



# EXPLORATION AND TENURES FORUM

MAY • 8 • 2023  
THE MINT • SYDNEY

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 TENEMENTS  LEGAL  ENVIRONMENTAL



# **KEYNOTE SPEAKER**

## **PROFESSOR RICK VALENTA**

**Acting Institute Director**

**Sustainable Minerals Institute, University of Queensland**

Professor Valenta has over 40 years experience in the mining industry and related research, including 25 years in CEO and COO roles in Australia and Canada where he has led teams that have discovered and put into production significant deposits of gold, copper and uranium.

He has held senior roles that have put him at the interface of commercial, technical and strategic aspects of the business and innovation ecosystem of future mineral supply.

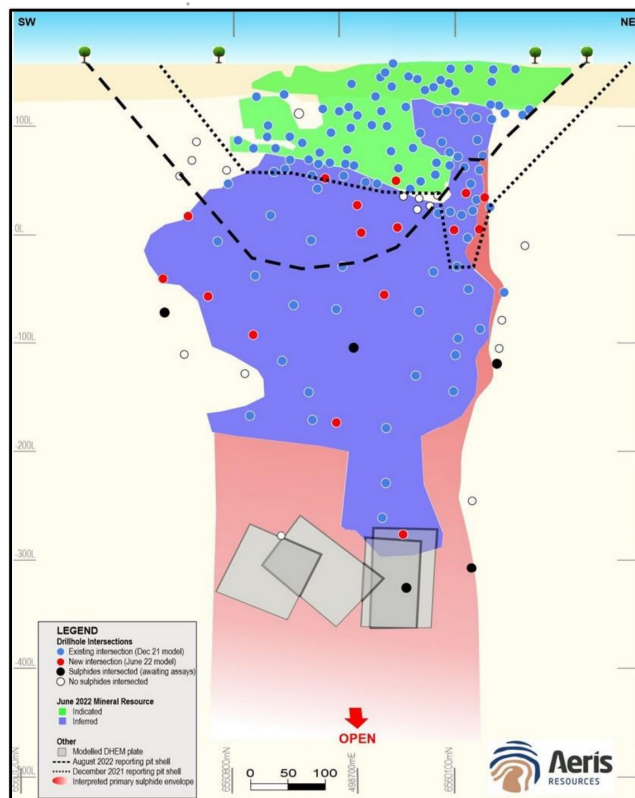
Rick is the Acting Director of The University of Queensland Sustainable Minerals Institute (SMI). He has led impactful programs there including the Complex Orebodies Program, and more recently played a key role in the \$120m Resource Technology and Critical Minerals Trailblazer and a recent SMI-led initiative in Resourcing Decarbonisation.

# FINALIST



## NSW EXPLORER OF THE YEAR 2023

**AERIS RESOURCES**  
Constellation Discovery



Aeris Resources Ltd (Aeris) own and operate a circa 1.8Mtpa processing plant at Aeris Tritton Operations (Tritton Operations), located between Nyngan and Cobar in Central West NSW.

There is a long history of exploration and mining within Aeris' tenement package, dating back to the turn of the 20th century. Over the last 30 years, Aeris has successfully utilised new techniques, resulting in discovery, the most notable being the Tritton deposit in 1995, which represents the largest known deposit (>25Mt) in the Girilambone Group sediments.

Prior to Tritton, exploration and mining was focused on extracting shallow copper oxide deposits.

Aeris Resources discovered the Constellation copper-gold deposit in November 2020. The Constellation mineralised system has currently been traced over 250 metres along strike, and 1,100 metres down plunge, remaining open at depth.

To date, 207 holes for 35,790m of drilling has been completed enabling the current mineral resource, released in August 2022, totaling 6.7Mt at 1.85% copper, 0.58g/t gold and 2.9g/t silver containing 123,000 tonnes of copper metal, 125,000 ounces of gold metal and 620,000 ounces of silver metal.

The Constellation deposit is quickly becoming the large +10Mt deposit Aeris were searching for when the current exploration program was proposed in 2015.

# FINALIST



## NSW EXPLORER OF THE YEAR 2023



### ALKANE RESOURCES LIMITED

Kaiser Discovery: fast-tracked definition of significant Au-Cu porphyry resources in central NSW

In September 2019, Alkane Resources discovered the first evidence of a world-class gold-copper deposit at its Boda prospect, part of the company's Northern Molong Porphyry Project (NMPP) in Central West NSW. Encompassing five exploration licences, the NMPP covers 177 square kilometres, centred 20km north of Wellington and 35km east of Dubbo.

The Boda deposit has been estimated at 624Mt with an average grading of 0.51g/t AuEq for 10.1 million gold equivalent ounces (5.21Moz Au, 0.90Mt Cu).

The Kaiser deposit extends the known mineralisation at Boda, and is estimated at 270Mt with an average grading of 0.54g/t AuEq for 4.7 million gold equivalent ounces (2.05Moz Au, 0.48Mt Cu). The combined resource total is 894Mt at an average grade of 0.52g/t AuEq for 14.8 million gold equivalent ounces (7.28Moz Au, 1.38Mt Cu). This makes the deposit one of the most significant gold-copper Au-Cu resources defined in NSW in the last 10 years.

Copper is also critical for the electrification of transport and renewable energy technologies, making it vital to global value chains. Development of the Boda-Kaiser system would lead to a large-scale, multigenerational copper-gold mine valued in the billions, and would provide hundreds of operational and construction jobs.

Alkane has been a long-term committed explorer in the Central West, developing and operating the Peak Hill Gold Mine from 1996 to 2005; advancing the globally significant critical metals Dubbo Project (now owned by ASM); and discovering the McPhillamys gold deposit in 2006 (now owned by Regis Resources). Since 2014, Alkane has been producing gold at Tomingley Gold Operations, approximately 50km southwest of Dubbo.

**FINALIST**



## **NSW EXPLORER OF THE YEAR 2023**

**MAGMATIC RESOURCES LIMITED**  
Myall Project



The Myall Project is located approximately 20km southwest of Narromine, and 60km north of the Northparkes copper-gold mine. Myall comprises a single contiguous tenement of 244 square kilometres.

The Myall Project is characteristic of a porphyry-related copper-gold system, with the mineralisation showing many similarities to the nearby Northparkes deposits (current Resources and Reserves at Northparkes include 607Mt at 0.55% Cu & 0.21g/t Au).

While still at an early stage, the porphyry system at Myall is exceptionally large in scale, with grades also matching the Northparkes Resources in many places. The latest drilling has established that the Corvette-Kingswood mineralised corridor extends to at least 1.2km in length, up to 600 metres in width, and up to 800 metres in depth.

An active exploration program is still underway, with follow-up drilling expected to push the system even further to the north and at depth in the coming weeks.

The Myall Project has the potential to develop into a regionally significant copper-gold discovery with massive potential for the local region, and the state as a whole. Magmatic Resources is hopeful that as with other porphyry operations, the Myall Project will be very large, with inventories ranging from 100 million to several billion tonnes, and a mine life extending to decades.

Session chaired by Alexandra Bonner, Principal Geologist, Orthosa



**DAVID SALIM**

**Company Principal, Hetherington**

Welcome from our event sponsor



**STEPHEN GALILEE**

**Chief Executive Officer, NSW Minerals Council**

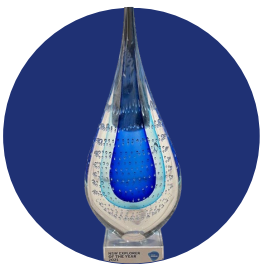
Welcome from NSW Minerals Council



**THE HON. COURTNEY HOUSSOS, MLC**

**Minister for Natural Resources, Minister for Finance**

Minister's remarks



**NSW MINING - EXPLORER OF THE YEAR**

Acknowledgement of our three finalists. The Minister will announce the winner of the NSW Mining - Explorer of the Year award for 2023.



**PROFESSOR RICK VALENTA**

**Acting Director, Sustainable Minerals Institute,  
University of Queensland**

**Keynote address - Future mineral supply, the focus on  
critical minerals and challenges for industry**

Session chaired by Belinda Bird, Policy Manager, NSW Minerals Council

## GEORGINA BEATTIE

Chief Executive Officer, Mining, Exploration and Geoscience (MEG)

Supporting sustainable mining and exploration in NSW



## PANEL SESSION

Our panel session will discuss how we can improve the operating environment for explorers in NSW. The panel will include Georgina Beattie, CEO of MEG, and industry representatives:



### MARK ARUNDELL

IMEx Consulting  
Principal Geologist  
(Panel facilitator)



### IAN CHALMERS

Alkane Resources Ltd  
Technical Director



### JOHN GREENFIELD

Newmont Australia  
Principal Exploration Geologist  
NSW



### JENETA OWENS

Godolphin Resources  
Managing Director

## ASK A QUESTION

Attendees are encouraged to ask questions throughout the day via Slido.

Slido can be accessed via the QR Code:



Or by going to [slido.com](https://slido.com) and entering the following event code:

**1131240**

Session chaired by Kate Swain, Partner, McCullough Robertson



**RUSSELL DUNN**

**Native Title & Cultural Heritage Consultant,  
Indigenous Agreement Solutions**

Undertaking Native Title negotiations at various stages



**TOM KLEIN**

**Senior Geologist, Bowden's Silver**

Moving from exploration to development - Bowden's Silver Project



**PETER LEAH**

**Superintendent, Glencore Coal Assets Australia**

Considerations for design of airborne surveys - community engagement and Native Title implications



**TAMARA ROBINSON**

**Principal Consultant, Hetherington**

Getting audit ready - how to create your success story

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**Afternoon Tea: 3.00 pm - 3.30 pm**

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Session chaired by Jessica Askew, Project Geologist, Kingston Resources

**ANTHONY HARRIS****Chief Geoscientist, Newcrest Mining**

Empowering geologists in the exploration process: lessons learnt from Cadia

**ADAM MCKINNON****Managing Director, Magmatic Resources**

Magmatic Resources' Myall Discovery

**TODD MCGILVRAY****Exploration Manager, Aurelia Metals Ltd**

Aurelia's exploration in NSW

**CLOSING COMMENTS**

David Frith, Policy Director, NSW Minerals Council

**NETWORKING DRINKS**

Join us for complimentary post-forum drinks and canapes thanks to Alkane Resources

The Mint Courtyard  
5pm - 6pm



# SPONSORS

Thank you to these industry leading businesses for partnering with the NSW Minerals Council to present the 2023 Exploration and Tenures Forum

## FORUM SPONSOR

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This forum is proudly supported by the Hetherington Group. With offices across Australia, Hetherington is a market leader and specialist in Tenement Management, Environmental Consulting, and Mining Law. Contact the Hetherington team at [info@hemts.com.au](mailto:info@hemts.com.au) to find out how they can help, or register for Hetherington's quarterly industry bulletin, the Hetherington Post.

## NETWORKING DRINKS SPONSOR

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# UPCOMING EVENTS

## **NSW Mining HSEC Conference and Awards 2023: Learning & Leading Sun 6 August - Wed 9 August 2023 | Crowne Plaza, Hunter Valley**

In 2023, we look forward to bringing the industry together at the annual NSW Mining HSEC Conference and Awards: Learning & Leading.

With a focus on leadership, development and networking, the conference will feature examples of leading practice, lessons learned and emerging regulatory and industry issues for professionals in health and safety, environmental management and community engagement.

This major event brings together experts and decision makers to talk about the challenges and huge opportunities for our responsible NSW mining industry to contribute and grow into the future.

Tickets will be available for sale in May 2023.

In the meantime, we encourage you to enter our HSEC Awards or put yourself or a colleague forward for The Pitch, which is our new session for young mining professionals to tell us about their work and how they are contributing to a responsible NSW mining industry.

For more information about the conference, please contact the NSW Minerals Council team by email [info@nswmining.com.au](mailto:info@nswmining.com.au).

# MEMBERSHIP



**The NSW Minerals Council is the leading industry association representing the state's minerals industry, providing a united voice for our members.**

Mining is a key economic driver for the state, supporting thousands of jobs and generating economic activity, especially in regional NSW, and providing taxes and royalties to the NSW Government which support essential infrastructure and the services we all rely on like nurses, teachers and police.

The NSW Minerals Council works closely with governments, industry groups and business and community leaders so our member companies can continue to operate as part of a strong, responsible and sustainable mining industry in NSW.

We support an effective regulatory framework in which the industry can operate profitably and make a meaningful contribution to the state and the people of NSW. The NSW Minerals Council champions innovation and leading practice in our industry to help improve the health and safety of our people and minimise our impacts on the environment. And as the peak industry body we promote the important role exploration and mining plays in society, the good things mining brings to NSW and the contribution of our members and mining families.

## **Join NSW Minerals Council**

Your organisation can be part of this movement as well. If your company wants to join the NSW Minerals Council, email us now to find out about the benefits and the associated membership fees: [information@nswmining.com.au](mailto:information@nswmining.com.au).