



Vancouver Geotechnical Society

A Local Section of the Canadian Geotechnical Society

Visit : www.v-g-s.ca

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**NOTICE OF UPCOMING DINNER PRESENTATION
TUESDAY, FEBRUARY 08, 2011**

SUBJECT: **Engineering Aspects of Geohazard Risk Assessment in the District of North Vancouver**

SPEAKERS: **Heather Crow, M.Sc., P.Eng,
Geological Survey of Canada, Ottawa**

Heather Crow received her engineering degree from Queen's University in 1998 in geophysics. She worked with Golder Associates for six years developing downhole geophysical capabilities for geotechnical and environmental engineering investigations. In 2006, Heather joined the Geological Survey where she has contributed to research in urban seismic hazards and groundwater studies through surface and downhole geophysical methods. She recently completed graduate studies at the Ottawa-Carleton University Geoscience Center conducting research in earthquake-induced ground motion. She continues to study soft soil ground motion amplification in seismically active regions of Eastern Canada.

**Dr. Jorge Prieto, P. Eng,
Earthquake Engineering Research Facility, UBC**

Dr Prieto is a Geotechnical, Earthquake Engineer with Canadian and International experience. He has been involved in a number of projects aimed at assessing geotechnical hazards and their effect on structures, dynamic site response analyses including liquefaction, earthquake loads determination, lateral spreading, soil densification, lateral earth pressures, static and dynamic slope stability. He has worked for Trow Associates. In the risk related area, Jorge has been involved in evaluating the structural and economic vulnerability of buildings, highways and estimating the social and economic consequences of geotechnical hazards. Therefore, He has also been related to the Insurance and Re-Insurance (Munich Re-Insurance company) sector. Dr Prieto has been linked to the academic sector performing research on Geo-hazards, lecturing and heading a Civil Engineer Department and a Geophysical Institute. His publications include a book and several peer reviewed papers. He holds a PhD and an MSc from Imperial College, London, UK.

CONTENT:

Estimating losses associated with natural hazards is an essential element of risk-based planning and decision making for engineers, planners, and governments. Understanding the impacts and potential consequences of a hazard threat provides a foundation for developing mitigation strategies that reduce vulnerability of cities and ultimately, people.

In January of 2010, the Geological Survey of Canada (GSC), the Earthquake Engineering Research Facility (EERF) at UBC, and the District of North Vancouver (DNV) began a joint demonstration risk assessment project of the DNV. Natural hazards to be evaluated include landslide, flooding, liquefaction, and large-strain earthquakes. Within this program, HAZUS-MH risk modeling software is being adapted for use in all Canadian jurisdictions to model the impacts of a hazard occurring in an urban setting. Numerous map layers are required to run a HAZUS scenario, many requiring engineering data to develop.

The intent of this presentation is to share with the geotechnical and earthquake engineering community in Vancouver aspects of the hazard and risk-related work being carried out, provide an update in the progress of the map deliverables useful to the geotechnical community, and to identify opportunities for engineering community involvement.

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

Dinner: 7:45 pm (\$10 will be charged for dinner to cover a small portion of the cost.)

RSVP: Dinner reservation to ali.amini@shaw.ca by Friday, February 04, 2011