



## Vancouver Geotechnical Society

A Local Section of the Canadian Geotechnical Society

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

### 2013-2014 Executive Committee:

Chair	-Ryan Mills, Tetra Tech EBA	604-685-0275
Past-Chair	-Andrea Lougheed, Thurber	604-684-4384
Program Director	-Ali Amini, NAGL	604-984-0759
Treasurer	-(Kumar) S. Sriskandakumar, BGC	604-684-5900
Secretary	-Chris Longley, Stantec	604-436-3014
Registrar	-Robyn Barnett, Tetra Tech EBA	604-685-0275
Web Manager	-Marc Bossé, Thurber	604-684-4384
CGS Director	-Jason Pellett, Tetra Tech EBA	604-685-0275
Member-at-Large	-Carl Kelman, Levelton	604-278-1411
Member-at-Large	-Mike Hopson, Nilex	604-420-6433

### A TWO-DAY COURSE BY PROFESSOR MALCOLM BOLTON

## A FRESH PERSPECTIVE ON SOIL MECHANICS WITH APPLICATION TO GEOTECHNICAL DESIGN

Thursday and Friday, May 22 & 23, 2014

### INSTRUCTOR:

**Professor Malcolm Bolton FEng, Cambridge University, UK**



Malcolm Bolton graduated from Cambridge University in 1967 and took an MSc in structural engineering from Manchester University. From 1969 he helped Andrew Schofield to set up the UK's first geotechnical centrifuge facility in Manchester, continuing there as a lecturer and publishing his textbook "A Guide to Soil Mechanics" in 1979. He returned to Cambridge in 1980, where he was awarded a PhD in soil mechanics, and later became Professor of Soil Mechanics. He was the Director of the Schofield Centre from 1995 until he retired in 2013. He has published over 230 papers, working with 45 doctoral candidates, 15 of whom have studied fundamental soil mechanics, with 30 using physical models to investigate a great variety of geotechnical applications. Professor Bolton holds various awards from the UK Institutions of Civil Engineers and Structural Engineers, and the Canadian Geotechnical Society, and he is a Fellow of the Royal Academy of Engineering. He gave the 2012 Rankine Lecture, "Performance-based design in geotechnical engineering".

### COURSE OUTLINE:

Day 1 (Thursday, May 22<sup>nd</sup>, 2014) A fresh perspective on soil mechanics

08:00	Registration
09.00-09.50	Critical State Soil Mechanics in plane strain
10.00-10.50	The strength and dilatancy of sands
11:00	Coffee Break
11.30-12.30	Elastic mechanics: the pivotal role of grain crushing
12:45	Lunch Break
14.00-14.50	The critical voids ratio and the steady state
15.00-15.50	The kinematic yield surface: deterioration of stiffness
16:00	Coffee Break
16.30-17.30	Creep and rate effects

Day 2 (Friday, May 23<sup>rd</sup>, 2014) A fresh perspective on geotechnical design

09.00-09.50	Structural distortions set allowable soil strains
10.00-10.50	The practical prediction of deformations in clays
11:00	Coffee Break
11.30-12.30	The design of shallow foundations
12:45	Lunch Break
14.00-14.50	The design of deep foundations
15.00-15.50	The design of slopes
16:00	Coffee Break
16.30-17.30	Replacing safety factors by objective performance criteria



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## A TWO-DAY COURSE BY PROFESSOR MALCOLM BOLTON

### A FRESH PERSPECTIVE ON SOIL MECHANICS WITH APPLICATION TO GEOTECHNICAL DESIGN

## REGISTRATION FORM

**Date:** Thursday & Friday, May 22 & 23, 2014  
**Time:** 9:00 am to 5:30 pm  
**Location:** Coast Coal Harbor Hotel  
 1180 W Hastings St, Vancouver, BC V6E 4R5, Canada Tel: (604) 697-0202

Lunch will be provided as well as beverages during morning and afternoon breaks.

Space is limited to 100 participants and deadline for acceptance of mailed registrations is **May 16, 2014**.

Please **MAIL** your completed registration form before the above deadline to The Vancouver Geotechnical Society:

Contact: Robyn Barnett, Tetra Tech EBA  
 Email: [Robyn.Barnett@tetratech.com](mailto:Robyn.Barnett@tetratech.com), Tel: 604-685-0275  
 Address: Oceanic Plaza, 9th Floor, 1066 West Hastings Street, Vancouver, BC, V6E 3X2

Please enclose with your registration form a cheque with the appropriate registration sum payable to "The Vancouver Geotechnical Society".

No other forms of registration nor payment method will be accepted. Registration will be considered valid only when this form and the cheque for the appropriate registration sum has been received and cleared.

Name: \_\_\_\_\_ Affiliation: \_\_\_\_\_

Daytime phone: \_\_\_\_\_ Email: \_\_\_\_\_

### **Cheque enclosed (all in Canadian Dollar):**

#### VGS/CGS members

Early Bird (before April 15<sup>th</sup>) .....  \$550 for both days .....  \$350 day 1 only... \$350 day 2 only  
 Regular .....  \$600 for both days .....  \$400 day 1 only... \$400 day 2 only

#### Non-Members

Early Bird (before April 15<sup>th</sup>) .....  \$650 for both days .....  \$400 day 1 only... \$400 day 2 only  
 Regular .....  \$700 for both days .....  \$450 day 1 only... \$450 day 2 only

#### Full-Time Students

Early Bird (before April 15<sup>th</sup>) .....  \$300 for both days .....  \$200 day 1 only... \$200 day 2 only  
 Regular .....  \$350 for both days .....  \$250 day 1 only... \$250 day 2 only

Cancellation of registration will not be accepted after **May 19, 2014**.

Registration fee includes course notes, lunch and beverages during breaks.

The course is credited with 14 hours of professional development (for both days).

Rooms are available at Coast Coal Harbor Hotel from \$189 per night. If calling the hotel directly (604-682-6278) please reference booking code **CCC-GFC3782**, or book online at <http://coa.st/brym>.



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### Group Registration Form:

	Name	Affiliation	Phone	Email	Which Day (1 <sup>st</sup> , 2 <sup>nd</sup> , or Both)	Category (VGC/CGS Member, Non-Member or full time Student)	Early Bird or Regular	Registration Fee
1								
2								
3								
4								
5								
6								
7								

**Cheque Enclosed for the Total Amount of: \$**

#### Example:

	Name	Affiliation	Phone	Email	Which Day (1 <sup>st</sup> , 2 <sup>nd</sup> , or Both)	Category (VGC/CGS Member, Non-Member or full time Student)	Early Bird or Regular	Registration Fee
1	Bob Smith	Smith Assoc.	604-123-0000	bob.s@sa.com	Both	VGS/CGS Member	Early	\$550
2	Joe Smith	Smith Assoc.	604-123-0000	joe.s@sa.com	Both	Non-Member	Regular	\$650

Cheque Enclosed for the Total Amount of: \$ 1200.00