

Conference Brochure

#ALTA2018



ALTA 2018

**Nickel-Cobalt-Copper
Uranium-REE-Lithium
and Gold-PM**

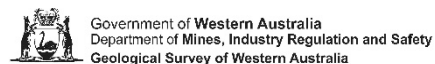
Conference & Exhibition
and In Situ Recovery (ISR) Symposium

19-26 May 2018

Pan Pacific Hotel, Perth, Australia

◆ 23rd annual event ◆

Thank you to our Co-Sponsors and Partners



www.altamet.com.au

About the Conference

ALTA 2018 is one of the world's premier annual metallurgical events, now in its **23rd year**, and a leading platform for metallurgical innovation.

The Uranium-REE-Lithium sessions and Uranium Ore Processing short course are organised in cooperation with the **International Atomic Energy Agency (IAEA)**. The In Situ Recovery (ISR) Symposium is organised in partnership with **CSIRO Minerals**.

Held over eight days in Perth, it comprises three technical conferences, three short courses, and an international trade exhibition. It features highly-focused programs, topical forums and presentations by key international speakers.

The emphasis of the program is practical rather than academic, and the theme that runs through the conference is the various aspects of project development.

This event is an outstanding platform for exposing the latest worldwide developments in plant operations, process technology, new projects, testwork and scale-up, process modelling and control systems, application of mineralogy and geometallurgy, R&D, equipment, reagents, materials, tailings disposal and environmental alleviation.

Don't miss this annual gathering of the global nickel, cobalt, copper, uranium, rare earths, lithium, ISR, gold and precious metals industries.

ALTA is even **bigger** this year with the addition of a new event organised in partnership with **CSIRO**. The first **ALTA In Situ Recovery (ISR) Symposium** will be held on Wednesday 23 May

ALTA is proud to present another high-quality technical event for the metallurgical industry, including **100 papers from 27 countries**.

[Download Program](#)

[View Abstracts](#)

[Register *HERE*](#)

| PROGRAM OVERVIEW | | | | | | | |
|----------------------------|---|--|-------------------|--|--|------------------|------------------------|
| Saturday 19 May | Sunday 20 May | Monday 21 May | Tuesday 22 May | Wednesday 23 May | Thursday 24 May | Friday 25 May | Saturday 26 May |
| SHORT COURSE | SHORT COURSE | CONFERENCE SESSIONS | | | | | SHORT COURSE |
| A-Z of Copper Ore Leaching | SX and its Application to Copper, Uranium & Nickel-Cobalt | Nickel-Cobalt-Copper Including Hydromet Processing of Copper, Nickel & Cobalt Sulphides Forum & Panel | | In Situ Recovery (ISR) Symposium <i>in parallel with NCC Sessions</i> | Uranium-REE-Lithium Including Lithium Processing Forum & Panel <i>in parallel with</i> Gold-PM Including Refractory & Complex Gold Ores Forum & Panel | | Uranium Ore Processing |
| | | Welcome Reception | Conference Dinner | | Happy Hour | | |
| EXHIBITION | | | | | | | |

Opportunities for Participation

Present

- 50% discount off registration fees (one per paper) - 75% discount for sole consultant presenters.
- 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.

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.

Attend

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

Keynote and Opening Speakers

Conference Opening Address

Dr Stephen Grocott, Chair, AMIRA International Ltd and Chief Technical Development Officer, Clean TeQ Limited (Australia)
What Is Changing in the Global Minerals Industry - Delivering Value by Leveraging Resources [View Abstract](#)

Nickel-Cobalt-Copper Keynote

Dr Kathy Sole, Kathryn C. Sole Consulting (South Africa); *co-authored by John Parker*, Process Ideas (South Africa); **Peter Cole**, Peter Cole Metallurgical Services (South Africa); Michael B. Mooiman, Franklin Pierce University, (USA)
Flowsheet Options for Cobalt Recovery in African Copper-Cobalt Hydrometallurgy Circuits [View Abstract](#)

In Situ Recovery (ISR) Keynote

Mr Wayne Heili, Managing Director and CEO, Peninsula Energy Limited (USA)
Key Lessons Learned from the Application of ISR to Uranium [View Abstract](#)

Uranium-REE-Lithium Opening Address

Dr Brett Moldovan, Uranium Production Specialist, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy, International Atomic Energy Agency (IAEA) (Austria)
The Challenges of Operating a Uranium Mill in the Modern Era [View Abstract](#)

Uranium-REE-Lithium Keynote

Dr Julian Hilton, Chairman, Aleff Group (UK)
Constructive disruption: Leveraging Key Intangibles for Smarter Uranium Projects [View Abstract](#)

Gold-PM Keynote

Dr James Wang, Deputy Executive Director, State Key Laboratory of Comprehensive Utilization of Low Grade and Refractory Gold Ores, Zijin Mining Group (China)
Treatment of Refractory Gold Ores in China [View Abstract](#)

Dinner Address

Mr Alan Taylor, Metallurgical Consultant/Managing Director, ALTA Metallurgical Services (Australia)
A Metallurgist's Musings, Speculations and What-ifs on Future Industry Driving Forces and Trends

Associated Events

In Situ Recovery (ISR) Symposium

Focussed 1-day **ISR Symposium** to be **organised in partnership with CSIRO Minerals**. The Symposium will be held Wednesday 23 May, and follows on from the three previous ISR events organised by CSIRO. [More information](#)

Short Courses

These practically-oriented technical short courses are both a valuable introduction for newcomers and a useful refresher for old hands.

A-Z of Copper Ore Leaching (Saturday 19 May) [Course Outline](#)

SX and its Application to Copper, Uranium & Nickel-Cobalt (Sunday 20 May) [Course Outline](#)

Uranium Ore Processing (Saturday 26 May) [Course Outline](#)
Organised in cooperation with the International Atomic Energy Agency (IAEA)

EXHIBITION AND SPONSORSHIP

ALTA conferences are well-known for providing exceptional opportunities for the industry to share ideas, innovations, technologies and projects, and develop new contacts and broader networks.

ALTA 2018 offers a variety of promotional opportunities to suit a range of budget and business needs. This unique event will be an outstanding platform to promote your latest developments in equipment, supplies, materials, technology and services. During the conference gain direct access to senior level participants through enhanced visibility and exposure. Before, during and after the conference, sponsors and exhibitors receive ongoing exposure via ALTA's website.

For more information, view [Sponsor and Exhibitor Packages](#) or contact [Allison Taylor](#)

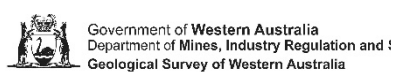
Sponsors



Exhibitors



Co-Sponsors and Partners



Register *HERE*

Conference Fees

| | Ni-Co-Cu (includes ISR) 21-23 May | ISR Symposium (only) 23 May | Uranium-REE-Li <i>and</i> Gold-PM 24-25 May | Full Week (includes ISR) 21-25 May |
|--|---|-----------------------------------|---|--|
| Early Bird (ends 28 February) | \$2200 | \$700 | \$1500 | \$3300 |
| Standard | \$2300 | \$750 | \$1600 | \$3500 |
| TMS and SAIMM Members | \$2200 | \$700 | \$1500 | \$3300 |
| 3+ Delegates (per delegate) | \$2100 | \$700 | \$1400 | \$3100 |
| Young Professional (32 years & under) | \$1600 | \$525 | \$1100 | \$2450 |
| Sole Consultant/Unemployed/Retired | \$1150 | \$375 | \$800 | \$1750 |
| Presenter (1 per paper) | \$1150 | \$375 | \$800 | \$2450 |
| Presenter - Sole Consultant/ Unemployed/Retired (1 per paper) | \$575 | \$375 | \$400 | \$1225 |
| Exhibitor/Sponsor (included in package) | \$0 | \$0 | \$0 | \$0 |
| Exhibitor/Sponsor (additional delegates) | \$2000 | \$700 | \$1300 | \$3000 |
| Booth Support Staff (excludes sessions) | \$400 | - | \$300 | \$625 |
| Student (conditions apply) | \$700 | \$250 | \$500 | \$1000 |

Short Courses

| | A-Z of Copper Ore Leaching Sat, 19 May | SX & its Application to Cu, U and Ni-Co Sun, 20 May | Uranium Ore Processing Sat, 26 May |
|--|--|---|--|
| Early Bird (ends 28 February) | \$750 | \$750 | \$750 |
| Standard | \$800 | \$800 | \$800 |
| TMS and SAIMM Members | \$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 |

Social Functions

| | Welcome Reception Monday 21 May | Conference Dinner Tuesday 22 May | Happy Hour Thursday 24 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 |



ALTA Metallurgical Services

Celebrating 32 Years of Service

ALTA Metallurgical Services (**ALTA**) was established by metallurgical consultant **Alan Taylor** in 1985, to serve the worldwide mining, minerals and metallurgical industries. **ALTA** offers a wide range of services and resources to the metallurgical industry.

Consulting

High-level metallurgical and project development consulting.

Short Courses

Practically-oriented short courses presented by Alan Taylor. Topics include treatment of nickel laterites, copper ore leaching, uranium ore processing, copper SX-EW, heap leaching and solvent extraction.

Conferences

ALTA conferences are one of the world's premier annual metallurgical events. **ALTA 2018** is the 23rd annual conference and will be held 19-26 May in Perth, Australia. The event comprises three technical conferences, three short courses and an international trade exhibition. It features a highly-focused program, topical forums and presentations from key international speakers.

Publications

Proceedings and manuals from ALTA conferences, seminars and short courses.

MetBytes

Free technical articles offering metallurgical commentary and insights.

Free Library

Includes proceedings from 1995-2016 Nickel-Cobalt-Copper, Uranium-REE and Gold-PM conferences for free download (1340 papers). A selection of ALTA 2017 papers is also available. The library will be expanded regularly, providing a major ongoing resource to the industry.



Alan has 40+ years' experience in the metallurgical, mineral and chemical processing industries in Australasia, New Zealand, North and South America, Africa, Asia and Europe. He has worked in metallurgical consulting, project development, engineering/construction, plant operations, plant start-up and technology development. Projects and studies have involved copper, gold/silver, nickel/cobalt, uranium and base metals.

Since 1985, as an independent metallurgical consultant, Alan has as undertaken feasibility studies, project assessment, project development, supervision of testwork, flowsheet development, basic engineering, supervision of detailed engineering, plant commissioning and peer reviews and audits. Clients have included a variety of major and junior mining, exploration and engineering companies throughout Australia and overseas.

| Extensive experience in: | ...including |
|--|---|
| <ul style="list-style-type: none">• Gold/Silver• Copper• Nickel/Cobalt• Uranium• Base Metals | <ul style="list-style-type: none">• Leaching: atmospheric, heap, in-place, bio. and pressure• Cyanidation and CIP/CIL• Solid/liquid separation• Flotation• Electrowinning and electrorefining• Solvent extraction/ion exchange |