadline is Monday June 9, 2014.**
Individuals who RSVP but do not attend may be charged if the final attendance does not meet the restaurant guarantee.

DIRECTIONS TO THE JUNE MEETING LOCATION

Directions: From I-15 Heading South:
1. Exit CA-74/Central Ave and Turn Left.
2. Turn Right onto Dexter Ave.
3. Destination will be on the Right (18601 Dexter Ave).

Directions: From I-15 Heading North:
1. Exit CA-74/Central Ave and Turn Right.
2. Turn Right onto Dexter Ave.
3. Destination will be on the Right (18601 Dexter Ave).



ANNOUNCEMENTS & OTHER MEETINGS

OTHER MEETINGS

AEG-Southern California Section: June meeting TBD. For more information visit: http://www.aegsc.org/

ASCE: (Orange County Branch). June 5, 2014 (Thursday). Topic: **"The Carlsbad Desalination Project: A New, Drought-Proof Water Supply for the San Diego Region".** Speaker: Bob Yamada, San Diego County Water Authority, and Peter MacLaggan, Poseidon Water
For more info visit: http://www.asceoc.org/index.php/events/events.

ASCE: (San Bernardino-Riverside County Branch). June meetings TBD. For more info visit: http://www.asce-sbriv.org/index.html .

ASCE: (San Diego County Branch). June meetings TBD. For more info visit: http://www.asce-sd.org/

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

GRA: June meeting TBD. For more info, visit www.grac.org/

IGS: June 4, 2014 (Wednesday). Topic: ***"The El Casco Substation Fauna and Flora, New Records From the Late Blancan North American Land Mammal Age San Timoteo Formation, Riverside County, California".*** Speaker: **Robert Reynolds.** For more info visit: http://www.inlandgeo.org/

LA Basin: June 26, 2014 (Thursday). Topic: **"Hydraulic Fracturing and Earthquakes: Ethically, How Do We Move Forward and Do the Right Thing"** Speaker: **Don Clarke, Professor USC and consulting Geologist.** For more info visit: http://www.labgs.org/

SCGS: June 18, 2014 (Wednesday). Joint meeting with SDAG Topic: **"Imaging Earthquake Surface Ruptures From M 4.7 to M 7.7"** Speaker: **Ken Hudnut.** For more info visit: http://www.scgs.org/.

SME: June Meeting TBD. For more info visit: http://www.smenet.org/SouthernCalifornia/

SDAG: June 18, 2014 (Wednesday). Joint meeting with SCGS Topic: **"Imaging Earthquake Surface Ruptures From M 4.7 to M 7.7"** Speaker: **Ken Hudnut.**
For more info visit: http://www.sandiegogeologists.org/index.html

ANNOUNCEMENTS

ANNOUNCEMENTS & OTHER MEETINGS

2014 membership dues: If you have not renewed your AEG membership for 2014 please take a moment to do so. Membership can be renewed easily and securely at www.aegweb.org. We thank you if you have already renewed your membership for 2014.

Geobrugg North America is putting on a free Slope Stabilization workshop. Speaker is Bill Kane from Kane Geotech, who has been designing slope stabilization solutions for over 20 years. The Chino Hills location was filled within less than 3 weeks, so RSVP soon to hold your spot in the San Diego location. See attached flyer.

AEG MEMBER BENEFITS

· You find value in our **conferences** - both Annual Meetings and Specialty Conferences - and in the **technical knowledge** and **continuing education** you receive at these meetings.

· You appreciate **networking opportunities** in local settings, at Section meetings, and at national conferences. With over **3,000 members**, AEG provides you with access to a wide network of Environmental and Engineering geology professionals.

· You love our **publications** - the AEG NEWS, the Environmental & Engineering Geoscience Journal, and the AEG Insider - with their relevant geoscience information, updates on AEG activities, and engaging scientific interest stories.

With benefits like these, of course you want to be part of AEG! And 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 students receive their first year of full membership for FREE as our Graduation Gift to you (Contact aeg@aegweb.org to receive your gift)

· New Membership is just $95 (First Year of Membership only)

· 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 or Renew today, please call AEG Headquarters at 303-757-2926 or email AEG@aegweb.org.

LONE STAR
STEAKHOUSE™

Served with a side salad or cup of soup or chili, and your choice of a baked potato, baked sweet potato, garlic mashed potatoes, green beans, fresh steamed spinach, sautéed mushrooms, Texas seasoned rice or steak fries.

8 OZ. CENTER CUT SIRLOIN*
USDA Choice Sirloin

GRILLED CHICKEN BREAST
Boneless marinated chicken breast served simply grilled, with pico de gallo or BBQ sauce

GRILLED SHRIMP DINNER
Grilled shrimp, garlic butter, skewered with jalapeño

CHOPPED STEAK
10 oz. juicy ground chuck steak topped with rich mushroom gravy

6 OZ. CENTER CUT SIRLOIN* & GRILLED SHRIMP
USDA Choice sirloin with grilled shrimp brushed with garlic butter & skewered with jalapeño

*Consuming raw or undercooked meats, poultry, seafood, shellfish or eggs may increase your risk of foodborne illness, especially if you have certain medical conditions

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Tensioned Slope & Rock Stabilization Systems Workshop

Course description:

This short course trains participants through lecture, case histories and hands-on exercises. Principles covered: an overview of basic forces involved with shallow slope instabilities and deeper sliding surfaces; use of RUVOLUM® dimensioning program for designing tensioned wire mesh systems; and rock stabilization principles, including an overview of tensioned spiral rope net rock protection concepts; modeling and field tests; examination of designed systems and study of sample design problems using the program.

Who should attend:

This course is intended for consulting engineers and geologists, transportation agencies, municipalities, public works, as well as landscape architects and specialty construction contractors.

Recommended background:

Minimum undergraduate level understanding of geology and/or geotechnical engineering and some experience with basic natural hazard mitigation concepts. Bachelors level education or higher in Civil Engineering, Geotechnical Engineering, Geology or related fields.

Schedule:

Check in: 8:00 – 8:30 am
(Complimentary beverages available)
Morning session: 8:30 am – noon
Complimentary lunch: noon – 1:00 pm
(Complimentary catered lunch)
Afternoon session: 1:00 -5:00 pm

Date and Location:

Tuesday, June 24, 2014

Marina Village Conference Center
Anchor Room
1936 Quivira Way
San Diego, CA

Instructor:

William F. Kane, PhD, PG, PE
Geotechnical Consultant, KANE GeoTech, Inc.

Dr. Kane received a BA degree (1975) in Geology from James Madison University and his MS (1981) and PhD (1985) degrees in Civil Engineering from Virginia Tech. In 1997 he founded KANE GeoTech, Inc. Dr. Kane is a registered Professional Engineer in Hawaii, Arizona, California, Colorado, Kentucky, Montana, New Mexico, Idaho and Nevada. He conducts engineering workshops in the U.S. and internationally. He has appeared as a geotechnical expert both in litigation and nationally on radio and television, including CNBC and CBS.

Desmond Chung
Geobrugg Workshop Host
Geobrugg North America, LLC

REGISTER EARLY, AS SPACE IS LIMITED.

PLEASE REGISTER VIA EMAIL:
deborah.johnson@geobrugg.com

or call Deborah at 505-771-4080

Please forward this invitation to any professionals who would also have an interest in this topic.

KANE GeoTech, Inc.
Geoengineering Consultants