

***Ground Control at the Mine Face  
One-Day on Site Geomechanics Training  
for Underground Mine Workers  
Program***

***Registration***

***Introduction***

***Yves Potvin, Australian Centre  
for Geomechanics (ACG)***

***Session 1. What do you know about rock?***

***Phil Dight, Coffey Mining***

- Rock strength
- Rock weaknesses
- Concept of rock mass
- Rock mass behaviour

***Session 2. Understanding ground pressure (stress)***

***Yves Potvin, ACG***

- The origin of stresses
- Stresses around mine excavations and how they change
- High stress conditions
- Low stress conditions

***Session 3. Making stable underground excavations***

***Yves Potvin, ACG***

- Failure types: how to identify and how to avoid them
- Design of openings
- Drives size and shape and location
- Blast damage

***Lunch***

***Session 4. Ground support***

***Phil Dight / Yves Potvin***

- The main types of support, how they work, what's good and what's bad about each type of support
- Selecting the appropriate support
- How many bolts do I need?
- Shotcrete mesh and other surface support
- Quality control and audits

***Session 5 Looking at the whole mine***

***Yves Potvin, ACG***

- Extraction sequence
- The role of fill
- Regional instability case histories
- Lessons to be learnt

***Session 6. New regulations***

***Phil Dight, Coffey Mining***

- Duty of care
- Code of Practice
- Risk assessment