



Advanced Rock Slope Stability Analysis: Numerical Methods Two-Day Short Course (1.5 CEUs)

WHEN: April 17-18, 2008 (Thursday & Friday)
8:30 am - 5:30 PM (Registration begins at 8:00 AM)

WHERE: Wallace-Kuhl & Associates, Inc.
First Floor Conference Room
3251 Beacon Boulevard
West Sacramento, California
Short Course Fee: \$250 AEG Members
\$300/Non-Members
\$350 at the door, if space is available

Course fees include continental breakfast, lunch, and course materials.

WHO:
Engineering Geologists, Geological Engineers, and Geotechnical Engineers seeking an intermediate to advanced level of instruction on numerical methods for slope stability analysis.

This course builds on the techniques presented at our 2007 short course on “Rock Slope Stability Analysis & Design”. Attendees of this course are expected to have a basic understanding of rock mass classification and limit equilibrium slope stability analysis.

WHAT:
This course will review the processes and mechanisms responsible for landslides in rock, concentrating on various numerical analysis methods. Emphasis will be placed on case studies and practical tutorials involving the use of numerical stability analysis techniques and examine the modeling of such phenomenon from initiation and development to catastrophic failure.

This professional development course will provide the tools and knowledge needed to analyze slope stability problems in rock. This will be achieved through a series of lectures and case histories led by Erik Eberhardt (UBC, Vancouver). Accompanying the lectures and case studies will be a series of hands-on tutorials focusing on the different software used for slope stability analysis. These include the continuum finite-difference program FLAC and the discontinuum distinct-element program UDEC.

INSTRUCTORS:

Dr. Erik Eberhardt, P.Eng. – Geological Engineering/Earth and Ocean Sciences, University of British Columbia, Vancouver, Canada (erik@eos.ubc.ca)

Course Schedule

DAY 1	DAY 1
8:30-9:30	Introduction - course overview, objectives, the design process, rock slope stability analysis toolbox
9:30-10:30	Limit Equilibrium Analysis: Review & New Developments - planar/wedge solutions, method of slices, treatment of non-circular failure surfaces, sensitivity & probabilistic analyses
10:30-10:45	<i>Coffee Break (15 minutes)</i>
10:45-12:30	Tutorial 1 - deterministic and probabilistic analyses with SWedge
12:30-13:30	<i>Lunch</i>
13:30-15:00	Advanced Continuum Modeling - methodology, application, good modeling practice, the "equivalent continuum", groundwater & seismic analysis
15:00-15:15	<i>Coffee Break</i>
15:15-17:30	Tutorial 1 - Deformation and continuum modeling with FLAC-Slope

DAY 2	DAY 2
8:30- 9:30	Discontinuum Rock Mechanics: A Review - rock mass characterization, discontinuity and rock mass behavior
9:30- 10:30	Advanced Discontinuum Modeling - methodology, application, groundwater & seismic analysis
10:30-10:45	<i>Coffee Break</i>
10:45-12:30	Tutorial 2 - Discontinuum modeling with UDEC (Part 1)
12:30-13:30	<i>Lunch</i>
13:30-15:00	Tutorial 3 - Discontinuum modeling with UDEC (Part 2)
15:00-15:15	<i>Coffee Break</i>
15:15-17:00	Case Histories & Future Directions - deep drainage mitigation, Total Slope Analysis, strength degradation & brittle fracture

Bring a laptop computer.

Registration and Enrollment This course is limited to a maximum of 40 attendees and a minimum of 20 attendees. This course is subject to course cancellation if insufficient paid enrollment by March 14, 2008.

Submit registration form and payment made payable to AEG Sacramento to:

Wallace-Kuhl & Associates
 Attn: Lisa Breckenridge
 3251 Beacon Boulevard, Suite 300
 West Sacramento, CA 95691

Course Fees: \$250.00, AEG Members
 \$300.00, Non-AEG Members
 \$350.00, at the door if seats are available

Bring a laptop computer.

Return the following registration information ASAP, and no later than Friday, March 14, 2008, with check payable to AEG Sacramento:

Name			E-Mail Address		
Affiliation (company name, employer, etc.)					
Mailing Address (city, state & zip)					
Amount Paid. Please indicate by checking appropriate box.	\$250.00 AEG Member	<input type="checkbox"/>	\$300.00 Non-Member	<input type="checkbox"/>	<input type="checkbox"/>
AEG Member Number (if applicable)					
Two telephone numbers (work and cell)					

Please send e-Mail message that you have sent registration information and payment to Lisa Breckenridge (lbreckenridge@wallace-kuhl.com). E-mail confirmation of enrollment will be by return e-mail, and will constitute receipt of payment.

Refund Policy: All requests for refunds must be in writing. No refunds will be granted if attendees miss the course. A full refund will be granted if requested prior to March 14, 2008. Refund requests received after 5 PM on March 14, 2008 will only be granted if another paid attendee can fill the course spot.

Bring a laptop computer.