



Vancouver Geotechnical Society

A Local Section of the
Canadian Geotechnical
Society

www.v-g-s.ca

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NOTICE OF UPCOMING TECHNICAL PRESENTATION

Thursday, 26 September 2019

TOPIC: Liquefaction: Lessons, Challenges, and Opportunities
2019 EERI Distinguished Lecture

SPEAKER: Prof. Ross W. Boulanger, PhD, PE., NAE – University of California, Davis.
Professor Ross W. Boulanger is the Director of the Center for Geotechnical Modeling in the Department of Civil and Environmental Engineering at the University of California, Davis. He received his PhD and MS degrees in Civil Engineering from the University of California at Berkeley, and his BSc degree in Civil Engineering from the University of British Columbia. His research and professional practice are primarily related to liquefaction and its remediation, seismic performance of dams and levees, and seismic soil-structure interaction. His honors include the TK Hsieh Award from the Institution of Civil Engineers, the Ralph B. Peck Award, Norman Medal, Walter L. Huber Civil Engineering Research Prize, and Arthur Casagrande Professional Development Award from the American Society of Civil Engineers, and election to the US National Academy of Engineering.

CONTENT: Liquefaction during earthquakes has been the subject of extensive study for over half a century and is now routinely addressed in engineering practice using a wide range of technical approaches that depend on the project size and importance. These past studies have produced major advances in our scientific understanding of liquefaction phenomena and the engineering practices used to address liquefaction hazards, but there remain numerous situations where knowledge gaps and engineering practice limitations hinder the efficient mitigation of earthquake-induced liquefaction damages to our infrastructure and communities. This presentation examines a number of lessons, challenges, and opportunities regarding the evaluation and mitigation of liquefaction hazards, including aspects of site characterization, engineering analysis methods, challenging soil types, remediation methods, performance-based engineering procedures, and risk management approaches.

DETAILS: **Location:** Centennial Room, Executive Inn, 4201 Lougheed Highway, Burnaby, BC V5C 3Y6
Social Hour: 5:30 to 6:30 pm (drinks available at the hotel bar)
AGM: 6:30 to 6:45 pm (No need to RSVP)
Technical Presentation: 6:45 to 7:45 pm (No need to RSVP)
Dinner: 8:00 pm (\$20 will be charged for dinner). If you would like to stay for dinner, please RSVP to Ali Ghandeharioon via email (aghandeharioon@klohn.com) or at the door.

The annual Distinguished Lecture Award of the EERI is awarded to members of the Institute to recognize and encourage communication of outstanding professional contributions of major importance for earthquake hazard mitigation. The contributions of the recipient and the topic of the Distinguished Lecture should be of broad interest to the membership and may range from research to public policy development. The award is established to communicate developments on topics of major significance for earthquake hazard mitigation.