



Short Course

Realistic Failure Process Analysis

June 15, 2010 8:00 - 17:00

Willet Green Miller Centre - Auditorium
935 Ramsey Lake Road, Sudbury, Ontario



Presenter: Dr. Chunan Tang
Center for Rock Instability and Seismicity Research,
Dalian University of Technology,
Dalian, Liaoning, China



Summary: Numerical models that simulate the detailed fracturing process are useful for understanding rock failure mechanisms on both the small and large scales. In this short course, a numerical code, the Realistic Failure Process Analysis (RFPA) model, will be introduced. Examples are presented to illustrate how the overall macroscopic response of a brittle rock can be simulated by integration of the interactions between smaller-scale elements. In addition, through the modeling examples of slope and tunnel instability, Dr. Tang will demonstrate how RFPA can be used to analyze large-scale practical problems. Participants will gain a good understanding of the physics and mechanics involved in RFPA. The course also provides brief training of using RFPA to benefit all the attendants.

Course Content:

1. Introduction of RFPA principle
2. Modeling Rock Failure Under Laboratory Condition
3. Modeling Rock Failure Considering Rock Realistic Rock Properties
4. Modeling Rock Failure Under Engineering Circumstances (Field Conditions)
5. Brief Training of RFPA Code and Concluding Remarks

For further technical enquiries about this short course, please contact **Dr. Ming Cai**, Geomechanics Research Chair, School of Engineering, Laurentian University, Tel. 1-705-675-1151 ext. 5099 or 2284, Email: mcai@laurentian.ca.

Registration

\$ 250 cdn Before May 21st

\$ 300 cdn After May 21st

Plus 5% GST
Includes breakfast,
refreshments, lunch, and
course materials.

Deadline for registration:
June 4th, 2010
Space is limited

Visit website for the
registration form

For more details contact
Shannon Katary
skatary@miningexcellence.ca
705.673.6568 x 7

