

# ALTA 1998 COPPER HYDROMETALLURGY FORUM PROCEEDINGS

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By Graeme Miller, Principal Process Engineer, CMPS&F Pty Limited, Australia

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By C A Hughes, K R Barnard, C Y Cheng, K Larcombe, CSIRO Minerals/AJ Parker CRC for Hydrometallurgy, Australia

#### **A Proposed Solvent Extraction Route for the Treatment of Copper Cyanide Solutions Produced in Leaching of Gold Ores**

By M R Davis, Lycopodium Pty Ltd, Australia, K C Sole, Mintek, Sth Africa, J M W Mackenzie, Henkel Australia Pty Ltd, M J Virnig, Henkel Corporation MID, USA

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By M A Giralico, T A Post, M Greaves, E Stevenson, Lightnin ,Australia/USA

#### **Copper Solvent Extraction Using a Bateman Pulse Column**

By E M Buchalter, R Kleinberger, Bateman, Israel, B Grinbaum, IMI

#### **Commercialisation of the EMEW Cell**

By T Treasure, Electrometals Mining Limited, Australia

#### **Oxygen Evolving Anodes in the Electrowinning Applications**

By A Nidola, De Nora SpA, Italy

#### **Membrane Technology Applications in Copper Processing**

By V Cinanni, Occtech Engineering, Australia, P Macintosh, Occtech Engineering, Australia

#### **Applications for Ion Exchange Technology in Copper Hydrometallurgy**

By W H Jay, Monash University, Australia

### Heap Leaching

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By G Miller, CMPS&F Pty Limited, Australia

#### **Physical Parameters of Heap Leaching at Girilambone Copper Company**

By B James, T Lancaster, Girilambone Copper Company Pty Ltd, Australia

#### **Heap Leaching for a Copper-Gold Ore**

By G Santos de Pontes Pereira, R de Souza Costa, Companhia Vale do Rio Doce, Brazil

#### **Practical Aspects of the Application of Extract Ore® 9560 for Heap Leach Agglomeration at Nifty Copper Operation**

By M Efthymiou, WMC Resources Ltd, Australia, L Henderson, Nalco Australia Pty Ltd, R Pyper, Kappes, Cassiday & Associates Australia Pty Ltd

### Design & Operation

#### **Tankhouse Expansion and Modernisation of Copper Refineries Ltd**

By S Johnston, Mount Isa Mines, Australia

#### **A Global Engineer's Perspective of Copper Leaching, Solvent Extraction and Electrowinning**

By W Dicoski, J Schlitt, V Ambalavener, Kvaerner Metals, Australia/USA

#### **Practical Aspects of the Application of Extract-Ore® 8850 for Solvent Extraction of Copper at Gunpowder Copper Mine**

By K Gottliebson, Gunpowder Copper Mine, Aust, L Henderson, R Strickland, Nalco Aust Pty Ltd

#### **The Outokumpu Copper Solvent Extraction Process – An Approach Based on Interactions Between Running Parameters and Mixer-Settler Design Introduced at Radomiro Tomic VSF SX Plant in Chile**

By B Nyman, E Lindell, Outokumpu Research Oy, Finland, P Taipale, R Kuusisto, Outokumpu Engineering Contractors Oy, Finland, J Lyyra, Outokumpu Engineering Services Oy, Finland, T Saarenpaa, Indepro Ingenieria Ltd, Chile

### Additional Papers

#### **Development of the Erdmin Copper SX-EW Project in Mongolia**

By G Miller, P Hutchinson, CMPS&F Pty Ltd, Australia

#### **Applications of Engineered Membrane Separation (EMS™) systems for Copper Hydrometallurgy**

By J J Mueller, D H Green, R Bernard, HW Process Technologies Inc, USA, V Liebezeit, I Lawrance, HW Process Technologies Australia Pty Ltd

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By F Habashi, Laval University, Canada

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### **Economic Implications of the Intec Process for the World's Copper Industry**

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### **CESL Process for Copper Sulphides Operation of the Demonstration Plant**

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By D Butcher. Consultant to General Gold, Australia

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By M Collins, K Buban, F de Kock, R Kalanchey, T Xue, Dynatec Corporation, Canada

### **The Economics of Autoclaving Chalcopyrite**

By J King, Placer Dome, Canada

### **Economics of On-Site Treatment of Copper Concentrates**

By M Jansen, A Taylor, International Project Development Services, Australia, B Ellis, Australian Resources Limited, Australia