

Stream 1: Riverside Theatre, Level 2			
Session 1: Opening and Keynotes I Session Chair: Ralph Holmes, Stream Leader, Carbon Steel, CSIRO Minerals Down Under National Research Flagship & Conference Chair			
8.30 am – 8.40 am	CSIRO Welcome & OH&S Briefing: Ralph Holmes, Stream Leader, Carbon Steel, CSIRO Minerals Down Under National Research Flagship & Conference Chair		
8.40 am – 8.50 am	AusIMM Welcome: Geoff Sharrock, President, The AusIMM		
8.50 am – 9.05 am	Official Opening: Honourable Bill Marmion, Minister for Mines and Petroleum; Housing, Western Australian Government		
9.05 am – 9.35 am	Keynote Presentation I: Building our Pilbara Business – An Update on Australia's Largest Integrated Mining Project — Michael Gollscheski, Managing Director, Pilbara Mines, Rio Tinto		
9.35 am – 10.05 am	Keynote Presentation II: Research and Innovation for the Iron Ore to Carbon Steel Value Chain — Jonathan Law MAusIMM, Director, CSIRO Minerals Down Under National Research Flagship		
10.05 am – 10.35 am	Keynote Presentation III: Gindalbie Metals Ltd, Karara, WA's First Magnetite Mine — Tim Netscher, Managing Director, Gindalbie Metals Ltd		
10.35 am – 11.05 am	Morning Tea Break & Exhibition, Pavilion 1		
Stream 1: Riverside Theatre, Level 2		Stream 2: Meeting Rooms 1 & 2	
Session 2A: Exploration and Geology I Session Chair: Paul Hogan, Exploration Manager, BC Iron Limited		Session 2B: Ore Characterisation I Session Chair: Elardus Mare, Manager, Metallurgy, Resource Strategy, Fortescue Metals Group	
11.05 am – 11.25 am	Airborne Gravity Gradiometry for Rapid Screening of Iron Ore Exploration Targets — A N Christensen, G Hodges and C Smith	Improved Characterisation of Magnetite Iron Ores — S Hapugoda, J R Manuel, L Lu, M Peterson and E Donskoi	
11.25 am – 11.45 am	Alluvial Iron Deposits Exploration using Surface Processes Modelling – A Case Study in the Hamersley Province (Western Australia) — G Duclaux, T Salles and E R Ramanaidou	Infrared Spectroscopic Drill Core Logging – Making Inroads to Deposit Scale 3D Mineralogy — M Haest, I Vitins and A Hackett	
11.45 am – 12.05 pm	Discovery, Geology and Structural Setting of the Nyidinghu Iron Ore Deposit — C Fowers, D Kepert, M Absalom and N Nitschke	Industrial Strength Optical Image Analysis System-Mineral4/Recognition4 — E Donskoi, A Poliakov, J R Manuel, M Peterson and S Hapugoda	
12.05 pm – 12.25 pm	Stratigraphy of the Marra Mamba Iron Formation within the Chichester Range and its Implications for Iron Ore Genesis at Roy Hill – Evidence from Deep Diamond Drill Holes within the East Fortescue Valley — J Hurst, B Krapež and P Hawke	Application of High-Resolution X-Ray Computed Tomography to Iron Ore Characterisation — L C P J Fonteneau, B Godel and E R Ramanaidou	
12.25 pm – 12.45 pm	Exploration History of the Mbalam Iron Ore Project — R S Longley, P Kitto and S E Thornett	Mineralogy of New Australian X-Ray Fluorescence Standards — K Knorr and S Birch	
12.45 pm – 1.45 pm	Lunch Break & Exhibition, Pavilion 1		
Session 3A: Exploration and Geology II Session Chair: Rohan Erwin, General Manager, Mining, Brierty		Session 3B: Processing I Session Chair: Jim Cribbes, Business Development Manager – Mining & Industry, GHD	
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1.45 pm – 2.05 pm	The Hunt for Bedded Iron Deposits – An Investigation into Flinders Mines' Blacksmith Tenement — L N Tylkowski, N J Corlis, G D McDonald, A E Petts, M F Jennings and B J Thomas	Beneficiation of Fine Iron Ores using the Desand Process — J Clout	
2.05 pm – 2.25 pm	Implicit Geological Modelling of Iron Ore Deposits — C Boyle and A-A Latscha	Sishen Jig Plant Operation and Performance — H A Myburgh	
2.25 pm – 2.45 pm	Non-Destructive Analysis of Diamond Core for Light Elements Using Niton Field Portable X-Ray Fluorescence — A Somarin, P Martin and S Bailey	Understanding the Ore Characteristics and Equipment Selection — R L Koenig and K T Broekman	
2.45 pm – 3.05 pm	Fault and Shear Characterisation in Archean Brockman Iron Formation Bedrock – A Comparison Between Core and Television Data Collection Techniques — H Baxter and M Eggers	Enhancing Magnetite Returns – The Benefits of IsaMilling — M Larson, T Do and J Siliezar	
3.05 pm – 3.35 pm	Afternoon Tea Break & Exhibition, Pavilion 1		
Session 4A: Geostatistics and Ore Reserve Estimation Session Chair: Phil Savory, Superintendent, Resource Geology, Rio Tinto		Session 4B: Processing II Session Chair: John Angove, Consultant, ALS Minerals	
Sponsored by: 			
3.35 pm – 3.55 pm	Quantifying Domain Uncertainty for an Iron Ore Deposit — A Jewbali, C Boyle and J Phillips	Performance of Model Predictive Control on the Crushing Circuit at Sishen Mine — E K Leeka	
3.55 pm – 4.15 pm	Assessment of the Impact of Non-Additivity in the Estimation of Iron Ore Attributes — A J Cornah	Recent Developments in Stress Analysis and Live Reclaim Prediction within Iron Ore Stockpiles — K C Williams, A W Roberts and J D Prigge	
4.15 pm – 4.35 pm	Simulation of Correlated Assay Variables – A Case Study from the Yandi Channel Iron Deposit — C De-Vitry	Modelling of Iron Ore in Materials Handling Applications with a Focus on Wear — T J Donohue, D Ilic and T Krull	
4.35 pm – 4.55 pm	Visual Communication of Geological Confidence — A Move Toward a Less Subjective Approach — N Savage, L Nicholas, J Seery and A Wilson	Wet Grinding of Vanadium-Titanium Magnetite Concentrate in a Ball Mill — R Zhang, X Lv, C Bai, J Xu and S Zhang. Presented by Xiaobo Huang.	
4.55 pm – 5.15 pm	Risk-Based Ore Selection from Conditionally Simulated Block Models — J E Everett and F Grobler	Mobile Crushing and Screening Plant Applications for Small to Medium Sized Iron Ore Projects — D Connolly	
5.30 pm – 7.30 pm	Welcome Function, Pavilion 1		Sponsored by: 

Stream 1: Riverside Theatre, Level 2	
	<p>Session 5: Opening and Keynotes II Session Chair: Darren Matthews, General Manager, Technical Marketing, Rio Tinto Iron Ore Sponsored by: RioTinto</p>
9.00 am – 9.05 am	Day 2 Welcome: <i>Ralph Holmes, Stream Leader, Carbon Steel, CSIRO Minerals Down Under National Research Flagship & Conference Chair</i>
9.05 am – 9.35 am	Keynote Presentation IV: Recent Developments of Iron-making Technologies in NSSMC — <i>Dr. Koji Saito, General Manager, Head of Division for Nippon Steel & Sumitomo Metal Corporation</i>
9.35 am – 10.05 am	Keynote Presentation V: The Chinese Iron and Steel Industry Response to the Challenges of Iron Ore Supply — <i>Professor Yongzhi Sha, China Iron & Steel Research Institute Group</i>
10.05 am – 10.35 am	Keynote Presentation VI: Innovation in Mining – The Fortescue Story — <i>David Woodall MAusIMM, Director Operations, Fortescue Metals Group</i>
10.35 am – 10.50 am	AusIMM Chartered Professional Presentation — <i>Elizabeth Haren MAusIMM(CP), CP Board Member</i>
10.50 am – 11.20 am	Morning Tea Break & Exhibition, Pavilion 1
Stream 1: Riverside Theatre, Level 2	Stream 2: Meeting Rooms 1 & 2
<p>Session 6A: Mining and Pit Optimisation Session Chair: Damon Ford, Australian Operations Manager, Mining and Metals, SKM Sponsored by: </p>	<p>Session 6B: Processing III Session Chair: Brian McDonald, General Manager, Asia Pacific Iron Ore Sales, Cliffs Natural Resources</p>
11.20 am – 11.40 am	<p>Modelling Intact Rock Strength of Clay-Rich Rocks with Geochemistry at the Simandou Iron Ore Deposit, Guinea West Africa — <i>A Jeffcoate, M Campbell, J-C Vannay and B Perriaux</i></p> <p>Implementation of Advanced Transfer Chute Designs — <i>B A Moore, S Van Der Merwe and N Van Aarde</i></p>
11.40 am – 12.00 pm	<p>Lessons from the Delivery of the Vale S11D Truckless Mine — <i>T Atchison</i></p> <p>The Role of Metallurgical and Engineering Information Systems in the Optimisation of Iron Ore Beneficiation Processes — <i>H M Nel, T Nassiss and T Du Toit</i></p>
12.00 pm – 12.20 pm	<p>The Role of Pre-Crusher Stockpiling for Grade Control in Mining — <i>K Jupp, J E Everett and T J Howard</i></p> <p>Effect of Temperature on Removal of Phosphorus from Australian Goethitic Iron Ores — <i>M J Fisher-White, R R Lovel, G J Sparrow and B M Washington</i></p>
12.20 pm – 12.40 pm	<p>The Optimisation Tools for Open Pit Strategic Planning — <i>Y Ren</i></p> <p>Particle Dissolution in the Chemical Regeneration of the Ceramic Filter Medium used for Magnetite Dewatering — <i>R Salmimies, T Kinnarinen, B Ekberg and A Häkkinen</i></p>
12.40 pm – 1.00 pm	<p>Selection of Ore from Multiple Pits — <i>J E Everett</i></p> <p>Beneficiation Study of an Ultrafine-Grained Hematite Ore Slime — <i>D Wei, Z Guan, S Gao, W Liu, Y Shen and B Cui</i></p>
1.00 pm – 2.00 pm	Lunch Break & Exhibition, Pavilion 1
<p>Session 7A: Project Development and Expansions Session Chair: Kerry Turnock, Director, Ore Solutions Pty Ltd</p>	<p>Session 7B: Processing IV Session Chair: Kerry Lawrence, Business Development Manager, Weir Minerals Sponsored by: </p>
2.00 pm – 2.20 pm	<p>Managing Challenges Faced in the Brownfield Commissioning of an Ultra-Fine Hematite Processing Circuit at Arrium's Iron Duke Ore Beneficiation Plant — <i>E Selvapandian and R Barr</i></p> <p>Selective Separation of Hematite from Quartz by Flotation Using a Temperature Responsive Polymer — <i>E Forbes and G V Franks</i></p>
2.20 pm – 2.40 pm	<p>Can we Live up to the Capacity Expectations we're Predicting for our Iron Ore Export Corridors? — <i>R Von Varendorff and P McGavin</i></p> <p>TankCell Flotation at Samarco's Germano Concentrators — <i>T Miettinen, A Uliana, G Araújo de Souza Franco, P Sérgio de Oliveira and B Murphy. Presented by Jason Heath.</i></p>
2.40 pm – 3.00 pm	<p>Iron Road's Prediction of Magnetite Concentrate Production from the Central Eyre Iron Project — <i>N J Semler, P J Marsh and P J Bartsch</i></p> <p>Column Flotation of Iron Ore – Status and Advances — <i>H Thanasekaran, J Kohmuench and L Christodoulou</i></p>
3.00 pm – 3.20 pm	<p>Arrium's Iron Baron Hematite Beneficiation Plant – A Success from Start to Finish — <i>C Stanton, M Bannear and E Selvapandian</i></p> <p>Impurity Removal in the Reverse Flotation of Iron Ore — <i>M Ma, W J Bruckard, R Holmes and C Gontijo</i></p>
3.20 pm – 3.50 pm	Afternoon Tea Break & Exhibition, Pavilion 1
<p>Session 8A: Ore Characterisation II Session Chair: Erick Ramanaidou, Research Scientist, CSIRO Minerals Down Under National Flagship & Conference Co-Chair</p>	<p>Session 8B: Processing V Session Chair: Venky Viswanathan, Manager, Process Technologies, Outotec South East Asia Pacific Sponsored by: Outotec</p>
3.50 pm – 4.10 pm	<p>Textural Characterisation of Manganese Minerals to Improve the Geometallurgical Characterisation of Iron and Ferromanganese Ores — <i>M J Peterson, S Hapugoda, J R Manuel, E Donskoi and A Poliakov</i></p> <p>Microbes and their Metabolites – Potential Iron Ore Flotation Reagents — <i>R Dwyer, S Rea, N McSweeney, W J Bruckard and R Holmes</i></p>
4.10 pm – 4.30 pm	<p>Application of X-ray Diffraction to Iron Ores – Potential Implications for Grade Control and Downstream Processing — <i>U König</i></p> <p><i>In Situ</i> X-Ray and Neutron Diffraction Studies of SFCA Phase Formation in Iron Ore Sintering — <i>N A S Webster, M I Pownceby, I C Madsen, A J Studer, L Lu, J R Manuel and J A Kimpton</i></p>
4.30 pm – 4.50 pm	<p>Grade Control of Ores – How X-ray Fluorescence Delivers Accuracy and Precision in Daily Routine — <i>K Behrens, D Porta and A E Grigolato</i></p> <p>Upgrading Australian Iron Ore by Reduction and Efficient Magnetic Separation — <i>Y X Han, J Liu, Y J Li and S M Zhang</i></p>
4.50 pm – 5.10 pm	<p>Iron Ore Characteristics and their Application in Optimising Granulation Process — <i>X Huang, X Lv, R Zhang, C Bai and M Zhou</i></p> <p>Mine to Port Management of Variability and Uncertainty — <i>Presented by Matt Schneider, Optika</i></p>
5.10 pm – 6.10 pm	<p>Happy Hour, Pavilion 1 Sponsored by: </p>
7.00 pm for 7.30 pm	<p>Conference Dinner, BelleVue Ballroom 2 Sponsored by: </p>

Stream 1: Riverside Theatre, Level 2			
Session 9: Opening and Keynotes III Session Chair: Allan Pollard, General Manager, Fluor		Sponsored by: FLUOR	
9.00 am – 9.05 am	Day 3 Welcome: <i>Ralph Holmes, Stream Leader, Carbon Steel, CSIRO & Conference Chair</i>		
9.05 am – 9.35 am	Keynote Presentation VII: The Iron Future of Africa — <i>John Welborn, Managing Director and Chief Executive Officer, Equatorial Resources Limited</i>		
9.35 am – 10.05 am	Keynote Presentation VIII: Delivering on Projects: Value Adding Ore, As Promised — <i>Chris Minnie, Global Head of Product Development, Anglo American Kumba Iron Ore</i>		
10.05 am – 10.35 am	Keynote Presentation IX: Utopia or Xenophobia? How Do We Get Through the Slowdown of the Mining Boom? — <i>Philip Kirchlechner, Director, Iron Ore Research Pty Ltd</i>		
10.35 am – 11.05 am	Morning Tea Break & Exhibition, Pavilion 1		
Stream 1: Riverside Theatre, Level 2		Stream 2 Meeting Rooms 1 & 2	
Session 10A: Ore Characterisation III and Grade Control Session Chair: Tom Strombotne, Product Manager, Beneficiation, Thermo Scientific		Session 10B: Processing VI Session Chair: John Clout, Principal, John Clout and Associates	
Sponsored by: Thermo SCIENTIFIC			
11.05 am – 11.25 am	Bonnie Creek CID Ore Mineralogy – Insights Using the HyLogger™ Technology — <i>M Wells and P Hogan</i>	Melting Behaviour of Hematite and Goethite Fine Ores and its Potential Impact on Sinter Quality — <i>N Ware, J R Manuel, T Raynlyn and L Lu</i>	
11.25 am – 11.45 am	21st Century Bond — <i>M Sherman</i>	Effects of Ore Type and Binder Addition on the Formation of Quasi-Particles and Green Bed Permeability at Different Sinter Bed Depths — <i>T C Ooi and L Lu</i>	
11.45 am – 12.05 pm	Online Slurry Analysis for Process Control and Monitoring at Iron Ore Concentrators — <i>M J Kongas and K M Saloheimo</i>	Study of Sinter Microstructure with Various Blend Ratios of FMG Fines — <i>X Bi, Y Yan, J Zhou, W Peng, P Li, H Yang and D Weng</i>	
12.05 pm – 12.25 pm	Compositions, Log Ratios and Bias – From Grade Control to Resource Definition — <i>C I Ward and U Mueller</i>	Effect of Melt Composition on the Interactions of Sinter Melt on a Natural Iron Ore Substrate — <i>M P Ma, L Lu, S Hapugoda and J Manuel</i>	
12.25 pm – 12.45 pm	Integrating Hyperspectral Mineralogy, Mineral Chemistry, Geochemistry and Geological Data at Different Scales in Iron-ore Mineral Exploration — <i>M Leybourne</i>	Sintering and Metallurgical Performance of Blends Comprising Fortescue Metals Group Rocket Fines — <i>D Zhu, Z Guo, T C Ooi, T Chun, J Pan and J M Young</i>	
12.45 pm – 1.45 pm	Lunch Break & Exhibition, Pavilion 1		
Session 11A: Environment, Emissions and Water Conservation Session Chair: Cu Luu, Manager Technology, Iron Ore, BHP Billiton		Session 11B: Processing VII Session Chair: Keith Vining, Research Group Leader, CSIRO Process Science and Engineering	
1.45 pm – 2.05 pm	Dust Mitigation – Changing the Paradigm — <i>J Visser</i>	Thermal Degradation of Lump Ore in the Top Shaft of Blast Furnaces — <i>L Lu, M Kilburn, A Dehghan-Manshadi, M Adam, A Edenton and R Smyth</i>	
2.05 pm – 2.25 pm	Predicting Iron Ore Fines Shipment Moisture — <i>J E Everett, D Linden and P Maney</i>	Effect of CaO-Fe _x O _y -Al ₂ O ₃ -SiO ₂ Oxide System on the Reduction of Carbon Composite Pellets — <i>H Park and V Sahajwalla</i>	
2.25 pm – 2.45 pm	Effective Use of Mine Waste in the Design of Residue Storage Facility, Pilbara Region, Western Australia — <i>A Wanninayake, E Novello and I Gillani</i>	Study on Improving Roasting Behaviours and Metallurgical Properties of Brazilian Hematite Pellets by Adding Magnetite with High Sulfur Content — <i>D Zhu, W Zhou, J Pan and Z Li</i>	
2.45 pm – 3.00 pm	Official Conference Close Ralph Holmes, Stream Leader, Carbon Steel, CSIRO & Conference Chair <i>Delegates in Session 11B are asked to join the official conference close in the Riverside Theatre, Level 2.</i>		

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