

Banff 2011 Geotechnical Modeling Workshop

fundamentals, theory and application

October 17-19/20, 2011 – Banff, AB, Canada



Introduction:

GEO-SLOPE International Ltd. invites you to join us in the Canadian Rocky Mountains this fall. Amid stunning scenery, Banff is an exceptional setting in which to gather with GEO-SLOPE clients from around the world to further develop your numerical modeling skills.

Whether you wish to be introduced to the world of numerical modeling, or experiment with new types of analyses, this training event is designed for all experience levels.

By attending the workshop, you can:

- Immerse yourself in hands-on modeling and sharpen your skills
- Increase your understanding of geotechnical theory and fundamentals
- Collaborate with highly experienced GEO-SLOPE engineers and engineering professionals from diverse backgrounds

- Tentative Agenda on Reverse -

Format and Outline:

Time will be divided between lectures, hands-on work with GeoStudio 2007 software, and group problem-solving discussions. Participants will be exposed to a general review of geotechnical theory, as well as appropriate and efficient numerical modeling strategies.

The initial three-day workshop will consist of focused sessions on SLOPE/W, SEEP/W and SIGMA/W. The optional fourth day will feature QUAKE/W, as well as an opportunity to receive additional modeling support or discuss other GeoStudio 2007 products with our engineers.

About the Presenters:

The GEO-SLOPE training team is a dynamic group of engineers and programmers who have strong presentation skills and many years of experience with geotechnical numerical modeling and program development.

Comments from Past Participants:

"Great flexibility in response to the needs of the group and individual"

"The workshop gave me a quantum jump in my ability to get more out of the programs"

"This workshop decreased my learning curve considerably...it is excellent and a must for any serious GEO-SLOPE software user"

"Excellent staff that are sincerely interested in their clients' concerns"

Travel Information:

The town of Banff is a scenic 90 minute drive from the city of Calgary. A shuttle bus can transport you from the Calgary International Airport to the Banff Park Lodge in less than two hours.

Registration Details:

Dates and Fees:

Oct 17-19 (3-day) USD \$1,400

Oct 17-20 (4-day) USD \$1,850

Price includes:

- Full registration
- Accommodation for 3 or 4 nights, depending on dates chosen (*arrival Sunday and check-out on Wednesday or Thursday*)
- Breakfasts, lunches, and light refreshments

Note: Evening meal costs are not included in the registration fee

Venue:

Banff Park Lodge

222 Lynx Street, Banff, AB, Canada

Tel: +1 800 661 9266

<http://www.banffparklodge.com/>

To register, please visit:

www.geo-slope.com/training

Participants must bring their own laptop computer. Computer rentals can be arranged at additional cost.

Cancellations or substitutions will be accepted until September 1st, 2011.



Banff 2011 Workshop Tentative Agenda *(subject to change):*

Monday, October 17	Tuesday, October 18	Wednesday, October 19	(optional) Thursday, October 20
Morning:			
<p>SLOPE/W I Basic theory and features</p> <ul style="list-style-type: none"> ▪ Methods of analysis ▪ Geometry ▪ Material properties ▪ Slip surface options ▪ Pore-water pressures ▪ Line loads 	<p>SLOPE/W II Advanced theory and features</p> <ul style="list-style-type: none"> ▪ Reinforcement fundamentals ▪ Finite element stresses ▪ Seismic loads ▪ Probability and sensitivity 	<p>SEEP/W II Advanced theory and features</p> <ul style="list-style-type: none"> ▪ Transient theory and features ▪ Transient boundary conditions ▪ Time steps ▪ Seepage sensitivity ▪ Integration of transient SEEP/W pwp in SLOPE/W 	<p>QUAKE/W I * Basic theory and features</p> <ul style="list-style-type: none"> ▪ Introduction to dynamic analysis ▪ Using QUAKE/W results in SLOPE/W to estimate permanent deformation (Newmark procedure)
Afternoon:			
<p>SEEP/W I Basic theory and features</p> <ul style="list-style-type: none"> ▪ Steady-state analysis ▪ Darcy's Law ▪ Boundary conditions ▪ K-functions, VWC functions ▪ Geometry ▪ Finite element meshing ▪ Integration of steady-state SEEP/W pwp in SLOPE/W 	<p>SIGMA/W I Basic theory and features</p> <ul style="list-style-type: none"> ▪ Stress and deformation ▪ Soil strength models ▪ Staged construction ▪ Slip elements ▪ Beams and bars ▪ Integration of finite element stresses in SLOPE/W 	<p>SIGMA/W II Advanced theory and features</p> <ul style="list-style-type: none"> ▪ Consolidation ▪ Volume change ▪ Wick drains ▪ Soft soils construction ▪ Heave and settlement due to water addition or removal 	<p>QUAKE/W II *</p> <ul style="list-style-type: none"> ▪ Equivalent linear model ▪ CSR and excess pore-water pressures ▪ Liquefaction assessment via the collapse surface ▪ Non-linear dynamic model

* 'Study Hall' will run concurrently with sessions on the fourth day. This is an opportunity to discuss your own models with GEO-SLOPE engineers or to explore other products such as VADOSE/W and TEMP/W.



You are welcome to contact us at:



633 – 6 Ave SW, Suite 1400, Calgary, AB T2P 2Y5 Canada
 Tel: +1 403 269 2002
 Fax: +1 403 266 4851
 Email: training@geo-slope.com
www.geo-slope.com