

Monday, June 7, 2010

Room	B	C	D	E	F	G1	G2
Session	04 Mineral Processing I	10 Sustainable Development I	03 Downstream Fabrication I	06 Hydrometallurgy I	02 Economics I	05 Pyrometallurgy I	07 Electrorefining I
Chair	Kelebek, Sadan	Meyer-Wulf, Claus	Kuhn, Hans-Achim	Siegmund, Andreas	Barrios, Patricio	George, David	Traulsen, Heinrich
10:30	Habashi, Fathi; Laval University, Department of Mining, Metallurgical and Materials Engineering, Canada Copper From Pyrite – A Short History	Hannemann, Dirk; Lübbe, Jan; Aurubis AG, Germany Corporate Sustainability	Chmielarz, Andrzej et al.; Institute of Non-Ferrous Metals, Poland Influence of Electrolytic Copper Impurities on the Results of Copper Rod Plasticity Examination by AR Test	Salomon de Friedberg, Henry; Parhar, Pardee; Mayhew, Keith; CESL Ltd., Canada CESL Process as Applied to Enargite-rich Copper Concentrates	Coombs, David; Brook Hunt, United Kingdom The Influence of Costs on Future Copper Prices	Kvyatkovsky, Sergey et al.; JSC "Center of Sciences of the Ears, Metallurgy and Ore Beneficiation", Kazakhstan Processing of High-Silicon Copper Sulfide Concentrates by Vanyukov Smelting	Yamaguchi, Youhei; Nagai, Kazunori; Hashikawa, T.; Sumitomo Metal Mining Co.,Ltd., Japan Recent Improvements and Expansion at the Toyo Copper Refinery
10:55	Kudelko, Jan; Pyra, Jacek; Sobociński, Jerzy; KGHM Cuprum Ltd., Poland Perspectives of Copper Mining Industry Development in Poland	Herrándiz, Francisco et al.; Visión y Valor Consulting, S.L., Spain A Sustainable Management Model Based on Business Excellence as Applied to Mining Companies	Wilbrand, Ansgar; Schneider, Stefan; Deutsche Giessdraht GmbH, Germany Practical Examples for the Reduction of Energy Consumption in a Copper Rod Mill	Collao, Nelson; Delgado, Enrique; Fleury, Francois; Cobre Las Cruces, S.A., Spain A New Technology for Processing Hydrometallurgical Copper Ore, Cobre Las Cruces Project	Gehrckens, Ulf; Aurubis AG, Germany Impact of the CO₂ Emission Trading Scheme on the Copper Industry	Byszynski, Leszek et al.; KGHM Polska Miedz S.A., Poland Present and Future Modernization of Metallurgical Production Lines of the Głogów Copper Smelter	Dzhurov, Ivaylo; Aurubis Bulgaria AD, Bulgaria The New ISA 2000 Refinery of Aurubis in Pirdop
11:20	Burchardt, Egbert et al.; Polysius AG, Germany HPGRs in Copper Ore Comminution - A Technology Broke Barriers	Willbrandt, Peter et al.; Aurubis AG, Germany Sustainability in Copper Production	Smyrak, Beata et al.; AGH University of Science and Technology, Poland Research of Oxygen Free Copper of UPCAST® Technology for Electric and Electronic Uses	Schlitt, W. Joseph; Johnston, Adam; Hydrometal, Inc., USA The Marcobre Vat Leach System: A New Look at an Old Process	Jeong, Kyung-Soo; Byun, Gun-Woong; Shin, Sung-Ho; LS-Nikko Copper Inc., Korea Profit Enhancement Through Steam Selling	Coleman, Mark; Clyde Materials Handling, United Kingdom; Salomon de Friedberg, Adam; Hyde, Alan; Xstrata Copper Canada, Canada Control of Fugitive Emissions in a Continuous Mitsubishi C-Furnace During Limestone Fluxing	Hashimoto, Moritomo; Narita, M.; Shimokawa, K.; Hibi Kyodo Smelting Co., Ltd., Tamano Smelter & Refinery, Japan Recent Improvements at Tamano Refinery
11:45	Rana, Irshad; Chandrasekaran, Kris; Fluor Enterprises, USA; Wood, Ken; Fluor Canada Ltd., Canada HPGR Versus SAG Milling Technology in Hard-Rock Mining – Review and Analysis	Palacios, Miguel; Atlantic Copper, S.A., Spain; Botin, José A.; Universidad Politécnica de Madrid, Escuela de Minas, Spain Sustainable Management: A Strategic Challenge for a Global Minerals and Metals Industry	Jacobsen, Jens; Aurubis AG, Germany Copper Rod – Commodity or Speciality?			Herrera, Enrique; Mariscal, Leopoldo; Southern Peru Copper Corp., Peru Changes in the Isasmelt™ Slag Chemistry at Southern Peru Ilo Smelter	Robinson, Tim; Freeport-McMoRan Inc., USA Electrolytic Copper Refining – 2010 World Tankhouse Operating Data

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Session	04 Mineral Processing II	10 Sustainable Development II	03 Downstream Fabrication II	06 Hydrometallurgy II	02 Economics II	05 Pyrometallurgy II	07 Electrorefining II
Chair	Deneys, Adrian	Palacios, Miguel	Ignberg, Larz	Dutrillac, John E.	Klassert, Anton	Forsén, Olof	Filzwieser, Iris
13:15	Potulska, Aleksandra; KGHM CUPRUM Ltd. Research & Development Centre, Poland Analysis of Fine Particles Behaviour in Flotation of Polish Copper Ores	Campbell, Gary A.; Walck, Christa; Hartingh, Anne; Michigan Technological University, School of Business and Economics, USA Conflict Over the Sustainability of Copper Mining: Experiences From MI & W	Eckenbach, Wolfgang; MARX GmbH & Co. KG, Germany Process Technology for Melting and Casting of Ultrapure, Oxygen-Free Copper Materials	Maccagni, Massimo; Engitec Technologies S.p.A, Italy Heap Leaching Solutions Treatment With the ECUPREX Process	Schonenberger, John; European Copper Institute, Belgium Copper's Contribution to Combating Climate Change	Adham, Kamal et al.; Hatch Ltd., Canada Design of Copper-Cobalt Sulphating Roasters for Katanga Mining Limited in D.R. Congo	Begazo, Flavio; Fernandez, Filiberto; Southern Peru Copper Corp., Peru The Effect of SPCC Smelter Modernization on Anode Quality and Electrorefining Process
13:40	Kelebek, Sadan et al.; Queen's University, Department of Mining Engineering, Canada Separation Characteristics of Chalcopyrite and Pyrite via Bench Scale Flotation Investigations	Villafañe H., Mónica E.; Murray, J.; Bechtel M&M, Chile Environmental Engineering in the Design of Mining Projects	Malec, Witold et al.; Institute of Non-Ferrous Metals, Poland Structure and Properties of Copper Ecological Alloys Designed for Elements of Fittings	Leszczynska-Seida, Katarzyna et al.; Institute of Non-Ferrous Metals, Poland Development of the Technology for Recovery of Rhenium in Polish Copper Smelters	Jones, Monique; Eurometaux, Belgium "Macro-Controlled" Development of the Non-Ferrous Metals Industry in China	Matusiewicz, Robert W. et al.; Ausmelt Ltd., Australia Large Scale Copper Smelting Using Ausmelt TSL Technology at the Tongling Jinchang Smelter	Lee, Sang-Moon et al.; LS-Nikko Copper Inc., Korea Effect of Variable Current on the Current Efficiency in Copper Electrorefining
14:05	Hartmann, Tore; Horbach, Ulrich; Kramer, Jens; GEA Westfalia Separator Process GmbH, Germany Copper Crud Treatment, Concentration-Dependent Pond Depth Adjustment for Decanter Centrifuges, Dcontrol®	Jara D., J. Joaquín; Pérez Oportus, Patricio; Chilean Copper Commission, Chile Mining Labour Productivity: The Copper Industry With Particular Reference to Chile 1992-2009	Naumann, Ulrich; KME Germany AG & Co. KG, Germany Copper Stripes and Copper Tubes as Pre-Materials in High-Efficient Solarthermic Equipment	Robles, Eduardo et al.; Hatch Ltd., and Cytec Industries Inc., South Africa Copper Oxide Agitated Leaching on the African Copperbelt and Possible Heap Leach Application	Zeković, Slavka; Institute of Architecture and Urban & Regional Planning, Serbia Risks and Uncertainty for the Development of the Bor Basin of Copper	Parra, Roberto et al.; Universidad de Concepción, Departamento de Ingeniería Metalúrgica, Chile Drop-Tube Technique for Modelling and Interpretation of Flame Phenomena in Outokumpu Flash Furnace at Chagres Smelter	Nakano, Hiroaki et al.; Kyushu University, Department of Materials Science and Engineering, Japan Synergistic Effects of Thiourea, Polymer Additives and Chloride Ions on Copper Electrorefining
14:30	Kriegelstein, Wolfgang ; Grossmann, Lilla; Siemens AG, Germany Hybrid Flotation – Newly Developed Flotation Technology for Increased Recovery – Especially in the Finest Particle Fractions	Peñarubia, Lola; Universitat de València, Departament de Biogumíca i Biología Molecular, Spain Responses to Different Copper Status in Arabidopsis	Mamala, Andrzej et al.; AGH University of Science and Technology, Poland Research of Silver Copper From Contirod and Upcast Lines for the Production of Trolley Wires			Rosales V., Marco et al.; Institute for Innovation in Mining and Metallurgy, Chile A Fluid-Dynamic Review of the Teniente Converter	Castillo A., Avelino; Codelco Chile, Chile Increase of the Refinery Production by Increasing Conventional Current Density and Effects of Antimony

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Room	B	C	D	E	F	G1	G2
Session	05 Pyrometallurgy III	10 Sustainable Development III	08 Process Control I	06 Hydrometallurgy III	02 Economics III	05 Pyrometallurgy IV	07 Electrorefining III
Chair	Arthur, Philip	Smieszek, Zbigniew	Reuter, Markus	Asselin, Edouard	Barrios, Patricio	Ayhan, Mehmet	Leuprecht, Günther
15:30	<i>Björklund, Peter; Suontaka, Ville;</i> Outotec Oyj, Finland FSF Online Process Advisor	<i>Zeng, Yun;</i> Siemens AG, Germany; <i>Woodling Richard;</i> Siemens Water Technologies, Singapore Clean Water for Environment and Production – Innovative Water Treatment Processes for Mining Industry	<i>Sohn, Hong Yong; Dyussekenov, Nurzhan;</i> University of Utah, Department of Metallurgical Engineering, USA; <i>Park, Sung Sil;</i> LS-Nikko Copper Inc., Korea Penetration Behaviour of an Annular Gas-Solid Jet Impinging on a Liquid Bath	<i>Sánchez, Mario et al.;</i> Universidad de Concepción Chile; The Behavior of Magnetite on Mo Recovery From Copper Slags via Acidic Leaching	<i>Gómez, Eugenio; González, Patricio; González, Sergio;</i> Hatch Ingenieros y Consultores Ltda., Chile Business Optimization With and Without Economic Crisis	<i>Sato, Hideya et al.;</i> PT. Smelting, Gresik Smelter and Refinery, Indonesia Gresik Operation: Past, Present and Future	<i>Rantala, Ari; Larinkari, Martti;</i> Outotec Oyj, Finland Improved Efficiency, Maintenance and Safety With Integrated Tankhouse Information Management
15:55	<i>Coursol, Pascal; Mackey, Phillip;</i> Xstrata Process Support Centre, Canada; <i>Díaz, Carlos;</i> University of Toronto, Department of Materials Science and Engineering, Canada Energy Consumption in Copper Sulphide Smelting	<i>Schwarz, Rüdiger et al.;</i> geotec Rohstoffe GmbH, Germany Strategies for Managing Environmental Problems Related to Water in Copper Mining Industry	<i>Bernhard, Dirk et al.;</i> 4Production AG, Germany Breaking Through Existing Limits – Using a Realtime Material Flow Management Solution for the Optimization of Copper Production	<i>Dutrizac, John E.; Chen, T.T.;</i> CANMET-MMSL, Canada Dissolution of Copper Selenide in Ferric Sulphate and Chalcopyrite in Cupric Chloride Media	<i>Pérez Oportus, Patricio;</i> Chilean Copper Commission, Chile Costs in Copper Mining: How Much Different Inputs Impact on Chilean Companies?	<i>Toda, Katsuya et al.;</i> Pan Pacific Copper Co., Ltd., Japan Dryer Fuel Reduction and Recent Operation of Flash Smelting Furnace at Saganoseki Smelter & Refinery after the SPI Project	<i>Korpi, Mikko; Nikus, Mats;</i> Outotec Research Oy, Finland; <i>Rantala, Jukka;</i> Boliden Harjavalta Oy, Finland Optimization of a Tankhouse Harvesting Plan
16:20	<i>Jäfs, Mikael; Fagerlund, Kim; Lindgren, M.;</i> Outotec Oyj, Finland Modern Flash Smelting Cooling Systems	<i>Brantes A., Rossana C.;</i> Chilean Copper Commission, Chile Management and Use of Water in the Chilean Copper Mining Industry: State of the Art and Forecast 2009-2020	<i>Bruch, Karl Hermann et al.;</i> Küttner Non Ferrous GmbH, Germany CFD-Simulation as a Tool for System Optimization Based on the Example of a Copper Refining Furnace	<i>Eghbalian, Maziar; Dixon, David G.;</i> University of British Columbia, Canada Effect of Galvanic Interactions Between Pyrite and Chalcopyrite on the Galvanox™ Process	<i>Risopatron, Carlos;</i> International Copper Study Group, Portugal Global Copper Market Drivers in 2010 - 2015	<i>Wang, Wei; Yao, Su Ping;</i> China Nerin Engineering Co., Ltd, P.R. China The Development of the Chinese Copper Industry and Copper Extraction Technology	<i>Eriksson, Ola et al.;</i> Xstrata Technology, Australia Developments in Cathode Stripping Machines – An Integrated Approach for Improved Efficiency
16:45	<i>Köster, Stefan;</i> Oschatz GmbH, Germany Waste Heat Boilers for Copper Smelting Applications		<i>Gunnewiek, Lowy;</i> Hatch Ltd., Canada; <i>León Ganem, Máximo;</i> <i>Zamorano, Guido;</i> Hatch Ingenieros y Consultores Ltda., Chile Analysis and Improvements of a Radiant Cooling Chamber in a Copper Smelter	<i>Ranjbar, Mohammad et al.;</i> Shahid Bahonar University of Kerman, Mining Engineering Department, Iran Effect of Oxidation Reduction Potential on Dissolution of a Chalcopyrite Copper Concentrate		<i>Devia, Manuel;</i> Aker Solutions Chile, Chile Thermodynamics of Matte to Doré Metal Refining	<i>Filzwieser, Iris;</i> METTOP GmbH, Austria Newest Developments Using the METTOP-BRX-Technology

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Session	07 Electrorefining IV	10 Sustainable Development IV	02 Economics IV	06 Hydrometallurgy IV	03 Downstream Fabrication III	05 Pyrometallurgy V	07 Electrowinning I
Chair	Leuprecht, Günther	N. N.	Barrios, Patricio	Siegmund, Andreas	Jacobsen, Jens	George, David	Murphy, Mike
10:30	<i>Izatt, Steven R. et al.</i> ; IBC Advanced Technologies, Inc., USA MRT Applications in Copper Refining: Bismuth Removal From Copper Electrolyte	<i>Hoffmeister, Frank; Edens, Torben; Krystkowiak, Matthias;</i> Aurubis AG, Germany Environmental Improvement of Anode Production at Aurubis in Hamburg	<i>Haley, Vivienne;</i> CRU, United Kingdom Future Copper Supply From New Mines and Projects	<i>Ruiz, Maria C.; Montes, Kelly.; Padilla, Rafael;</i> Universidad de Concepción, Departamento de Ingeniería Metalúrgica, Chile Pressure Leaching of a Chalcopyrite Concentrate	<i>Grasser, Monika et al.;</i> Montanuniversität Leoben, Christian-Doppler Laboratory for Multi-Phase Modeling of Metallurgical Processes, Austria Experimental Investigation on the Ternary Phase Diagram Cu-Sn-P	<i>Chisholm, Martin;</i> Clyde Materials Handling, United Kingdom; <i>Mackay, Roberto;</i> Codelco, Chile Process Evolution – Advances in CT Technology and Copper Production	<i>Nieminen, Ville et al.,</i> Outotec Research Oy, Finland Copper Electrowinning with High Current Density
10:55	<i>Komori, Katsura et al.;</i> Mitsubishi Materials Corp., Naoshima Smelter and Refinery, Japan Hydrometallurgical Process of Precious Metals in Naoshima Smelter & Refinery	<i>Devos, Gaspard; Houbart, Michel; Roth, Jean-Luc;</i> Paul Wurth S.A., Luxembourg Optimal and Sustainable Metals Recovery From Smelter and Converter Copper Slag	<i>Loveitt, Mark;</i> International Wrought Copper Council, United Kingdom After the Crisis – A New Dawn for the Fabricating Industry	<i>Velásquez-Yévenes, Lilian et al.;</i> Universidad Católica del Norte, Department of Metallurgical Engineering, Chile Enhanced Leaching of Chalcopyrite at Low Potentials in Chloride Solutions. 1. Concentrates	<i>Michels, Harold T. et al.;</i> Copper Development Association, Inc., USA Continuing Research on the Antimicrobial Properties of Copper Alloys	<i>Alvear F., Gerardo R.F.; Arthur, Philip; Partington, Phil;</i> Xstrata Technology, Australia Feasibility to Profitability with Copper ISASMELT™	<i>Moats, Michael S. et al.;</i> University of Utah, Department of Metallurgical Engineering, USA Understanding and Improvement of Electrowinning Current Efficiency at FMI Bagdad
11:20	<i>Wang, Shijie; Kim, Daniel;</i> Rio Tinto Kennecott Utah Copper, USA; <i>Brees, Doug;</i> Mettler-Toledo Ingold, Inc., USA Sustainable Developments in Copper Anode Slimes – Wet Chlorination – Processing	<i>Łoś, Przemysław; Plewka, Anna; Lukomska, Aneta;</i> Industrial Chemistry Research Institute, Poland A New Technology to Recover Nanoparticles From By-Product and Wastewaters of Copper Industry	<i>Lea, Anthony;</i> ICA, USA Recent Developments in Material Substitution in Key Copper Markets	<i>Miki, Hajime et al.;</i> Murdoch University, Parker Centre, Australia Enhanced Leaching of Chalcopyrite at Low Potentials in Chloride Solutions. 2. Mechanisms	<i>Michels, Harold T. et al.;</i> Copper Development Association, Inc., USA Antimicrobial Regulatory Testing for Copper Alloys in the USA	<i>Lankinen, Heikki; Peippo, Rauno;</i> Foster Wheeler Energia Oy, Finland Boiler Tube Cooling of TSL-Furnace Walls	<i>Robinson, Tim;</i> Freeport-McMoRan Inc., USA Electrolytic Copper Electrowinning – 2010 World Tankhouse Operating Data
11:45	<i>Hapçı, Gökçe; Orhan, Gökhan;</i> Istanbul University, Metallurgical and Materials Engineering Department, Turkey The Effect of Current Density and Temperature on Copper Powder Recovery by Electrolysis	<i>Zarate, Gabriel; Alfaro Cortés, Marcos O.; Rodrigo, Subiare V.;</i> Anglo American, Chile Optimisation of Water Recovery from Tailings Through the Use of Screens at Mantos Blancos	<i>Meskers, Christina; Daelman, Guy;</i> Brouwer, Sybolt; Umicore Precious Metals Refining, Belgium Outsourcing of By-Products: An Opportunity for Process Improvement	<i>Nicol, Michael et al.;</i> Murdoch University, Parker Centre, Australia; Enhanced Leaching of Chalcopyrite at Low Potentials in Chloride Solutions. 3. Ores	<i>Michels, Harold T.;</i> Copper Development Association, Inc., USA Clinical Testing of Antimicrobial Copper Alloys	<i>Potesser, Michael et al.;</i> Messer Austria GmbH, Austria Customized Burner Concepts for the Copper Industry	<i>Hecker C., Christian et al.,</i> Hecker Electroquímica Industrial S.A., Chile Improvement in Copper EW and ER Processes by Using a Multi-frequency AC + DC Current

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Session	07 Electrowinning II	07 Electrorefining V	09 Recycling I	06 Hydrometallurgy V	03 Downstream Fabrication IV	05 Pyrometallurgy VI	05 Pyrometallurgy VII
Chair	Doolan, John	Traulsen, Heinrich	Pesl, Josef	Antrekowitsch, Helmut	Rode, Dirk	Cartagena, Gustavo	Davenport, Bill
13:15	<i>Nisbett, Andrew et al.</i> ; Cognis Corp., USA Incorporation of Copper Solvent Extraction into a Copperbelt Cobalt Refinery	<i>Stantke, Peter; Leuprecht, Guenther</i> ; Aurubis AG, Germany Process Change for the Treatment of Spent Electrolyte at Aurubis Hamburg	<i>Barturen Z., Juan Ignacio</i> ; Codelco, Chile Shifting Core Business Vision: From Copper to Polymetallics. A Recycling Point of View	<i>Soderstrom, Matthew et al.</i> ; Cytec Industries Inc., USA Getting More Out of Your Copper SX Plant	<i>Grasser, Monika et al.</i> ; Montanuniversität Leoben, Christian-Doppler Laboratory for Multi-Phase Modeling of Metallurgical Processes, Austria Macrosegregation Prediction for DC Casting of Ternary Bronze Alloys	<i>Hanusch, Bernhard</i> ; KME Germany AG & Co. KG, Germany New Highly Efficient Rotary Furnace for Environmentally Friendly Refining Process	<i>Knabel, Klaus; Ströder, Michael</i> ; Outotec GmbH, Germany; <i>Palacios, Miguel</i> ; Atlantic Copper S.A., Spain Gas-Gas Cooler as Off-Gas Duct for a Slag Cleaning Furnace: Example of HSE Progress and Engineering Excellence
13:40	<i>Lillo, Alejandro R.</i> ; Metalex, Chile Intensification of Copper Electrowinning	<i>Hiskey, J. Brent</i> ; University of Arizona, USA; <i>Moats, Michael S.</i> ; University of Utah, Department of Metallurgical Engineering, USA How Anodes Passivate in Copper Electrorefining	<i>Watanabe, Yoshihiro</i> ; Act-B Recycling Co. Ltd., Japan Recycling of Electric Home Appliances in Minamata	<i>Diaz, Gustavo et al.</i> ; Tecnicas Reunidas S. A., Spain Solvent Extraction Applied to Mixed Copper and Zinc Bearing Materials	<i>Menge, Rainer</i> ; NBM, Germany Comparison of Inductive Melting and Inductive Annealing	<i>Gamweger, Klaus</i> ; RHI AG, Austria Introduction of a Slide Gate System for Copper Anode Furnaces	<i>Tajja, Jyri; Chen, Shaolong</i> ; <i>Mansikkaviita, Hannu</i> ; Kumera Corp., Finland Kumera Technology for Copper Smelters
14:05	<i>Stelter, Michael; Bombach, Hartmut</i> ; TU Bergakademie Freiberg, Institut für NE-Metallurgie und Reinststoffe Copper Electrorefining at High Current Densities	<i>Friedrich, Bernd et al.</i> ; RWTH Aachen, IME Metallurgische Prozesstechnik und Metallrecycling, Germany Effect of As, Sb, Bi and Oxygen in Copper Anodes During Electrorefining	<i>Meyer-Wulf, Claus; Westhoff, Franz-Josef</i> ; Aurubis AG, Germany New Standards in Environmental Protection for Copper Recycling	<i>Hein, Hans</i> ; Cognis Chile Ltda., Chile Selecting Between Weak and Strong Extractants on Acid Solutions in Copper SX	<i>Köhler, Michael; Hojda, Ralf</i> ; Diehl Metall Sundwiger Messingwerk, Germany BB05xi and BB95 – Two New Environmental Friendly Copper Alloys	<i>Nexhip, Colin et al.</i> ; Praxair, Inc., USA An Update on Praxair Coherent Jet Technology in Anode Refining at Kennecott Utah Copper	<i>Tanaka, Fumito et al.</i> ; Mitsubishi Materials Corp., Japan The Initial Years of the O-SR Process
14:30	<i>Moats, Michael S.</i> ; University of Utah, Department of Metallurgical Engineering, USA; <i>Hiskey, J. Brent</i> ; University of Arizona, USA Periodic Oscillations During Electrolytic Dissolution of Copper Anodes	<i>Rios, Guillermo; Ramirez, Rafael; Arbizu, Cristina</i> ; Atlantic Copper S.A., Spain Management of Electrolyte Impurities at the Atlantic Copper Refinery		<i>Dreisinger, David; Xie, Feng</i> ; University of British Columbia, Department of Materials Engineering, Canada Solvent Extraction of Metals and Cyanide From Waste Cyanide Solution by LIX 7950	<i>Kwaśniewski, Pawel et al.</i> ; AGH University of Science and Technology, Poland Testing the Mechanical and Electrical Properties of Traction Equipment Made From CuNi2Si Alloy	<i>Zhou, Jun et al.</i> ; Central South University, School of Energy Science and Engineering, P.R. China Numerical Simulation of Fluid Flow and Melt Temperature in Settler	<i>Veenstra, Robert et al.</i> ; Hatch Ltd., Canada High Intensity Cast Cooling Element Design and Fabrication Considerations

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Session	07 Electrowinning III	08 Process Control II	09 Recycling II	06 Hydrometallurgy VI	04 Mineral Processing III	05 Pyrometallurgy VIII	05 Pyrometallurgy IX
Chair	Murphy, Mike	Matusewicz, Robert W.	Filzwieser, Andreas	Dreisinger, David	Kelebek, Sadan	Wenzl, Christine	Kapusta, Joel
15:30	<i>Raabe, Lutz et al.</i> ; TU Bergakademie Freiberg, Institut für NE-Metallurgie und Reinststoffe, Germany Copper Refining in Nitrate Solutions	<i>Thakre, Shirish et al.</i> ; Aditya Birla Science and Technology Company Ltd., India Design Modification Using CFD to Improve the Performance of the Waste Heat Boiler	<i>Gaydardzhiev, Stoyan et al.</i> ; University of Liège, Mineral Processing and Recycling, Belgium Biosolubilization of Copper From Waste Electric Cables	<i>Sunyer, Alba et al.</i> ; University of Barcelona, Department of Materials Science and Metallurgical Engineering, Spain Arsenic Inertization From Copper Pyrometallurgy Through Phases of the Alunite Supergroup	<i>Free, Michael L.</i> ; University of Utah, USA Predicting Leaching Solution Acid Consumption as a Function of pH Copper Ore Leaching	<i>Miettinen, Elli; Ahokainen, Tapio; Eklund, Kaj</i> ; Outotec Oyj, Finland Management of Copper Flash Smelting Off-Gas Line Gas Flow and Oxygen Potential	<i>Jak, Eugene</i> ; University of Queensland Pyrometallurgy Research Centre, Australia; <i>Tsybulov, Leonid B.</i> ; Norilsk Nickel RJS, Gipro-nickel Institute JS, Russia Development of the Continuous Copper Converting Using Two-Zone Vaniukov Converter
15:55	<i>Sandoval, Scot P. et al.</i> ; Freeport-McMoRan Mining Company, USA Demonstration of the Ferrous / Ferric Anode Reaction for Copper Electrowinning	<i>Shen, Dianbang et al.</i> ; Fangyuan Non-ferrous Metal Ltd., P.R. China A New Process of Copper Smelting With Oxygen Enriched Bottom Blowing Technology	<i>Kubo, Hisashi; Abumiya, Mitsuo; Matsumoto, Masayoshi</i> ; Dowa Metals & Mining Co., Ltd., Japan Dowa Mining Scorodite Process® – Application to Copper Hydrometallurgy	<i>Ekman, Sophia</i> ; Outokumpu Stainless AB, Sweden; <i>Torsner, E.</i> ; Outokumpu Stainless Inc., USA Special Stainless Steel Grades for the Hydrometallurgical Industry	<i>Hiroyoshi, Naoki et al.</i> ; Hokkaido University, Graduate School of Engineering, Japan Redox Potential Control in Column Leaching of Chalcopyrite	<i>Reed, Michael E. et al.</i> ; WorleyParsons Services Pty Ltd., Australia Clyde-WorleyParsons' Flash Furnace Feed System: The Development Cycle	<i>Mackey, Phillip</i> ; Xstrata Process Support Centre, Canada A New Toolbox for Optimizing Converter Aisle Operations
16:20	<i>Al Shakarji, Reza; He, Yinghe; Gregory, Simon</i> ; Xstrata Technology, Australia Measurement of Bubble Size Distribution in Copper Electrowinning Process by Image Analysis	<i>Petereit, Peter; Tischler, Kurt</i> ; Siemens AG, Germany Design and Dynamic Behavior of Large Ring Motors for Grinding Mills	<i>Shibata, Etsuro et al.</i> ; Tohoku University, Institute of Multidisciplinary Research for Advanced Materials, Japan Solubility of Scorodite Synthesized by Oxidation of Ferrous Ions	<i>Schwarz, Philip et al.</i> ; CSIRO Minerals, Australia Characterisation of the Flows in Two Copper SX Settlers	<i>Li, Zhibao; Zhang, Yan; Tumen-Ulzii, Narangarav</i> ; Chinese Academy of Sciences, Institute of Process Engineering, P.R. China Copper Leaching From Molybdenite in Acidic FeCl₃ Solutions With FeCl₂	<i>Sasai, Shigeru et al.</i> ; Sumitomo Metal Mining Co., Ltd., Japan Development of Sumitomo Concentrate Burner	<i>Plascencia, Gabriel et al.</i> ; CIITEC – IPN, Mexico Experimental Estimation of the Residence Time Distribution in a P-S Converter
16:45	<i>Nicol, Michael; Blackett, Anthony</i> ; Murdoch University, Parker Centre, Australia The Simulation of Current Distribution in Cells During the Electrowinning of Copper	<i>Veas, Aquiles; Rojas, Orlando</i> ; Codelco Chile, Chile Oxygen Enrichment in Peirce Smith Converters Potrerillos Smelter		<i>Peart, Mike et al.</i> ; Cytec Industries Inc., USA New Technologies and Optimization of Reagents in Sulfide Flota	<i>Ranjbar, Mohammad et al.</i> ; Shahid Bahonar University of Kerman, Mining Engineering Department, Iran Optimization of Copper Concentrate Bioleaching by Mixed Moderate Thermophile Bacteria	<i>Voisin, Leandro</i> ; Tohoku University, Japan; <i>Okura, Takahiko</i> ; The University of Tokyo; <i>Itagaki, Kimio</i> ; Tohoku University, Japan Processing Complex Iron-Lead-Copper Alloys by Using Pig-Iron	<i>Voermann, Nils et al.</i> ; Hatch Ltd., Canada Extending Copper Smelting and Converting Furnace Campaign Life through Technology

Wednesday, June 9, 2010

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Session	05 Pyrometallurgy X	08 Process Control III	04 Mineral Processing IV	03 Downstream Fabrication V	10 Sustainable Development V	07 Electrowinning IV	05 Pyrometallurgy XI
Chair	Kashani-Nejad, Sina	Iasillo, Eugenio	Habashi, Fathi	Schillinger, Wolfram	Hinrichs-Petersen, Karin	Aslin, Nigel	Mackey, Philip
10:30	<i>Konetschnik, Stefan et al.</i> ; University of Leoben, Nonferrous Metallurgy, Austria Recovery of Valuable Metals from Converter Slags by Reduction with Iron	<i>Deaulmerie, Louis et al.</i> ; Siemens NV, Belgium Managing Refinery Constraints Within an Automated Production Environment	<i>del Villar, René et al.</i> ; Université Laval, Department of Mining, Materials and Metallurgical Engineering, Canada Control of Bubble Size in a Laboratory Flotation Column	<i>Ebin, Burçak; Gencer, Ovgu; Gurmen, Sebahattin</i> ; Istanbul Technical University, Metallurgical and Materials Engineering Department, Turkey Synthesis of Copper Nanoparticles From Copper Nitrate Solution by Ultrasonic Spray Pyrolysis (USP)	<i>Schlutzkus, Thoralf; Orhan, Cekel; Hinrichs-Petersen, Karin</i> ; Aurubis AG, Germany Reduction of Fugitive Emissions in the Non-Ferrous Metal Industry	<i>Free, Michael L.</i> ; University of Utah, Department of Metallurgical Engineering, USA Measuring and Modeling Copper Electrowinning Current Efficiency in Chloride Media	<i>Padilla, Rafael; Aracena, Alvaro; Ruiz, Maria C.</i> ; Universidad de Concepción, Departamento de Ingeniería Metalúrgica, Chile Oxidation-Volatilization of Enargite and Stibnite at Roasting / Smelting Temperatures
10:55	<i>Henoa Z., Hector M.; Hayes, P.C.; Jak, Eugene</i> ; University of Queensland, Pyrometallurgy Research Centre, Australia Sulphur Capacity of the "FeO"-CaO-SiO₂ Slag of Interest to the Copper Smelting Process	<i>Behrens, Christian; Smith, Andrew; Pankewitz, Axel</i> ; Sympatec GmbH, Germany Application of Ultrasonic Extinction for Simultaneous On-Line Particle Size Distribution and Solid Concentration Analysis of Mineral Slurries	<i>Mańka, Adam et al.</i> ; Institute of Non-Ferrous Metals, Poland Flow Process in the Areator of the Flotation Machine – Preliminary Simulations	<i>Samei, Javad et al.</i> ; University of Windsor, Department of Mechanical, Automotive and Materials Engineering, Canada Directional Infiltration of 12 wt% Copper into a Tungsten Porous Skeleton	<i>Rameshni, Mahin; Santo, S.</i> ; Worley Parsons, USA Production of Elemental Sulphur from SO₂	<i>Bender, Jack T.</i> ; Cognis Corp., USA Evaluation of Mist Suppression Agents for Use in Copper Electrowinning	<i>Kalisch, Michael et al.</i> ; SMS Siemag AG, Germany Latest Results of the Intensive Slag Cleaning Reactor for Metal Recovery on the Basis of Copper
11:20	<i>Hidayat, Taufiq et al.</i> ; University of Queensland, Pyrometallurgy Research Centre, Australia Experimental Study of Phase Equilibria of Silicate Slag Systems	<i>Hundrieser, Jens</i> ; Endress+Hauser Messtechnik GmbH+Co. KG, Germany Optimizing Your Copper Process With the Right Measurement Mix	<i>Anderson, Corby G.</i> ; Allihes Engineering Inc., USA; <i>Fayram, Todd S.</i> ; Continental Metallurgical Services, USA; <i>Twidwell, Larry G.</i> ; Montana Enviromet, USA Industrial NSC Pressure Oxidation of Combined Copper and Molybdenum Concentrates	<i>Altenberger, Igor; Müller, Hilmar; Zauter, Robert</i> ; Wieland-Werke AG, Germany Spray-Formed Copper Alloys Have Become Mature	<i>Michels, Harold T. et al.</i> ; Copper Development Association, Inc., USA Antimicrobial Copper Alloy Components for Air Handling Systems	<i>Tjandrawan, Venny; Nicol, Michael</i> ; Murdoch University, Parker Centre, Australia The Oxidation of Manganese Ions on Lead Alloys During the Electrowinning of Copper	<i>Gebski, Pawel et al.</i> ; Hatch Ltd., Canada Furnace Condition Assessment and Monitoring by Utilization of Innovative Non-Destructive Testing (NDT) Techniques
11:45	<i>Mponda, Enoch et al.</i> ; Konkola Copper Mines, Zambia Elegant Solutions for Challenging Zambian Raw Materials Base	<i>Coleman, Mark; Walker, Paul; Money, Gavin</i> ; Clyde Materials Handling Ltd., United Kingdom Energy Efficient and Reliable Pneumatic Conveying Solutions at Aurubis	<i>Chmielewski, Tomasz; Wódka, Jerzy</i> ; Wrocław University of Technology, Faculty of Chemistry, Poland Pressure Leaching of Shale Middlings From Lubin Concentrator in Oxygenated Sulphuric Acid	<i>Imai, Hisashi et al.</i> ; Osaka University, Joining and Welding Research Institute, Japan Machinability and Mechanical Properties of Lead-Free Wrought Brass Alloys With Bismuth and Graphite Particles by Powder Metallurgy Process	<i>Safe, Paykan; Russel, Matthew</i> ; WorleyParsons Gas Cleaning, USA Heat Recovery and Energy Optimization in Smelter Gas Cleaning	<i>Moats, Michael S.</i> ; University of Utah, Department of Metallurgical Engineering, USA MnO₂ Deposition on Coated Titanium Anodes in Copper Electrowinning Solutions	<i>Kapusta, Joël</i> ; Air Liquide Canada Inc., Canada Gas Injection Phenomena in Converters – An Update on Buoyancy Power and Bath Slopping

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Session	05 Pyrometallurgy XII	08 Process Control IV	04 Mineral Processing V	06 Hydrometallurgy VII	10 Sustainable Development VI	07 Electrowinning V	05 Pyrometallurgy XIII
Chair	Tuominen, Jukka	Bruch, Karl Hermann	Habashi, Fathi	Stantke, Peter	Segers, Luc	Stelter, Michael	Sohn, Hong Yong
13:15	<i>Jak, Eugene et al.</i> ; University of Queensland, Pyrometallurgy Research Centre, Australia Effects of SiO₂, Al₂O₃, MgO and Na₂O on Spinel Liquidus in Calcium Ferrite Slags with Cu and Fixed PO₂	<i>Cartagena R., Gustavo; Renner M., Gerardo; Mena Z., Eduardo;</i> Coppex S.A., Chile Granulation System for Copper Slag and Copper White Metal	<i>Konishi, Yasuhiro et al.</i> ; Osaka Prefecture University, Department of Chemical Engineering, Japan Bioleaching of Crude Chalcopryrite Ores by the Thermophilic Archaean Acidianus Brierleyi in a Batch Reactor	<i>Orr, Robert; House, Adam; Nees, M.</i> ; Newmont Mining Corp., USA Challenges With Developing a Copper L-SX-EW Plant Near Battle Mountain, Nevada, USA	<i>Delbeke, Katrien et al.</i> ; European Copper Institute, Belgium The EU Copper Risk Assessment: Summary and Applications	<i>Prengaman, R. David; Ellis, Timothy;</i> RSR Technologies, Inc., USA New Lead Anode for Copper Electrowinning	<i>Chen, Zhuo et al.</i> ; Central South University, School of Energy Science and Engineering, P.R. China Simulation Study of Intensified Flash Smelting Process
13:40	<i>Jak, Eugene et al.</i> ; University of Queensland, Pyrometallurgy Research Centre, Australia Liquidus Temperature in Calcium Ferrite Slags in Ca₂Fe₂O₅ and Ca₂SiO₄ Primary Phase Fields with Cu and Fixed PO₂	<i>Desai, Bhavin et al.</i> ; Aditya Birla Science and Technology Company Ltd., India Prediction of Slag Coating Thickness in Mitsubishi Converting Furnace	<i>Chmielewski, Tomasz et al.</i> ; Wroclaw University of Technology, Faculty of Chemistry, Poland Leaching of Gangue in Technological Flotation Circuits of Polish Copper Ores	<i>Scriba, Hermann; Baxter, Ken; Ivan;</i> SNC-Lavalin, Chile Treatment of High-Arsenic Copper-Gold Concentrates - An Options Review	<i>Chung, Lynette;</i> Eurometaux, Belgium Sustainable Development: Emission Control for Industrial Installations in the EU	<i>Nikoloski, Aleks; Nicol, Michael;</i> Murdoch University, Parker Centre, Australia; <i>Stuart, Alan;</i> formerly BHP Billiton, Newcastle Technology Centre, Australia Managing the Passivation Layer on Lead Alloy Anodes in Copper Electrowinning	<i>Plascencia, Gabriel et al.</i> ; CIITEC – IPN, Mexico Numerical Simulation of Air Blowing Into a Copper Matte in a P-S Converter Using a Convergent-Divergent Nozzle
14:05	<i>Miczkowski, Zbigniew et al.</i> ; Institute of Non-Ferrous Metals, Poland Problems of Lead and Arsenic Removal From Copper Production in a One-Stage Flash-Smelting Process	<i>Nematollahi, Hossein;</i> Kian Madan Pars Co., Iran; <i>Kiani, Farajollah;</i> Kian Pars Mine Co., Iran; <i>Zeidabadi, Sedigheh;</i> Sar Cheshmeh Copper Complex, Iran Control of Copper Concentrator by LOI Measurement	<i>Free, Michael L.; Jurovitzki, Abraham L.;</i> University of Utah, USA Predicting the Effects of Locked, Partially Locked and Liberated Minerals in Copper Leaching	<i>Forsén, Olof; Aromaa, Jari;</i> Helsinki University of Technology, Finland; <i>Lundström, Mari;</i> Outotec Oyj, Finland The Rate-Controlling Step of Chalcopryrite Dissolution in Concentrated Cupric Chloride Solution	<i>Farrel, Frank;</i> United Kingdom Achieving BAT Standards in the Copper Industry	<i>Morimitsu, M.; Oshiumi, N.; Wada, N.;</i> Doshisha University, Department of Environmental Systems Science, Japan Smart Anodes for Electrochemical Processing of Copper Production	<i>Yamaguchi, Katsunori;</i> Iwate University, Japan Distribution of Precious Metals Between Matte and Slag and Precious Metal Solubility in Slag
14:30	<i>Montenegro, V.;</i> Nagoya University, Graduate School of Engineering, Japan; <i>Voisin, Leandro;</i> Tohoku University, NICHe, Japan Control of Impurities During the Pyrometallurgical Production of Copper	<i>Thakre, Shirish et al.;</i> Aditya Birla Science and Technology Company Ltd., India Development of Process Advisor for FSF Incorporating the Concentrate Mineralogy	<i>Hecker C., Christian et al.;</i> Hecker Electroquímica Industrial S.A., Chile A Specific Electrode for “On-Line” pH Measurement in SAG Cleaner Flotation Circuits	<i>Ghahremaninezhad, Ahmad; Asselin, Edouard; Dixon, David G.;</i> University of British Columbia, Canada An Electrochemical Model for Acidic Dissolution of Chalcopryrite (CuFeS₂) Mineral		<i>Sandoval, Scot P. et al.;</i> Freeport-McMoRan Mining Company, USA Development and Commercialization of an Alternative Anode for Copper Electrowinning	<i>Warczok, Andrzej; Riveros, Gabriel;</i> University of Chile, Chile; <i>Utigard, Torstein;</i> University of Toronto, Canada Modeling of Magnetite Reduction From a Liquid Slag With Carbon

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Session	05 Pyrometallurgy XIV	08 Process Control V	04 Mineral Processing VI	05 Pyrometallurgy XV			05 Pyrometallurgy XVI
Chair	N.N.	N.N.	Uhrie, John	van Camp, Maurits			Stibich, Robert
15:30	<i>Moyano, Alex et al.</i> ; Codelco Chile, Chile The Teniente Converter: A High Smelting Rate and Versatile Reactor	<i>Robles-Vega, Antelmo et al.</i> ; Mexicana de Cobre S.A. de C.V., Mexico An Enhanced Process for Tellurium Production in Mexicana de Cobre	<i>Zárate, Gabriel; Díaz, Manuel</i> ; Anglo American, Chile Mine to Heap in Mantroverde Angloamerican Division	<i>Filzwieser, Andreas et al.</i> ; METTOP GmbH, Austria 3D-Refractory Engineering Using the Example of a MAERZ Tilting Furnace			<i>Ante, Angela</i> ; Bamag GmbH, Germany Filsulfur and Gypsulfur: Modern Design Concepts for Weak Acid Treatment
15:55	<i>Parra, Roberto et al.</i> ; Universidad de Concepción, Departamento de Ingeniería Metalúrgica, Chile Gold Extraction From Copper Ferrite Residue Produced by Oxidizing Roasting Copper Matte	<i>Zavala R., Eduardo</i> ; Bechtel Chile Ltda., Chile Capitals Savings Through the Use of Dynamic Modeling	<i>Shibayama, Atsushi; Tongamp, William; Takasaki, Yasushi</i> ; Akita University, Faculty of Engineering & Resource Science, Japan Selective Leaching of Arsenic From Copper Ores and Concentrates Containing Enargite in NaHS Media	<i>Kaur, Rajneet et al.</i> ; Rio Tinto Technology and Innovation, Australia Minor Element Department at the Kennecott Utah Copper Smelter			<i>Wenzl, Christine et al.</i> ; METTOP GmbH, Austria Ionic Liquids – The New Way in Cooling Technology
16:20	<i>Peacy, John</i> ; Queens University, Canada Review of Process Options to Treat Enargite Concentrates			<i>Parra, Roberto et al.</i> ; Universidad de Concepción, Departamento de Ingeniería Metalúrgica, Chile Smelting of High-Arsenic Copper Concentrates			<i>Wraith, Bert</i> ; United Kingdom; <i>Mackey, Phillip</i> ; Xstrata Process Support Centre, Canada Sulphide Bath Smelting: 19th Century Concept and Hollway's Legacy
16:45	<i>Rüşen, Aydin; Topkaya, Yavuz Ali; Geveci, Ahmet</i> ; Middle East Technical University, Department of Metallurgical and Material Engineering, Turkey Usage of Colemanite in Copper Matte Smelting			<i>Cardona V., Nubia et al.</i> ; Universidad de Concepción, Chile Evaluation of Copper Losses in the Slag Cleaning Circuit From Two Chilean Smelters			<i>Rojas, Patricia</i> ; Paipote Smelter, Fundación Hernán Videla Lira, Chile; <i>Vargas, Juan Carlos</i> ; Empresa Nacional de Minería, Chile; <i>Artigas, Martin</i> ; Camino Público S/N, Chile Hernán Videla Lira Smelter's Fire Refining Process Optimization