



## Vancouver Geotechnical Society

A Local Section of the Canadian Geotechnical Society

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## NOTICE OF UPCOMING ANNUAL GENERAL MEETING & DINNER PRESENTATION WEDNESDAY, SEPTEMBER 12, 2012

### SUBJECT:

- (1) Annual General Meeting & Election of Executive Members
- (2) Seismic Hazard Analysis in British Columbia: Where Have We Been? Where Are We Headed?

### SPEAKER:

**Mr. Tim Little, P.Eng.**  
Principal, T.E. Little Engineering



Tim Little is a Geological Engineer providing specialist consulting services related to hydroelectric engineering, dam safety and seismic hazard. After graduating from the University of British Columbia in 1976, he joined BC Hydro where he worked for 35 years in a variety of technical and leadership roles in field investigations, design, construction and project management, including positions as Principal Civil Engineer and Chief Engineer. For many of those years, he performed or provided oversight of seismic hazard analyses for numerous BC Hydro facilities as well as for projects for other owners. He has served as a member of the Canadian National Committee on Earthquake Engineering (CANCEE) for the 2005 & 2010 editions of the National Building Code of Canada, the Canadian representative on the ICOLD Committee on Seismic Aspects of Dam Design and as a member of the IEEE Working Group for Standard 693 "Recommended Practices for Seismic Design of Substations". He has published more than 25 technical papers and has been an invited lecturer on Seismic and Geological Engineering topics at UBC.

### CONTENT:

British Columbia is situated in one of the more tectonically-complex regions of the world, with both a tectonic plate boundary and a subduction zone along the west coast and a diverse range of geological terranes inland from the coast. This setting has produced some very large magnitude earthquakes over the last few hundred years, although most of the major populated regions have not experienced strong seismic shaking in the last several decades. Scientific investigations have greatly advanced our understanding of the seismotectonics of BC and adjacent regions over the last several decades, but knowledge of the seismic potential and capability of many individual tectonic and geologic features remains incomplete. Given this situation, seismic hazard analyses, which are an important element of design for engineering projects in BC, must deal with large uncertainties and have proven to be challenging. This presentation will look back over the evolution of seismic hazard analyses in BC over the last several decades and how those uncertainties have been addressed. Several recently-applied innovative approaches to modelling uncertainties and opportunities for future research will be highlighted. Some comments will also be offered about key factors and potential pitfalls that should be considered prior to embarking on a seismic hazard analysis.

### DETAILS

**Executive Inn**, 4201 Lougheed Highway, Burnaby, BC V5C 3Y6 (Phone: 604-298-2010)

**Social Hour:** 5:30 to 6:30 pm (Snack and soft drink will be available)

**Annual General Meeting:** 6:30 to 7:00 pm (Last year report + Elections)

**Technical Presentation:** 7:00 to 8:00pm

**Dinner:** ~8:15 pm (\$30 will be charged for dinner)

**RSVP:** Dinner reservation to [ali.amini@shaw.ca](mailto:ali.amini@shaw.ca) by Monday, September 10, 2012

No reservation is required for attending the presentation.