

Sunday 12 July 2015	
4.00 pm – 6.00 pm	Registration Open, Level 3 Foyer

Day 1 – Monday 13 July 2015	
7.00 am – 6.15 pm	Registration Open, Level 3 Foyer
Session 1: Opening and Keynote Presentations I BELLEVEUE BALLROOM 2 Session Chair: Dr Ralph Holmes FAusIMM(CP), CSIRO Mineral Resources Flagship and Conference Chair	
8.30 am – 8.40 am	CSIRO Welcome and OH&S Briefing: <i>Dr Ralph Holmes FAusIMM (CP), CSIRO Mineral Resources Flagship and Conference Chair</i>
8.40 am – 8.50 am	AusIMM Welcome: <i>Miriam Way MAusIMM, Deputy Chief Executive, Director, Member Services, The AusIMM</i>
8.50 am – 9.05 am	Official Opening: <i>The Honourable Bill Marmion, Minister for Finance; Mines and Petroleum, Western Australian Government</i>
9.05 am – 9.35 am	Keynote Presentation I: <i>Rio Tinto Iron Ore – Being the Best — Michael Gollschewski, Managing Director, Pilbara Mines, Rio Tinto</i>
9.35 am – 10.05 am	Keynote Presentation II: <i>Perspectives on the Long-term Outlook for Iron Ore — John Barkas, Managing Director, Metalytics Pty Limited</i>
10.05 am – 10.35 am	Keynote Presentation III: <i>Geoscience – A Fundamental Driver of Productivity — Joe Knight, General Manager Exploration, BHP Billiton</i>
10.35 am – 11.05 am	Morning Tea Break and Exhibition, BelleVue Ballroom 1
STREAM A: BELLEVEUE BALLROOM 2	
Session 2A: Exploration and Geology I Mal Kneeshaw Tribute Session Chair: Dr Erick Ramanaidou, CSIRO Mineral Resources Flagship and Conference Co-Chair	
11.05 am – 11.25 am	The Cenozoic Detrital Iron Deposits of the Hamersley Province of Western Australia – A Tribute to Mal Kneeshaw — <i>R Morris</i>
11.25 am – 11.45 am	Geology – The Affirmative Case — <i>D Kepert</i>
11.45 am – 12.05 pm	Related Genesis for Iron, Gold-copper Ores in Western Australia — <i>P B Schwann</i>
12.05 pm – 12.25 pm	Geological Setting of Eilwana and Flying Fish Deposits along the North Limb of the Brockman Syncline, Hamersley Province, Western Australia — <i>D Barrett, R Perkins, D Kepert, S Robinson and C Fowers</i>
12.25 pm – 12.45 pm	Discovery of the Corunna Downs Deposits — <i>J H Mainwaring, P J Howard and P Darvall</i>
12.45 pm – 1.45 pm	Lunch Break & Exhibition, BelleVue Ballroom 1
Session 3A: Exploration and Geology II Session Chair: Phil Savory MAusIMM, Rio Tinto	
1.45 pm – 2.05 pm	Evolution of a Structural Framework for High-grade Iron Ore Deposits — <i>M Eggseder and A Cruden</i>
2.05 pm – 2.25 pm	Semi-automated Geological Interpretation Using Assay and Infrared Spectroscopic Sensing Parameters towards Improvements in Geological Modelling — <i>D Mittrup, F Flitti, G Hird, M Haest and O Dominguez</i>
2.25 pm – 2.45 pm	An Overview of the Weathering Process, Preliminary Density and Unconfined Compressive Strength Correlations for Fresh Itabrites in Vale Mines on the Western Side of the Iron Quadrangle, Brazil — <i>T A V Costa, P M Dight, K Mercer and EA G Marques</i>
2.45 pm – 3.05 pm	Reaping the First Fruits – Infrared Spectroscopy: the New Standard Tool in BHP Billiton Iron Ore Exploration — <i>M Haest, D Mittrup and O Dominguez</i>
3.05 pm – 3.35 pm	Afternoon Tea Break & Exhibition, BelleVue Ballroom 1
Session 4A: Exploration and Geology III Session Chair: Dr John Clout FAusIMM, John Clout & Associates	
3.35 pm – 3.55 pm	Waste Not, Want Not – Delving Deeper into the Simbiri Iron Ore Deposit Using HyLogging Scanning Technology — <i>M A Wells and E R Ramanaidou</i>
3.55 pm – 4.15 pm	Rapid Logging of Different Magnetic Phases in Banded Ironstones Using a Travelling Three-component Vector Magnetometer — <i>CA Foss, K Leslie and C Arnold</i>
4.15 pm – 4.35 pm	Three-dimensional Mapping of Magnetite and Hematite Concentrations from Reprocessing of Detailed Aeromagnetic Data — <i>DA Clark, C Foss, J Austin and D Hillan</i>
4.35 pm – 4.55 pm	A Downhole Magnetic Tensor Gradiometer for Developing Robust Magnetisation Models from Magnetic Anomalies — <i>K Leslie, CA Foss, D Hillan and K Blay</i>
4.55 pm – 5.15 pm	Block Model Data Reduction and Sensitivity Analysis — <i>J E Everrett</i>
5.15 pm – 6.15 pm	Welcome Function, Exhibition Area, BelleVue Ballroom 1
STREAM B: MEETING ROOMS, 1 & 2, LEVEL 2	
Session 2B: Ore Characterisation and Geometallurgy I Session Chair: Keith Vining, CSIRO, Mineral Resource Flagship	
Advances in Optical Image Analysis of Iron Ore Sinter — <i>E Donskoi, S Hapugoda, L Lu, A Poliakov, M Peterson and A Haileslassie</i>	
A Novel Approach to the Characterisation of Iron Ores and Concentrates Using Recent Advancements in Wavelength and Energy-dispersive X-ray Fluorescence Spectrometers — <i>C Tsouris, A Komelkov and M Rayner</i>	
Laser Scanning of Conveyor Ore Profiles — <i>T Fares and S Grobler</i>	
Real-time Through-belt Moisture Analysis for Iron Ore — <i>L Balzan and A Harris</i>	
Using Geometallurgy during Process Optimisation Activities at the Southern Middleback Ranges Magnetite Concentrator — <i>J Gerber, C Stanton and D Olwagen</i>	
Session 3B: Ore Characterisation and Geometallurgy II Session Chair: Kerry Turnock MAusIMM, Fortescue Metals Group	
A New Toolkit for Iron Ore Characterisation — <i>E R Ramanaidou and M A Wells</i>	
Geometallurgy of the South Middleback Ranges Magnetite Deposit – Predicting Plant Performance from the Pit — <i>J Gerber, D Gerrard and J Begehole</i>	
Unravelling the Factors Impacting on Concentrate Quality by Geometallurgical Data Analysis at Fortescue Metals Group's Iron Bridge Magnetite Mine — <i>A Manfrino</i>	
Iron Ore Geometallurgy – Examining the Influence of Ore Composition on Sinter Phase Mineralogy and Sinter Strength — <i>M I Pownceby, N A S Webster, J R Manuel and N Ware</i>	
Session 4B: Beneficiation I	
Session Chair: Daniel Fleckhammer, Weir Minerals	
Improvements in Service Life and Cost Reduction for Gyratory Primary Crushers through Mantle and Concaves Optimisation – A Case Study — <i>I Elias, S Chaffer and E Moya</i>	
Effect of Mineral Density for Milling Magnetite Ores — <i>A Jankovic, P Baguley, W Valery and P Holtham</i>	
Application of Different Drive Systems for Horizontal Mills — <i>B Wacker, W Kitz, C Murphy, M Neurohr and D Mensing</i>	
Iron Ore Final Grinding by High Pressure Grinding Rolls and Air Classification — <i>F P van der Meer, E Lessing and E Matthies</i>	
Optimisation of Wash Water on an Iron Ore Spiral to Improve Grade — <i>C M Ramotsabi, W Erasmus and F Borman</i>	



Day 2 – Tuesday 14 July 2015		
7.30 am – 7.30 pm	Registration Open, Level 3 Foyer	
	Session 5: Opening and Keynote Presentations II BELLEVEUE BALLROOM 2 Session Chair: Miriam Way MAusIMM, The AusIMM	Sponsored by:  
8.30 am – 8.40 am	Day 2 Welcome: Dr Erick Ramanaidou, CSIRO Mineral Resources Flagship and Conference Co-Chair	
8.40 am – 9.10 am	Keynote Presentation IV: Recent Progress in Japanese Ironmaking Technologies — Dr Koji Saito, Fellow, Nippon Steel and Sumitomo Metals Corporation, Japan	
9.10 am – 9.40 am	Keynote Presentation V: ARC Research Hub for Advanced Technologies for Australian Iron Ore - An Introduction — Prof Kevin Galvin, Director, ARC Research Hub for Advanced Technologies for Australian Iron Ores, University of Newcastle	
9.40 am – 10.10 am	Keynote Presentation VI: Iron Ore, Innovation and a (not so) Quiet Revolution — Dr Anna Littleboy FAusIMM, Program Director, CSIRO Mineral Resources Flagship	
10.10 am – 10.40 am	Morning Tea Break and Exhibition, BelleVue Ballroom 1	
	STREAM A: BELLEVUE BALLROOM 2	STREAM B: MEETING ROOMS, 1 & 2, LEVEL 2
	Session 6A: Mining I Session Chair: Phil Savory MAusIMM, Rio Tinto	Session 6B: Beneficiation II Session Chair: Taavi Orupold, FLSmith Pty Ltd Sponsored by: 
10.40 am – 11.00 am	Characterising the Blasting Properties of Iron Ore — A Scott and I Onederra	Gravity Separation of Ultrafine Iron Ore in the Reflux Classifier — D M Hunter, J Zhou, S M Iveson and K P Galvin
11.00 am – 11.20 am	The Effect of Carbonate Alteration on Detrital Mass Strength and Implications for Geotechnical Slope Design — H Baxter, M Eggers, A Muhairini and J Smith	Test Work and Design of a Gravity Circuit for Iron Road's Central Eyre Iron Project — A G Hunt, G J Showers and P Botman
11.20 am – 11.40 am	Flexigel – A Variable-density Solution — D R Andrew, K T Morrison and J F Tiedgen	Process Amenability Studies on Goethite-abundant Iron Ore Fines — V Nunna, S Hapugoda and T Raylnya
11.40 am – 12.00 pm	Case Study Assessing Alternative Data Collection Techniques and Analysis Methods to Assist with Geotechnical Slope Design — H Baxter, C Bellia, A Maldonado and S Strong	Recovery of Iron Ore Fines and Ultrafines from Tailings by Using Wet High-intensity Magnetic Separation – JONES WHIMS — M Steinberg, T Graham and M Gerards
12.00 pm – 12.20 pm	How Much Do We Need to Drill? — C Taylor and E Retz	Unlocking Plant Capability through Targeted Debottlenecking of Arrim's Magnetite Concentrator — C Stanton, M Mativenga, J Gerber and C Jenkins
12.20 pm – 1.20 pm	Lunch Break & Exhibition, BelleVue Ballroom 1	
	Session 7A: Mining II Session Chair: Clayton Simpson MAusIMM, Fortescue Metals Group	Session 7B: Beneficiation III Session Chair: Prof Kevin Galvin, University of Newcastle Sponsored by: 
1.20 pm – 1.40 pm	Maximising Productivity through Big Data, Simulation and Predictive Analytics — M S Schneider and M T Grigoleit	What is the Future for Magnetite Projects in Australia and Why Have Some of the New Projects Been so Problematic? — D Connelly
1.40 pm – 2.00 pm	Optimising Flow in the Mining Value Chain — A Dunne, P G Laurens, R Kruger and H Coleman	Iron Ore Tailings Reprocessing To Maximise Ore Production — R Jain and I Sherrell
2.00 pm – 2.20 pm	New Discrete Element Modelling Calibration Technology to Facilitate the Increased Efficiency of Ore Handling and Processing Operations — A Grima, D Curry and P Wypych	Geoscan Online Analyser Use for Process Control at Fortescue Metals Group Sites in Western Australia — L Balzan, B J Beven and A Harris
2.20 pm – 2.40 pm	Comparison of Min/Max Autocorrelation Factors, Kriging, Co-kriging and Inverse Distance Block Totals – A Magnetite Hematite Case Study — D Kentwell	The Use of Common Business Intelligence and Analytics Tools in the Operation and Optimisation of Iron Ore Process Plants — M R Fry, T Nassiss, P Louw and T du Toit
2.40 pm – 3.10 pm	Afternoon Tea Break & Exhibition, BelleVue Ballroom 1	
	Session 8A: Mining and Materials Handling Session Chair: Paul Maney MAusIMM, BHP Billiton	Session 8B: Agglomeration I Session Chair: Rod Elvish HonFAusIMM(CP), Biernacki and Elvish Enterprises Pty Ltd
3.10 pm – 3.30 pm	Iron Ore Ultrafines Challenges and Opportunities — D Tucker and K Harney	Recent Advances in Iron Ore Sintering — L Lu and O Ishiyama
3.30 pm – 3.50 pm	Ore Selection to Maximise Value — J E Everett	Granulation Behaviour of Specularite Fines in Ferrous Sinter Mixtures — D-Q Zhu, X-B Li, J Pan and B-J Shi
3.50 pm – 4.10 pm	De-bottlenecking Iron Ore Transportation from Mine to Plant — C E Hartford, C P Holmes and T Tan	Iron Sinter Process Control Using X-ray Diffraction — U König and N Norberg
4.10 pm – 4.30 pm	Modelling Cohesion and Adhesion of Wet Sticky Iron Ores in Discrete Element Modelling for Material Handling Processes — W Chen, T Donohue, K Williams, A Katterfeld and T Roessler	Fundamental Nucleus Assimilation Behaviour of Hematite- and Goethite-containing Ores in Iron Ore Sintering — N Ware and J Manuel
4.30 pm – 5.30 pm	Networking Drinks, Exhibition Area, BelleVue Ballroom 1	
7.00 pm for 7.30 pm	Conference Dinner, BelleVue Ballroom 2	

Day 3 – Wednesday 15 July 2015		
8.00 am – 4.30 pm	Registration Open, Level 3 Foyer	
	Session 9: Opening and Keynote Presentations III BELLEVUE BALLROOM 2 Session Chair: Alan Pollard, Fluor	Sponsored by: FLUOR
9.00 am – 9.05 am	Day 3 Welcome: <i>Dr Erick Ramanaidou, CSIRO Mineral Resources Flagship and Conference Co-Chair</i>	
9.05 am – 9.35 am	Keynote Presentation VII: Christmas Creek – Inception to Perfection — <i>Tony Swierczuk MAUSIMM, General Manager, Christmas Creek Mine, Fortescue Metals Group</i>	
9.35 am – 10.05 am	Keynote Presentation VIII: The Roy Hill Iron Ore Project: Competing on Innovation, Culture and Technology — <i>Barry Fitzgerald, Chief Executive Officer, Roy Hill Holdings Pty Ltd</i>	
10.05 am – 10.35 am	Keynote Presentation IX: Recent Progress of Ironmaking in China and V-Ti-Magnetite Utilisation in the Blast Furnace Process — <i>Prof Chenguang Bai, Professor and Vice Chairman of University Council, Chongqing University, China</i>	
10.35 am – 11.05 am	Morning Tea Break and Exhibition, BelleVue Ballroom 1	
	STREAM A: BELLEVUE BALLROOM 2	STREAM B: MEETING ROOMS, 1 & 2, LEVEL 2
	Session 10A: Project Development Session Chair: Bas Mutsaers, Cyient Ltd	Session 10B: Agglomeration II Session Chair: Jim Cribbes FAUSIMM, GHD
	Sponsored by: CYIENT	
11.05 am – 11.25 am	Project Development and Regulation Red Tape – A Comparative Analysis: Does it Need to be so Complex? — <i>C Pope and M Tannock</i>	Mineralogical Quantification of Iron Ore Sinter — <i>S Hapugoda, L Lu, E Donskoi and J Manuel</i>
11.25 am – 11.45 am	Magnetite – A Higher-grade Blast Furnace Feed and its Potential Benefits for the Ironmaker — <i>A J J Mouton and K Edwards</i>	Production of High-quality Sinter by Controlling the Sintering Reaction — <i>B J Chung and Y K Ji</i>
11.45 am – 12.05 pm	Understanding the State of Innovation in the Iron Ore Industry — <i>G Stanway, P Mahoney, D Andrew, C Griebel and D Engelke</i>	Dependence of Flame Front Speed on Iron Ore Sintering Conditions — <i>J Zhao and C E Loo</i>
12.05 pm – 12.25 pm	Case Study of Iron Ore Value Chain Optimisation — <i>T Kleinschmidt, J Foo, B Reynolds and K Kennewell</i>	Effect of Concentrate and Micropellet Addition on Iron Ore Sinter Bed Permeability — <i>A M Nyembwe, R Cromarty and A M Garbers-Craig</i>
12.25 pm – 12.45 pm	Capacity Evaluation of Iron Ore Processing Facilities Utilising Dynamic Simulations — <i>W Cele, L Furstenberg, M Richter and N Steenkamp</i>	Effect of Titania on the Sintering Performance of Hematite Iron Ores — <i>A Dehghan-Manshadi, J Manuel, S Hapugoda, N Ware and E Donskoi</i>
12.45 pm – 1.45 pm	Lunch Break & Exhibition, BelleVue Ballroom 1	
	Session 11A: New Equipment and Environment Session Chair: John Visser MAUSIMM, John Consulting	Session 11B: Ferrous Burden Performance I Session Chair: Dr Liming Lu, CSIRO Mineral Resources Flagship
1.45 pm – 2.05 pm	Optimised Process Control in Iron Ore via Online Analysis of Light Elements — <i>L Koresaar, J Timperi and J Moilanen</i>	Important Acid Ferrous Burden Properties in the Cohesive Zone of a Blast Furnace — <i>C E Loo</i>
2.05 pm – 2.25 pm	Iron Ore Washing – Achieve More with Fewer Resources — <i>S Silge and M Zlatev</i>	Lump Ore Properties and Their Impact on Value-in-use in Ironmaking — <i>T Honeyands and L Jelenich</i>
2.25 pm – 2.45 pm	Research and Application of New Dust Control Technologies for the Iron Ore Industry — <i>P W Wypych, D B Hastie, S Wangchai and A P Grima</i>	Reduction Kinetics and Mechanism of Pellets Prepared from High-chromium Vanadium-titanium Magnetite Concentrate — <i>C J Cheng, X X Xue, J X Liu, Z G Liu, M S Chu, T Jiang, B Liu and P N Duan</i>
2.45 pm – 3.05 pm	Shifting Waters in the Pilbara's Iron Ore Industry — <i>I Brandes de Roos</i>	High Temperature Interactivity of Iron Ores in the Cohesive Zone of the Blast Furnace — <i>X L Liu, S L Wu, W Huang and J M Zhu</i>
3.05 pm – 3.35 pm	Afternoon Tea Break & Exhibition, BelleVue Ballroom 1	
	BELLEVUE BALLROOM 2 Session 12: Agglomeration III and Ferrous Burden Performance II Session Chair: Rick Hughes, Microanalysis Australia Pty Ltd	Sponsored by: 
3.35 pm – 3.55 pm	Maritime Bulk Cargo Transportable Moisture Limit Requirements for Iron Ore Shipments — <i>K Williams, T Honeyands, R Holmes, R Orense, A Roberts, M Pender, D McCallum and T Krull</i>	
3.55 pm – 4.15 pm	The Use and Optimisation of Ferrous Feed at the Whyalla Blast Furnace — <i>J Tsalapatis, M Middleton, R Keil, S Kerec and G Caddy</i>	
4.15 pm – 4.35 pm	Guidelines for Selecting Pellet Plant Technology — <i>M Huerta, J Bolen, M Okrutny, I Cameron and K O'Leary</i>	
4.35 pm – 4.45 pm	Iron Ore 2015 Close: <i>Dr Ralph Holmes FAUSIMM(CP), CSIRO Minerals Resources Flagship & Conference Chair</i>	