

Tenth International Mining Geology Conference 2017

Setting new standards

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DAY 1 – Wednesday 20 September 2017 | Grand Ballroom

Session 1: Advances in grade control and reconciliation Session Chair: John Carswell FAusIMM, Conference Chair	
8.30 am – 8.45 am	Welcome and Opening Remarks: <i>John Carswell FAusIMM, Conference Chair and Robert Findlay MAIG, Federal Councillor, AIG</i>
8.45 am – 8.55 am	Official AusIMM Conference Opening: <i>Stephen Durkin MAusIMM, Chief Executive Officer, the AusIMM</i>
8.55 am – 9.20 am	Keynote Presentation 1: The business case for mine geology — <i>Colin Moorhead FAusIMM(CP), President, the AusIMM and Chief Executive Officer, PT Merdeka Copper Gold, Tbk</i>
9.20 am – 9.45 am	Keynote Presentation 2: Technology and innovation standardisation opportunities to equip the mining geologist of the future — <i>Jill Terry MAusIMM, Vice President Geoscience, Geoscience Centre of Excellence, BHP</i>
9.45 am – 10.00 am	Mine value chain reconciliation – demonstrating value through best practice — <i>C Morley and H Arvidson</i>
10.00 am – 10.15 am	Public reporting – new standards or no standards? — <i>R Sterk and J Coombes</i>
10.15 am – 10.30 am	Discussion
10.30 am – 10.35 am	Launch of Australian Ore Deposits — <i>Neil Phillips FAusIMM(CP), Editor, Australian Ore Deposits</i>
10.35 am – 11.05 am	Morning Tea and Exhibition Federation Ballroom
Session 2: Case studies in brownfields exploration Session Chair: Sean McKinley, Senior Geologist, Resource Development, Eldorado Gold Corp	
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11.05 am – 11.20 am	Starting from scratch – defining remnant resources from publicly available data: a case study from the Lord Nelson and Lord Henry gold deposits — <i>L Olssen, C Jia and J Graindorge</i>
11.20 am – 11.35 am	Using existing data to improve the delineation of ore at the Olympic Dam Fe-oxide Cu-U-Au-Ag deposit — <i>J Griffith and K Ehrig</i>
11.35 am – 11.50 am	Velvet underground exhumed – discovery and development of a new mining front at the Knownra Belle gold mine — <i>G Lorusso, J Rogers and G Tripp</i>
11.50 am – 12.05 pm	Geomechanical modelling of the Ernest Henry iron oxide copper gold deposit – identifying fluid pathways to predict potential mineralised zones — <i>J G McLellan and B Miller</i>
12.05 pm – 12.20 pm	Findings from a transient electromagnetic trial for heat-affected coal — <i>H J Stedman</i>
12.20 pm – 12.35 pm	Discussion
12.35 pm – 1.30 pm	Lunch and Exhibition Federation Ballroom
Session 3: Case studies in resource modelling Session Chair: Mark Berry MAIG, Director – Principal Geologist, Derisk Geomining Consultants Pty Ltd	
1.30 pm – 1.55 pm	Keynote Presentation 3: Mining geology: past, present and future — <i>Dr Marat Abzalov, Director – Gold, Primary Gold Consultant, MASSA Geosciences and Co-Editor, Applied Earth Science Journal</i>
1.55 pm – 2.10 pm	Improving coal quality estimations using geostatistics and auxiliary variables — <i>R Jeuken, C Xu and P Dowd</i>
2.10 pm – 2.25 pm	Application of normative ore mineralogy to geological and metallurgical datasets at the Hera Au-Pb- Zn-Ag Mine, New South Wales, Australia — <i>A R McKinnon</i>
2.25 pm – 2.40 pm	Pattern recognition in transformed data – search for domain shapes in mine geology data — <i>S Juras, S McKinley and E Uludag</i>
2.40 pm – 2.55 pm	Local uncertainty benchmarking – a coal case study — <i>C Mawdesley, D Barry, O Bertoli and R Saha</i>
2.55 pm – 3.10 pm	Discussion
3.10 pm – 3.15 pm	Launch of Applied Mining Geology — <i>John Carswell FAusIMM, Conference Chair</i>
3.15 pm – 3.45 pm	Afternoon Tea and Exhibition Federation Ballroom
Session 4: Case studies in grade control and reconciliation Session Chair: Steve Jeffrey, Technology Research Analyst, Acquire Technology Solutions	
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3.45 pm – 4.10 pm	Keynote Presentation 4: Mine geology standardisation – providing the foundation to consistent short-term geometallurgical product predictions in a complex multi-mine and supply chain environment — <i>Bruce Sommerville FAusIMM(CP), Manager Resource Geology and Metallurgical Development, Rio Tinto</i>
4.10 pm – 4.25 pm	Geoscience input into blasting operations – let's set a new standard — <i>T N Little</i>
4.25 pm – 4.40 pm	Blast movement monitors or polypipe? A study into cost effective blast movement monitoring at White Foil Gold Mine, Western Australia — <i>M E Watson</i>
4.40 pm – 4.55 pm	Setting new standards at Kanmantoo – a case study on effective pit to mill ore delivery — <i>M Reid and H Arbon</i>
4.55 pm – 5.10 pm	Systemic approach to managing Mine to Mill reconciliation process — <i>R Adofo</i>
5.10 pm – 5.25 pm	Discussion
5.25 pm – 5.30 pm	Day 1 Closing Remarks
5.30 pm – 7.30 pm	Welcome Reception and Exhibition Federation Ballroom Welcome from Guy Barnett MP, Minister for Resources, Minister for Building and Construction, Minister, acting for and on behalf of the Minister for Corrections
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DAY 2 – Thursday 21 September 2017 | Grand Ballroom

6.45 am – 8.00 am	Leadership & Inclusive Culture Breakfast Her Excellency Professor the Honourable Kate Warner AC, The Governor of Tasmania
Session 5: Mining geology and geotechnical and mining engineering Session Chair: Lynn Olssen MAusIMM(CP), General Manager, Resource Knowledge & Definition, Rio Tinto	
8.30 am – 8.35 am	Day 2 AusIMM Welcome: <i>Colin Moorhead FAusIMM(CP), President, the AusIMM and Chief Executive Officer, PT Merdeka Copper Gold, Tbk</i>
8.35 am – 9.00 am	Keynote Presentation 5: Knowledge, confidence, risk, value: a personal perspective — <i>Mark Adams MAusIMM, Senior Mining Manager, PT Nusa Halmahera Minerals</i>
9.00 am – 9.15 am	The necessary role of the geologist in geotechnical data gathering — <i>P B Hills</i>
9.15 am – 9.30 am	Automated joint mapping using the concentric shells algorithm — <i>P Valenzuela</i>
9.30 am – 9.45 am	Olympic Dam rock quality designation model – an integrated approach — <i>J M Clark, M Passmore and N Poznik</i>
9.45 am – 10.00 am	Case study of joint structure and the design and performance of open pit walls at the Kanmantoo Copper Mine — <i>B J Hutchison, J Chambers, S Gannon and D Oke-obo</i>
10.00 am – 10.15 am	A new approach to logging and modelling faults at the Dugald River Pb-Zn-Ag Deposit, Northwest Queensland — <i>K George</i>
10.15 am – 10.30 am	Discussion
10.30 am – 11.00 am	Morning Tea and Exhibition Federation Ballroom
Session 6: Case studies and advances in sampling practice Session Chair: Craig Morley FAusIMM(CP), Head of Mining Geosciences & Reconciliation, AngloAmerican	
11.00 am – 11.15 am	Adding value with reverse circulation drilling at Pueblo Viejo — <i>M Almond and L Ventura</i>
11.15 am – 11.30 am	Best practice sampling QA/QC for gold and base metal mining – including how to assess the applicability of underground reverse circulation grade control sampling — <i>J T Carswell</i>
11.30 am – 11.45 am	Why combine reverse circulation and diamond drilling in Mineral Resource estimation at Purnama? — <i>D A Sims, J Pooe, A N Kasnanto and B Pulungan</i>
11.45 pm – 12.00 pm	Diamond Drilling at Efemçukuru Gold Mine, Turkey – a case study on the benefits of timely and cost-effective drilling to short-term planning — <i>N Arslan and M Ozkayhan</i>
12.00 pm – 12.15 pm	Discussion
12.15 pm – 1.15 pm	Lunch and Exhibition Federation Ballroom
Session 7: The future of mining geology Session Chair: Iain Levy, Senior Geologist, ARANZ Geo Proudly sponsored by	
1.15 pm – 1.40 pm	Keynote Presentation 6: The future of professional practice in mine geology – how to stay relevant or lessons from the Space Beagle — <i>Ian Lipton FAusIMM, Principal Geologist, AMC Consultants</i>
1.40 pm – 2.05 pm	Keynote Presentation 7: Does registration lead to greater professionalism? — <i>Dawson Wilkie, Chairperson, Board of Professional Engineers of Queensland</i>
2.05 pm – 2.20 pm	Sulfur – the new metallurgical grade in gold-sulfide deposits — <i>S Juras</i>
2.20 pm – 2.35 pm	Situational 3D variography – determining the variogram in the context of geology — <i>P Gleeson, T McLennan, P Suresh and J Coombes</i>
2.35 pm – 2.50 pm	Discussion
2.50 pm – 3.25 pm	Student and New Professional short poster presentations and Best Poster Award — <i>Dale Sims FAusIMM (CP), Director, Dale Sims Consulting and Board Director, the AusIMM</i>
3.25 pm – 3.55 pm	Afternoon Tea and Exhibition Federation Ballroom
Session 8: The future of mining geology (continued) Session Chair: Jill Terry MAusIMM, Vice President Geoscience, Geoscience Centre of Excellence, BHP Proudly sponsored by	
3.55 pm – 4.10 pm	Driving productivity by increasing feed quality through application of innovative Grade Engineering® technologies — <i>S G Walters</i>
4.10 pm – 4.25 pm	3D mine mapping – improving grade control and reconciliation in underground mines using photogrammetric imagery and implicit modelling techniques — <i>R H Knight</i>
4.25 pm – 4.40 pm	Sampling strategy by statistical analyses of LIBS data in the context of a portable gold analyser — <i>B Nguegang Kamwa, K Rifai, M Lallamme, M Constant, M Castello, F Vidal, P Bouchard, K Fytas, A Blouin and M Sabsabi</i>
4.40 pm – 4.55 pm	An integrated approach to mine planning – building the integrated planning model at Tropicana Gold Mine — <i>B Catto, D Elder, R Edwards, M Kent and J Woodward</i>
4.55 pm – 5.10 pm	Charles Dickens on the (potentially) changing role of globalisation and sustainability in the long-term future of mining and exploration — <i>J P Sykes, A Trench, T C McCuaig and M Jessell</i>
5.10 pm – 5.25 pm	Discussion
5.25 pm – 5.30 pm	Day 2 Closing Remarks
7.00 pm for 7.30 pm	Conference Dinner Blundstone Arena Bus transfers depart from the Hotel Grand Chancellor Hobart at 6.30 pm
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DAY 3 – Friday 22 September 2017 | Grand Ballroom

	Session 9: Case studies in brownfields exploration Session Chair: Dale Sims FAusIMM (CP), Director, Dale Sims Consulting and Board Director, the AusIMM
8.30 am – 8.35 am	Day 3 AusIMM Welcome: <i>Dale Sims FAusIMM (CP), Director, Dale Sims Consulting and Board Director, the AusIMM</i>
8.35 am – 9.00 am	Keynote Presentation 8: Is geology being diluted? — <i>Daniel Howe MAusIMM, Chief Geologist, Saracen Mineral Holdings Limited</i>
9.00 am – 9.25 am	Keynote Presentation 9: Geological data versus metallurgical information — <i>Peter Munro FAusIMM, Principal Consultant, Mineralis Consultants Pty Ltd</i>
9.25 am – 9.40 am	Testing new estimation techniques – rank and replace: a stockwork case study — <i>D Kentwell and D Finn</i>
9.40 am – 9.55 am	Fosterville Gold Mine – breaking the mould for Victorian gold — <i>N Phillips</i>
9.55 am – 10.10 am	The discovery of the QTS Central ore system, CSA Mine, Cobar, NSW, Australia — <i>E Apaza and R Neumayr</i>
10.10 am – 10.25 am	Discussion
10.25 am – 10.55 am	Morning Tea and Exhibition Federation Ballroom
	Session 10: Advances and case studies in geometallurgy and geoenvironment Session Chair: Robert Findlay MAIG, Federal Councillor, AIG
10.55 am – 11.10 am	The importance of geometallurgical test work for industrial minerals projects — <i>W J Shaw and A J Scogings</i>
11.10 am – 11.25 am	Empirical mill throughput modelling and linear programming for blend optimisation at the Phu Kham Copper-Gold Operation, Laos — <i>J Carpenter and B Saunders</i>
11.25 am – 11.40 am	Effectively linking mining geology with waste management – a case study from western Tasmania — <i>A Parbhakar-Fox and B G Lottermoser</i>
11.40 am – 11.55 am	Washability modelling and estimation techniques used to improve coal handling preparation plant beneficiation — <i>P J Handley</i>
11.55 am – 12.10 pm	Measuring ore quality using real-time on-belt elemental analysis – more than grade control — <i>H Kurth</i>
12.10 pm – 12.25 pm	Discussion
12.25 pm – 12.35 pm	AusIMM Geoscience Society Briefing
12.35 pm – 1.35 pm	Lunch and Exhibition Federation Ballroom Lunch Presentation by Tony Hope: Two remarkable mines – Mount Lyell and Mount Morgan Grand Ballroom
	Session 11: Organisational, social, economic and political environment Session Chair: Peter Hills FAusIMM(CP), Principal Mining Geotechnical Engineer, pitt&sherry
1.35 pm – 2.00 pm	Keynote Presentation 10: Educating the next generation of geologists — <i>Assoc Prof David Cohen, President of the Academic Board, UNSW Sydney</i>
2.00 pm – 2.15 pm	Improving competency and professionalism in the Australian Institute of Geoscientists — <i>Robert Findlay MAIG, Federal Councillor, AIG</i>
2.15 pm – 2.30 pm	Go with the flow – managing hydrogeological staff turnover at Ernest Henry Mine — <i>D Ashton, B Miller and C Hawtin</i>
2.30 pm – 2.45 pm	Improved assurance for Mineral Resource and Ore Reserve estimates and reporting through peer review and auditing — <i>M A Noppé</i>
2.45 pm – 3.00 pm	Rewriting the rule book – geology organisational design — <i>B Catto and T McLeod</i>
3.00 pm – 3.15 pm	Discussion
3.15 pm – 3.45 pm	Afternoon Tea and Exhibition Federation Ballroom
	Session 12: Advances in grade control and resource modelling Session Chair: Steve Sullivan MAusIMM, State Manager, Sales and Services, Maptex Pty Ltd
3.45 pm – 4.00 pm	Application of implicit geological modeling to improve the grade control process at White Mountain gold mine, Jilin Province, China — <i>S McKinley</i>
4.00 pm – 4.15 pm	Challenges of bi-modal gangue mineralogy in mining geology — <i>T J Callaghan</i>
4.15 pm – 4.30 pm	The practical use of underground 3D photogrammetry data at MMG Rosebery polymetallic mine, Tasmania — <i>M Robertson</i>
4.30 pm – 4.45 pm	Alteration at Kisladag gold mine, Turkey – a progressive study in geology, geotechnics and geometallurgy — <i>S McKinley, T Baker and Y Öztas</i>
4.45 pm – 5.00 pm	Discussion
5.00 pm – 5.15 pm	Conference Close and Best Presentation Award — John Carswell FAusIMM, Conference Chair

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