



Vancouver Geotechnical Society

A Local Section of the
Canadian Geotechnical
Society

www.v-g-s.ca

2024 – 2025 Executive Committee

Chair	- Tyler Southam, Tetra Tech
Past-Chair	- Intisar Ahmed, GeoEngineers
Program Director	- Thushara Jayasinghe, WSP
	- Aya Bayoumi, WSP
Treasurer	- Ibrahim Kawasme, Kiewit
Secretary	- Alison Harason, GEI
	- Aline Ljubichich, Kontur
Registrar	- Karina Stapleton, KCB
	- Simon Wong, UBC
Web Manager	- Muin Ahmed Alif, AECOM
	- Mohammad Khodabandeh, Qualitest
CGS Director	- Marc Bossé, Thurber
Student Representative	- Atharva Gujar, UBC
Symposium Committee	- Prajakta Jadhav, Ecora
	- Sounik Bannerjee, Stantec
Member-at-Large	- Tj Singh, Thurber, Jason Edgar, AtkinsRéalis.
	Jared Whitehead, BC Hydro, Masood Meidani, BBA
	Fariba Yavari, AtkinsRealis, Ana Valverde, WSP
	Ali Jahanfar, Stantec, Mahdi Shahrabi, WSP
	Eryn Alexander, BGC, Andrea Lougheed, BGC
	Aran Thurairajah, Stantec, Anjamjot Singh, Stantec

NOTICE OF TECHNICAL PRESENTATION Tuesday, 21 January 2025

TOPIC: The Metro Vancouver Seismic Microzonation Mapping Project

SPEAKERS: Sheri Molnar, Ph.D., Associate Professor, University of Western Ontario

Sheri Molnar is an Associate Professor at the University of Western Ontario conducting earthquake hazard research focused on advancement of seismic site characterization and earthquake ground motion prediction using physics-based numerical wave propagation simulations to account for local seismic site effects in seismic hazard assessment and mapping. Molnar continues to serve on seismic design committees of the 2020 and 2025 Canadian building codes, is a former director of the Canadian Association of Earthquake Engineering, and former president of the EERI British Columbia Regional Chapter.

Jamal Assaf, Ph.D., WSP

Jamal holds a Ph.D. in geotechnical engineering from the University of Western Ontario, where his research focused on seismic site characterization and response within the Metro Vancouver area. He is a geotechnical EIT with WSP Vancouver working on developing guidelines for seismic site response analysis in southwestern BC within the Seismic Retrofit Guidelines Project.

Alireza Javanbakht, Ph.D., Jacobs

Alireza completed his Ph.D. at the University of Western Ontario, where he focused on developing probabilistic liquefaction hazard mapping and a performance-based liquefaction hazard analysis. He is a geotechnical engineer at Jacobs Consultancy Canada.

CONTENT: The Metro Vancouver seismic microzonation mapping project is a near decade multi-million dollar effort to achieve regional-scale seismic hazard mapping of Metro Vancouver including earthquake shaking de/amplification due to site and basin effects, and seismic-induced landslide and liquefaction hazard potential. The project has produced a total of 29 region-specific seismic hazard maps of western Metro Vancouver and EGBC professional practice guidelines of seismic microzonation mapping in British Columbia thus far. This presentation will discuss how shaking amplification hazard mapping inclusive of site and basin effects and seismic-induced liquefaction hazard mapping was achieved with emphasis on advancements related to geotechnical engineering practice.

DETAILS:

Location: Centennial Room, Executive Hotel, 4201 Lougheed Highway, Burnaby, BC V5C 3Y6

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: 8:00 pm (\$20 will be charged for dinner). If you would like to stay for dinner at the hotel restaurant, please RSVP to Simon Wong via email (laikan.wong@ubc.ca) or at the door.