



## Vancouver Geotechnical Society

A Local Section of the  
Canadian Geotechnical  
Society

[www.v-g-s.ca](http://www.v-g-s.ca)

### 2019-2020 Executive Committee:

Chair	- Yoshi Tanaka, Kontur	778-730-1747
Past-Chair, Web Manger	- Marc Bossé, Thurber	604-684-4384
Program Director	- Aran Thuraiajah, Golder	604-296-4200
Treasurer	- Tim Morton, GHD	604-248-3925
Secretary	- Ali Ghandeharioon, KCB	604-669-3800
Registrar	- Intisar Ahmed, Thurber	604-684-4384
CGS Director	- Andrea Lougheed, BGC	604-684-5900
Student Representative	- Ethan Alban, UBC	
Symposium Co-Chairs	Olga Kosarewicz (BCIT), Shane Magnusson, (BGC)	
Member-at-Large	Kumar Sriskandakumar (BGC)	

## NOTICE OF UPCOMING TECHNICAL PRESENTATION Thursday, 27 February 2020

**TOPIC:** **Mitigating a Fatal Flaw in Modern Geomechanics: Understanding Uncertainty, Applying Model Calibration, and Defying the Hubris in Numerical Modelling – CGS Colloquium**

**SPEAKER:** **Kathy Kalenchuk, Ph.D., P.Eng. – *President and Principal Consultant of RockEng Inc.***  
Dr. K.S. Kalenchuk has a BSc. Mining Engineering (U of A) and M.Sc & Ph.D in Geomechanical Engineering (Queen's). She is the President and Principal Consultant of RockEng Inc., a Canadian based rock mechanics engineering firm serving the global mining industry. Dr. K.S. Kalenchuk has over 13 years of experience in geotechnical and geomechanical engineering. Dr. Kalenchuk has extensive experience in underground mining, operational rock engineering, and ground control with specialized expertise in numerical modelling and induced seismicity.

**CONTENT:** This colloquium has been prepared to achieve two objectives. The first objective is to provide a discussion of the practical limitations of numerical modelling in the field of geomechanical engineering. Too many discussions of numerical methods in geomechanical engineering are centered on the impressive ability of numerical tools to conduct complex and sophisticated analyses with relative ease and efficiency. Practitioners need to have a grounded conversation of numerical modelling with the reality that geomechanical designs are often data limited, with high degrees of uncertainty. When data limits and uncertainty are overlooked geomechanical engineers are at risk of introducing unforeseen fatal flaws in our engineering design. The second objective is to provide 'how to' guidelines for model calibration using a variety of ground reaction data types. Model calibration is truly the only means to reduce numerical uncertainties. Formal training in numerical modelling is often focused on software utilization and sometimes computational methods, however there are few opportunities for formal training on how to calibrate a model for practical engineering applications. This colloquium provides workflow guidelines for calibration methods and procedures..

**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)  
**Technical Presentation:** 6:30 to 7:30 pm (No need to RSVP)  
**Dinner:** Presenter is not available for the dinner.