



Day 1 – Wednesday 28 September 2016

Pullman Brisbane King George Square, Kennedy and Roosevelt Room	
SESSION 1: Official Conference Opening Session Chair: David Mulligan FAusIMM, Conference Chair, Life-of-Mine 2016	
8.40 am - 8.45 am	Official Conference Opening and OH&S Briefing: David Mulligan FAusIMM, Conference Chair, Life-of-Mine 2016
8.45 am - 8.50 am	AusIMM Welcome: Steve De Kruijff MAusIMM, Board Director, the AusIMM
8.50 am - 9.20 am	Keynote Presentation I: TBC — Gavin Murray, International Finance Corporation
9.20 am - 9.50 am	Keynote Presentation II: Business Risks in Mining and Metals: Mine Closure in Context — Matthew Bell, Ernst & Young
9.50 am - 10.20 am Morning Tea Break and Exhibition, Connaught Room	
SESSION 2: Social Licence and Engagement Session Chair: Anna Littleboy FAusIMM, CSIRO	
Sponsored by 	
10.20 am - 10.35 am	The Social License to Operate and Drivers for Change – Resource Reporting and Mine Material Characterisation — G A Maddocks, G D Corder, J Heyes and R J Stewart
10.35 am - 10.50 am	Social Licence to Close? — J A Braithwaite
10.50 am - 11.05 am	A Conceptual Framework to Understand the Local Community/Social Impacts of Mining — T G Measham and D A Fleming
11.05 am - 11.20 am	Out of the Box – the Power of Social Identities in Engagement Processes — S Carr-Cornish and K Moffat
11.20 am - 11.35 am	Social Licence in Real-time – Using Dynamic Methods to Support a New Kind of Community Relationship — K Moffat, N Boughen, L Brooks and A Zhang
11.35 am - 11.50 am	Sustainable Mining – Indigenous Community Benefit — M G Annandale, G Castelain and J A Meadows
11.50 am - 12.05 pm	Discussion
12.05 pm - 12.10 pm	Women in Mining Network (WIMnet) Presentation: Gabriela Love MAusIMM, WIMnet Committee Member
12.10 pm - 1.10 pm Lunch Break and Exhibition, Connaught Room	
SESSION 3: Rehabilitation — Objectives and Outcomes I Session Chair: TBA	
Sponsored by  Queensland Government	
1.10 pm - 1.40 pm	Keynote Presentation III: WA's Abandoned Mines Program — Sarah Bellamy, Department of Mines and Petroleum
1.40 pm - 1.55 pm	Zooming Out – Learning to See Rehabilitation through Stakeholders' Eyes — J L Merritt
1.55 pm - 2.10 pm	Recognising and Integrating Stakeholder Landform Expectations into Life-of-mine Planning — A Hine and P Erskine
2.10 pm - 2.25 pm	Optimising Land for Beneficial Use During and After Mining — D Murdoch and J Purandare
2.25 pm - 2.40 pm	Reassessing Rehabilitation Objectives and Targets for Mature Mining Operations in Queensland — A R Butler and T R Anderson
2.40 pm - 2.55 pm	Preparing for Progressive Mine Rehabilitation Sign-off in Queensland — P Erskine, A Fletcher and P Swart
2.55 pm - 3.10 pm	Discussion
3.10 pm - 3.40 pm Afternoon Tea Break and Exhibition, Connaught Room	
SESSION 4: Rehabilitation — Objectives and Outcomes II Session Chair: Corinne Unger MAusIMM(CP), Sustainable Minerals Institute	
3.40 pm - 3.55 pm	Report from preconference workshop 'Close your mine while improving your bottom line' — Andrew Keith MAusIMM, Aurecon
3.55 pm - 4.10 pm	Fire Behaviour in Buffel Grass Dominated Mine Site Rehabilitation in Central Queensland, Australia — P McKenna, V Glenn, P D Erskine, D Doley and A Sturgess
4.10 pm - 4.25 pm	Bowen Basin Coalmine Spoil Classification for Improved Mine Rehabilitation Outcomes — B Emmerton, J Burgess, T Baumgartl and P Erskine
4.25 pm - 4.40 pm	Bed Load Losses from Experimental Plots on a Rehabilitated Uranium Mine in Northern Australia — M J Saynor and W D Erskine
4.40 pm - 4.55 pm	Earthworks or Landforms? Designing for Lease Surrender — S J Henderson
4.55 pm - 5.10 pm	Discussion
5.10 pm - 7.10 pm	Welcome Reception



Day 2 – Thursday 29 September 2016

Pullman Brisbane King George Square, Kennedy and Roosevelt Room		
7.00 am	METS Ignited Engagement Session: Collaborating to Accelerate Innovation Across the METS Sector	Sponsored by 
SESSION 5: Acid and Metalliferous Drainage Session Chair: Geoffrey Oldroyd FAusIMM(CP), CRC ORE		Sponsored by 
8.45 am - 8.50 am	Day 2 Welcome and OH&S Briefing: Geoffrey Oldroyd FAusIMM(CP), CRC ORE	
8.50 am - 9.20 am	Keynote Presentation IV: Responsible Management and Transparent Reporting across the Project Life Cycle — <i>Mark Noppé FAusIMM(CP), SRK Consulting</i>	
9.20 am - 9.35 am	Geostatistics and Sample Numbers from an Acid and Metalliferous Drainage Perspective — <i>D Kentwell, A Garvie and C Linklater</i>	
9.35 am - 9.50 am	Defining Residual Risk for Successful Mine Closure – a Geochemical Perspective — <i>M Edraki, P Pham, J Park, T Baumgartl, B Noller and B Forsyth</i>	
9.50 am - 10.05 am	Water-related Data Requirements for Improved Life Cycle Assessment of Mining, Mineral Processing and Tailings Management — <i>S A Northey, N Haque and G Mudd</i>	
10.05 am - 10.20 am	Discussion	
10.20 am - 10.40 am Morning Tea Break and Exhibition, Connaught Room		
SESSION 6: Surface Water — Flows and Quality Session Chair: Ian Wilson MAusIMM, Independent		
10.40 am - 10.55 am	A Decision-making Framework for Water Supply and Flood Protection Options in Net Present Value Terms — <i>H J J Boshoff and A J Karrasch</i>	
10.55 am - 11.10 am	Improving the Reliability of Stream Diversion Designs in Mine Closure Plans Using a Morphological Tool — <i>S Szykarski, B Willis-Jones, S Tjerry and I Dubinski</i>	
11.10 am - 11.25 am	Landscape-scale Assessment of Watercourses in Remote Arid South Australia to Inform Mine Planning to Mine Closure — <i>C Ferguson, K White and M Harding</i>	
11.25 am - 11.40 am	Derivation of High Reliability Water Quality Guideline Values for Cobalt in Freshwaters – Improving Water Quality Guidelines for Better Water Quality Compliance Management in Mining — <i>A C Hogan, A R Butler, F Butler and G E Bailey</i>	
11.40 am - 11.55 am	Life-of-mine Spillway Strategy – Managing Risk Associated with Surface Water at a Tailings Storage Facility — <i>M J Ind, M Rynhoud and K Brand</i>	
11.55 am - 12.10 pm	Discussion	
12.10 pm - 1.10 pm Lunch Break and Exhibition, Connaught Room		
SESSION 7: Managing Mine Wastes Session Chair: Glen Corder FAusIMM(CP), Sustainable Minerals Institute		
1.10 pm - 1.25 pm	Long-term Monitoring and Targeted Assessments to Improve Management of Mine Wastes – the Batu Hijau Project — <i>B M Angel, S L Simpson and J Waworuntu</i>	
1.25 pm - 1.40 pm	Findings and Conclusions Following ‘Long-term’ Cover System Monitoring – Refinement of the Conceptual Design for Tailings Storage Facility Closure — <i>R Barritt, K Albano and P Scott</i>	
1.40 pm - 1.55 pm	Rainfall Patterns Rather than Climate Classification Control Cover Design for Closure — <i>T Baumgartl and B Richards</i>	
1.55 pm - 2.10 pm	Waste Rock Pile Construction to Lower Closure and Relinquishment Costs — <i>J R Taylor, S M Pape, B S Davis and J A Muchan</i>	
2.10 pm - 2.25 pm	Characterising the Spontaneous Combustion Propensity of Waste Rock — <i>B Beamish and J Theiler</i>	
2.25 pm - 2.40 pm	Discussion	
2.40 pm - 2.50 pm	Short Break	
SESSION 8: Landform Stability and Climate Session Chair: Greg Maddocks MAusIMM, RGS Environmental Pty Ltd		
2.50 pm - 3.05 pm	Use of Landform Evolution Models to Assess Uncertainty in Long-term Evolution of Post-mining Landscapes — <i>G R Hancock, T J Coulthard and J B C Lowry</i>	
3.05 pm - 3.20 pm	Life-of-mine Planning Tools for a Changing Climate – Intuitive, Interrogative, Iterative — <i>J H Hodgkinson, S Crimp, W Jin, P Kocik and M Grigorescu</i>	
3.20 pm - 3.35 pm	Application of Synthetic Rainfall Data to Long-term Modelling of a Rehabilitated Landform — <i>J B C Lowry, D Verdon-Kidd, G R Hancock, M J Saynor and T J Coulthard</i>	
3.35 pm - 3.50 pm	Accounting for Vegetation Dynamics in Landform Evolution Modelling — <i>J Boyden, J Lowry, T Coulthard, T Whiteside, G Hancock and S Grant</i>	
3.50 pm - 4.05 pm	Discussion	
4.05 pm - 4.25 pm Afternoon Tea Break and Exhibition, Connaught Room		
SESSION 9: Measuring and Modelling for Long-term Water Management Session Chair: Lucy Lytton, Geoscience Australia		Sponsored by 
4.25 pm - 4.40 pm	Backfilled Pits – Laboratory-scale Tests for Assessing Impacts on Groundwater Quality — <i>A Watson, C Linklater and J Chapman</i>	
4.40 pm - 4.55 pm	Measurements and Modelling of Evaporation from Abandoned Mine Pit Lakes — <i>D McJannet, A Hawdon, D Boadle, B Baker, T van Neil, A Littleboy, M Trefry, I Rea and R Fandrich</i>	
4.55 pm - 5.10 pm	Simulating Integrated Hydrology in Mining Catchments from Planning to Closure — <i>D N Graham and S Szykarski</i>	
5.10 pm - 5.25 pm	Discussion	
5.25 pm	METS Ignited Engagement Session	
5.30 pm - 7.30 pm	Networking Drinks	

Day 3 – Friday 30 September 2016

Pullman Brisbane King George Square, Kennedy and Roosevelt Room	
SESSION 10: Coal — Environmental Sustainability Issues Session Chair: David Mulligan FAusIMM, Conference Chair, Life-of-Mine 2016	
8.30 am - 8.35 am	Day 3 Welcome and OH&S Briefing: David Mulligan FAusIMM, Conference Chair, Life-of-Mine 2016
8.35 am - 9.05 am	Keynote Presentation V: The Life of Assets in a Growing Organisation – an Operational Perspective — <i>Dan Curry, MMG Limited</i>
9.05 am - 9.35 am	Keynote Presentation VI: Natural Capital Accounting – a Sea Floor Mining Application — <i>Renee Grogan, Independant</i>
9.35 am - 9.50 am	Thermal Coal Industry – is Longwall Mining Currently a Life-of-mine Option in Australia? — <i>T W C Stambolie</i>
9.50 am - 10.05 am	Planning Effective Management of Gas Emissions in an Underground Coalmine — <i>D J Black</i>
10.05 am - 10.20 am	Development, Simulation, Economic and Environmental Evaluation of a Coal Processing Flow Sheet — <i>J Huang, N Haque, M O'Brien, G O'Brien and J Tien</i>
10.20 am - 10.35 am	Can Australian Coal Alleviate Energy Poverty in India – a Case Study — <i>A C Keith and H von Blotnitz</i>
10.35 am - 10.45 am	Discussion
10.45 am - 11.15 am Morning Tea Break and Exhibition, Connaught Room	
SESSION 11: Closure — Risks and Lessons Session Chair: Rebecca Wright, BHP Billiton	
Sponsored by 	
11.15 am - 11.30 am	A Simulation Approach for Improving the Assessment of Closure Risks — <i>D Trembath</i>
11.30 am - 11.45 am	Closure Liabilities – Where Are We at? — <i>M Slight and H Lacy</i>
11.45 am - 12.00 pm	'MRC-wiki' – a Mine Rehabilitation and Closure Knowledge Management Tool for Central Queensland Coalmine Practitioners — <i>C J Unger, C J Bond, T Baumgartl, V C Glenn and P Sabourenkov</i>
12.00 pm - 12.15 pm	A Black Canvas – Planning a Greenfield Coalmine in New South Wales — <i>T W C Stambolie</i>
12.15 pm - 12.30 pm	Global Lessons for a Local Problem – Rehabilitation Bonds and Victoria's Latrobe Valley Coalmines — <i>M L Cramer and N P Wines</i>
12.30 pm - 12.45 pm	Dynamic Decisions under Uncertainty – a Case Study on a Gold Mine — <i>W Chen, N Langrené, T Tarnopolskaya, Z Zhu and M Cooksey</i>
12.45 pm - 1.00 pm	Discussion
1.00 pm - 2.00 pm Lunch Break and Exhibition, Connaught Room	
SESSION 12: Keynote Panel Discussion Session Chair: Saleem Ali, The University of Queensland	
2.00 pm - 3.00 pm	Mining in 2030: Feasible Pathways to Aspirational Goals Panelists: Matthew Bell — Ernst & Young Sarah Bellamy — Department of Mines and Petroleum Renee Grogan — Independant Gavin Murray — International Finance Corporation Mark Noppé FAusIMM — SRK Consulting
3.00 pm - 3.05 pm	AusIMM Community and Environment (C&E) Society Presentation:
3.05 pm - 3.25 pm Afternoon Tea Break and Exhibition, Connaught Room	
SESSION 13: New and Emerging Technologies Session Chair: Andrew Keith MAusIMM, Aurecon	
3.25 pm - 3.40 pm	Progress in Tropical Nickel Phytomining — <i>P N Nkrumah, P D Erskine, G Echevarria and A van der Ent</i>
3.40 pm - 3.55 pm	Applications of Advanced Remote Sensing Systems during a Mine Life — <i>B P Banerjee and S Raval</i>
3.55 pm - 4.10 pm	Utilising Mineralised Mining Waste – Contributions to the Circular Economy — <i>É Lèbre and G Corder</i>
4.10 pm - 4.25 pm	Emerging Technology for Economic and Ecological Sustainability in the Rehabilitation of Metal Mine Tailings — <i>L Huang</i>
4.25 pm - 4.40 pm	Predicting, Assessing and Managing Sediment Plumes Generated by Sea Floor Mining — <i>R Grogan</i>
4.40 pm - 4.55 pm	Can Mining be Part of the Circular Economy or is it Squaring the Circle? — <i>G Corder and A Golev</i>
4.55 pm - 5.10 pm	Discussion
5.10 pm - 5.20 pm	Conference Close: David Mulligan FAusIMM, Conference Chair, Life-of-Mine 2016