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From: Bouchedid, Michel/SEA
Sent: Monday, September 27, 2010 11:37 AM
To: 'asceseattlesectiongeotechnicalgroupPWascessgg@seattlegeotech.talklist.com'
Subject: ASCE Seattle Section Geotechnical Group Announcements
Attachments: ASCE Dinner meeting_30SEPT2010_Idriss.pdf

Dear ASCE Seattle Section Geotechnical Group Members,

This is a reminder to make your reservation by 4:00 PM tomorrow to take advantage of the advance RSVP rate for our September 30th dinner meeting. Other upcoming geotechnical events sponsored by sister organizations are also listed in this email. See our website, <http://www.seattlegeotech.org/> for additional information on any of these events.

Please see below for more information on the following topics:

- September 30th Planning Meeting
- September 30th Dinner Meeting
- DFI Sustainability Seminar Announcement
- Basics of Design of Piled Foundations
- City of Seattle: Proposed Stormwater Regulation

SEPTEMBER 30th PLANNING MEETING

The monthly planning meeting will be held at the McCormick & Schmick's Harborside on Lake Union on Thursday September 30th at 4:30 PM. The meeting will last approximately one hour and will be followed by the dinner meeting social hour. We would like to see representatives from all firms present at our planning meetings. Please RSVP by noon on September 28th to Tyler Stephens TJS@shanwil.com if you wish to attend.

SEPTEMBER 30th DINNER MEETING

Topic: Contributions of Field Case Histories To Geotechnical Earthquake Engineering

Speaker: Dr. I. M. Idriss, Professor Emeritus, University of California at Davis; Consulting Engineer, Santa Fe, New Mexico.

Time: 5:30 (Social); 6:30 (Dinner); 7:30 (Program)

Location: McCormick & Schmick's – 1200 Westlake Avenue North, Seattle, WA 98109

Details: See attached flier for details.

DFI SUSTAINABILITY SEMINAR ANNOUNCEMENT

DFI is holding its inaugural seminar for its members on the topic of sustainability on 12th October in Hollywood, California. DFI comprises specialist contractors, geotechnical consultants, academics, manufacturers and suppliers. The seminar is for 1 day and precedes the 3 day DFI Annual Conference which is normally attended by about 500 delegates. The seminar is designed to focus on the economic benefits of sustainability such as reducing material use and waste. Deep foundation related examples will be presented by expert speakers both from the US and Europe on topics including incorporating temporary and permanent works, soil mixing, energy piles, lean design, carbon calculations and foundation re-use. Information can be found at www.dfi.org/conferencedetail.asp?id=161

BASICS OF DESIGN OF PILED FOUNDATIONS

Presented by Bengt H. Fellenius, Dr.Tech., P.Eng., M.ASCE on October 14 & 15, 2010 in Edmonton, AB. The primary intent of the course is to provide information that will enable the attendees to recognize that deep foundation design is a good deal more than finding some value of capacity, and really about deformation and settlement. The course aims to show what data one must pull together and what processes of analysis and calculations that are necessary for a design of a specific project.

The presentation includes both broad generalities and in-depth details. Aspects of how to install instrumentation, perform a test, and analyze the test data are addressed. Settlement analysis is of vital importance to the design of piled foundations and the course addresses the principles of settlement analysis, and some of the mechanics of actually calculating settlement. Some details are included of construction aspects as well as aspects of Limit States Design, LSD (Ultimate Limit States, ULS, and Serviceability Limit States, SLS, by Canadian terminology and Load and Resistance Factor Design, LRFD, by US terminology). For more information visit the course organizer website at <http://www.gic-edu.com/bengt>

CITY OF SEATTLE: PROPOSED STORMWATER REGULATION

As a condition of the City's NPDES permit for the Municipal Separate Storm Sewer System (MS4), which is administered in Washington State by the Department of Ecology, the City has recently adopted new Stormwater regulations. A significant change made at DOE's direction, was the implementation of a requirement to match pre-development release rates for flow and duration using continuous hydrologic modeling. At this "point of compliance", which is defined as the point where flows leave the site, the post-development release rate is required to include any groundwater withdrawals. A separate requirement to provide peak flow control for infrastructure designated as "capacity constrained systems" was also enacted.

Both of these requirements were made effective November 30, 2009. The performance standards have been adopted into the Seattle Municipal Code by ordinance, and the technical requirements as manuals in the form of Director's Rules which have been adopted by the Director's of SPU and DPD. As a result of a limited number of large projects that have been tidally connected to one of the regions surface waters, which have also proposed to discharge extracted groundwater to the City's drainage system, the City has now proposed an additional Director's Rule to specifically regulate groundwater discharges.

The final draft is being posted for official public comment on DPD's website. For additional information, or clarifications please email Cristofer Horbelt with SPU at cristofer.horbelt@seattle.gov

I look forward to seeing you on Thursday. Best regards,

Michel Bouchédid, P.E.
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ASCE SEATTLE SECTION GEOTECHNICAL GROUP DINNER MEETING
THURSDAY September 30th, 2010

- Topic:** **CONTRIBUTIONS OF FIELD CASE HISTORIES TO GEOTECHNICAL EARTHQUAKE ENGINEERING**
- Time:** 5:30 – Social Hour, 6:30 – Dinner, 7:30 – Program
- Place:** McCormick & Schmick's – 1200 Westlake Avenue North, Seattle, WA 98109
- RSVP:** **Please RSVP** with your dinner entrée preference (Chicken Marsala or Mushroom & Asparagus Risotto) via: Our website www.seattlegeotech.org, e-mail to rsvp@seattlegeotech.org; or phone to Tyler Stephens at (206) 695-6915 **by 4:00 PM on Tuesday September 28th, 2010 for the advance RSVP rate**. Please let us know in advance if you would like to cancel.
- Cost:** \$35 with advance RSVP. \$40 with reservations made after September 28th deadline or at the door. \$15 for non-reimbursed public agency employees and students. If you are a student and would like to be sponsored, please specify when you RSVP. You can pay via Paypal or credit card online, or at the door by cash or check payable to "ASCE Seattle Geotechnical Group"
- Speaker:** **Dr. I. M. Idriss**, Professor Emeritus, University of California at Davis; Consulting Engineer, Santa Fe, New Mexico.
- Abstract:** Case Histories have always played a strong role in geotechnical engineering. They have been an essential means for: (a) improving understanding; (b) calibrating analytical procedures; (c) designing and interpreting physical model tests; and (d) developing semi-empirical procedures. These apply for static, during earthquake and post-earthquake loading conditions.

The discussion will cover case histories involving liquefaction of cohesionless soils triggered by earthquake ground motions, and will address the following four questions:

1. Why are the published curves of cyclic resistance ratio (CRR) versus $(N_1)_{60}$ or versus $(N_1)_{60cs}$ different, depending on whose model is implemented?
2. Can we treat these differences as "epistemic" uncertainty and hence can use all models with "assigned weights"?
3. Can we use site response analyses to obtain the induced cyclic stress ratio (CSR) or do we have to always use the simplified stress ratio equation?
4. How should we treat liquefaction at depths exceeding those included in the liquefaction case histories?

The importance of the responses of these questions to engineering practice will be highlighted.

ASCE Seattle Section Geotechnical Group – 2010-2011 Officers

www.seattlegeotech.org

Michel Bouchéid, PE <i>President</i>	Ghada Ellithy, PhD, PE <i>President-Elect</i>	John Bickford, PE <i>Secretary</i>	Farid Sariosseiri, PhD <i>Treasurer</i>	Tyler Stephens, PE <i>Education Chair</i>	Mike Lach, PE <i>Public Relations Chair</i>	Bob Metcalfe, PE, LEG <i>Membership Chair</i>
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Bio: Professor Emeritus of Civil Engineering at the University of California at Davis (UCD) and independent consulting geotechnical engineer. His areas of teaching, research and practice are: geotechnical earthquake engineering; soil mechanics and foundation engineering; earthfill and rockfill dam engineering; and numerical modeling. He joined the faculty at UCD in 1989 following 20 years at Woodward-Clyde Consultants in San Francisco, Santa Ana and Oakland where he was a senior Principal. He was a member of the teaching and research staff of the geotechnical engineering group at the University of California at Berkeley from 1967 through 1975. He retired from the faculty position at UCD in July 2004.

Education & Registration: BCE, Rensselaer Polytechnic Institute in 1958; MS, Caltech in 1959; PhD, University of California at Berkeley in 1966. He is a registered PE and GE in California.

He has conducted comprehensive post earthquake investigations of some ten earthquakes since the 1964 Great Alaska earthquake. He has developed or co-developed many of the currently used procedures for evaluating the behavior of soil sites and soil structures during earthquakes. He has been a consultant on many projects in the USA and other countries and serves on several consulting or review boards for US and International companies and for State and US Federal Agencies.

He has authored or co-authored about 160 technical papers and research reports on subjects related to the geotechnical aspects of earthquake engineering.

He has received many awards and honors over the past forty years, including election to the US National Academy of Engineering in 1989, receipt of the first H. Bolton Seed Medal from ASCE in 1995, the distinguished scholarly public service award from the University of California at Davis in 1999, was elected an honorary member of the Japanese Geotechnical Society in 2005, was elected a Distinguished Member of ASCE in 2008, and is the recipient of the 2010 Ralph Peck Award from ASCE, and the 2010 Arthur Casagrande Memorial Lecture from the Boston Society of Civil Engineers Section (BSCES) of ASCE.

Planning Committee Meeting: Thursday September 30th at 4:30 PM at the McCormick & Schmick's. We would like to see a representative from each organization at our planning committee meetings. Please e-mail Tyler Stephens at tjs@shanwil.com no later than noon on Tuesday September 28th if you plan to attend our planning meeting.