

**XXV INTERNATIONAL MINERAL PROCESSING CONGRESS - IMPC 2010
PRELIMINARY TECHNICAL PROGRAM**

Day 1 - Monday 6 September 2010

Session 1 - Official Opening & Plenary I

Briefing & OH&S - Dr Ralph Holmes, IMPC 2010 Congress Chair

Welcome from The AusIMM - Greg Chalmers, AusIMM President 2011

Welcome from International Mineral Processing Council - Dr Robin J Batterham, IMPC 2010 President

Official Opening

Indigenous Welcome to Country

IMPC 2010 Patrons

Plenary Presentation
The Impact of Government Policies on the Mining Industry - Doug Ritchie, Rio Tinto, Austral

Morning Tea Break & Exhibition
Poster Displays

Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Session 2A - Flotation I	Session 2B - Comminution I	Session 2C - Sustainability I	Session 2D - Mineral Characterisation I	Session 2E - Aqueous Processing I

<p>Keynote Presentation Concentration of Igneous Phosphate Ores via Froth Flotation - Challenges and Developments - Professor Laurindo Leal, Department Head, University of São Paulo</p>	<p>ID: 815 - Cyclone Process for Heavy Metals Decantation of Sediments - G Alfano, M Surmaco, P Valera</p>	<p>Keynote Presentation The Importance of Mineral Processing Technology for Establishing a Sustainable Society with an Environmentally-Sound Material Cycle - Professor Shuji Owada, Department of Resources and Environmental Engineering, Waseda University</p>	<p>ID: 30 - The Mineralogy and Reactivity of Pyrrhotite from Selected Nickel Ore Deposits and its Effect on Flotation Performance - M Becker, Z Ekmekci, J P R de Villiers, D J Bradshaw</p>	<p>ID: 778 - Recovery of Precious Metals from Chloride Solution by Magnetite - R D Alorno, N Hiroyoshi, M Ito, M Tsunekawa</p>
<p>ID: 112 - Temperature Sensitive Polymers as Efficient and Selective Flotation Collectors - E Burdukova, D J Bradshaw, G V Franks</p>	<p>ID: 548 - Application of the Anaconda Simplified Work Index for Multiple Test Sizes - V K Alves, C L Schneider</p>	<p>ID: 573 - Efficiency, Economics, Energy and Emissions - Emerging Criteria for Comminution Circuit Decision Making - M J Daniel, G Lane, E McLean</p>	<p>ID: 155 - The Effect of Bulk Iron Concentration on the Copper Activation of Sphalerite at pH 9 - S Harmer, A Mierczynsk-Vasilev, W Nesbitt, D Beattie, A Pratt</p>	<p>ID: 67 - Development of Boleo Process Flow Sheet and the Direct Solvent Extraction (DSX) Circuit for Cobalt and Zinc Recovery - D Dresinger, C Y Cheng, W Zhang, Y Pranolo</p>
<p>ID: 820 - Effects of Hydrated Mg²⁺ on KCl Flotation - F Q Cheng, H M Zhang, Y Jiao, C X Li, C Q Zhu</p>	<p>ID: 25 - Separation of Minerals Using Electrical Fields - G R Ballantyne, P N Holtham</p>	<p>ID: 652 - Energy Dissipation in Long-Distance Slurry Pipelines - R Derammelaere, J Martinson</p>	<p>ID: 195 - The Effect of Mineral Liberation on the Floatabilities of Pyrite, Arsenopyrite and Arsenian Pyrite for Carlin Trend Ores - R Kappes, D R Brosnahan, J C Gathje</p>	<p>ID: 859 - High Pressure Sulfuric Acid/Oxygen Leaching of Platinum Group Metals Bearing Ni-Cu Mattes - G Dorfling, G Aldogon, S M Bradshaw, J J Eksteen</p>
<p>ID: 74 - The Effect of Ionic Strength of Plant Water on Valuable Mineral and Gangue Recovery in a Platinum Bearing Ore from the Merensky Reef - K C Corin, A Reddy, L Muyen, J G Wiese, P J Harris</p>	<p>ID: 719 - Energy Savings and Technology Comparison Using Small Grinding Media - M Brissette</p>	<p>ID: 161 - Claiming the Green Revolution - Protecting Investment in Green Mineral Processing - M Hedges, M Lloyd</p>	<p>ID: 284 - Using Positron Emission Particle Tracking (PEPT) to Investigate Industrial Systems - I Govender, A J Morrison, A N Mainza, A van de Westhuizen, J-P Franzidis, M S Powell</p>	<p>ID: 470 - Effect of Anionic Surfactant on Silica Particle Attachment at the Oil-Water Interface - C Vashisth, C P Whitby, D Fornasiero, J Ralston</p>
<p>ID: 836 - Recovery Efficiency Study on Ilesha Placer Gold Ore by Flotation Using Locally Sourced Frothers and Collectors - J A Ajayi, S A Awe</p>	<p>ID: 12 - Geological Parameters Controlling the Improvement of Manufactured Sand Using Vertical Shaft Impact Crushers Instead of Cone Crushers - U Akesson, B O Tjell</p>	<p>ID: 302 - Improving the Sustainability of Primary Metal Production - The Need for a Life Cycle Approach - T Norgate, S Jahanshahi</p>	<p>ID: 30 - The Use of Automated Mineralogy to Interpret the Batch Flotation Performance of Merensky Reef Ore - M Becker, P J Harris, J G Wiese, K C Corin, D J Bradshaw</p>	<p>ID: 20 - Treatment of Gold-Bearing Oxide High-Clayish Ores - A Y Koblov, A F Raschenko, S G Gudkov</p>
<p>ID: 803 - An Integrated Study of Bubble-Particle Attachment Mechanisms - B Albijanic, M A Hampton, P T Nguyen, O Ozdemir, D J Bradshaw, A V Nguyen</p>	<p>ID: 804 - Investigation of Multicomponent Semi-Autogenous Grinding - M P Bueno, F Shi, T Kojovic, M S Powell</p>	<p>ID: 163 - Geometallurgical Study of Copper Oxide Mineralisation Hosted in Gravels of Different Physical Quality - O Jerez, M Pincheira, S Helle, U Kelm, M Avendaño</p>	<p>ID: 148 - Application of Agitated Leaching for Iron Removal from Silica Using Sulfuric and Hydrochloric Acid - H Haghi, A Ghadyani, M Faramarzi</p>	<p>ID: 86 - The Operation of the LAROX PF-50 Pressure Filter at 'Elatzite-Med' Flotation Plant, Bulgaria - K Dedelyanova, V Mehandzhiski, I Kunchev, T Voutov</p>
<p>ID: 27 - Optimisation of the Performance of Flotation Circuits Using a Genetic Algorithm Oriented by Process-Based Rules - P Ghorabi, M Yahyaee, S Banisi</p>	<p>ID: 89 - Removal of Arsenic in Fluorite Ore by Simultaneous Grinding-Leaching with NaHS - K Dodbiba, H S Park, K Higashino, S Matsuo, K Okaya, J Sadaki, T Fujita</p>	<p>ID: 214 - How Particles Stick to Bubbles - The Influence of pH and Hydrophobicity in Flotation - M Krasowska, D Fornasiero, J Ralston</p>	<p>ID: 354 - Kinetic Study on the Leaching of Vanadium from LD Converter Slag Using Sulfuric Acid - M Aarabi, F Rashchi, E Vahidi, N Mostoufi</p>	<p>ID: 123 - Grinding and Beneficiation Characteristics of a Low-Grade Haematite Ore - D Wei, S Gao, W Liu, Z Guan, B Cui, C Han, P Fang</p>
<p>ID: 50 - The Cyclonic Separation Effect of Metallic Ores in Cyclonic-Static Micro-bubble Flotation Column - Y-J Cao, Z-L Ma, X-B Li, J-T Liu, Y-T Wang, H-J Zhang</p>	<p>ID: 140 - Study on Basic Theory of the Grain Settlement in Fluidised Bed - X-H Gui, J-T Liu, Y-F Li, Y-J Cao, C Liu, G-S Li</p>			<p>ID: 355 - Efficacy of Enhanced Gravity Separator in Processing Indian Iron Ore Slime - R K Rath, S Mohanty, M K Mohanta, R Singh, K K Bhattacharyya</p>

Lunch Break & Exhibition
Poster Displays

Session 3A - Flotation II	Session 3B - Comminution II	Session 3C - Waste I	Session 3D - Mineral Characterisation II	Session 3E - Aqueous Processing II
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<p>ID: 75 - Inhibition of Bubble Coalescence by Salts and Sugars - V S J Craig, C L Henry</p>	<p>Keynote Presentation The Elephant in the Mill - Joe Pease, Chief Executive, Xstrata Technology</p>	<p>ID: 8 - Electroosmotic Dewatering and Consolidation of Mineral Waste Tailings - J Addai-Mensah</p>	<p>ID: 198 - Surface Chemistry of Iron Ore Throughout a Processing Plant - J J Carlson, S K Kawatra</p>	<p>Keynote Presentation Nanoscience in Aqueous Processing - Professor Kwadwo Osseo-Asare, Distinguished Professor of Materials Science and Engineering and of Geo-Environmental Engineering, Penn State University</p>
<p>ID: 811 - The Significance of Internal Recycle in Froth Flotation - S D D Welsby, S M S M Vianna, J-P Franzidis</p>	<p>ID: 816 - Separating Particles by Horizontal Deflection in a Paramagnetic Fluid - S Liu, Y Chen, N Miles, R Hill, L Eaves</p>	<p>ID: 78 - Adsorption Effect on Multi-Heavy Metal Ions in Wastewater by Water-Washing Waste <i>Saccharomyces cerevisiae</i> - S-J Dai, D-Z Wei, D-Q Zhou, L-M Bai</p>	<p>ID: 713 - How to Evaluate Crushed Rocks for Concrete Production - B Lagerblad, H-E Gram, M Westerholm</p>	<p>ID: 549 - Purification of Nickel and Cobalt from Heap Leaching Effluents Using Ion Exchange Resins - T Berni, F Mendes, A Pereira</p>
<p>ID: 110 - Reverse Cationic Flotation of Iron Ores - Floatability of Amphiboles at Depression of Iron Oxides by Starch - L O Filipov, I V Filipova, V V Severov</p>	<p>ID: 90 - Development of Underground Gold Processing Plants - S C Dominy, A H Gray, T J Daffern</p>	<p>ID: 84 - Validation and Application of Filtration Theory to Plate and Frame Pressure Filtration - From Laboratory to Full Scale - R G de Kretser, P J Scales, H K Saha</p>	<p>ID: 275 - A New Online Detection Method for Arsenic Minerals in Process Streams - B K Schwitzer, D W Bennett, D G Miljak</p>	<p>ID: 67 - Separation of Nickel and Cobalt from Manganese, Magnesium and Calcium by Synergistic Solvent Extraction: From Batch Tests to Pilot Plant Operation - C Y Cheng, G Boddy, W Zhang, M Godfrey, K R Barnard, D J Robinson, Y Pranolo, Z Zhu, L Zeng, W Wang, D Shiers, N L Turner, T N Hill</p>
<p>ID: 114 - Flotation of Composite Synthetic Particles - W Wang, D Fornasiero</p>	<p>ID: 105 - Laboratory Scale Magnetohydrostatic Separator for High Resolution Density Analysis of Plastic and Other Wastes - J Fattai, S Nagy, G Antal, B Cioke, P Lukacs</p>	<p>ID: 128 - Copper Extraction from Scrap Cables by Biotechnological Means - S Gaydardzhiev, D Bastin, P F Bareel</p>	<p>ID: 319 - Significance of Ion Interactions in Flotation in Saline and Brine Solutions - O Ozdemir, A V Nguyen, J D Miller, H Du, M S Celik</p>	<p>ID: 228 - Additional Attractive Force Between Alumina Particles Due to Low Solubility of Dicarboxylic Acids - E-J Teh, Y-K Leong, Y Liu, V S J Craig, R B Walsh, S C Howard, T Becker</p>

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XXV INTERNATIONAL MINERAL PROCESSING CONGRESS - IMPC 2010 PRELIMINARY TECHNICAL PROGRAM

Day 2 - Tuesday 7 September 2010

Session 5 - Plenary II
Proudly Sponsored by Vale
Session Chair: TBA

Plenary Presentation
A Continuous Quest for Sustainability - Roberto Castello Branco, Vale, Brazil

Plenary Presentation
Sensing, Data Fusion and Automation for Precision Mining - Hugh Durrant-Whyte, The University of Sydney, Australia

Plenary Presentation
Real-Time Simulation in Process Engineering - Dream or Reality? - Jinghai Li, Chinese Academy of Sciences, China

Plenary Presentation
Alain Bucaille, AREVA, France

Morning Tea Break & Exhibition
Poster Displays

Stream 1	Stream 2	Stream 3	Stream 4	Stream 5
Session 6A - Flotation IV	Session 6B - Comminution IV	Session 6C - Waste III	Session 6D - Modelling I	Session 6E - Bioprocessing I

<p>Keynote Presentation Chemical Aspects of Sustainable Mineral Processing and a Framework for Research and Technology Transfer - Dr D R Nagaraj, Senior Research Fellow, Cytec Industries Inc</p>	<p>ID: 329 - The Autogenous Fine Grinding Kelsey Axial Displacement 'KAD' Mill - J R Kelly, A Foster, C Kelsey, T Tomicki</p>	<p>Keynote Presentation Sustainable Development at Vale Australia - The Beginning of a New Future - Brian Maynard, Technical and Administrative Director, Vale Australia</p>	<p>ID: 14 - Estimating Particle Size Fraction Proportions - A Multiscale Approach Using Multiple Kernel Learning - G T Jemwa, C Aldrich</p>	<p>ID: 9 - Electrochemical Bioleaching of Sarcheshmeh Chalcopyrite Concentrate in a Stirred Tank Reactor - A Ahmadi, M Rangbar, M Schaffie, Z Manafi</p>
<p>ID: 829 - Methods for Improving the Flotation Recovery of the Coarse Fraction of a Nickel Ore - M E Holuszko, E Wightman, E V Manlapig</p>	<p>ID: 799 - Comparing Energy Efficiency of Multi-Pass High Pressure Grinding Rolls (HPGR) Circuits - M Hilden, S P Suthers</p>	<p>ID: 794 - Beneficiation of Coal Fines from Tailing Ponds of Tunzibek Washing Plant - A Erdem, Z Olgun, A Gulmez, O Altun, A Gimez, B Oteyaka, S Koca</p>	<p>ID: 28 - Real-Time Integration of Mining and Metallurgical Information for Efficient Use of Energy and Water - O A Bascur, A Soudek</p>	<p>ID: 374 - Several Approaches to Enhance the Bioleaching of Enargite - K Sasaki, K Takatsugi, T Hirajima</p>
<p>ID: 749 - Spectroelectrochemical Investigation of Hydroxamate Reagents on Copper Oxide Minerals - G A Hope, R Woods, G K Parker, A N Buckley, J McLean</p>	<p>ID: 861 - Two Variable Real-Time Algorithm for Cone Crusher Control - E Hultin, C M Evertsson</p>	<p>ID: 247 - Coagulation-Neutralisation Technology to Treat Wastewater from Lead-Zinc Concentrator - S Liu, Y Cao, F Gao</p>	<p>ID: 31 - Comparison of Discretised Population Balance (DPB) and Finite Element Method (FEM) Methodologies for Modelling Batch Gibbsite Precipitation - A V Bekker, T S Li, I Livk</p>	<p>ID: 282 - Pyrite Bioleaching and Slag Neutralisation - Two Treatments in a Single Process for Recovering Valuable Metals from Both Materials - D Morin, P Spoladore, P d'Hugues, A Teczan, O Mafa</p>
<p>ID: 173 - Plant-Based Trials of Monitoring of Coal Flotation Systems Using Electrical Impedance Spectrum Technique - S Hu, B Firth</p>	<p>ID: 311 - Fine Coal Evaluation by Gravity Methods - A E Yuce, A Güneş, G Onal, O Kangal, O Kökküç, M Özer, M Özdinçigil</p>	<p>ID: 300 - Lead Removal from Contaminated Soils with Chelating Agents - M Niinae, K Nishigaki</p>	<p>ID: 37 - Process Simulation and Plant Design of a Mineral Selective Magnetising Flash Roasting Plant Using Neutrons - A Boehm, M Boehm, A Kogelbauer</p>	
<p>ID: 359 - Electro-Flotation Research on Fine Cassiterite - W Qin, L Ren, W Sun</p>	<p>ID: 80 - Separation of Iron Particles from Banded Haematite Quartzite (BHO) Ore by Selective Magnetic Coating - B Das, B K Mishra, S Prakash, P S R Reddy, R Sakthivel, S K Das</p>	<p>ID: 313 - Copper Recovery from Printed Circuit Board by Carbonisation - H Ono, G Dodbiba, T Fujita</p>	<p>ID: 292 - Towards Improved Hydrocyclone Models - Contributions from Computational Fluid Dynamics - M Narasimha, M S Brennan, A N Mainza, P N Holtham</p>	<p>ID: 430 - On the Kinetics and Equilibrium Models for Biosorption of Ni(II) onto a Gram-Positive Bacteria Strain, <i>Rhodococcus opacus</i>, for Environmental Applications - J E B Cayllahua, M L Torem</p>
<p>ID: 268 - The Effect of Molecular Weight on the Adsorption and Efficacy of Polysaccharide Depressants - B McFadzean, P Dicks, G Groenmeyer, P Harris, C O'Connor</p>	<p>ID: 86 - The Operation of the LAROX PF-50 Pressure Filter at 'Elatzite-Med' Flotation Plant, Bulgaria - K Dedelyanova, V Mehandzhiski, I Kunchev, T Voutov</p>		<p>ID: 805 - The Influence of Particle Shape in Rock Fracture - R Chandramohan, P N Holtham, M S Powell</p>	<p>ID: 199 - Development of Cost-Efficient Environmentally Sound Technology for Enhanced Gold Recovery from Rebellious Gold-Containing Raw Materials - B K Kenzhaliyev, A N Berkinbaeva</p>
<p>ID: 236 - Recovery of Pentlandite and Chalcopyrite from Tailings by Bi-Cyclone Powerful Flotation Column - Y Song, W Li, W Qu, Y Cheng, S Liu</p>	<p>ID: 123 - Grinding and Beneficiation Characteristics of a Low-Grade Haematite Ore - D Wei, S Gao, W Liu, Z Guan, B Cui, C Han, P Fang</p>		<p>ID: 126 - Media Type Effect on Grinding Efficiency - L Guzmán, D Garcia</p>	<p>ID: 18 - Biosorption of Cr(VI), Pb(II) and Zn(II) from Aqueous Solutions by Immobilised <i>Phanerochaete chrysosporium</i> Biomass in a Fixed-Bed Column - H Amirfarshar, R Marandi</p>
			<p>ID: 261 - Dynamic Simulation of an Alumina Refinery - B Reynolds</p>	<p>ID: 438 - Bioleaching of Weathered Sapprolite: Heavy Metal Adaptation Mechanisms of <i>Aspergillus foetidus</i> - W Ge, M Saidon, M Valix</p>

Lunch Break & Exhibition
Poster Displays

Session 7A - Flotation V	Session 7B - Comminution V	Session 7C - Transformational I	Session 7D - Modelling II	Session 7E - Bioprocessing II
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<p>ID: 840 - Detachment of Particles from Bubbles in a Stirred Cell - S Goel, G J Jameson</p>	<p>Keynote Presentation Technology Based Innovation - The Next Decade - Dr Raymond (Ray) Walter Shaw, Director, Ray Shaw Consulting</p>	<p>ID: 471 - Innovative Technology for Optimised Thickening Sedimentation - C Loan, I Arbutnot</p>	<p>ID: 44 - Modelling and Simulation to Design a Flotation Circuit for Gold Concentration - S Brochot, M-V Durance, P Botané, A Calleau</p>	<p>Keynote Presentation Bio-Mineral Processing - Its Potential to Revolutionise the Industry - Dr Bart Follink, Chief of Process Science and Engineering Division, CSIRO</p>
<p>ID: 189 - Fast Adsorption Phenomena at Air/Liquid Interfaces - Z Javor, N Schreithofer, K Heiskanen</p>	<p>ID: 182 - Particle Mechanics and the Design of Cyclone Tribochargers - P M Ireland, G J Jameson</p>	<p>ID: 464 - Effective Dry Density Beneficiation of Coal - I Weitkaemper, H Wotruba</p>	<p>ID: 71 - Estimating Breakage of Fine Ore Particles by Media in a Small Ball Mill Using DEM - R D Morrison, P W Cleary</p>	<p>ID: 507 - Kinetic Dependence of Refractory Gold Sulfide Biooxidation Using Different Microorganism Association - P A Zaulochny, G V Sedelnikova, E E Savari, D H Kim, T A Pivovarova</p>
<p>ID: 191 - Carrier Micro Encapsulation (CME) for Suppressing Pyrite Floatability and Oxidation in Coal Preparation - R K T Jha, J Satur, N Hiroyoshi, M Ito, M Tsunekawa</p>	<p>ID: 193 - Circulating Air Classification of Manufactured Sand - R Johansson, C M Evertsson</p>	<p>ID: 747 - Real Time and In Situ Measurement of Elemental Composition Using Lasers - D Death, P Yaroschchik, S Spencer</p>	<p>ID: 132 - Continuous pH and Pulp Potential Measurements During Complex Sulfide Ore Flotation - F Göktepe</p>	<p>ID: 509 - Extraction and Characterisation of Extracellular Polymeric Substances from the Mineral Surface During Bioleaching of Chalcopyrite Concentrate - W-M Zeng, G Qiu, M Chen</p>
<p>ID: 195 - The Metallurgical Development of an Enargite-Bearing Deposit - R Kappes, J C Gathje</p>	<p>ID: 329 - Eco-Efficient Gravity Separation Solutions in India - C A Pena</p>	<p>ID: 363 - Pipe Flow Stability of Concentrated Coal-Water Suspensions in the Presence of an Electric Field - P K Rozakeas</p>	<p>ID: 299 - Application of Kriging in Approximations of Grained Materials Characteristics Distribution Functions - T Niedoba</p>	<p>ID: 890 - Electrochemical Behaviour of Massive Chalcopyrite Bioleached Electrodes in Presence of <i>Acidithiobacillus ferrooxidans</i> and <i>Acidithiobacillus caldus</i> - J Wang, W Qin, S Zhen, T Zhuang, Y Zhang, K Liu, F Jiao, L Ren, C Shao, P Ren, G Qiu</p>

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XXV INTERNATIONAL MINERAL PROCESSING CONGRESS - IMPC 2010 PRELIMINARY TECHNICAL PROGRAM					
Day 3 - Wednesday 8 September 2010					
Session 9 - Plenary III Proudly Sponsored by Ausenco Session Chair: TBA					
Plenary Presentation Recent Metallurgical Developments and their Impact on Minerals Project Execution - Zimi Meka, Ausenco Minerals, Australia					
Plenary Presentation Innovation, Energy Efficiency and Sustainability in Mineral Processing - John Marsden, Metallurgium, USA					
Plenary Presentation Interfacial Chemistry in Flotation of Diasporic Bauxite - Yuehua Hu, Central South University, China					
IMPC Advisory Committee Meeting					
Morning Tea Break & Exhibition Poster Displays					
Stream 1	Stream 2	Stream 3	Stream 4	Stream 5	
Session 10A - Flotation VII	Session 10B - Comminution VII	Session 10C - Sustainability II	Session 10D - Comminution	Session 10E - Water I	
11.15 - 11.40	ID: 665 - A Process for the Flotation of Chrysocolla - R Herrera-Urbina, J S Laskowski, D W Fuerstenau	ID: 223 - Experimental Study of Ore Characterisation Methods for AG/SAG Mills - S Larbi-Bram, F Shi, T Kojovic	Keynote Presentation Challenges on the Front End Activities of the Uranium Fuel Cycle - Areva's Approach - Ana-Paula Serond, Front-end R&D Manager, AREVA NC	ID: 439 - High Pressure Grinding Roll Scale-Up and Experiences - F P van der Meer	Keynote Presentation Water Recycling and Frugal Water Use - Robert Charles Dunne, Group Executive - Metallurgical Development and Technology, Newmont Mining
11.40 - 12.00	ID: 790 - Sulfidation Promotion Effect of Ammonium Sulfate on the Flotation of Copper Oxide Ores - D Liu, J Fang, S Wen, W Zhang, Y Chen, X Zhang, L Sun, X Zhou	ID: 264 - Triboelectric Charge and Separation Characteristics of Industrial Minerals - H R Manouchehri	ID: 318 - Creating Value and Improving Environmental Performance by the Recovery of Valuable Products from Tailings from the Athabasca Oil Sands in Alberta, Canada - J Oxenford, K Moran, S Nelson	ID: 807 - The Physical Basis of Non-Random Breakage in an Iron-Oxide Ore - T G Vizcarra, E M Wightman, N W Johnson, E V Manlapig	ID: 23 - Clinoptilolite as a Low-Cost Solution to Remove Heavy Metals from Water in Mining and Mineral Processing Industry - K Athanasiadis, C Herle
12.00 - 12.20	ID: 280 - Bubble Load Measurements in Flotation - A Critical Review of Current Practice - G Montes-Alenas, D Bradshaw	ID: 287 - Grinding and Flowing Investigation on Dry Stirred Ball Milling in Order to Determine the Influence of Grinding Aids - B Csöke, A Rácz, G Mucsi	ID: 26 - Identifying Opportunities to Reduce the Consumption of Energy Across Mineral Processing Plants - D Sterling	ID: 453 - Development of New Comminution Testing Methodologies for Geometallurgical Mapping of Ore Hardness and Throughput - T Kojovic, S Michaux, S Walters	ID: 51 - Frothing in Seawater Flotation Systems - S Castro, I Venegas, A Landero, J S Laskowski
12.20 - 12.40	ID: 293 - Microbially Induced Flotation of Alumina and Silica/Calcite from Haematite - N Sarvamangala, K A Natarajan	ID: 176 - Upgrading of Indonesia's Bauxite by Washing Method - H Husaini, S Cahyono	ID: 546 - An Integrated Geology-Mine-Plant and Eco-Efficiency Simulator for Anglo Platinum's Evaluation and Operational Improvement Initiatives - M Ziemiński, P Bye, N Plint, M Cole, A Tordoir	ID: 802 - Exploring the Breakage Environment in Mills with Discrete Element Methods - N S Weerasekara, M S Powell	ID: 91 - Application of Natural Zeolite for the Removal of Diethyleneimine (DETA) and DETA-Metal Complexes from Flotation Process Water - J Dong, M Xu
12.40 - 1.00	ID: 797 - Predicting Water Recovery from Flotation Cells - C D Smith, J J Clillers	ID: 329 - Smarter Gravity Separation Using the Kelsey Centrifugal Jig - T Jones, A Foster	ID: 311 - Coal Preparation Research at Turkish Coal Enterprises (TKİ) - S Anaç, M Bulut, Ö Gülsöy, L Ergün	ID: 503 - Reason Analysis of Impurity Containing and Technology Discussion of Quality Improvement for Low-Quality Iron-Concentrate - L X Yu, G Z Qiu, H D Wang, Y H Tang	ID: 116 - Mechanism Responsible for Flocculation in Poly (N-isopropylacrylamide) Temperature Responsive Dewatering - Attractive Interaction Forces Induced by Surface Hydrophobicity - G V Franks, E Burdakov, H Li, N Ishida, J-P O'Shea
1.00 - 2.00	ID: 324 - A New Cell for Electrochemically Aided Flotation - V Panayotov, M Panayotova	ID: 226 - Validation and Simulation of Optimised Compressive Crushing - E Lee, P Svedensten, C M Evertsson	ID: 376 - The Mineralogical Researches of Gold Ores and Technological Products at Operating Factory in Olympiada Mine (Russia) - V Somnen, S Savushkina, J Stragis, J Ahmetvaleeva, G Krivonozova	ID: 274 - Importance of Strain to Fragment Strength in Blasting Induced Pre-Conditioning - S Michaux, R Hocking	ID: 297 - Triboelectric Separation - Beneficiation of Coal - K Nicholson, P M Ireland, E J Wanless, G J Jameson
2.00 - 2.25	ID: 267 - Improving Pentlandite Selectivity Over Pyrrhotite Using Reagents - M J Mbonambi, M Becker, J P Franzidis, M Bryson, D Bradshaw	ID: 269 - Grinding Mill Operation and Maintenance - Central to Asset Management - J Russell	Lunch Break & Exhibition Poster Displays		
2.25 - 2.45	ID: 264 - Electrochemistry Measurement, Using Chena Analyser, to Investigate Selective Separation of Pentlandite and Pyrrhotite - H R Manouchehri, V Lawson, A Taylor	ID: 321 - The Effect of Using Different Comminution Procedures on the Flotation of Platinum Group Minerals - N A Palm, N J Shackleton, V Malysiak, C T O'Connor	ID: 20 - Pressure Oxidation of Sulfide Gold-Bearing Concentrates with Double Refractoriness - A V Bogorodsky, Y Y Emelianov, S V Balikov, N V Kopylova	ID: 525 - Study on Iron Ore Sintering with High Proportion of Specularite Concentrates - T Jiang, Y Zhang, G Li, X Fan	ID: 198 - Choosing an Effective Dust Suppressant - C Copeland, T C Eisele, S K Kawatra
2.45 - 3.05	ID: 305 - An Investigation into the Flotation Behaviour of Pyrrhotite Present in the Merensky Orebody - S A Allison, C T O'Connor	ID: 657 - Analysis of Electrostatic Separation for Rutile Cleaning Duty Using a Plate Electrode Assisted High Tension Roll Separator - R A Pax, H Hutcheson	ID: 190 - Comparison of Industrial Cyanide Destruction Processes - P L Breuer, C A Sutcliffe, R L Meakin	ID: 718 - Mineral Changes that Occur During Coal Gasification - F B Wanders, J R Bunt	ID: 440 - The Role of Mineral Processing in the Development of Cement with Low Carbon Emissions - J S J van Deventer, J L Provis, P Duxson, D Feng
3.00 - 3.20	ID: 750 - Generation and Attachment of Submicron-Sized Bubbles to Colloidal Solids - C Wu, K Nessel, Z Xu, J Masliyah	ID: 343 - Haematite Recovery from a Tailings Stream - K Quast, B Quast	ID: 43 - Roasting of a Copper Sulfite Concentrate - E A Brocchi, R F M de Souza, A L T Brandão, C A R Queiroz, J B de Campos	ID: 198 - Agglomeration for Copper Heap Leaching - K A Lewandowski, T C Eisele, S K Kawatra	ID: 779 - Water Balancing in Mineral Processing - Issues and Opportunities - L Lanchance, F Flament, S Garlepy

XXV INTERNATIONAL MINERAL PROCESSING CONGRESS - IMPC 2010 PRELIMINARY TECHNICAL PROGRAM			
Day 4 - Thursday 9 September 2010			
Session 13 - Plenary IV Proudly sponsored by Outotec Session chair: TBA			
IMPC 2010 Lifetime Achievement Award Recipient Presentation			
IMPC 2008 Lifetime Achievement Award Recipient Presentation - J S Laskowski			
Plenary Presentation More Out of Ore - Pertti Korhonen, Outotec, Finland			
Plenary Presentation Industrial Biotechnology and Ecogenomics in the Mining Industry - Prof Luuk A M van der Wielen, The Netherlands			
Plenary Presentation Low Energy Zero Gas Emission Metals Directly from Ore using Geosequestration - A Minerals Processing Vision for the Future - Prof Noel A Warner, Emeritus Professor of Minerals Engineering, UI			
Morning Tea Break & Exhibition Poster Displays			
Stream 1	Stream 2	Stream 3	Stream 4
Session 14A - Flotation X	Session 14B - Comminution X	Session 14C - Sustainability III	Session 14D - Modelling IV
8.35 - 9.00	IMPC 2010 Lifetime Achievement Award Recipient Presentation		
9.00 - 9.25	IMPC 2008 Lifetime Achievement Award Recipient Presentation - J S Laskowski		
9.25 - 9.50	Plenary Presentation More Out of Ore - Pertti Korhonen, Outotec, Finland		
9.50 - 10.15	Plenary Presentation Industrial Biotechnology and Ecogenomics in the Mining Industry - Prof Luuk A M van der Wielen, The Netherlands		
10.15 - 10.40	Plenary Presentation Low Energy Zero Gas Emission Metals Directly from Ore using Geosequestration - A Minerals Processing Vision for the Future - Prof Noel A Warner, Emeritus Professor of Minerals Engineering, UI		
10.40 - 11.10	Morning Tea Break & Exhibition Poster Displays		
11.10 - 11.35	Keynote Presentation Enhance Fine Particle Flotation by Hydrodynamic Cavitation - Professor Zhenghe Xu, Professor and Canada Research Chair in Mineral Processing, University of Alberta	ID: 753 - Rutile Beach Sand from Hard Rock - K Sandvik, P Norkyn, T Malvik	Keynote Presentation - Matching Method to Enterprise Size - Professor Deborah J Shields, Affiliated Faculty and Visiting Professor, Colorado State University and Politecnico di Torino
11.35 - 11.55	ID: 259 - Adsorption of Starch on Kaolinite Surfaces - X Ma, W Bruckard, D McCallum	ID: 381 - A Loss of Strength of Gold Sulfide Concentrate Before Grinding and Cyanidation Using Magnetic Impulse Treatment - G V Sedelnikova, E A Koshel, P P Ananov, S A Goncharov	ID: 257 - Review on Some Research Methods of Mineral Crystal Chemistry and Computer Simulation on Flotation - S Lu, Z Song, C Sun
11.55 - 12.15	ID: 442 - Possibilities for Flotation Acoustics Monitoring - A Review - C Vanegas, P Holtham	ID: 296 - Iron Ore - Mineral Processing Overview - I Sherrill, M Nevens	ID: 107 - Ecological Fuel from High-Sulfur-Content Coal - P Fecko, J Vales, B Tora, A Kasparkova, J Kusy, I Janakova
12.15 - 12.35	ID: 810 - The Rate Variable Batch Test (RVBT) - A Research Method of Characterising Ore Floatability - R L Varadi, K C Runge, J-P Franzidis	ID: 391 - Development of Process for Beneficiation of Low-Grade Iron Ore Samples from Orissa, India - R Singh, R K Rath, B Nayak, K K Bhattacharyya	ID: 264 - Recycling and Recovering Fine Particles from Auto Shredding Residue (ASR/SR) to Conserve Raw Materials and Protect Environment - H R Manouchehri
12.35 - 12.55	ID: 373 - Flotation of Maandagshock UG2 Chromite Ore of South Africa in Presence of Acids - E Yigit, D Özcimen	ID: 434 - Comparative Studies on Balls Versus Spheroidal Tetrahedrons Working Media to Ore Grinding in an Industrial Drum Mill - L Tzotzorkov, T Penchev, P Bodurov, L Kuzev	ID: 865 - Characterisation of Computer Printed Circuit Boards for Hazardous Properties and Beneficiation Studies - E Yazıcı, H Deveci, I Alp, A U Akgil, R Yazıcı
12.55 - 1.55	ID: 533 - The New Technology of Enrichment of a Fine Low-Grade Tungsten from Complex Multi-Metallic Ore - X T Zhou, X D Li, L H Deng, W S Huang, T Guan, A F Zhai	ID: 455 - Study on Mineral Processing Technology for a Refractory Iron Ore - Z H Wang, F J Yu, L B Zhao	ID: 472 - On Kinetic Coupling in Meso-Scale Phenomena in Mineral Froth Flotation - G Wierink, K Heiskanen
1.55 - 2.20	ID: 543 - The Performance of Benzyl Arsonic Acid as a Collector in the Flotation of Wolfamite and Cassiterite Slime - J G Zhu, Y M Zhu	ID: 297 - Triboelectric Separation - Beneficiation of Coal - K Nicholson, P M Ireland, E J Wanless, G J Jameson	ID: 479 - Performance of Outotec FloatForce® Flotation Mechanism - A Study in Both Computational Fluid Dynamics and Industrial Scale Measurement - J L Xia, A Rinne, H Myllykangas, S Grönstrand
2.20 - 2.40	ID: 454 - Correlation of Air Recovery with Thin Film and Froth Stability in Flotation - L Wang, X Qu, A V Nguyen	ID: 396 - Effects of High Pressure Grinding Rolls on Platinum-Bearing Ores and the Flotation Response as Compared to the Conventional Ball Mill - N Solomon, A N Mainza, M Becker, J Petersen, V Ross, J P Franzidis	ID: 323 - Investigation on Comprehensive Utilisation of Nickel Slag from JNMC - J Pan, G Zheng, D Zhu, Y Cui
2.40 - 3.00	ID: 462 - Study on the Effects and Mechanics of Na ₂ SO ₄ to Chalcopyrite and Galena - M Wei, C Sun	ID: 843 - SAG Mill Grinding Design Versus Geometallurgy - Getting it Right for Competent Ores - J Starkey, P Scinto	ID: 332 - Performance of Dry Separation Processes in Cenospheres Recovery from Coal Fly Ash - H T B M Petrus, T Hirajima, Y Oosako, M Nonaka, K Sasaki, T Ando
3.00 - 3.20	ID: 463 - Improvement of Phosphate Ore Flotation Performance Through Sized Flotation - Y Wei, S Wang, X Li, R Sandenbergh	ID: 392 - Use of Impact Crushing for the Enrichment of Low-Grade Colemanite Concentrates - A A Sirkeci, A Gül, G Bulut, M Savaş, F Burat	ID: 474 - Predicting Flotation Response from Liberation Information - E Wightman, C Evans, D Bradshaw, E V Manlapig
	ID: 485 - Bioleaching Metals from Waste Printed Circuit Boards and the Shapes of Microorganisms - Z Xu, T Yang, L Yang, Y Li	ID: 417 - The Research on Application of New Technologies in High Gradient Magnetic Separator with Horizontal Magnetic Line - Y Tang, J Zhang, J Wernham	

3.05 - 3.25	ID: 478 - Effect of Spacer Chain Length on the Flotation of Kaolinite and Quartz by Using Gemini Surfactants as Collector - L Xia, H Zhong, G Liu	ID: 411 - Distribution of Settling Velocity of Irregular Particles and its Effect on Jig Separation Efficiency - M Brozek, A Surowiak	ID: 166 - Effect of Activated Carbon on the Leaching of Cobalt-Rich Ferromanganese Crust in Sulfuric Acid - H Nakazawa, W Hareyama, T Okura	ID: 899 - Improving Pelletisation of Pyrite Cinder by High Pressure Roller Grinding - W Yu, D Q Zhu, Q H Li, J Pan	ID: 425 - Selective Removal of Arsenic from Acid Mine Drainage Containing Ferrous Ion Using Sulfide Precipitation Method - C Tokoro, K Sunada, D Dai, G Dobbiba, T Fujita, A Onishi, S Nagasawa, H Asano, K Hashimoto
	ID: 424 - Slime Flotation Using Ethoxylated Surfactants in Solutions of the Electrolytes - S Titkov, E Konoplev, N Panteleeva, T Gurkova	ID: 961 - Implementation of Fine-Screening in Preparation of KGHM PM SA Sandstone-Carbonate Copper Ore for Flotation - A Wieniewski, B Skorupska, Z Smieszek, P Brodzik, A Konieczny	ID: 401 - Characterisation of Manganese Ores - B Sørensen, S Gaal, E Ringdalen, M Tangstad, O Ostrovski	ID: 276 - Agglomeration Drum Selection and Design - G Miller	ID: 543 - Effects of DA as a Grinding Aid on Selective Grinding of Low-Grade Bauxite - Y X Han, Y M Zhu, Z H Wang, Y L Tian
	ID: 447 - On the Role of Dioxanthogen in Froth Flotation - V Vigdergauz, S Kondratiev		ID: 390 - Removal of Arsenic in Enargite from Copper Ores by Flotation and Leaching in NaHS Media - A Shibayama, W Tongamp, K Haga, Y Takasaki	ID: 405 - Possibilities and Working of the Specific Agglomeration of Fibrous Materials and Residues - S Hildebrandt, P Ay, H-J Gusovius, C Glaser, C Stollberg	
3.25 - 3.55	Afternoon Tea Break & Exhibition Poster Displays				
	Session 12A - Flotation IX	Session 12B - Comminution IX	Session 12C - Extractive Metallurgy II	Session 12D - Education	Session 12E - Water II
3.55 - 4.20	ID: 337 - Effect of pH and Chain Length on the Flotation Separation of Fluorite from its Synthetic Mixtures with Calcite and Dolomite with Imino-Bis-Methylene Phosphonic Acid - B Rai, T K Rao, J A Mielczarski, J M Cases, Pradip	Keynote Presentation Characterisation, Analysis and Simulation of Multiphase Particulate Systems Using High Resolution X-Ray Micro Tomography (HRXMT) Professor Jan D Miller, Chair and Ivor D Thomas Professor of Metallurgical Engineering, College of Mines and Earth Sciences, University of Utah	ID: 864 - The Application of Roasting Pretreatment for Antimonial Refractory Gold and Silver Ores - O Celep, I Alp, H Deveci	ID: 888 - 1880 - 1930 - The Golden Years of Mineral Processing Technology - A J Lynch, M G Nelson	ID: 154 - Removal of Dilute Toxic Anions in Wastewater Using Aluminum Hydroxides Co-Precipitation Method - D Haraguchi, Y Oda, C Tokoro, S Owada
4.20 - 4.40	ID: 343 - Adsorption Isotherm Measurement of Sodium Oleate on Haematite Using Differential Thermal Analysis - K Quast	ID: 336 - Building the Unified Comminution Model - M S Powell, N S Weerasekera	ID: 63 - A Study of Extracting Vanadium from Stone Coal Using Cyclic Oxidation - T Chen, Y Zhang, T Liu, J Huang	ID: 516 - Mineral Processing Education in China - X-X Zhang, Y-M Zhao, J-T Liu, J-X Xie, J-S Wang, H-S Li	ID: 352 - Recycling of Process Water in Sulfides Processing and Flotation Selectivity - F Ikumapayi, B Johansson, K Hanumantha Rao
4.40 - 5.00	ID: 350 - Effectiveness of Lead as an Alternative to Copper Activation in Gold Bearing Iron Sulfide Flotation - V J H Ramsell, G K N Subasinghe	ID: 356 - A Robust Chemically Enhanced Electrostatic Separation Technology - S A Ravishankar, H Kolla, R Raitani	ID: 76 - Study on Selective Reduction and Magnetic Separation of Low-Grade Nickel Laterite Ore to Produce High Nickel Concentrate - Q Li, Y Cui, D Zhu, J Zhu, J Pan, H Zhang, G Zheng	ID: 215 - Mineral Processing Engineering Education in China - Bringing up the Engineering Diathesis and Design Competence of the College Students - Y Kuang, Y Zhao, J Liu, Y He, Y Tao	ID: 448 - Water Savings and Coal Product Compromise - S Vink, C J Moran
5.00 - 5.20	ID: 857 - An Evaluation of Froth Recovery Measurement Techniques - K Runge, R Crosbie, T Rivett, J McMaster	ID: 362 - Near-Infrared Spectroscopy Sorting in the Upgrading and Processing of Skorpion Non-Sulfide Zinc Ore - M Robben, M Buxton, W Dalmijn, H Wotruba, D Baltesar	ID: 272 - Kinetic Behaviour of Solid/Solid Separation of Ultrafine Particles in Aqueous Suspension - H D Mendoza	ID: 466 - Exerting the Advantages of National Key Discipline, Outstanding the Training of Engineering Capability, Cultivating Talent to be with Innovation Ability - Y-Q He, Y-M Zhao, J-T Liu, J-X Xie, Y-J Tao, C-L Duan, B-F Wen	ID: 718 - The Rehabilitation of Acid Mine Effluents and Toxic Heavy Metal Pollution, Emanating from Gold Mines in South Africa - F B Waanders, M C Brink
5.20 - 5.40	ID: 380 - Frother-Depressant Interactions in Two and Three Phase Systems - N Schreithofer, J Wiese, B McFadzean, P Harris, K Heiskanen, C O'Connor	ID: 367 - TowerMill - Advantages in Wet Grinding Applications - J Sachweh	ID: 122 - Research on Reduction-Magnetic Separation of Bayan Obo Ore - P Gao, Y-X Han, Y-J Li, H-F Wu	ID: 145 - The Beginnings of Mineral Processing Research in Canada - A Short Account - F Habashi	ID: 475 - Remediation of Mine Seepage at Batu Hijau - F Wiriyata, K McCaffery
7.00 for 7.30 am	XXV Silver Jubilee Congress Dinner				

3.20 - 3.50	Afternoon Tea Break & Exhibition Poster Displays			
	Session 16A - Flotation XII	Session 16B - Comminution XII	Session 16C - Extractive Metallurgy III	Session 16D - Plant Design
3.50 - 4.10	ID: 217 - Development of Technology for Complex Uranium Ores Processing on the Flotation Process Basis - A Kurkov, V Shatalov	ID: 403 - Development of a New Dry Density Separator for Fine-Grained Materials - H Wotruba, L Weikampfer, M Steinberg	ID: 493 - Thermal Processing of Petroleum Fly Ash for Vanadium Recovery - Y Xiao, H Jalkanen, Y Yang, C R Mambote, R Boom	ID: 927 - Acoustic Emission Monitoring of Froth Flotation - S J Spencer, R Bruniges, V Sharp, A Catanzano, G Roberts, W Bruckard, K Davey
4.10 - 4.30	ID: 79 - A Modelling Approach Using a Back-Calculated Induction Time to Predict Recoveries in Flotation - A N Danoucaras, S M Vianna, A V Nguyen	ID: 855 - Crushing Plant Process Optimisation - P Svedensten	ID: 529 - Carbothermal Reduction of Ilmenite Concentrates and Synthetic Rutile in Different Gas Atmospheres - M A R Dewan, G Zhang, O Ostrovski	ID: 288 - Innovative and Resource-Preserving Washing Processes for Primary and Secondary Raw Materials - P Grotjohann, H Müller
4.30 - 4.50	ID: 473 - The Direct and Indirect Effects of the Reagent Suite on Froth Stability in Laboratory Scale Batch Flotation Tests - J Wiese, P Harris, D Bradshaw	ID: 130 - Implementation of an Energy Efficient Dry Grinding Technology into an Anglo American Zinc Beneficiation Process - W van Drunick, C Gerold, N Palm	ID: 542 - Upgrading and Removing Phosphorus from Low-Grade and High Phosphorus Containing Iron Ores - D Q Zhu, Y Z Xiao, T J Chun, B Z Chen, J Pan	ID: 316 - Particle Size Measurement of TiQ Nanoparticles in Non-Aqueous Solvent by Interactive Force Apparatus Under an Electric Field - A Otsuki, G Dobbiba, T Fujita
4.50 - 5.10	ID: 474 - Flotation Circuit Optimisation - Towards More Sustainable Practice - S Schwarz, E Wightman	ID: 422 - A Mechanistic Model of Batch Grinding in Ball Mills - L M Tavares, R M Carvalho	ID: 543 - Preparation of MgO Nano-Particles with Magnesite - Y M Zhu, Y X Han, X Y Wang	ID: 121 - Mining Systems and Technology - Synchronous Electric Drives for Grinding Mills - M Ploc, D Peters
5.10 - 5.30	Congress Closing Ceremony			
5.30 pm buses depart for 6.30 pm arrival	Farewell Function - Australian Outback Spectacular			

Presentation Types

PLENARY & KEYNOTE PRESENTATIONS
ORAL PRESENTATIONS
SNAPSHOT/POSTER PRESENTATIONS

