

Argus Lithium, Cobalt and Nickel (LiCoNi) Markets and Investment 2017

Join us in Singapore, the heart of Asia, where miners, consumers and investors meet

12-13 September 2017 | Singapore

 **Senior - Level
Participants**
100+

 **International
Delegates**
200+

 **Investors
and Banks**
40+



Why you must attend

Demand for lithium, cobalt and nickel is growing strongly, driven by the booming Li-ion battery industry as well as the stainless steel and superalloy sectors.

As demand increases, supplies have tightened with consumers grappling with shortages and rising prices, amid political factors that are disrupting supplies in major exporting countries. A key question for consumers is whether there will be sufficient raw materials to support the growth in Li-ion demand.

With prices rallying to record highs, investment in the mining

sector is rising sharply, prompting more supplies across the globe to come on stream in the next few years.

Finance of new production is a key issue. Asia is the centre of the global Li-ion battery industry and it is increasingly the focus for capital-rich investors, such as funds, private equity firms and investment banks, as well as processors, looking to secure overseas supplies of raw materials through acquisitions.

This is an ideal opportunity for investors and the mining industry to meet to identify new investment opportunities

Key highlights

- Will there be sufficient raw materials to support the expected demand for Li-ion batteries?
- What will be the influence on other industries that use lithium cobalt and nickel? – superalloys, stainless steel, chemicals, cutting tools, ceramics and glass
- Should we be worried? - hedge funds and speculators are reported to have stockpiled nearly 20pc of global cobalt production
- How will game-changing innovations shape future demand? – cathode materials, EV, ESS, portable electronics and more
- What do the fundamentals tell us? – the current supply-demand balance in the lithium, cobalt and nickel markets
- Is political instability in the Democratic Republic of Congo and the issue of conflict minerals a threat to cobalt supplies?
- New production of lithium, cobalt and nickel – what is due on stream and when?
- Recycling of Li-ion batteries – what influence will it have on supplies?
- Substitution – how sensitive are applications to higher prices?
- Is there a need for an international index for lithium?

Event At a Glance

	Day 1 (12 September)	Day 2 (13 September)
Morning	<ul style="list-style-type: none"> • Lithium supply chain • Lithium junior mining Financing the lithium mining sector global forum: Asian investors and global projects	Nickel & cobalt supplies <ul style="list-style-type: none"> • Assessing mining policies in Indonesia and the Philippines • Global nickel supply picture • Global cobalt supply picture
Noon	Speed networking for mining and investors+ Lunch	Financing the nickel and cobalt mining and refining sectors Asian investors and global projects: Nickel & cobalt demand outlook from <ul style="list-style-type: none"> • Alloy sectors • Stainless steel sectors • Other growth markets
Afternoon	<ul style="list-style-type: none"> • Cathode material sector in China • Cathode material sector in Korea • China's domestic lithium supply and growth of LC producers • Key trends in global Li-ion battery technology • Game-changing innovations in EV • Evolving technologies in precursor and Li-ion battery anodes 	Lunch
Evening	Cocktail reception	End of conference 

Biographies of Speakers and Special Guests



Nigel Tunna, Vice President, Argus

Nigel Tunna has been involved with the metals industry since 1979 when he joined Cominco as a metals trader. He then worked with Sassoon Metals and Chemicals and China Industrial Resources before setting up his own trading company Rushmore. His experience covers base metals, ferro-alloys, minor metals and rare earths. In 1999 he started Metal-Pages to provide business intelligence to the metals industry. In 2014 he joined Argus Media following their acquisition of Metal-Pages. He is a former chairman of the Minor Metals Trade Association.



David Weight, President, The Cobalt Development Institute

David Weight has been involved with the metal mining industry for 36 years, having spent 20 years with the Zambian mining industry, where he was the chief executive of Zambia Consolidated Copper Mines before the industry was privatised. He then worked with Mitsui before moving to Anglo American and then insurance broker Jardine Lloyd Thompson. He is now president of the Cobalt Development Institute and director of the Cobalt Reach Consortium, which represents part of the global cobalt industry.



Xu Aidong, Secretary General, China Nonferrous Metals Industry Association Cobalt Branch

Ms. Xu spent her undergraduate period in the Metal Forming Department at Beijing University of Science and Technology from 1986-90, where she received a Bachelor's Degree. She spent the following three years as a postgraduate in the same Department, where she was awarded a Master's Degree.

Ms. Xu has been engaged mainly in metal market consulting, metal market investigation and research, and large-scale market conference organization, especially in the nickel and cobalt & stainless steel raw material fields



Gao Yuan, President & CEO, Pulead Technology Industry

A world-renowned inventor, Dr Yuan Gao has over 20 years of experience in the complete supply chain of the lithium-ion battery industry, from lithium extraction to batteries. One of his inventions, Ti/Mg technology, enables high-voltage lithium-ion batteries and is applied today in the vast majority of lithium-ion batteries in small portable electronics such as smart phones and tablets.

Dr Gao joined Pulead Technology in May 2014 and has been president and CEO since January 2015. He previously served as a corporate vice president at Molycorp (USA), and global marketing director and technology manager as well as other management positions at FMC Corporation (USA).

Dr Gao received his BSc from the University of Science and Technology of China, and his PhD in Physics from the University of British Columbia in Canada. He received his postdoc training at Professor Jeff Dahn's lab at Simon Fraser University. He has also received executive education from the Wharton Business School at the University of Pennsylvania in the US.



Mike Tamlin, Chief Operating Officer, Neometals

Mr Tamlin has more than 25 years' experience in the mining and smelting industry, with significant expertise in lithium, tantalum, vanadium, industrial minerals and chemicals. His 21 years of lithium experience covers the development of the China chemical market and global technical spodumene markets for the Greenbushes Mine, the Zhangjiagang Lithium Carbonate Project and the Rincon Brine Project.

He is now chief operating officer responsible for the development of Neometals' lithium business.

He has a strong track record in maximising commercial performance and developing and implementing strategy, and experience in the development of both hard rock and brine lithium projects, lithium supply negotiation, lithium markets and management at the executive level.



Alberto Migliucci, Chief executive and founder, Petra Commodities

Alberto Migliucci is chief executive and founder of Petra Commodities. He has 25 years' industry and finance experience within the mining, energy and oil and gas sectors. He was former managing director and head of mining and metals for Credit Suisse Investment Bank and the head of South East Asia Oil & Gas/Energy (Global Energy Group) in Asia. He has worked for Standard Bank of South Africa, where he was head of energy finance for Asia Pacific, and Societe Generale in Hong Kong, where he was a vice-president in the project finance and advisory team.



Mark Seddon, Senior Manager, Consulting (Metals), Argus

After a brief stint as a sugar trader, Mark spent 25 years in metals and minerals research including 2.5 years running his own company, Tungsten Market Research Ltd. He has travelled the world giving presentations and writing reports about metals no one has heard of.

Outside work, most of Mark's emotional energy is taken up dealing with two teenage children, Amber and Charlie. Amber is currently in her GCSE year, so stress levels are higher than usual.

He is an obsessive cyclist and likes nothing better than spending an early Sunday morning doing circuits of Richmond Park. Alternatively you might find him grinding his way up various mountains (Alps a speciality) or vainly pretending to be a pro on the Etape du Tour.

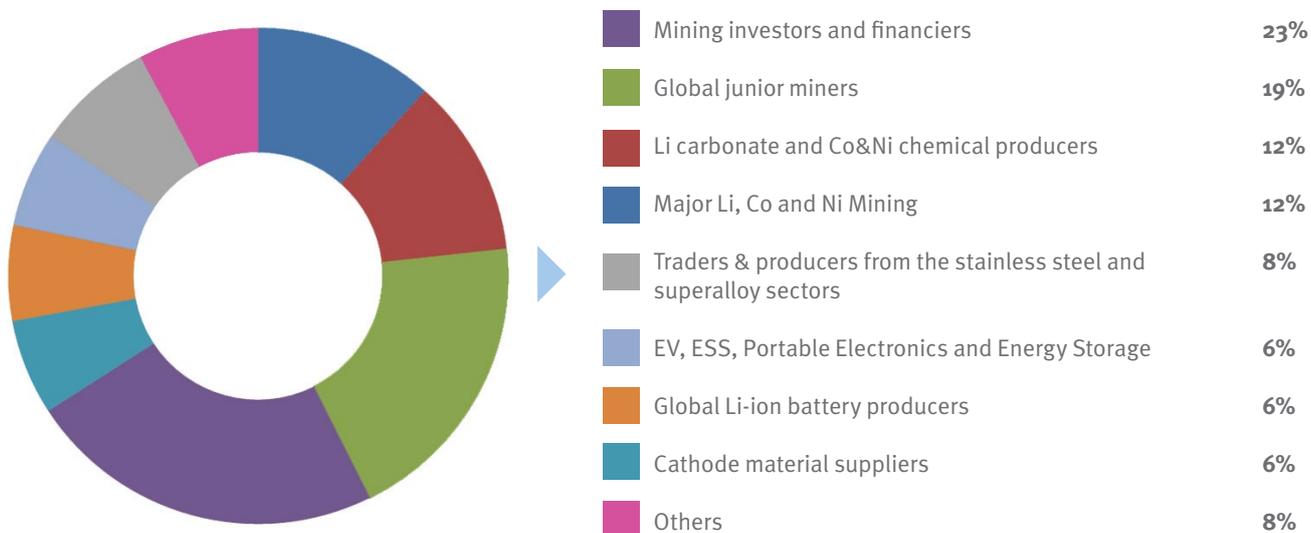


Vicky Zhao, Battery Metals market analyst, Argus

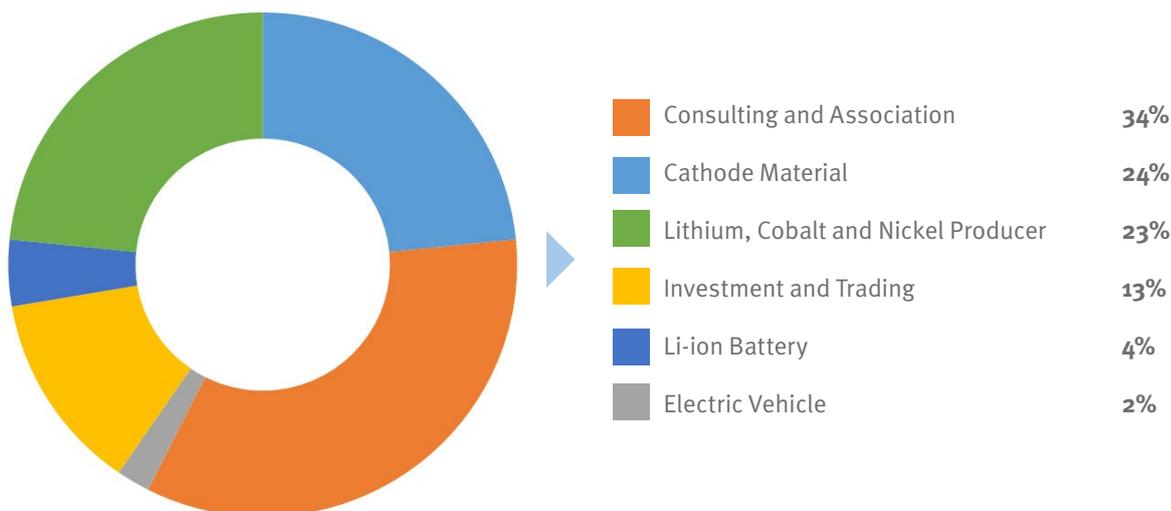
Vicky Zhao is an Argus analyst for battery metals, covering Chinese markets for nickel, cobalt and lithium. She is responsible for price assessments, news and analysis for the Chinese battery metals market. She is based in Beijing and joined Argus in 2013.

Attendee Profile

Argus Lithium, Cobalt and Nickel (LiCoNi) Markets and Investment conference 2017



China Metals Week 2016 in Beijing

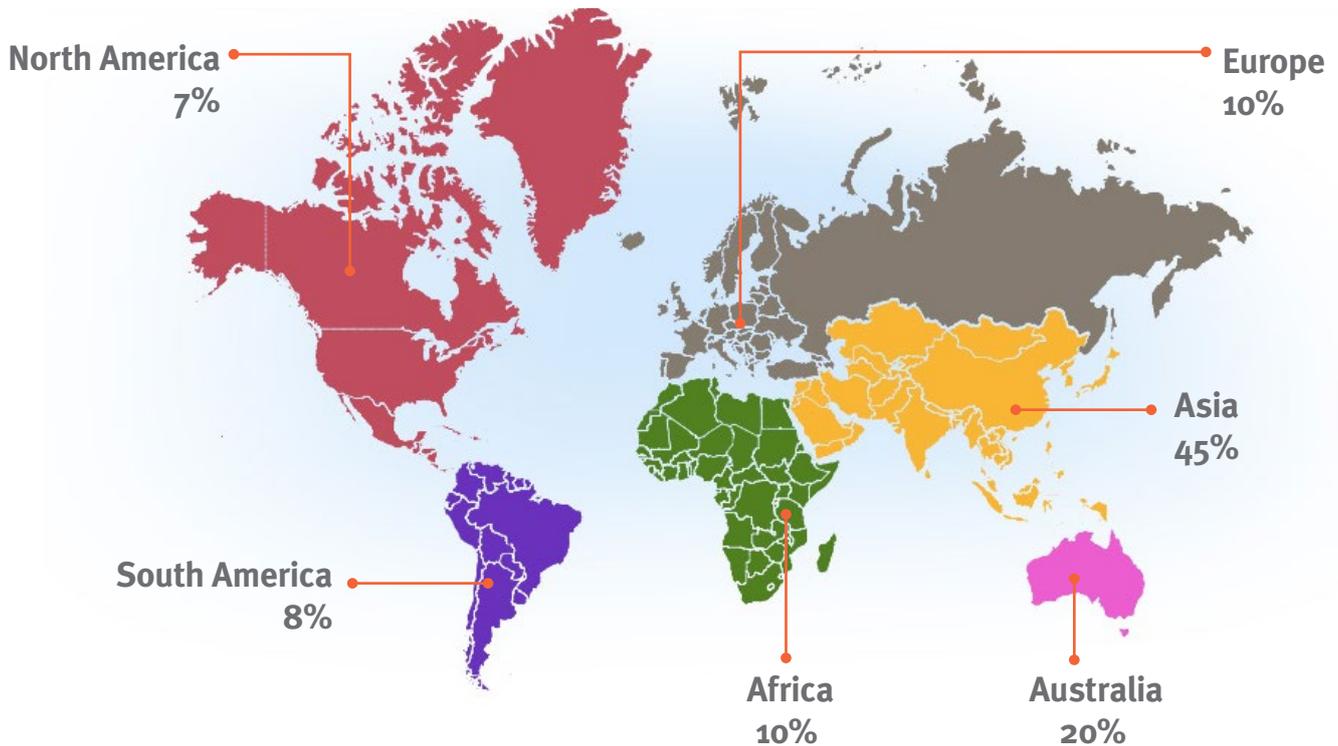


Who you will meet

- Major lithium, cobalt and nickel producers
- Lithium carbonate and cobalt & nickel chemical producers
- Traders and producers from the stainless steel and superalloy sectors
- Global junior miners
- Financial institutions and investors with an interest in the lithium sector – investment banks, Chinese lithium carbonate producers, private equity, funds & more
- Global cathode material producers
- Global Li-ion battery producers
- Electric vehicles, portable electronics and energy storage manufacturers
- Vendors and logistics

Delegate geographic breakdown

200+ International delegates are expected to participate in this conference



Why in Singapore?

Three countries in Asia — China, Japan and South Korea — are driving the growth in lithium, cobalt and nickel battery materials supplies to meet rapidly rising demand for Li-ion batteries.

Asia is a key region for the lithium market. China and Australia are major producers of lithium raw materials, while China, Korea and Japan have become the global centre for lithium chemicals and now account for 85% of global Li-ion battery production.

Singapore is one of the world's major commodity trading and financial hubs, with well-established connections to other financial centres in Hong Kong, mainland China and Australia – making it an ideal place for producers, consumers, traders and investors to meet to do business.

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08:00 - 09:00

Registration and welcome refreshments

09:00 - 09:05

Opening remarks

Nigel Tunna, Vice-President, Metals, **Argus**

Session 1: Global lithium markets and investments in the Li-ion battery supply chain

09:05 - 09:35

Outlook for the lithium metal markets

- What do the fundamentals tell us? – the current supply demand balance in the lithium markets
- Will there be sufficient raw materials to support the expected demand for Li-ion batteries?
- Is there a need for an international index for lithium?

Mark Seddon, Senior Manager, Consulting (Metals), **Argus**

09:35 - 09:40: Q&A

09:40 - 10:10

Insights into investments in the LiCoNi sectors

- Opportunities and risks in investment in junior mining for lithium, cobalt and nickel, as well as industries in the battery value chain (cathode, processing, EV etc)
- What investors are looking for – a walkthrough in investors' shoes

Alberto Migliucci, CEO & Founder, **Petra Commodities**

Session 2: Financing and developments in the lithium mining sector

10:10 - 10:25

Keynote panel discussion on investment in the battery metals sector

- Trends in M&A for the minor metals industry in Asia-Pacific
- Is the battery metals sector the right target for large funds?
- What are the key metrics to look at in the evaluation of LiCoNi investment projects?
- Why are Singapore and Australia important markets for capital funds?
- What is the make-up of a high-value mining project?

10:25 - 10:50

New production of lithium – what is due on stream and when?

10:50 - 10:55: Q&A

10:55 - 11:15: Morning refreshments

11:15 - 11:35

The role of new technology in lithium junior mining

11:35 - 11:40: Q&A

11:40 - 12:00

Project update on a new lithium mine

12:00 - 12:10: Q&A

12:10 - 12:30

Speed networking session for junior mining firms and investors

12:30 - 14:00: Networking lunch

Session 3: Trends and developments in the Li-ion downstream sectors

14:00 - 14:30

The current and future outlook for cathode material technology and its key elements in China

Gao Yuan, President & CEO, **Pulead Technology Industry**

14:30 - 15:00

Outlook for the cathode material industry in Asia outside China

15:00 - 15:10: Q&A

15:10 - 15:30: Afternoon refreshments

15:30 - 16:00

Pricing trends in Li Co Ni metals and chemicals in China

Vicky Zhao, Market Analyst for Battery Metals, **Argus**

16:00 - 16:20

Key trends in global Li-ion battery technology and applications

16:20 - 16:50

Outlook for growth of Asia's electric vehicles industry **How will game-changing innovations shape future demand? – cathode materials, EV, ESS, portable electronics and more**

16:50 - 17:00: Q&A

17:00 - 17:05

Chairman's closing remarks

17:30 - 20:00: Cocktail reception

08:30 - 09:00

Welcome Refreshments

Session 4: Global developments in nickel and cobalt supplies

09:00 - 09:05

Chairman's remarks

Nigel Tunna, Vice-President, **Metals, Argus**

09:05 - 09:35

An update on potential cobalt and nickel junior mining projects: key advantages and how technologies help cut costs and improve safety

09:35 - 09:40: Q&A

09:40 - 10:00

Cobalt blues – Challenges for a technology enabling metal

- Value proposition of the CDI
- Outline of the cobalt market
- Major challenges for cobalt in the marketplace
- How the CDI protects market access

David Weight, President, **The Cobalt Development Institute**

10:00 - 10:20

Panel discussion: cobalt and nickel metals supply picture, market structure and policy updates

- Should we be worried? - hedge funds and speculators are reported to have stockpiled nearly 20pc of global cobalt production
- Assessing mining policies in Indonesia and the Philippines
- Will there be sufficient raw materials to support the expected demand for Li-ion batteries?
- What do the fundamentals tell us? – the current supply demand balance in the cobalt and nickel markets minerals
- Is political instability in the Democratic Republic of Congo and the issue of conflict?
- New production of cobalt– what is due on stream and when?

Chairman: **David Weight**, President, **The Cobalt Development Institute**

10:20 - 10:45

Cobalt recovery from lithium ion batteries from consumer electronic devices

Mike Tamlin, Chief Operating Officer, **Neometals**

10:45 - 10:50: Q&A

10:50 - 11:20: Morning refreshments

11:20 - 11:50

Substitution – how sensitive are applications to higher prices? What will be the influence on other industries that use lithium cobalt and nickel? – superalloys, stainless steel, chemicals, cutting tools,

11:50 -12:00

Chairman's closing remarks

12:00 -14:00: Networking lunch

14:00: End of conference

Event registration : Argus Li-ion Battery Metals (LiCoNi) Markets and Investments 2017

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DATES & VENUE

12-13 September 2017
Singapore

Argus Li-ion Battery Metals (LiCoNi) Markets and Investments 2017

- Early Bird Rate (before 11-Jul-17)** **USD 1600**
- Standard Registration Fee** **USD 1800**

For group discounts, please contact **Yuan Chang Yu**
(yuanchang.yu@argusmedia.com / +65 6496 9922) for more details.

- Day pass to participate in Battery Metals Conference sessions
- Welcome reception and Cocktail Party
- Networking lunches on 7 and 8 September 2016
- Refreshment breaks during all conference days
- One set of conference documentation
- Travel, accommodation and visa costs are not included in the conference fee.
- Registration fees are subject to the prevailing government tax.

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- Cheque enclosed (Fill the form on the right and enclose the cheque made payable to "Argus Media Singapore Group Pte Ltd").
- Online (www.argusmedia.com/events)

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DELEGATE 2 DETAILS

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Special dietary/disability requirements (if any):

Total no. of Delegates: _____

Signature: _____

Date: _____

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Subject to availability, we accept bookings for events through the online, electronic or postal submission of a registration form. Upon our communication to you (including by email) of our acceptance of your booking, there shall be a legally binding contract between you and us incorporating these Terms and Conditions.

Payment

1. If payment is not received in full at the time of booking, your booking will be provisional until payment is received in full in accordance with paragraph 2 below. You acknowledge that we cannot guarantee bookings made on a provisional basis.

2. Payment must be made by the earlier date of the following: (i) within 30 days of the date of this invoice; (ii) by no later than 7 days before the event.

3. Fees are a fixed price and unless otherwise stated reductions and discounts cannot be offered should you not wish to attend the entire event.

4. In order to qualify for any "early bird" discounts, booking and payment in full must be received prior to the date specified above and on the invoice.

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1. If you are unable to attend the event, you may send a substitute provided that you inform us in writing to asiaconferences@argusmedia.com at least 48 hours before the commencement of the event.

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3. Failure to attend all or part of an event for any reason whatsoever will be treated as a late cancellation and no refunds will be given.

4. If the event is cancelled for any reason within our control, then the registration fee will be fully refunded. We shall not be liable for any other loss, damage, costs (including without limitation travel, visa or accommodation costs), expenses or other liabilities incurred by you in connection with such cancellation. Refunds may take up to 25 business days.

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