

Nickel-Cobalt-Copper Contents

Sponsored by



Day 1	Page
Keynote Address: <u>Heap Leaching – Low Cost, Low CO2 Technology for Recovering Nickel And Cobalt Products from Laterite Ores</u> Anne Oxley, <i>Brazilian Nickel, UK</i>	1
<u>Kabanga Nickel – The Role of Hydrometallurgy in Unlocking a World-Class Asset for Low-Emissions Green Metals Production</u> Mike Adams, <i>Lifefone Limited, Isle of Man</i>	16
<u>Carbon Negative Nickel and Cobalt Production from Nickel Saprolite Ores</u> David Dreisinger, <i>Atlas Materials, USA</i>	26
<u>Copper and Cobalt Recovery from Old Flotation Tailings</u> Pavel Spiridonov, <i>InnovEco, Australia</i>	39
<u>Cobalt Blue’s Broken Hill Demonstration Plant – Second Update on The COB Process Development</u> Andrew Tong, <i>Cobalt Blue, Australia</i>	51
<u>Bioextraction as an Alternative for Traditional Mineral Processing – An Economic and Environmental Game Changer</u> Renee Grogan, <i>Impossible Metals, Australia</i>	62
<u>Recovery of Cobalt with Acidic and Amine-Based Extractants from Hydrometallurgical Plant Side Stream</u> Mohammedreza Arefzadeh, <i>LUT University, Finland</i>	69
<u>Speciation Assays for Ni and Co Ores</u> Frank Trask, <i>Mining and Process Solutions, Australia</i>	77
<u>The Radflow Thickener Feedwell: Redefining Thickener Sizing and Flocculant Usage</u> Alexei Krassnokutski, <i>Krassno Consulting, South Africa</i>	87
<u>Reductive Percolation Leaching of Low-Grade Copper-Cobalt Ore Part 1: Sodium Sulphite as Reducing Agent</u> Mpumelelo Ndhilose, <i>Mintek, South Africa</i>	104
<u>Reductive Percolation Leaching of Low-Grade Copper-Cobalt Ore Part 2: Ferrous Ion as Reducing Agent</u> Nontobeko Nxumalo, <i>Mintek, South Africa</i>	114

Day 2	Page
<p><u>Technical Challenges of Mixers and Settlers Operating in Copper Solvent Extraction Plants of the Democratic Republic of Congo</u> Godfrey Mitshabu, BASF South Africa</p>	124
<p><u>SX Circuit, Crud Treatment, Concentration-Dependent Pond Depth Adjustment for Decanter Centrifuges, DControl</u> Tore Hartmann, GEA Westfalia Separator Group GmbH, Germany</p>	132
<p><u>Filter Cake Desaturation: A Laboratory-Scale Study of Two Copper Sulphide Flotation Tailings Slurries Dewatered in A Filter Press</u> Andrew Hawkey, Diemme Filtration, Australia</p>	139
<p><u>Interdisciplinary Problem Solving for Hydrometallurgy</u> Robert Mock, NOVA Hydromet, Canada</p>	149
<p><u>The Weakest Link is Often of The Least Concern</u> Corin Holmes: Jenike & Johanson, Australia</p>	159
<p><u>ICSG and Copper Market Transparency: Lessons Learned in 2007-2022 and Challenges for 2023 – 2030</u> Carlos Risopatron, International Copper Study Group, Portugal</p>	169
<p><u>A Novel Treatment Approach for Copper Ores Based on Glutamate Leaching</u> Carlos G. Perea S, Universidad de Chile, Chile</p>	226
<p><u>Copper leaching Using Glycine Leaching Technology</u> Elsayed Oraby, Mining and Process Solutions, Australia</p>	236
<p><u>Loop Hydrometallurgy: Copper Made Green</u> Dave Sammut, Loop Hydrometallurgy, Australia</p>	249

Day 3	Page
<u>The Potential of Waste Pyrrhotites In Addressing Sustainability – Replacing Oil Industry Sulphur and Carbon</u> Mike Dry, Arithmetek, Canada	260
<u>Production of Metal-Nickel-Cobalt-Manganese Mixtures with Tailored Compositions from Cobalt-Rich Lithium-ion Battery Leachates by Solvent Extraction</u> Niklas Jantunen, LUT University, Finland	274
<u>The production of Battery Grade Nickel Sulphate from Varying Feed Sources</u> Nipen Shah, JordProxa, Australia	285
<u>Longest Range Products for Metal Recycling</u> Chiara Francesca Carrozza, Italmatch Chemicals Spa, Italy	298
<u>2023 Update on the Terrafame Nickel Operation</u> Anti Arpalahti, Terrafame Ltd, Finland	309
<u>Update on Meta Nickel Gordes Operation</u> Orhan Yilmaz, Meta Nickel, Turkey	317
<u>Incorporation of Black Mass Recycling into A Hydrometallurgical Refinery</u> Adam Fischmann, Clean TeQ Water, Australia	336
<u>Detail Design of a Novel Leach Circuit for the Tech Project</u> Wolfgang Keller, EKATO RMT, Germany	352
<u>Western Australian PCAM Hub – Refining the Future with PBT’s NMC DirectTM</u> Will Hawker, Pure Battery Technologies, Australia	364
<u>Lithium-ion-Battery Recycling from EV Using Pyrometallurgical and Hydrometallurgical Process Combinations</u> Toshihiko Nagakura, Sumitomo Metal Mining Co, Japan	373