

## Europe 2010 Geotechnical Modelling Workshop

*fundamentals, theory and application*

17-19 May 2010 – Haarlem, The Netherlands



### Introduction:

**GEO-SLOPE International Ltd.** invites you to join us in The Netherlands for our next Geotechnical Modelling workshop.

Our annual public workshops are well attended events where GEO-SLOPE clients from around the world gather to learn, enhance and fine-tune their numerical modelling skills under the guidance of GEO-SLOPE personnel.

### Format and Outline:

The three-day workshop will consist of focused sessions on SLOPE/W, SEEP/W and SIGMA/W. 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 modelling strategies.

By attending the workshop, you will:

- Immerse yourself in hands-on numerical modelling and sharpen your skills
- Increase your understanding of geotechnical theory and fundamentals
- Collaborate with highly experienced GEO-SLOPE engineers and engineering professionals from around the world

### About the Presenters:

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

Whether you wish to be eased into the world of numerical modelling, or experiment with new types of analyses, this workshop is designed for all experience levels.



### 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:

Only 10 km from the Schiphol International Airport and RAI Congress Centre in Amsterdam, the venue is conveniently located near the historical city of Haarlem and the seaside resort of Zandvoort. The Haarlem Central Station is a 15 minute walk away, for travel by rail directly from the airport.

### Registration Details:

**Date: 17-19 May 2010**

**Fee: € 1000-1400**

Price of **€ 1000 includes** tuition, training materials, lunches, and light refreshments.

Price of **€ 1400 includes** above and accommodation (bed and breakfast) for 3 nights (*arrival Sunday, 16 May; check-out Wednesday, 19 May*)

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*Please note that evening meal costs are not included in the registration fee.*

*Participants must bring their own laptop computer; that is, laptop computers will not be provided.*

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### Venue:

**Carlton Square Hotel  
Haarlem, The Netherlands**

Tel: +31 (0) 23 531 90 91

Fax: +31 (0) 23 532 98 53

[www.carlton.nl/square](http://www.carlton.nl/square)

### To register, please visit:

[www.geo-slope.com/training](http://www.geo-slope.com/training)

*Registration is limited to 35 participants.*

*Cancellations or substitutions will be accepted without penalty until 15 March 2010. After this date only substitutions will be accepted.*

- Tentative Agenda on Reverse -

**Europe 2010 Workshop Tentative Agenda** (subject to change):

Monday, 17 May	Tuesday, 18 May	Wednesday, 19 May
<b>Morning:</b>		
<p><b>SLOPE/W I</b> Basic theory and features</p> <ul style="list-style-type: none"> <li>▪ Methods of analysis</li> <li>▪ Geometry</li> <li>▪ Material properties</li> <li>▪ Slip surface options</li> <li>▪ Pore-water pressures</li> <li>▪ Line loads</li> </ul>	<p><b>SLOPE/W II</b> Advanced theory and features</p> <ul style="list-style-type: none"> <li>▪ Reinforcement fundamentals</li> <li>▪ Finite element stresses</li> <li>▪ Seismic loads</li> <li>▪ Probability and sensitivity</li> </ul>	<p><b>SEEP/W II</b> Advanced theory and features</p> <ul style="list-style-type: none"> <li>▪ Transient theory and features</li> <li>▪ Transient boundary conditions</li> <li>▪ Time steps</li> <li>▪ Seepage sensitivity</li> <li>▪ Integration of transient SEEP/W pwp in SLOPE/W</li> </ul>
<b>Afternoon:</b>		
<p><b>SEEP/W I</b> Basic theory and features</p> <ul style="list-style-type: none"> <li>▪ Steady-state analysis</li> <li>▪ Darcy's Law</li> <li>▪ Boundary conditions</li> <li>▪ K-functions, VWC functions</li> <li>▪ Geometry</li> <li>▪ Finite element meshing</li> <li>▪ Integration of steady-state SEEP/W pwp in SLOPE/W</li> </ul>	<p><b>SIGMA/W I</b> Basic theory and features</p> <ul style="list-style-type: none"> <li>▪ Stress and deformation</li> <li>▪ Soil strength models</li> <li>▪ Staged construction</li> <li>▪ Slip elements</li> <li>▪ Beams and bars</li> <li>▪ Integration of finite element stresses in SLOPE/W</li> </ul>	<p><b>SIGMA/W II</b> Advanced theory and features</p> <ul style="list-style-type: none"> <li>▪ Consolidation</li> <li>▪ Volume change</li> <li>▪ Wick drains</li> <li>▪ Soft soils construction</li> <li>▪ Heave and settlement due to water addition or removal</li> </ul>

Break-out sessions for QUAKE/W, VADOSE/W, and TEMP/W may be offered, if interest is expressed.

You are welcome to contact us at:



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