



**Vancouver
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A Local Section of the
Canadian Geotechnical
Society

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NOTICE OF UPCOMING TECHNICAL PRESENTATION

Wednesday, March 25, 2015

SUBJECT: **Probabilistic Seismic Hazard Assessments (PSHA) - An Overview**

SPEAKER **Tuna Onur, PhD**
Seismic Hazard and Risk Consultant

Based in Victoria, British Columbia, Dr. Onur works as a seismic hazard and risk consultant. She is currently serving on the National Building Code of Canada's Standing Committee on Earthquake Design. Previously, she worked for six years as a lead catastrophe risk modeller for Risk Management Solutions, Inc. in California. Prior to joining RMS, Dr. Onur conducted earthquake hazards research with the Geological Survey of Canada. She holds a PhD in structural engineering from the University of British Columbia

CONTENT: There are broadly two questions that need to be answered in order to understand the potential for earthquake shaking regionally or at a specific site: 1) Where and how frequently do various types and magnitudes of earthquakes happen? (Seismic Source Characterization), and 2) When these earthquakes happen, how much does the ground shake in locations of interest? (Ground Motion Characterization). PSHA provides a quantitative solution to the problem of evaluating earthquake shaking potential by integrating across these two components (seismic sources and ground motion) in a probabilistic framework. It currently forms the basis for seismic provisions in most structural design codes, when conducted regionally; and underpins site-specific design ground motions for critical facilities at long return periods. This presentation will describe the overall PSHA methodology and its basic components, and provide examples of its utilization, both in a regional and site-specific manner.

DETAILS **Executive Inn**, 4201 Lougheed Highway, Burnaby, BC V5C 3Y6 (Phone: 604-298-2010)
Social Hour: 5:30 to 6:30 pm (drinks available at the hotel bar)
Technical Presentation: 6:30 to 7:30 pm (No need to RSVP)
Dinner: 7:45 pm (\$30 will be charged for dinner)
If you would like to stay for dinner, please RSVP to Robyn Barnett via email or at the door Robyn.Barnett@tetrattech.com