



1st Australasian Ground Control in Mining Conference
the inaugural event of the Australasian Mining Rock Mechanics Society

Session 6. Ground support

- 10.20 am ALTS II – a longwall gateroad design methodology for Australian collieries
– M Colwell, R Frith & D Hill

- 10.40 am The application of pre-tensioned grouted tendons at Harworth Colliery, UK
– G Rennison, C J Adams

- 11.00 am Understanding the performance of rock reinforcement elements under shear loading through laboratory testing: a 30-year history - W Hartman

- 11.20 am Observations on the differences in load transfer of a fully encapsulated rockbolt – P. Hagan

- 11.40 am Questions

- 12.10 pm – 1.15 pm Lunch (sponsored by Megabolt)

Session 7. Stope design 2

- 1.15 pm Characterising rock masses – A Duran

- 1.35 pm Validation of Q at Mt Charlotte Mine – M Lee & P Mikula

- 1.55 pm Questions

- 2.15pm – 2.35pm Afternoon tea

Session 8. Geotechnical applications 2

- 2.35pm Changes in mine seismicity following a mine shutdown – L Mollison, G Sweby & Y Potvin

- 2.55 pm The strength of coal pillars – J O Watson

- 3.15 pm Seismic monitoring in mines – Old technology, new applications – M Hudyma, D Heal & P Mikula

- 3.35 pm Questions

- 4.00pm Close of Conference

- 4.10 pm Depart for Mine Tours 1 and 2

THURSDAY 13 NOVEMBER

Mine Tours

- Tour 1 Overnight at Lithgow, Wednesday 12 November. Thursday 13th November, underground visit to Baal Bone Colliery, returning to UNSW in evening, via Sydney Airport.

- Tour 2 Dinner at Lithgow, overnight at Orange, Wednesday 12 November. Thursday 13th November, visit Newcrest's Cadia Valley Operations, including underground inspection of Ridgeway Mine, returning to UNSW in evening, via Sydney Airport (latest expected arrival time 8pm).

Transport, accommodation, breakfast and cut lunch included in registration fee, dinner and drinks at own expense.

Ground Control in Mining Technology & Practice

10 – 13 November 2003
 The Scientia
 The University of New South Wales

PROGRAM





MONDAY 10 NOVEMBER

4th Eastern Australia Ground Control Group Workshop

Venue: Room 150, School of Mining Engineering, Old Main Building, Middle Campus

9.30 am Registration & coffee

10.00 am **Block caving session**, presented by Iain Ross, Mining Manager, Northparkes Mine, followed by discussion & questions. In his presentation, Iain will describe the circumstances and causes of the catastrophic cave event of 24 November 1999 and subsequent developments.

11.30 am – 11.45am Morning tea

11.45 am **Geotechnical education and training**. Professor Jim Galvin and Dr. Kevin Tuckwell will give presentations on MTEC's vision for the future training of suitable geotechnical engineers for the mining industry. The presentations will be followed by discussion and questions.

1.15 pm – 2.00pm BBQ Lunch

2.00 pm **EAGCG management session**, including Annual General Meeting. Matters to be discussed include the possible affiliation of the EAGCG with an umbrella organisation such as the AusIMM or AGS, the EAGCG finances and the election of the Committee for the next 12 months.

3.00 pm – 3.30pm Afternoon tea

3.30 pm **Round table discussion of topical issues**. Participants are invited to raise ground control issues without the need to give any prior notice.

5.30 pm Informal drinks

6.30 pm **Dinner** (not included in registration fee) at a local venue (Mama Theresa's, Anzac Parade, Kingsford (5 mins walk from UNSW))

TUESDAY 11 NOVEMBER

Ground Control in Mining - Technology and Practice Conference

Venue: Tyree Room, The Scientia, Upper Campus, UNSW

8.00 am Registration & coffee

8.30 am Welcome

Session 1. Ground control management

8.35 am Northparkes Findings – The implications for geotechnical professionals in the mining industry – B K Hebblewhite

9.00 am Predicting open stope stability and cavability using the Extended Mathews stability graph – C Mawdesley & R Trueman

9.20 am Assessing inrush risk in an underground coal mine – R Doyle & G Knight

9.40 am A case study on longwall mining under the tidal waters of Lake Macquarie – G Li, I Forster & M Fellowes

10.00 am Questions

10.25 am Morning Tea (sponsored by AMC Consultants)

Session 2. Geotechnical applications

10.55 am Geotechnical challenges in opal mining in Australia – B J McKinnon & J M Galvin

11.15 am Managing the hazard of wind blast/air blast in caving operations in Australian underground mines – J C W Fowler

11.35 am Integrated mine gas emission simulation – H Guo, D Adhikary, S Xue, S Craig, B Poulsen, S Chen, N Ishihara & M Fujioka

11.55 am Questions

12.20 pm Lunch (sponsored by DSI)

Session 3. Stope design 1

1.20 pm Applying the Extended Mathews stability graph to stress relaxation, site-specific effects and narrow-vein stoping - Penny Stewart & Robert Trueman

1.40 pm Design for stable open stopes – K Guilfoyle

2.00 pm Assessing Stope Overbreak at Olympic Dam – M Pascoe & M Oddie

2.20 pm Questions

2.45 pm Afternoon tea

Session 4. Numerical modelling

3.10 pm Geotechnical design issues for multi-seam longwall panels – W J Gale

3.30 pm Explicit predictive technology for studying the evolution of damage in ore passes – J G Loughran, S I Anderson & D R J Owens

3.50 pm A multipolar continuum application to ground control – M Bertoli & B Chappell

4.10 pm Questions

4.30 pm – 5.30 pm Visit to School of Mining Engineering Geotechnical Laboratories, Middle Campus, UNSW

7.00 pm for 7.30 pm – Conference Dinner in The Ballroom, Crowne Plaza Hotel, Coogee Beach

WEDNESDAY 12 NOVEMBER

Venue: Tyree Room, The Scientia, Upper Campus, UNSW

8.15 am Registration & coffee

8.30 am Welcome

Session 5. Geotechnical applications 1

8.30 am Repeat-pass satellite radar interferometry for mine subsidence monitoring – L Ge, H-C Chang, C Rizos & B Hebblewhite

8.50 am Monitoring a blind sub-level cave – A case study of an integrated approach at Newcrest Mining's Ridgeway Gold Mine – Michael Pfitzner

9.10 am Geotechnical investigations at Cadia Hill – S Hewson, Y Cai & T Li

9.30 am Questions

9.55 am – 10.20 am Morning Tea