

# World Copper Conference 2019

8-10 April 2019, Santiago, Chile

### **Gold sponsors:**

















## Silver sponsors:









# Monday 8 April

08:00 Registration opens
Sponsored by Jacobs

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### 08:00 Exhibition opens

# **Exploration Forum**

09:00 Chairman's Opening Remarks

09:05 Inaugural presentation

Vice minister of Mining, Government of Chile

### 09:20 Panel discussion: Exploring the landscape for copper exploration

- How are the lessons from the last super cycle being implemented differently by junior and major mining companies?
- Will increased recycling rates, substitution and technologies for processing of low-grade ores derail exploration?
- What role with above ground risks such as political and societal pressures affect exploration in an ever more connected world?
- Analysing the impact of technical risks such as underground mining on the exploration sector

Ignacio Del Río, Partner, Director, General Manager, Mineria Activa (TBC) Luis Albano Tondo, President, CEO & Director, Coro Mining Angus McFarlane, Program Director, CSIRO Mineral Resources John Black, CEO, Regulus Resources

### 10:45 Refreshment break

- 11:15 Examining the factors determining the long-term outlook for copper and copper co-products What are the opportunities and threats for copper price?
  - Will deficits in the copper market ever materialize?
  - What is the demand & price outlook for molybdenum, copper and gold?
  - How will the growth in vehicle electrification affect copper demand and prices?
  - What are the opportunities and threats for copper price?

Robert Edwards, Managing Consultant, CRU

Innovation showcase

11:00 - 13:00

	Hamish Sampson, Consultant, CRU	
12:00	Panel discussion: What should Chile do to boost exploration in the country? Comparing and contrasting taxation, incentive systems and other measures to boost exploration in Chile, Canada, Australia and other Latin American countries	ICA Workshop
	Jerónimo Carcelén P, Partner, Carcelén, Demery, Guzmán & Tapia Rony Zimerman, Partner, Bofill Mir & Alvarez Jana	14:00 ICA Workshop – Demand
13:00	Lunch sponsored by BHP	<ul> <li>Energy Storage</li> <li>Renewables</li> <li>Substitution</li> <li>Smart Homes</li> <li>Moderator: Ernest Scheyder, Mining and Future Energy Correspondent, Reuters</li> <li>Benjamin Freas, Principal Research Analyst, Navigant Research</li> </ul>
14:00	What role will new developments in finance such as crowd funding play and how they will impact on the more conventional models such as earn-in and JVs?	
14:25	Top 5 Risks for mining in Latin America in 2019 Raúl Gallegos, Associate Director, Control Risks	
14.50	Keynote presentation Juan Luis Kruger Sayán, Chief Executive Officer, Minsur	Na Jiao, Technology Analyst, IDTechEx Francisco Carranza, Managing Director, Nissan Energy Adrien Coudurier, Enel Green Power
15:10	Refreshment break	Anette Meyer Holley, BSRIA Martin Bergemann, Siemens
15:40	Panel discussion: Developments in geophysics and other exploration technologies Rohan Cobcroft, Chief Geologist, Geological Survey of South Australia Marco Nieto, Business Development Manager, MPX Geoservices Ltd	Krisztina Kalman-Schueler, Managing Partner, DMM Advisory Group, in cooperation with MetalsPlus
17:00	Closing remarks	



# Tuesday 9 April



# **World Copper Conference**

08:00 Registration opens
Sponsored by Jacobs

08:00 Exhibition opens

Conference Auditorium sponsored by Bechtel

09:00 Chairman's Opening Remarks

Moderator: Robert Perlman, Chairman, CRU

09:10 Opening presentation - Chilean Minister of Mines

09:30 CEO Panel - Creating value

- The relevance of shareholder value in guiding mining companies' investment decisions today
- Are the lowest operating cost solutions associated with the best returns on capex?
- How good is the industry's track record in creating shareholder value?

Nelson Pizarro, Chief Executive Officer, Codelco
Arnaud Soirat, Chief Executive, Copper & Diamonds, Rio Tinto
Don Lindsay, Chief Executive Officer, Teck Resources Ltd
Ivan Arriagada, Group CEO, Antofagasta
Shuwei Luan, President & CEO of Minera Chinalco Peru S.A. Vicepresident of China Copper Vanessa Davidson, Director of Copper Research and Strategy, CRU

#### 11:00 Refreshment break

11:30 Keynote presentation

Robert Friedland, Founder, Executive Co-Chairman, Ivanhoe Mines

12:15 Panel discussion – technical innovation project risk management and costs

Paige Wilson, (SVP), President, Bechtel Mining & Metals, Bechtel
Nick Bell, Vice President, Sales, Mining, Minerals and Technology, Jacobs
Brandon Spencer, Managing Director, ABB Process Industries, Industrial Automation Division, ABB
Patrick Sikka, Vice-President, Engineering, North America, Mining & Metallurgy, SNC-Lavalin







Stream 1

### 14:45 Exploring key opportunities and threats to copper demand

Moderator: Ernest Scheyder, Mining and Future Energy Correspondent, Reuters

- Energy Storage
- Renewables
- Substitution
- Smart Homes

Benjamin Freas, Principal Research Analyst, Navigant Research
Na Jiao, Technology Analyst, IDTechEx
Francisco Carranza, Managing Director, Nissan Energy
Adrien Coudurier, Enel Green Power
Anette Meyer Holley, BSRIA
Martin Bergemann, Siemens
Krisztina Kalman-Schueler, Managing Partner, DMM Advisory Group, in cooperation with MetalsPlus

Stream 2

# 14:45 Outlook and opportunities in the mining equipment and services sector

- Introductions to METS sector.
- What's the market outlook for the METS market?
- How is technology shaping the METS sector?
- How can the mining industry contribute to domestic diversification?
- What challenges will technological/environmental disruption bring?

Ben Jones, Managing Consultant, CRU
Pascual Veiga, President, APRIMIN
Charles O'Donnell, Group Head of Supply Chain and Business Planning,
Anglo American
Julian Sparks, Strategy and Development Services Manager, Wood

# Wednesday 10 April

# **World Copper Conference**

08:00 Registration opens

Sponsored by **Jacobs** 

08:00 Exhibition opens

Conference Auditorium sponsored by Bechtel

08:00 Pre-conference workshop

Chinese stimulus measures: Most analysts, including CRU, have been expecting China's economic transition to result in a marked deceleration in growth of Chinese copper consumption. But despite strong evidence that the Chinese economy is slowing, might government stimulus measures once again support copper demand growth?

Jumana Saleheen, Chief Economist, CRU Victor Garay, Market Coordinator, Cochilco

Natasha Kaneva, Executive Director, Global Commodities, Investment Bank, J.P. Morgan

09:00 Chairman's Opening Remarks

Charlie Durant, Principal Consultant, CRU

09:05 Ruben Fernandes, Chief Executive Officer, Base Metals, Anglo American

09:20 Copper shaping the future - Today's global trends are tomorrow's drivers of demand

Javier Targhetta, Senior Vice President Marketing & Sales, Freeport-McMoRan, President, Atlantic Copper

09:35 Future preparedness of Indian Copper Industry

Jagdish Chandra Laddha, CEO - Birla Copper, Hindalco Industries Ltd

09:50 Boliden Mines

Stefan Romedahl, President, Boliden Mines

10:05 Panel discussion Ratings, finance and capital allocation

Ian Linnell, President, Fitch Ratings

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Alvaro Ossio, VP Senior Commercial, Finance and Business Support, MMG Limited David Coombs, Head of Copper Consulting, CRU

### 11:00 Refreshment break

### 11:30 Sustainable copper: What is the market potential and how could it impact prices and premiums?

Christophe Koenig, Senior Vice President, Commercial, Aurubis Charlie Murrah, Executive Vice President, Metals, Southwire Company Mark Loveitt, President, International Wrought Copper Council Hugo Brodie, AVP – Responsible Sourcing, LME

### 12:15 Beyond the base case – Copper price under different market scenarios:

- The impact of the recent fiscal changes in Zambia and the DRC on the cost competitiveness of copper mines and the wider implications for the global copper market
- US Inflation is one of the world's most important variables will the FED secure inflation expectations with a prompt and credible policy or will the restoration of price stability lead to a recession. How will these inflationary pressure and US monetary policy risk impact the global economy and commodity markets?
- Trade war escalates: Despite the apparent truce agreed at the G-20 meeting in Argentina, it is possible that trade war tensions could escalate again denting GDP growth.
- Full Chinese scrap import ban from end-2020: The Chinese category 7 scrap ban has had less of an impact on the Chinese market in 2018 than initially expected. However, a full scrap ban could be another matter, reducing Chinese imports of copper-in-scrap by over 1.5Mt from 2017 levels. How would China react? Are there enough processing plants outside China to convert the scrap into other forms of copper for the Chinese market? Or would the ban encourage the development of a modern, automated, large-scale scrap generation and processing industry in China?

Jumana Saleheen, Chief Economist, CRU
Piotr Ortonowski, Senior Market Analyst, Eurasian Resources Group
Duncan Hobbs, Research Manager, Concord
Charlie Durant, Principal Consultant, CRU
Mengjie Wu, Senior Consultant, CRU

### 13:00 Lunch

# **Sulphuric Acid Seminar**

### 14:30 Sulphuric acid seminar

Both sulphur and sulphuric acid prices have enjoyed significant rallies since this meeting last convened. The relative price trend between acid and copper price has diverged significantly impacting the cost structure of leaching operations has further deteriorated. When and by how much will prices weaken?

- CRU supply demand Short terms pressures and long terms views
- Impact of Chilean smelting capacity additions
- Outlook for Peruvian demand
- Focus on the Chinese acid market

• Analysing developments in the acid tanker business.

Brendan Daly, Markets & News Editor , Fertilizer Week, CRU
Cristian Cifuentes G., Analista de Estrategias y Políticas Públicas, Comisión Chilena del Cobre
Claudia Araya Bravo, Head Chemetics - Latin America and Mexico, Jacobs





# Site visit – El Teniente

Group 1*		Group 2*	
05:30	Depart Conference Hotel	06:00	Depart Conference Hotel
08:00 • 08:30	Arrival to Codelco El Teniente, Millán 1020, Rancagua Welcome at Integrated Operations centre; coffee Integrated operations centre visit	08:30	Arrival to Codelco El Teniente (Maitenes)     Welcome at visitors' reception room; coffee     Corporative and safety videos exhibition     Equipment with personal protection equipment
09:00	Departure to Maitenes	09:00	<ul> <li>Equipment with personal protection equipment</li> <li>Departure to the mine</li> </ul>
09:30	<ul> <li>Arrival to Maitenes</li> <li>Corporative and safety videos exhibition</li> <li>Equipment with personal protection equipment</li> </ul>	10:20	Arrival and Dacita Mine visit  Mine safety induction  Visit Dacita crusher cavern
10:00	Departure to the mine	11:50	Departure to Colón Alto
11:00	Arrival and Dacita Mine visit  Mine safety induction	12:40	Lunch at company restaurant
	Visit Dacita crusher cavern	13:40	Departure to Maitenes
12:50	Departure to Colón Alto	14:10	
13:40	Lunch at company restaurant		Rancagua
14:40	Departure to Maitenes	14:40	Integrated operations centre visit
15:10	Arrival to Maitenes. Return of the safety equipment. Departure to Rancagua	15:10	End of the visit
15:40	Arrival to Codelco El Teniente, Millán 1020, Rancagu. End of site visit		

<sup>\*</sup>Exact timings are subject to change