1st International FLAC/DEM Symposium

Pre-Symposium Short Courses*
Sunday, August 24, 2008

(*registration required)

	FLAC/FLAC^{3D}	***PFC^{2D}/PFC^{3D}***	***UDEC/3DEC***
9:00-10:45	**Grid generation** - New 2D virtual grid tools - Automatic re-meshing during calculation - Creating complex grids with 3DShop	**Bonded particle modeling** - Model construction aids, the FISH tools FIST and VLA - Smooth Joint Logic, a new approach to model joints in a bonded-particle model	***UDEC/3DEC* applications** - Modeling slope failure: debris flow simulations - Simulating pore pressure effects in a jointed rock mass - Dynamic effects on underground pillars and tunnel liners
10:45-11:00	Coffee Break	Coffee Break	Coffee Break
11:00-12:00	**Structural elements** - Connecting structural elements to represent multiple supports - Simulating pre-tensioning **Stress initialization** - Techniques for initializing stresses in non-uniform grids	**Research examples** - Synthetic Rock Mass (SRM) modeling - Large Open Pit (LOP) stability analysis - Grain-based modeling	**Running models in *UDEC*** - Introduction to the enhanced graphical interface in *UDEC* - Creating and running models in the *UDEC* graphical interface
12:00-1:30	Lunch	Lunch	Lunch
1:30-3:00	**Groundwater analysis** - groundwater modeling advice and considerations **Dynamic analysis** - dynamic modeling advice and considerations	**Fluid-particle interaction** - Classes of fluid-particle interaction problems - CCFD (Coupled Computational Fluid Dynamics and *PFC3D*) - HSBM (Hybrid Stress Blasting Model)	***3DEC* graphical interface** - The new graphical interface for creating and manipulating 3D output - Building *3DEC* models from AutoCAD dxf files
3:00-3:15	Coffee Break	Coffee Break	Coffee Break
3:15-5:00	**Future developments** **User questions**	**Future developments** **User questions**	**Future developments** **User questions**