



## 10<sup>th</sup> Coal Operators' Conference

11<sup>th</sup> /12<sup>th</sup> February 2010, Wollongong, NSW  
 McKinnon Building 67-104, University of Wollongong

### Programme

Thursday, 11 <sup>th</sup> February	
8.00 - 8.30 am	Registration and Coffee
8.30 - 9.30am	Plenary Session - Chair: <i>Naj Aziz</i>
Welcome to the University and official opening: Professor Gerard Sutton, Vice Chancellor, UOW Michael Catchpole, CEO, AusIMM: Monograph 12 "Australasian Coal Mining Practice" 3 <sup>rd</sup> Edition Launch Keynote Paper: Colin Bloomfield: Innovating for success	
9.35 - 10.30 am	Technical Session I - Chair: <i>Ray Tolhurst</i>
1. B Robertson:	The role of ACARP in supporting Australian coal research.
2. D Black, N Aziz:	Outburst threshold limits - current research outcome
10.30 - 11.00 am	Morning Tea
11.00 - 1.00 pm	Technical Session II - Chair: <i>Bob Kininmonth</i>
3. C Mark, M Gadde:	Global trends in coal mine horizontal stress measurements
4. I Canbulat:	Roadway roof support design in critical areas at Anglo American metallurgical coal's underground operations
5. R Trueman M Callan, R Thomas, D Hoyer:	Quantifying the impact of cover depth and panel width on longwall shield-strata interactions
6. C Claassen, B Beamish:	Case study of ethane emissions at Mandalong Mine
1.00 - 2.00 pm	Lunch - University Function Centre
2.00 - 3.30 pm	Technical Session III - Chair: <i>Chris Harvey</i>
7. R Seedsman:	Calibrated parameters for the prediction of subsidence at Mandalong mine
8. T Medhurst, P Hatherly, B Zhou:	3D geotechnical models for coal and clastic rocks based on the GSR
9. M Colwell, R Frith:	AMCMRR- an analytical model for coal mine roof reinforcement
3.30 - 4.00 pm	Afternoon Tea
4.00 - 6.00 pm	Technical Session IV - Chair: <i>Brian Nicholls</i>
10. P Craig, N Aziz:	Double shear testing of TG cable bolt
11. W Hartman, B Lecinq, J Higgs, D Tongue:	Non destructive integrity testing of rock reinforcement in Australian mines
12. U Wyink, W Mahoney:	Meyco TSL an advanced technology to improve ground stability in underground coal mines
13. D Cliff, J Grieves:	Improving emergency management in underground coal mines
14. G Nugent, S Devlin, J Grieves, D Cliff, D Brady:	Mines rescue guidelines - the next generation
7.00 for 7.30 pm Conference Dinner – City Beach Function Centre, Marine Drive, Wollongong	

**Friday 12<sup>th</sup> July 2010**

**8.15 - 10.30 am Technical Session V - Chair: Ian McDonell**

- 15. **S Xue, G Wang, Y C Wang, J Xie:** A numerical simulator of outbursts of coal and gas
- 16. **L Lunarzewski:** Coal mine goaf gas predictor (CMGGP)
- 17. **A Saghafi, Z Javanmard, D Roberts:** Parameters affecting coal seam gas escape through floor and roof strata
- 18. **R Florentin, N Aziz, D Black, L Nghiem, K Bariš:** Recovery of stored gas in coal by nitrogen injection - a laboratory study
- 19. **B Kininmonth:** Appin Colliery explosion reassessed

**10.30 - 11.00 am Morning Tea**

**11.00 - 1.15 pm Technical Session VI - Chair: John Hoelle**

- 20. **A Preusse, J Kraemer:** Mine gas initiative north Rhine-Westphalia -part of EnergyAgency-NRW
- 21. **I V S Mutton, A Remennikov:** Designing explosion rated ventilation seals for coal mines using high-fidelity physics based computer modelling
- 22. **D Bigby, K MacAndrew, K Hurt:** Innovations in mine roadway stability monitoring using dual height and remote reading electronic telltales
- 23. **A Golsby:** Introduction of continuous haulage (4FCT) at the Clarence Colliery
- 24. **B Beamish, T Sutherland, M Coull, D Walker, G Day, C Shales, R Craker, J Rowland, J Smith:** Application of fault tree analysis to coal spontaneous combustion

**1.15 -2.00 pm Lunch - University Function Centre**

**2.00 - 5.30 pm Technical Session VII - Chair: Joan Sharon Esterle and Jan Nemcik**

- 25. **A Vakili, J Albrecht, W Gibson:** Mine-scale numerical modelling of longwall operations
- 26. **D Humphreys, G Collecutt, D Proud:** CFD simulation of underground coal dust explosions and active explosion barriers
- 27. **T Ren:** The use of CFD modelling as a tool for solving mining health and safety problems
- 28. **S Hossaini, M Poursaeed:** Modification of four-section cut model for drift blast design in Razi coal mine - North Iran
- 29. **D Hill:** Managing the geotechnical aspects of longwall face recovery
- 30. **D Black, N Aziz:** Impact of coal properties and operational factors on mine gas drainage

**END**

**Additional Papers in Conference Proceedings**

- 31. **B Beamish, R Beamish:** Benchmarking moist coal adiabatic oven testing
- 32. **A S Atkins, L Zhang, H Yu:** Applications of RFID and mobile technology in tracking of equipment for maintenance in the mining industry
- 33. **A Preusse, HJ Kateloe, A Sroka:** Assessment of seismic events in German hard coal mining – occurrence and prediction
- 34. **A A Sahebi, H Jalalifar, M A Ebrahimi, A Abdolrezaee:** Stability analysis of roadway Tabas coal mine using empirical and numerical methods
- 35. **A A Sahebi, H Jalalifar, M A Ebrahim:** Stability analysis and optimum support design of a roadway in a faulted zone during face retreat. Case study -Tabas coal mine
- 36. **N Hosseini K Oraee, M Gholinejad:** Seismic analysis of horseshoe tunnels under dynamic loads due to earthquakes
- 37. **K Oraee, N Hosseini, M Soltani, M Amirafshari:** Productivity improvement from economic concept to an engineering tool
- 38. **J J Boneu, L Dunn, P Gibson:** Towards an integrated information infrastructure in coal mining, asset management application



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