

Major Sponsors



Day 1 – Monday 24 November, Hyatt Regency Perth

Stream 1: South Ballroom	
	<p>Session 1: Increasing Value and Productivity in Unforgiving Markets Session Chairs: Jeff Whittle FAusIMM and Roussos Dimitrakopoulos FAusIMM, Orebody Modelling and Strategic Mine Planning 2014 Symposium Chair</p>
8.30 am – 8.40 am	Welcome and OH&S Briefing: Roussos Dimitrakopoulos FAusIMM, Orebody Modelling and Strategic Mine Planning 2014 Symposium Chair
8.40 am – 8.50 am	Official Opening and AusIMM Welcome: Geoff Sharrock FAusIMM(CP), President, The AusIMM
8.50 am – 9.10 am	Keynote Presentation: Ministerial Opening Address — The Honourable Bill Marmion, Minister for Mining and Petroleum
9.10 am – 9.40 am	Not for the Faint-Hearted — J Whittle
9.40 am – 10.10 am	Cost Management Optimisation — B King
10.10 am – 10.40 am	Stochastic Optimisation of Mineral Value Chains – Developments and Applications for the Global Optimisation of Mining Complexes with Uncertainty — R Goodfellow and R Dimitrakopoulos
10.40 am – 11.10 am Morning Tea Break and Exhibition, Pre Function South	
	<p>Session 2: Global Optimisation of Multiple Operations and Processes Session Chairs: Brian Baird MAusIMM, BHP Billiton and Simon Williams MAusIMM, BHP Billiton</p> <p style="text-align: right;">Sponsored by: </p>
11.10 am – 11.40 am	Optimising a Mineral Supply Chain under Uncertainty with Long-term Sales Contracts — J Zhang and R Dimitrakopoulos
11.40 am – 12.10 pm	Life of Asset Planning, Uncertainty and Value Optimisation of the Iron Ore Business – From Exploration, to Market, to Closure — J McCluskey and N Barros
12.10 pm – 12.40 pm	Strategies for Mine Planning and Design — P A Dowd, C Xu and S Coward
12.40 pm – 12.50 pm	Launch of the <i>Cut-off Grades and Optimising the Strategic Mine Plan</i> Publication — Geoff Sharrock FAusIMM(CP), President, The AusIMM AMC Consultants Presentation — Lawrie Gillett FAusIMM(CP), AMC Director and Global Practice Leader, AMC Consultants Pty Ltd
12.50 pm – 1.40 pm Lunch Break and Exhibition, Pre Function South	
Stream 1: South Ballroom	
	<p>Session 3A: Advances in Conditional Simulation for Complex Applications I Session Chairs: Lawrence Allen MAusIMM, Newmont Mining Corporation and Richard Adofo MAusIMM, Barrick Gold Corporation</p> <p style="text-align: right;">Sponsored by: </p>
1.40 pm – 2.10 pm	Joint Simulation of Correlated Variables using High-order Spatial Statistics for Orebody Modelling — I Minniakhmetov and R Dimitrakopoulos
2.10 pm – 2.40 pm	Approaches to the Simulation of Compositional Data – A Nickel-Laterite Comparative Case Study — U Mueller, R Tolosana-Delgado and K G van den Boogaart
2.40 pm – 3.10 pm	Optimal Inference of Modelling Parameters to Simulate Complex Trends across Soft Boundaries – A Case Study in Heavy Mineral Sands — T Wambeke and J Benndorf
3.10 pm – 3.40 pm Afternoon Tea Break and Exhibition, Pre Function South	
	<p>Session 4A: Advances in Conditional Simulation for Complex Applications II Session Chairs: Richard Adofo MAusIMM, Barrick Gold Corporation and Lawrence Allen MAusIMM, Newmont Mining Corporation</p>
3.40 pm – 4.10 pm	Applicability of Categorical Simulation Methods for Assessment of Mine Plan Risk — A Jewbali, R Perry, L Allen and R Inglis
4.10 pm – 4.40 pm	Multivariate Block Simulations of a Lateritic-type Nickel Deposit and Post-processing of a Representative Subset — O Bertoli, J Deraisme and P Epinoux
4.40 pm – 5.10 pm	Assessing Uncertainty with Drill Hole Spacing Studies – Applications to Mineral Resources — G Verly, T Postolski and H M Parker
5.10 pm – 5.40 pm	Aligning Resource Estimates with Mine Planning — D Kentwell
Stream 2: North Ballroom	
	<p>Session 3B: Global Optimisation Applications Session Chairs: Jim Butler MAusIMM, Minemax Pty Ltd and Erkan Topal MAusIMM(CP), Curtin University</p> <p style="text-align: right;">Sponsored by: </p>
1.40 pm – 2.10 pm	Incorporation of a Full Process Plant Model as an Active Constraint for Mine Planning and Production Scheduling — R A Bearman, P Cesare, S Munro and D Wandel
2.10 pm – 2.40 pm	Application of the Theory of Constraints to Strategic and Tactical Mine Planning — A Finch and T Elkington
2.40 pm – 3.10 pm	An Application of Simultaneous Optimisation – Improving the Payback Period of a Zinc-Copper Open Cut Project — D J Thobaven
	<p>Session 4B: Aspects of Open Pit Mine Planning Session Chairs: Erkan Topal MAusIMM(CP), Curtin University and Jim Butler MAusIMM, Minemax Pty Ltd</p>
3.40 pm – 4.10 pm	Open Pit Strategic Mine Planning with Automatic Phase Generation — G Juarez, R Dodds, A Echeverria, J I Guzman, M Recabarren, J Ronda and E Vila-Echague
4.10 pm – 4.40 pm	Applying Modern Heuristics to Maximising Net Present Value through Cut-off Grade Optimisation — C A Myburgh, K Deb and S Craig
4.40 pm – 5.10 pm	Predicting Mill Ore Feed Variability Using Integrated Geotechnical/Geometallurgical Models — J Jackson, J Gaunt and M Astorga
5.10 pm – 5.40 pm	Comparison between Gaussian Processes and Dynamic Time Warping for Classification of Marker Shales in Iron Ore Deposits — K Silversides and A Melkumyan
5.40 pm – 7.40 pm	<p>Welcome Reception and Official Launch of the <i>Cut-off Grades and Optimising the Strategic Mine Plan</i> Publication, Pre Function South</p> <p style="text-align: right;">Sponsored by: </p>

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Day 2 – Tuesday 25 November, Hyatt Regency Perth

Stream 1: South Ballroom	
Session 5: Advances in Optimisation of Open Pit and Underground Mine Planning Session Chairs: Vaughan Chamberlain FAusIMM, AngloGold Ashanti and Marcelo Godoy MAusIMM(CP), Newmont Mining Corporation	
9.00 am – 9.30 am	Open Pit Transition Depth Determination through Global Analysis of Open Pit and Underground Mine Production Scheduling — <i>K Dagdelen and I Traore</i>
9.30 am – 10.00 am	Improving the Accuracy of Uncertainty Models through High-order Conditioning — <i>M Godoy and C Meagher</i>
10.00 am – 10.30 am	Globally Optimising Open Pit and Underground Mining Operations under Geological Uncertainty — <i>L Montiel, R Dimitrakopoulos and K Kawahata</i>
10.30 am – 11.00 am	Consideration for Multiobjective Metaheuristic Optimisation of Large Iron Ore and Coal Supply Chains, from Resource to Market — <i>J Balzary and A Mohais</i>
11.00 am – 11.30 am Morning Tea Break and Exhibition, Pre Function South	
Stream 1: South Ballroom	Stream 2: North Ballroom
Session 6A: Advances in Optimisation of Underground Mine Planning Session Chair: Brian Hall MAusIMM, AMC Consultants Pty Ltd	
11.30 am – 12.00 pm	Session 6B: Advances and Applications in Mine Optimisation I Session Chair: James Balzary, Schneider Electric
12.00 pm – 12.30 pm	Session 7A: Mine Production Scheduling, Stockpiling and Blending I Session Chair: Ben Farquharson, Dassault Systèmes
12.30 pm – 1.00 pm	Session 7B: Advances and Applications in Mine Optimisation II Session Chair: Salih Ramazan MAusIMM, AngloGold Ashanti
1.00 pm – 2.00 pm Lunch Break and Exhibition, Pre Function South	
2.00 pm – 2.30 pm	Session 8A: Mine Production Scheduling, Stockpiling and Blending II Session Chair: David Whittle MAusIMM, Whittle-DG Pty Ltd
2.30 pm – 3.00 pm	Session 8B: On the Open Pit to Underground Transition Session Chair: Ryan Goodfellow, COSMO Lab, McGill University
3.00 pm – 3.30 pm	Session 8C: On the Open Pit to Underground Transition Session Chair: Ryan Goodfellow, COSMO Lab, McGill University
3.30 pm – 4.00 pm Afternoon Tea Break and Exhibition, Pre Function South	
4.00 pm – 4.30 pm	Session 8D: On the Open Pit to Underground Transition Session Chair: Ryan Goodfellow, COSMO Lab, McGill University
4.30 pm – 5.00 pm	Session 8E: On the Open Pit to Underground Transition Session Chair: Ryan Goodfellow, COSMO Lab, McGill University
5.00 pm – 5.30 pm	Session 8F: On the Open Pit to Underground Transition Session Chair: Ryan Goodfellow, COSMO Lab, McGill University
7.00 pm for 7.30 pm Conference Dinner, South Ballroom, Hyatt Regency Perth	

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Day 3 – Wednesday 26 November, Hyatt Regency Perth

Stream 1: South Ballroom	
	<p>Session 9: Strategic Innovation and Research Needs I Session Chairs: Kadri Dagelen, Colorado School of Mines and Peter Fenato, Vale</p> <p style="text-align: right;"><i>Sponsored by:</i> </p>
9.00 am – 9.30 am	Sensor-based Real-time Resource Model Reconciliation for Improved Mine Production Control – A Conceptual Framework — <i>J Benndorf, M W N Buxton and M S Shishvan</i>
9.30 am – 10.00 am	On the Joint Multipoint Simulation of Discrete and Continuous Geometallurgical Parameters — <i>K G van den Boogaart, R Tolosana-Delgado, M Lehmann and U Mueller</i>
10.00 am – 10.30 am	Solving a Large Stochastic Integer Programming Model for Production Scheduling at a Gold Mine with Multiple Processing Streams and Uncertain Geology — <i>M de Freitas Silva</i>
10.30 am – 11.00 am	Production Schedule Optimisation – Meeting Targets by Hedging against Geological Risk while Addressing Environmental and Equipment Concerns — <i>M Spleit</i>
11.00 am – 11.30 am	Morning Tea Break and Exhibition, Pre Function South
	<p>Session 10: Strategic Innovation and Research Needs II Session Chairs: John Battista MAusIMM(CP), BHP Billiton and Richard Peattie MAusIMM, AngloGold Ashanti</p> <p style="text-align: right;"><i>Sponsored by:</i> </p>
11.30 am – 12.00 pm	Parallel Implementation of a Tabu Search Procedure for Stochastic Mine Scheduling — <i>R Senécal and R Dimitrakopoulos</i>
12.00 pm – 12.30 pm	Mineral Supply Chain Optimisation under Uncertainty Using Approximate Dynamic Programming — <i>C Paduraru and R Dimitrakopoulos</i>
12.30 pm – 1.00 pm	Private Cloud Architecture for the Secure Deployment of Strategic Mine Planning Software — <i>S Thomas and P Stone. Presented by D Kostyuk</i>
1.00 pm – 2.00 pm	Lunch Break and Exhibition, Pre Function South
2.00 pm – 3.30 pm	<p>Forum on Strategic Mine Planning in a Changing World</p> <p>Forum Facilitator: Roussos Dimitrakopoulos FAusIMM, Orebody Modelling and Strategic Mine Planning Symposium Chair</p> <p>Forum Panelists:</p> <ul style="list-style-type: none"> • Richard Adofo MAusIMM(CP), Director Geology, Barrick Gold Corporation • Lawrence Allen MAusIMM, Senior Director of Resource Estimation Services, Newmont Mining Corporation • Brian Baird MAusIMM, Technical Manager Mine Planning, BHP Billiton • Vaughan Chamberlain MAusIMM, Senior Vice President, AngloGold Ashanti • Kadri Dagdelen, Professor, Colorado School of Mines • Peter Fenato, Project Development Manager, Vale • Brett King MAusIMM, Managing Director, Strategy Optimisation Systems Pty Ltd • Simon Williams MAusIMM, Senior Manager Mine Engineering, BHP Billiton
3.30 pm – 3.45 pm	Official Conference Close: <i>Roussos Dimitrakopoulos FAusIMM, Orebody Modelling and Strategic Mine Planning Symposium Chair</i>

The AusIMM

- Members receive a significant discount on the conference and its related activities. This discount is generally above the cost of an individual's annual membership subscription.
- A selection of conference proceedings, monographs and technical journals will be available to purchase at this conference.



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It is a requirement of AusIMM membership that individuals engage in an appropriate level of professional development (PD). Maintaining current knowledge and skills through PD activities is imperative to ensuring AusIMM members continue to be the leading professionals in the global minerals sector.

Attending or presenting at this conference will contribute towards members' professional development. AusIMM Chartered Professional members and RPEQs can claim 21 hours towards professional development in their logbook.



Non-members of The AusIMM will receive a great offer relating to AusIMM membership.

A letter outlining this offer will be given to you upon registration at the event. Visit the AusIMM booth for more information.