

	<p><b>Stream A: Ritchie Theatre</b>  <b>Session 1: Plenary I</b>  <b>Session Chair: Paul Hagan FAusIMM, AusRock 2014 Conference Co Chair</b></p>	
8.30 am – 8.50 am	<p><b>Official Opening:</b> Professor Paul Hagan, AusRock 2014 Conference Co Chair and Professor Nasser Khalili, Associate Dean of Research, School of Civil Engineering, UNSW Australia, Professor Xia-Ting Feng, President, ISRM</p>	
8.50 am – 8.55 am	<p><b>AusIMM Welcome:</b> Michael Catchpole MAusIMM, Chief Executive, The AusIMM</p>	
8.55 am – 9.25 am	<p><b>Keynote Presentation I:</b> The Significance of Superincumbent Strata Stiffness and its Impacts on Coalmine Design — Professor Jim Galvin, UNSW Australia, Galvin Associates</p>	
9.25 am – 9.55 am	<p><b>Keynote Presentation II:</b> Rock Support System Degradation and Performance Metrics — Professor John Hadjigeorgiou, University of Toronto</p>	
9.55 am – 10.25 am	<p><b>Morning Tea Break &amp; Exhibition, Leighton Hall</b></p>	
	<p><b>Stream A: Ritchie Theatre</b>  <b>Session 2A: Geotechnical Design and Methodologies</b>  <b>Session Chairs: Naj Aziz, University of Wollongong and Shuren Wang, Yanshan University</b></p>	<p><b>Stream B: Galleries 1 and 2</b>  <b>Session 2B: Numerical Modelling</b>  <b>Session Chairs: Ismet Canbulat MAusIMM, Anglo American Metallurgical Coal and Joung Oh, UNSW Australia</b></p>
10.25 am – 10.50 am	<p>Geotechnical Models and Data Confidence in Mining Geotechnical Design — M Dunn</p>	<p>LaModel – A Program for Coalmine Modelling — K A Heasley</p>
10.50 am – 11.15 am	<p>Rock Strength Anisotropy and its Importance in Underground Geotechnical Design — A Vakili, J Albrecht and M Sandy</p>	<p>Analysis of Geotechnical and Support Parameters on Coalmine Entry Stability using the Strength Reduction Method — G S Esterhuizen, M M Murphy and T S Bajpayee</p>
11.15 am – 11.40 am	<p>Estimation of Regional Stress State and Young's Modulus of Ground at Torigatayama Limestone Mine in Japan — J Kodama, T Sasaki, D Fukuda, K Kaneko, Y Fujii and R Kudo</p>	<p>A Strain-based Failure Criterion for Pillar Stability Analysis — O Gaede, C Schrank, I Canbulat and A Karrech</p>
11.40 am – 12.05 pm	<p>Longwall Mining Beneath Critical Infrastructure – Prediction versus Performance of the Cataract Tunnel, New South Wales, Australia — G Swarbrick, T Sullivan and H Pinkster</p>	<p><b>Block Caving Virtual Tour.</b> To register, please visit the registration desk for details</p>
12.05 pm – 1.05 pm	<p><b>Lunch Break &amp; Exhibition, Leighton Hall</b></p>	
	Sponsored by: 	
	<p><b>Session 3A: Mine Designs – Geotechnical Consideration</b>  <b>Session Chairs: David Beck, Beck Engineering and Hossein Masoumi, UNSW Australia</b> Sponsored by: </p>	<p><b>Session 3B: Ground Support</b>  <b>Session Chair: Fidelis Suorineni, UNSW Australia</b> Sponsored by: </p>
1.05 pm – 1.30 pm	<p>From Sublevel Stopping to Sublevel Caving at Rana Gruber, Norway – Rock Mechanics Aspects — I S B Bergh, N Q Trinh, A M Myrvang and B Nost</p>	<p>An Investigation of the Corrosive Impact of Groundwater on Rock Bolts in Underground Coal Mines — P Craig, S Saydam, P Hagan, B Hebblewhite, D Vandermaat, A Crosby and E Elias</p>
1.30 pm – 1.55 pm	<p>Multislice Longwalling for Thick Seam Extraction – Properties of Goaf in the Roof and Gate Roads Behaviour — S Prusek, Z Lubosik, M Plonka and S Syrek</p>	<p>Laboratory Corrosion Tests of Frictional Rock Bolts — D W Airey</p>
1.55 pm – 2.20 pm	<p>New Empirical Equations to Estimate the Hydraulic Aperture of Rock Discontinuities at Different Depths — M Zoorabadi, S Saydam, W Timms and B Hebblewhite</p>	<p>The Strength Properties of Fibreglass and other Polymer-based Dowels for Strata Reinforcement in Coalmines — N Aziz, D Gilbert, J Nemcik, A Mirzaghorbali and R Burton</p>
2.20 pm – 2.45 pm	<p>Rock Stresses at Ok Tedi, Papua New Guinea — M F Lee, N R P Baczynski, K W Mills, I A de Bruyn and L Mollison</p>	<p>A Non-destructive Testing Method for Measuring Bolt Condition — B Jones and M Chappell</p>
2.45 pm – 3.15 pm	<p><b>Afternoon Tea Break &amp; Exhibition, Leighton Hall</b></p>	
	<p><b>Session 4A: Best Practice Case Studies</b>  <b>Session Chair: Michael Dunn FAusIMM(CP), SRK Consulting and Junichi Kodama, Hokkaido University</b></p>	<p><b>Session 4B: Rock Mass Characterisation Techniques and Practices</b>  <b>Session Chairs: Anthony De Veth MAusIMM(CP), AMC Consultants Pty Ltd and Ken Mills, SCT Operations Pty Ltd</b></p>
3.15 pm – 3.40 pm	<p>The Application of Rock Stress Inputs to Stability Assessments at Ok Tedi Mine, Papua New Guinea — I A de Bruyn, N R P Baczynski, M F Lee, K W Mills, J Mylvaganam and D A Prado</p>	<p>Estimating the Rock Mass Strength of Hawkesbury Sandstone — R Bertuzzi</p>
3.40 pm – 4.05 pm	<p>Pillar Recovery Adjacent to Stabilised Rock Fill at the Ballarat Gold Project — B L Sainsbury, D P Sainsbury, J Western, P E Petrie and V Mutton</p>	<p>An Introduction to Discrete Fracture Network Modelling and its Geotechnical Applications — F Weir and M Fowler</p>
4.05 pm – 4.30 pm	<p>Redevelopment at Northparkes Following Significant Drive Closure — J Samosir and L A Snyman</p>	<p>Designing Interferometric Synthetic Aperture Radar Surveys for Mine Monitoring with Accuracy Assessment — M D Henschel, S Sato, R Ahola and M-A McParland</p>
4.30 pm – 4.55 pm	<p>Application of Design by Measurement for Support and Pillar Design in Mechanised Room and Pillar Coal Mining in India — K M MacAndrew, A S Garcia, I D Gregson and A Gandhi</p>	<p>Measurement of Residual Shear Strength using a Modified Direct Shear Apparatus — L Tatnell, A Tolooiyan and R Mackay</p>
6.45 pm for 7.00 pm Departure	<p><b>AusRock 2014 Conference Dinner Cruise, Jetty 01, King Street Wharf, Darling Harbour</b></p>	

	<p><b>Stream A: Ritchie Theatre</b>  <b>Session 5: Plenary II</b>  <b>Session Chair: Bruce Hebblewhite MAusIMM, UNSW Australia</b></p>	
8.30 am – 9.00 am	<p><b>Keynote Presentation III:</b> Experiments on Rockburst and its Control — <i>Professor Manchao He, China University of Mines and Technology</i></p>	
9.00 am – 9.30 am	<p><b>Keynote Presentation IV:</b> Coal Bursts in the Deep Longwall Mines of the United States — <i>Dr Christopher Mark, Mine Safety and Health Administration</i></p>	
9.30 am – 9.55 am	<p>Reflections on Empirical Methods in Geomechanics – The Unmentionables and Hidden Risks — <i>F Suorineni</i></p>	
9.55 am – 10.20 am	<p>Creep due to Chemical Alteration of Rocks – A Case Study in Brown Coal — <i>S Kim, R Mackay and B J Wight</i></p>	
10.20 am – 10.25 am	<p>AusIMM Chartered Professionals Presentation — <i>Peter Hills FAusIMM(CP), Chartered Professionals Board Member</i></p>	
<b>10.25 am – 10.55 am</b>	<p><b>Morning Tea Break &amp; Exhibition, Leighton Hall</b></p>	
	<p><b>Stream A: Ritchie Theatre</b>  <b>Session 6A: Geotechnical Risk Management</b>  <b>Session Chairs: Stuart Read, GNS Science, Lower Hutt</b></p>	<p><b>Stream B: Galleries 1 and 2</b>  <b>Session 6B: Geotechnical Instrumentation and Monitoring</b>  <b>Session Chairs: Keith Heasley, West Virginia University and Bre-Anne Sainsbury, Castlemaine Goldfields Limited</b></p>
10.55 am – 11.20 am	<p>A New Tool for Extensometer Data Analysis and Improved Understanding of Geotechnical Risk Factors — <i>P Corbett, P Sheffield, and M Szwec</i></p>	<p>Temperature Monitoring of Hydraulic Fractures used for Preconditioning Massive Conglomerate Strata to Reduce Windblast — <i>K W Mills, B G Blacka, R G Jeffrey and O Salisbury</i></p>
11.20 am – 11.45 am	<p>Geotechnical Management at the AGL Loy Yang Mine — <i>B L Jansen, S Cyphers and J Missen</i></p>	<p>Better Prediction of Performance of a Slope Using Time-series Monitoring Data at Multiple Points in a Multistep Excavation — <i>X Y Li and L M Zhang</i></p>
11.45 am – 12.10 pm	<p>Rock Mass Characterisation and Analysis for Excavation Design – A Discrete Fracture Network Approach — <i>F Weir and M Fowler</i></p>	<p>A Bounding Surface Model for Sand Subjected to Blast-induced Vibrations — <i>T H Xu, L M Zhang and J Zhao</i></p>
12.10 pm – 12.35 pm	<p>RISKGATE: Shared Coal Mining Knowledge for Managing Risks across Ground Management — <i>P A Kirsch, B Hebblewhite, D Sprott, J Harris, J Li, M Shi, B Whittaker, J Galvin, P Bergin, R Mitra and D Williams</i></p>	<p>Application of the Distinct Lattice Spring Model on Toppling Failure of a Jointed Rock Slope — <i>G F Zhao, N Khalili and J Zhao</i></p>
<b>12.35 pm – 1.35 pm</b>	<p><b>Lunch Break &amp; Exhibition, Leighton Hall</b></p>	
	<p><b>Session 7A: Geotechnical Challenges</b>  <b>Session Chairs: Rudra Mitra MAusIMM, UNSW Australia</b></p>	<p><b>Session 7B: Mine Design – Geotechnical Considerations</b>  <b>Session Chairs: Peter Corbett MAusIMM, Centenial Coal and Cai Meifeng, University of Science &amp; Technology</b></p>
1.35 pm – 2.00 pm	<p>Mining Through Sandfill using Spiling Bars — <i>D Carroll</i></p>	<p>Prediction of Roof Collapse for Rectangular Underground Openings — <i>A M Suchowerska, J P Hambleton and J P Carter</i></p>
2.00 pm – 2.25 pm	<p>Confirmation of Multiseam Extraction Rules for Black Rock Manganese Operations, Assmang, Northern Cape, South Africa — <i>J W L Hanekom, M K C Roberts, M G Magwaza, R Lousteau and P Piper</i></p>	<p>The Consequences for Pillar Stability of Zero Confining Stress Brought about by Forced or Natural Drainage — <i>I Gray</i></p>
2.25 pm – 2.50 pm	<p>Comparison of Field Estimated Strengths — <i>A Duran</i></p>	<p>Coalmine Pillar Design and Performance during Mechanised Pillar Extraction in India — <i>K M MacAndrew, A S Garcia and I D Gregson</i></p>
2.50 pm – 3.15 pm	<p>Simulating Mine Backfill in a Fully Drained Condition using Discrete Element Modelling — <i>A Hasan and A Karrech</i></p>	<p>Geotechnical Challenges for Underground Commercial Space and Quarrying in Australia — <i>A B Bayooke and A C Robertson</i></p>
<b>3.15 pm – 3.45 pm</b>	<p><b>Afternoon Tea Break &amp; Exhibition, Leighton Hall</b></p>	
	<p><b>Stream A</b>  <b>Session 8: Plenary III</b>  <b>Session Chair: Serkan Saydam MAusIMM, AusRock 2014 Conference Co-Chair</b></p>	
3.45 pm – 4.10 pm	<p>Exploring the Use of Fibre Reinforced Shotcrete in Large Diameter Shafts — <i>P B Hills, D A O'Toole, D J Kilkenny and K L Seah</i></p>	
4.10 pm – 4.35 pm	<p>Mechanical Properties of Cementitious Grout Serving in Fully Grouted Cable Bolting Systems — <i>J Chen, P Hagan and S Saydam</i></p>	
4.35 pm – 5.00 pm	<p>Development and Implementation of Spin-to-Stall Resin at Anglo American's Australian Underground Coal Operations — <i>J Emery, I Canbulat, P Craig, J Naylor and A Sykes</i></p>	
5.00 pm – 5.25 pm	<p>The Application of Virtual Reality Technology and Scientific Visualisation to the Understanding of Block Cave Mining Systems — <i>J Tibbett, F Suorineni and B Hebblewhite</i></p>	
5.25 pm – 5.35 pm	<p><b>Official Conference Close: Professor Serkan Saydam MAusIMM, AusRock 2014 Conference Co Chair</b></p>	