

About ALTA 2016

ALTA 2016 is the 21st year of one of the world's premier annual metallurgical events, typically attracting 200-300 attendees from 20+ countries. The conference is an annual gathering of the global Nickel, Cobalt, Copper, Uranium-REE and Gold-PM industries and features highly focused programs, topical forums and presentations by key international speakers. Held over eight days at Pan Pacific Perth, it comprises three technical conferences, three short courses, networking functions and an international trade exhibition.

This conference is an outstanding platform for exposing the latest worldwide developments in plant operations, process technology, new projects, testwork & scale-up, process modelling & control systems, application of mineralogy & geometallurgy, research & development, equipment, reagents, materials, tailings disposal and environmental alleviation. The event provides an excellent opportunity to network with a wide variety of key industry professionals and showcase products and services to decision-makers in the pertinent field.

78 papers from 23 countries [View Detailed Program and Abstracts](#)

Attendees from 25 Countries [View Attending Organisations](#)

PROGRAM OVERVIEW							
Saturday 21 May	Sunday 22 May	Monday 23 May	Tuesday 24 May	Wednesday 25 May	Thursday 26 May	Friday 27 May	Saturday 28 May
SHORT COURSE	SHORT COURSE	CONFERENCE SESSIONS				SHORT COURSE	
The A-Z of Copper Ore Leaching	Solvent Extraction and its Application to Copper, Uranium & Nickel-Cobalt	Nickel-Cobalt-Copper <i>Including Hydromet Processing of Sulphides Forum & Panel</i>			Uranium-REE <i>Including Membranes in Uranium Ore Processing Forum & Panel</i> <i>in parallel with</i> Gold-PM <i>Including Refractory Gold Ores Forum & Panel</i>		Uranium Ore Processing
EXHIBITION							
		Welcome Reception	Conference Dinner		Happy Hour		

Participation

Present

- 50% discount off registration fees (one per paper).
- Network with other presenters at the Presenter Breakfast.
- Generous 30-minute timeslots.
- Opportunity to update papers after the conference prior to distribution of final proceedings.

Sponsor

- Outstanding promotional opportunities including networking functions and conference merchandise.
- Includes one complimentary registration to the associated event/s and discount fees for additional staff.
- Sponsor logo and link on conference website, viewed annually by 35,000 visitors from 150+ countries.

Exhibit

- Exhibition open to external visitors, with free entry during visitor hours.
- Includes one complimentary registration to the associated event/s and discount fees for additional staff.
- Exhibitor logo and link on conference website; viewed annually by 35,000 visitors from 150+ countries.

Attend

- Three international conferences in one week. Flexible registration structure.
- Three pre and post conference technical short courses.
- Networking functions.

Keynote Speakers

Nickel-Cobalt-Copper

Ken Baxter, VP Technology; Director of Hydrometallurgy, SNC-Lavalin Group (Australia)

"Are We Any Closer to Hydromet Overtaking Smelting for Copper Sulphide Concentrates"

Gold-PM

Dr Yeonuk Choi, Senior Manager, Strategic Technology Solutions, Barrick Gold Corporation (Canada)

"Selecting the Best Process for the Treatment of a Refractory Gold Ore - Barrick's Experience"

Dinner Address

Alan Taylor, Managing Director, ALTA Metallurgical Services (Australia)

"Necessity is the Mother of Invention"

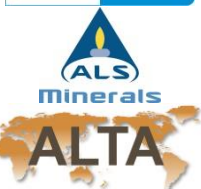
Sponsors



Exhibitors



Johnson Matthey



[Sponsor & Exhibitor Opportunities](#)

Thank you to our Co-Sponsors/Partners



Contact

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Detailed Program Now Available

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Nickel-Cobalt-Copper Sessions

AMS Technologies	Israel	Nano-Filtration Technology for Electrolyte Treatment
ALS Metallurgy/Hermann Scriba	Australia	Establishment of a 1 TPD HPAL Pilot Plant at ALS Metallurgy
ALTA Metallurgical Services (Dinner Address)	Australia	Necessity is The Mother of Invention
Andritz Separation	Australia/France/ Austria	Decanter Centrifuges for Sulphide Leaching Applications
Arithmetek	Canada	Technical & Cost Comparison of Laterite Treatment Processes: Part 4 - Hydroxide to Metal
Beijing General Research Institute of Mining and Metallurgy (BGRIMM)	China	Study on the Reductive Leaching of the Seabed Co-Mn Polymetallic Ore with CO and Ammonia
Cornell University	USA	Metallurgical Test Work and Process Modeling for Copper In Situ Leaching
Copperbelt University	Zambia	Recovery of Copper from Nkana Flotation Tailings
Core Resources	Australia	The Toowong Process: Developing a Viable Solution for Copper's Dirty Problem
CSIRO Mineral Resources	Australia	Recovery of Nickel and Cobalt Directly from Leach Solutions Containing Iron and Aluminium Using a New DSX Process
CSIRO Mineral Resources/Murrin Murrin Operations	Australia	CSIRO Drag Reduction Technology for Improved Slurry Pumping - An Industrial Trial at Glencore's Murrin Murrin Operations Pty. Ltd.
CSIRO Mineral Resources	Australia	Factors Affecting the Ranking of Deposits for Potential In-Situ Processing
Curtin University	Australia	Leaching of Chalcopyrite Concentrates with Alkaline Glycine Solutions
ExxonMobil Chemical Asia Pacific	Singapore	Escaid™ 110 Diluent - Meeting The Evolving Needs of The Mining Industry
General Research Institute for Non-Ferrous Metals (GRINM)	China	Separation and Recycle of Heavy Metals from Waste Water of Zinc Hydrometallurgy Using Synergic Solvent Extraction
GRINM/Central Asia Huajin Hami Yan Xin Copper Company	China	Metallurgical Studies and Pilot Plant Tests to Evaluate Low-Grade Copper Oxide Ores for Heap Leaching at the Tuwu Copper Mine in the Gobi Desert, Xinjiang China
InCoR Technologies	Canada	The Starved Acid Leaching Technology (SALT) for Nickel Recovery from Saprolites
InnovEco Australia/Oryxeo Ingeniería	Australia/Chile	The RIMM Process - An Advanced Metal Extraction Method
Johnson Matthey	UK	Selective Removal of Copper from Acid Mine Drainage
Mike Miller Consultancy Services	Australia	Optimising the Utilisation of Caustic Calcined Magnesia in a Hydrometallurgical Application
Mintek/Mondo Minerals /P Met Consulting/Stephen Barnett	South Africa/ Finland/UK	The Mondo Minerals Nickel Sulfide Bioleach Project: Construction, Commissioning and Early Plant Operation
Mworx/GME Resources	Australia	Ni Laterite Heap Leach PLS Neutralisation and Fe/Al Precipitation
NMR360	Canada	Innovation, Sustainability and the Future of Metals Extraction (<i>double slot</i>)
NobelClad	USA	Explosion Welding in the Hydromet Industry
Oz Minerals/Orway Mineral Consultants	Australia	Removal of Impurities from Copper Sulphide Mineral Concentrates
Perpetual Technologies	Canada	Novel Nanostructured Coating and Other New Developments for Ni/Co HPAL & POx Ball Valve Applications
ProProcess Engineering/ University of Lubumbashi/First Quantum Minerals	South Africa/ DRC/Spain	CRUD FORX™ - Advance in Solvent Extraction Crud Management Technology
SNC-Lavalin/Sherritt International/Ambatovy	Australia/Canada/ Madagascar	Completing The Ambatovy Ramp-Up: The Road to Successful Financial Completion
SNC-Lavalin (NCC Keynote)	Australia	Are We Any Closer to Hydromet Overtaking Smelting for Copper Sulphide Concentrates?
SPX Flow, Inc. (LIGHTNIN)	USA	The Effect of Impeller Design on Phase Separation Efficiency for Solvent Extraction Auxiliary Tanks
SRC Hydrometallurgy	Russia	Pressure Oxidation Process Development for Treating Complex Sulfide Copper Materials
Westen Areas/BioHeap	Australia	BioHeap® - Cosmic Boy Mill Recovery Enhancement Project. An Update
Unable to present but included in proceedings		
Protec Group	Canada	Effective Fire Extinguishment in Settlers & Tanks in SX
MetaLeach/Alexander Mining	Australia/UK	AmmLeach™, A New Paradigm in Copper-Cobalt Processing

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Uranium-REE Sessions

ALTA Metallurgical Services	Australia	Developments in Uranium Extraction and Recovery Technology
ALTA Metallurgical Services	Australia	So You Have Found a Uranium Deposit - Now What?
Advanced Membrane Separation (AMS) Technologies	Israel	Nano-Filtration Technology in Optimizing Uranium Process Efficiency
ANSTO Minerals	Australia	Applications of Nanofiltration in Hydrometallurgy
ANSTO Minerals	Australia	Application of Mixed Phosphonic/phosphinic Reagents for Separation of Rare Earths
BMS Engineers/Paladin Energy	Australia	Paladin Energy Ltd - Nano-Filtration Technology for Reagent Recovery
Clean TeQ	Australia	Syerston Scandium Project: Long term Sustainable Scandium Supply using Clean TeQ's Continuous Resin-in-Pulp Technology
CSIRO Mineral Resources	Australia	New Solvent Extraction System for Uranium Recovery Extraction from Leach Solutions Based on Seawater Usage
Dow Water & Process Solutions	Netherlands	Acid Recovery from Uranium Eluates Using Ion Exchange Resin
GE Water & Process Technologies	USA	Process Membranes Applied in the Mining Industry
Greenland Minerals & Energy	Australia	Kvanefjeld Refinery Pilot Plant Operations
Lithium Australia	Australia	The Sileach™ Process - Lithium Recovery from Silicates, Without Roasting
MEAB Chemie Technik	Germany	Recovery of Rare Earth Elements and Scandium From European Deposits by Solvent Extraction
MEAB Chemie Technik/RWTH Aachen	Germany	Recovery of Scandium from Bauxite Residue by Selective Precipitation from Leach Solutions
Mineral Engineering Technical Services (METS)	Australia	Beneficiation of Spodumene Ore into a Concentrate and Further Processing to Produce Battery Grade Lithium Carbonate
Mintek	South Africa	Process Developments for Recovery of Uranium and Molybdenum in Karoo Sandstone Deposit via Sulphuric Acid Leaching
Murdoch University	Australia	Extraction of Uranium from Brannerite
Project & Process Development	Australia	Development of Roasting Plant Configurations to Improve Economics and Operability of Rare Earth Roasting Circuits
SGS Canada/MetNetH2O/SJ Mets Consultants	Canada/Australia	Commissioning of a Mini REE SX Pilot Plant at SGS Minerals Services – Lakefield Site
Université de Lorraine/AREVA Mines	France	Evolution of Structural and Physical Properties of Uranium-Ore Agglomerates During Heap Leaching
University of Manchester/University of Sheffield	UK	Polyamine Functionalised Chelation Ion Exchange Resins for Uranium Extraction
Vimy Resources	Australia	Process Development for the Mulga Rock Project
Unable to present but included in proceedings		
Advanced Membrane Separation (AMS) Technologies	Israel	Nano-Filtration Technology in Optimizing Uranium Process Efficiency
Zewail City for Science & Technology/Nuclear Material Authority/Cairo University	Egypt	Egyptian Monazite Digestion by Sulphuric Acid Process; Separation of Thorium

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Gold-PM Sessions

Aalto University	Finland	Cyanide-Free Future of Gold Process Selection
Arithmetek	Canada	A Preliminary Evaluation of Alkaline Glycine as an Alternative to Cyanide for Gold Extraction
Barrick Gold Corporation (GPM Keynote)	Canada	Selecting the Best Process for the Treatment of a Refractory Gold Ore - Barrick's Experience
CSIRO Mineral Resources /Curtin University/Nalco Champion	Australia	Autogenous Thiosulfate Generation and Leaching of Gold from Refractory Sulfide Concentrates
CSIRO Mineral Resources /Murdoch University	Australia	Catalysed Dissolution of Gold in Oxygen-Thiosulfate System
Curtin University	Australia	Applications of Advanced Analytical and Mass Spectrometry Techniques to the Characterisation of Refractory Gold Ores
Curtin University	Australia	Glycine-Cyanide Synergies in the Leaching of Copper-Gold Ores and Concentrates
Curtin University	Australia	A New Leach System of Base and Precious Metals Recovery from E-Waste
EKATO Corporation	Germany	Next Generation of Agitators for Processing Abrasive Ores
Gekko Systems/Castlemaine Goldfields	Australia	Operating Experience and Developments of G-Rex and Aurix100 Resin Exchange Technology
Israel Chemicals/Tenova Bateman Technologies/Barrick Gold Corporation	Israel/Canada	Development of a Self-Contained Bromine/Bromide Process for Leaching and Recovery of Gold from Gold Ores
Johnson Matthey	UK	Selective Removal of Mercury from Gold Mining
Mineral Engineering Technical Services (METS)	Australia	Processing High Clay Gold Ores
Mintek	South Africa	Gold Losses into Pressure Oxidation Leach Liquor: Myth or Reality?
Mintek	South Africa	Arsenic During Pressure Oxidation of Refractory Gold Ores and its Behavior in Downstream Processing
Orica	Australia	Real World Application of a Gold Leaching and Reagent Consumption Model to Optimise CIP/CIL Process Profitability
Outotec	Finland	Online Analysis Solutions for Gold Beneficiation
Outotec	China/Australia/ Finland/Germany/ South Africa	Outotec Refractory Gold Technologies; Comparison and Discussion of Different Pre-Treatment Methods
Resolute Mining/ Professional Cost Consultants (PCC)	Australia	Syama Expansion Project – Creating Value and Sharing with our Stakeholders
SRC Hydrometallurgy	Russia	The Use of Special Additives to Inhibit Preg-Robbing of Gold in the Process of Double Refractory Concentrates Pressure Oxidation
University of British Columbia/Barrick Gold Corporation	Canada	Role of Polythionates on the Stability of Gold in the Leaching of Double Refractory Ores in the Calcium Thiosulfate-Air Leaching System
University of Dodoma	Tanzania	Small-Scale Gold Mining in Tanzania: Past, Present and Future

Register Now

Conference

	Ni-Co-Cu 23-25 May	U-REE/G-PM 26-27 May	Full Week 23-27 May
Standard	\$2300	\$1600	\$3500
TMS/SAIMM Members	\$2200	\$1500	\$3300
3+ Delegates (per delegate)	\$2100	\$1400	\$3100
Young Professional (32 years & under)	\$1600	\$1100	\$2450
Sole Consultant/Unemployed/Retired	\$1150	\$800	\$1750
Presenter (1 per paper)	\$1150	\$800	\$2450
Presenter - Sole Consultant/Unemployed/Retired (1 per paper)	\$575	\$400	\$1225
Exhibitor/Sponsor (complimentary)	\$0	\$0	\$0
Exhibitor/Sponsor (additional delegates)	\$2000	\$1300	\$3000
Booth Support Staff (excludes technical sessions)	\$400	\$300	\$625
Student (conditions apply)	\$700	\$500	\$1000

Short Courses

	A-Z of Copper Ore Leaching Saturday 21 May	SX & its Application to Copper, Uranium & Nickel-Cobalt Sunday 22 May	Uranium Ore Processing Saturday 28 May
Standard	\$800	\$800	\$800
TMS/SAIMM Member	\$750	\$750	\$750
3+ Delegates (per delegate)	\$750	\$750	\$750
Young Professional (32 years & under)	\$550	\$550	\$550
Sole Consultant/Unemployed/Retired	\$400	\$400	\$400
Presenter	\$750	\$750	\$750
Exhibitor/Sponsor	\$750	\$750	\$750
Student (conditions apply)	\$250	\$250	\$250

Networking Functions

	Welcome Reception Monday 23 May	Conference Dinner Tuesday 24 May	Happy Hour Thursday 26 May
Delegate - Full Week	\$0	\$130	\$0
Delegate - Nickel-Cobalt-Copper	\$0	\$130	\$45
Delegate - U-REE/Gold-PM	\$60	\$130	\$0
Additional Tickets	\$60	\$130	\$45

Contact

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