

12th AusIMM Mill Operators' Conference 2014

Gold Sponsors



Day 1 – Monday 1 September 2014

Jupiters Hotel, Townsville

	<p>Stream 1, Grand Ballroom 1 Session 1: Official Opening and Keynote Session Chair: David Hunter MAusIMM(CP), 12th AusIMM Mill Operators' Conference Chair</p>
8.30 am – 8.40 am	Welcome and OH&S Briefing: <i>David Hunter MAusIMM(CP), 12th AusIMM Mill Operators' Conference Chair</i>
8.40 am – 8.50 am	Official Opening and AusIMM Welcome: <i>Geoff Sharrock FAusIMM(CP), President, The AusIMM</i>
8.50 am – 9.30 am	Keynote Presentation I: <i>Cunning Solutions to Process Improvement — Tim Napier-Munn FAusIMM(CP), Professorial Research Fellow, Julius Kruttschnitt Mineral Research Centre, University of Queensland</i>
9.30 am – 9.55 am	<i>The Benefits of Technology Partnerships During Brownfield Upgrades — S Morgan, S Serdzeff and C Maloloy-on</i>
9.55 am – 10.20 am	<i>Recent Process Improvements at Hidden Valley Gold Mine — F Burns and G Peachey</i>
10.20 am – 10.50 am	Morning Tea Break and Exhibition, The Pavillion
	<p>Session 2: Continuous Improvement Session Chair: Dr Rob Coleman MAusIMM, Head of Mineral Processing, Sponsored by: Outotec Outotec South East Asia Pacific</p>
10.50 am – 11.15 am	<i>Integrated Optimisation of Grinding and Flotation Circuits — K Runge, E Tabosa and P Holtham</i>
11.15 am – 11.40 am	<i>Grinding Circuit Improvements at the Evolution Mining Edna May Operation — A Dance, D Atheis, S Williams and D Taplin</i>
11.40 am – 12.05 pm	<i>From Magnetite to Chalcopyrite – A Story of Versatility and Efficiency at Glencore's Ernest Henry Mining Operation — J Siliezar, T Whebell, T Perkins, H Law, P Scobie, M Larson and K Barns</i>
12.05 pm – 12.30 pm	<i>Introducing and Sustaining a Continuous Improvement Program in Mines and Smelters — M Costa and L Polizzi</i>
12.30 pm – 12.55 pm	<i>Maximising Value Through Maintaining Your Flotation Equipment — B Murphy, S O'Connell and J Heath</i>
12.55 pm – 1.55 pm	Lunch Break and Exhibition, The Pavillion
	<p>Session 3: Methodologies Session Chair: Tom Strombotne, Product Manager, Thermo Scientific <i>Sponsored by: Thermo Scientific</i></p>
1.55 pm – 2.20 pm	<i>Throughput Forecasting and Optimisation at the Phu Kham Copper-Gold Operation — D Bennett, A Tordoir, D La Rosa, P Walker, W Valery and K Duffy</i>
2.20 pm – 2.45 pm	<i>How to Prioritise Process Improvements — D Hill</i>
2.45 pm – 3.10 pm	<i>Copper-Molybdenum Concentrator Surveys Using Mineralogy and Process Benchmarking Tools to Improve Overall Plant Performance — D Meadows, G Hall, D Rose, P Thompson, W Baum, R Zahn and S Yu</i>
3.10 pm – 3.40 pm	Afternoon Tea Break and Exhibition, The Pavillion
	<p>Session 4: Specific Improvements Session Chair: Nik Zwaneveld MAusIMM, Product Specialist, Global Mining & Mineral Processing Group, NALCO <i>Sponsored by: NALCO An Eschub Company</i></p>
3.40 pm – 4.05 pm	<i>An Alternative Circuit for Chalcopyrite-Pyrite Ores with Elevated Pyrite Content in Cu-Au Ore Treatment — C Akop, S Farrokhpay and N Johnson</i>
4.05 pm – 4.30 pm	<i>MMG Century Mine, A Case Study – Maximising Project Net Present Value Through Targeted Capital Expenditure and Process Optimisation Against a Backdrop of Falling Metal Prices and Feed Grades — T Akroyd, R Wynn and C Costa</i>
4.30 pm – 4.55 pm	<i>Challenges in Developing Integrated Process Models Based on Industrial Survey Data — M Yahyaei, F Vos, M Powell, J Siliezar and T Perkins</i>
4.55 pm – 5.20 pm	<i>Interactions Between Flash Flotation and Gravity Concentration – An Industrial Case Study of a Refractory Gold Concentrator — B Newcombe and D Semini</i>
5.20 pm – 5.25 pm	<i>AusIMM Metallurgical Society Presentation — Diana Drinkwater MAusIMM, Metallurgical Society Chair</i>
5.30 pm – 7.30 pm	Welcome Function, The Pavillion

Day 2 – Tuesday 2 September 2014

Jupiters Hotel, Townsville

	Stream 1, Grand Ballroom 1 Session 5: Future Trends Session Chair: Peter Rohner, CEO, Core		Sponsored by: 
8.30 am – 9.10 am	Keynote Presentation II: Concentrators – Past, Present and Future Trends for Operators and Service Providers — <i>Tom Hunter FAusIMM(CP), Head of Solution Sales, South East Asia Pacific, Outotec</i>		
9.10 am – 9.35 am	Three Decades of Gold Production at the Newmont Tanami Operations — <i>A Giblett, A Cranley and S Thacker</i>		
9.35 am – 10.00 am	Northparkes Mines – Flotation and Planning for the Future — <i>D Clarke, G Harbort, D Morgan and C Sola</i>		
10.00 am – 10.25 am	Recovery-By-Size Kinetic Analysis to Determine Where Metallurgical Improvements Occur When Converting to High-Chrome Grinding Media — <i>C Greet, S Jacques and J Kinal</i>		
10.25 am – 10.35 am	BPEQ Presentation — <i>Clare Murray, Board of Professional Engineers of Queensland</i>		
10.35 am – 11.05 am	Morning Tea Break and Exhibition, The Pavillion		
	Stream 1, Grand Ballroom 1 Session 6A: Flotation I Session Chair: Dr Christopher Greet FAusIMM, Manager Metallurgy – Mineral Processing Research, Magotteaux Australia (Pty) Ltd	Sponsored by: 	Stream 2, Ballroom 3 Session 6B: Energy Reduction Session Chair: Stetan Sakendorf MAusIMM, Manager Sales, ThyssenKrupp Industrial Solutions Australia Pty Ltd
11.05 am – 11.30 am	Selective Flotation of Chalcopyrite and Pyrite From a Mixed Copper Mineral Concentrate Under Controlled Redox Potential Conditions — <i>I Ametov, S Harmer, S Grano and R Allford</i>		Benchmarking Comminution Energy Consumption for Improved Efficiency — <i>G Ballantyne and M Powell</i>
11.30 am – 11.55 am	The Separation of Pentlandite from Chalcopyrite, Pyrrhotite and Gangue in Nickel Projects Throughout the World — <i>V Lawson, G Hill, L Kormos and G Mars</i>		Implementation Strategies for Energy Effectiveness and Sustainability – Example of Anglo American Platinum — <i>O Bascur and A Soudek</i>
11.55 am – 12.20 pm	A Change in Graphite Depressant to Improve the Recovery of Zinc at MMG Century Mine — <i>R Wynn, R Lauten, H Liang and N Stoltis</i>		Curved Pulp Lifters – Can They Save Energy? — <i>S Ciutina and R Soriano</i>
12.20 pm – 12.45 pm	Empirical Evaluation of Factors Affecting Froth Stability in Copper Flotation — <i>M Zanin, E Chan and D Xu</i>		Coarse Liberation and Recovery of Free Gold and Gold Sulfide Carriers for Energy Reduction in Process Plants — <i>A Gray, M Davies and G Theletsane</i>
12.45 pm – 1.35 pm	Lunch Break and Exhibition, The Pavillion		
	Session 7A: Flotation II Session Chair: Ashley Stewart MAusIMM, Business Development Director Mineral Processing, Cytec Australia	Sponsored by: 	Session 7B: Grinding I Session Chair: Roger Wynn MAusIMM, Metallurgy Superintendent, MMG
1.35 pm – 2.00 pm	Characterisation of Silver Minerals in Lead-Zinc Flotation Tailings and Their Response to Cyanidation — <i>M Rohde, N Guresin and N Johnson</i>		Monitoring of M10000 IsaMill Process Performance by Passive Acoustic Emissions — <i>C Jackson, S Spencer, J Masters, V Sharp, A McEwan, S Rainey, A Catanzano, G Roberts and M Millen</i>
2.00 pm – 2.25 pm	Improved Cleaner Circuit Design for Better Performance Using the Jameson Cell — <i>L Huynh, R Araya, D Seaman, G Harbort and P D Munro</i>		The Benefits of Using SmartEar™ at Pueblo Viejo — <i>D Shuen, R Sales, M Wortley and D La Rosa</i>
2.25 pm – 2.50 pm	Development of a Laboratory Flotation Method to Test Plant Mineral Aggregation — <i>D Sato, B Lumsden, S Senanayake and D Morgan</i>		VertiMill® Performance Updates in Secondary and Regrid Duties at Cannington Mine, BHP-Billiton — <i>S Palaniandy, M Powell, M Hilden, J Allen, K Kermanshahi, B Oats and M Lollback</i>
2.50 pm – 3.15 pm	Mitigating the Effect of Surface Coatings on Gold Processing — <i>R Wei and Y Peng</i>		Implementation of Acoustic Arrays for Semi-Autogenous Grinding Mill Operation — <i>R Pax, R Wynn, S Mann and B Cornish</i>
3.15 pm – 3.45 pm	Afternoon Tea Break and Exhibition, The Pavillion		
	Session 8A: Technology Applications Session Chair: Rod Elvish HonFAusIMM(CP), Biernacki & Elvish Enterprises		Session 8B: Grinding II Session Chair: John Russell, Managing Director, Russell Mineral Equipment
3.45 pm – 4.10 pm	Innovative Use of Screw Press Filtration in Tailings Dewatering Plant Design — <i>V J Absolon and D Nieuwkerk</i>		Functional Performance of Ball Milling Circuits – A Plant Metallurgist's Tool for Process Characterisation and Optimisation — <i>K M Bartholomew, R E Mclvor and O Arafat</i>
4.10 pm – 4.35 pm	Case Study – Engineering Design for a Slurry Preparation Plant for a Paste Application in West Africa — <i>M Swanepoel, G Du Toit and P L Gillot</i>		Ball Mill Poly-met Liner Evaluation at PT Newmont Nusa Tenggara – Batu Hijau Mine — <i>A Maclean, F Wiriyata, A Jankovic, G Pasin and W Valery</i>
4.35 pm – 5.00 pm	Development and Application of a Piezoelectric Sensor for Turbulence Measurement in Industrial Flotation Cells — <i>J Meng, E Tabosa, W Xie, K Runge and P Holtham</i>		Cudia Expansion – The Impact of Installing High Pressure Grinding Rolls Prior to a Semi-Autogenous Grinding Mill — <i>D Engelhardt, G Lane and M S Powell. Presented by: T Walters & A Apfel</i>
5.00 pm – 5.25 pm	Application of High Efficient Fine Screen to Improve the Recovery of Tin Concentrate — <i>W N Qin, W Z Huang, X S Mo, B Zhang and J Wheeler</i>		Comparison of Semi-Autogenous Mills Operations in Andean Countries — <i>R Preto</i>
5.30 pm – 6.30 pm	Networking Hour, The Pavillion		Sponsored by: 
7.00 pm for 7.30 pm	Conference Dinner, Poolside Terrace		Sponsored by: 

Day 3 – Wednesday 3 September 2014

Jupiters Hotel, Townsville

	<p>Stream 1, Grand Ballroom 1 Session 9: Process Control I Session Chair: Osvaldo Bascur, Metals and Mining Industry Principal, OSIsoft, LLC</p> <p style="text-align: right;">Sponsored by: </p>
9.00 am – 9.40 am	<p>Keynote Presentation III: Manual Control, Process Automation – or Operational Performance Excellence. What is the Difference? — <i>Philip Thwaites, Manager, Process Control & EIT Program, XPS Consulting & Testwork Services, Canada</i></p>
9.40 am – 10.05 am	<p>Developing Process Control Standards for Optimal Plant Performance at PanAust Limited — <i>D Baas, D Bennett and P Walker</i></p>
10.05 am – 10.30 am	<p>Porgera Flotation Circuit Upgrade and Expert System Installation — <i>T Kewe, N Moffat and M Schaffer</i></p>
10.30 am – 11.00 am	<p>Morning Tea Break and Exhibition, The Pavillion</p>
	<p>Session 10: Process Control II Session Chair: Mark Daniell MAusIMM(CP), BHP Billiton</p>
11.00 am – 11.25 am	<p>Implementation of Advanced Flotation Control at First Quantum Minerals' Kevitsa Mine — <i>A Rantala, I Muzinda, J Timperi, C Cruickshank and O Haavisto</i></p>
11.25 am – 11.50 am	<p>Optimisation of the Peak Gold Mine's Processing Plant Through Advanced Process Control — <i>J Hartog, V Beehan, J Karageorgos and D Beeson</i></p>
11.50 am – 12.15 pm	<p>Implementation of an Advanced Milling and Flotation Control System at Mopani Mufulira Copper Mine — <i>A Naidoo, B De Gee and N Viviers</i></p>
12.15 pm – 12.40 pm	<p>Evaluation of the Blue Cube MQi Slurry Analyser for Application in an Advanced Control System for the Optimisation of a Gold Sulfide Flotation Circuit — <i>T Kewe, N Moffat, P Strobos, D van der Spuy, A Paine and K Keet</i></p>
12.40 pm – 1.40 pm	<p>Lunch Break and Exhibition, The Pavillion</p>
	<p>Session 11: Process Management Session Chair: Diana Drinkwater MAusMM, JKTech Pty Ltd</p>
1.40 pm – 2.20 pm	<p>Keynote Presentation IV: Under-Mining Productivity: When Good KPIs Go Bad — <i>Joe Pease MAusIMM, Senior Principal Consulting Engineer, Mineralurgy Pty Ltd</i></p>
2.20 pm – 2.45 pm	<p>Advances in the Simulation of Flexible Circuits — <i>B Foggiatto, M M Hilden and M S Powell</i></p>
2.45 pm – 3.10 pm	<p>Effectively Installing and Commissioning Flotation Equipment — <i>J L Heath, B Murphy and P Bourke</i></p>
3.10 pm – 3.25 pm	<p style="text-align: center;">Official Conference Close David Hunter MAusIMM(CP), 12th AusIMM Mill Operators' Conference Chair</p>