ALTA 2002 NICKEL/COBALT- 8

TABLE OF CONTENTS

Laterite Projects

New Caledonian Nickel Nakety/Bogota Project Update

By David Russell, Argosy Minerals Inc, Australia

Status of the Weda Bay Laterite Project

By Malcolm Baillie, PT Weda Bay Nickel, Indonesia

"Sensible" Ramp-Up Times for PAL & Other Projects

By Rolly Nice, R W Nice & Associates, Australia

Laterite Processes

Nickel Laterite Hydrometallurgical Processing Update

By John Reid, Reid Resource Consulting and Steve Barnett, BHP Billiton, Australia

Laterites - Squeeze or Ease?

By Adrian Griffin and Peter Nofal, Preston Resources Ltd

Gary Johnson and Heather Evans, Western Minerals Technology, Australia

Nickel Laterite Leaching in the HIPAL Pilot Plant – The First 12 Months

By Chad J Czerny & Dwight van der Muelen, Lakefield Oretest

Shane Wiggett, QNI Pty Ltd and Jim Gillaspie, BHP Billiton Innovation Pty Ltd, Australia

Solvent Extraction & Ion Exchange

Cobalt, Nickel and Copper Recovery with Resin-In-Pulp

By J P Wyethe, M H Kotze and I P Greager, Mintek and A C Swarts, Anglovaal Mining, Sth Africa

Purity Systems Inc. Metals Capture Technology for Nickel and Cobalt Recovery

By Anthony V Metzner, Purity Systems Inc, USA and Bruce Arnall, Ammtec Ltd, Australia

Recovery of Nickel and Cobalt from Leach Solutions by Direct Solvent Extraction

By Chu Yong Cheng and Mark Urbani

A J Parker Cooperative Research Centre for Hydrometallurgy/CSIRO Minerals, Australia

The Recovery of Nickel from Sulphate Leach Liquor Saturated in Calcium Using Versatic Acid in a Bateman Pulsed Column

By Victor Nagel, Bateman Engineering and Angus Feather, Mintek

Arnold Swarts, Anglovaal Mining, South Africa

On-Line Analysis in Nickel Solvent Extraction

By David Hughes, Matti Kongas and David McKnight, Outokumpu Mintec, Finland

Process Technology

Rheological Aspects of Nickel Hydrometallurgy

By A Mezei, M Ashbury and I Todd, Lakefield Research Limited, Canada

The Control of Manganese in Acidic Leach Liquors, with Special Emphasis to Laterite Leach Liquors

By C J Ferron, Lakefield Research Limited, Canada

Electrowinning

Developments in Nickel Electrowinning Cellhouse Design

By Tim Robinson, CTI Ancor, USA and Mark Weatherseed, CTI Pacific Pty Ltd, Australia

Eero Tuuppa, Outokumpu Technology, Finland and Ed Heyting, ProMet Engineers Pty Ltd, Aust.

Water Treatment

Lowering the Cost of Ownership of Reverse Osmosis Plants for Nickel Recovery Operations Py Noil Wondo, Octoob Engineering, Australia

By Neil Wende, Occtech Engineering, Australia

Materials of Construction

Qualification of Explosion-Bonded Ti-Ru Alloy Clad Steel Plate for Pressure Acid Leach Process Equipment

By J G Banker, DMC Clad Metal Div and R W Schutz, RMI Titanium Co, USA

A Nobili, DMC Nobelclad Div, France

Selection of Reliable Ceramic Pressure Vessel Grade "PVG" Lining Systems

By Robert Storms and David Malone

The Stebbins Engineering and Manufacturing Company, USA

Rob Aliasso, Stebbins, Africa and Joe van der Merwe, Stebbins, Australia

Sulphide Projects

Independent Nickel Sulphide Producers – Profitable Subsector of the Australian Resources Market

By David Moore, Mincor Resources NL, Australia

Browns: Lead Hydrometallurgy as an Alternative to Lead Smelting for Polymetallic Ores

By George Macdonald, Compass Resources NL

Rodney D Elvish, Consultant Metallurgist to Compass Resources NL, Australia

Suphide Processes

BioHeap™ Leach of a Primary Nickel-Copper Sulphide Ore

By Colin Hunter, Titan Resources NL, Australia

The Mineral Processing and Industrial Nitrogen Species Catalyzed Pressure Leach Plant Treatment of Formation Capital Corporation's Colbaltite and Chalcopyrite Concentrates
By Corby G Anderson, The Center for Advanced Mineral and Metallurgical Processing, USA
Extraction of Copper, Nickel and Cobalt from Autoclave Oxidizing Leaching Solutions of UG-2
Flotation Concentrates

By A V Tatarnikov, L A Machinskaya, L I Sokalskaja, A V Kasiyanikov and A M Provorova ARRI of Chemical Technology, Russia

Application of "Non-Oxidising" Pressure Leach as a Key Stage for Reduction of Sodium Sulphate Production in Ni/Cu Matte Refining

By Z Hofirek, Anglo Platinum Ltd, South Africia