



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.

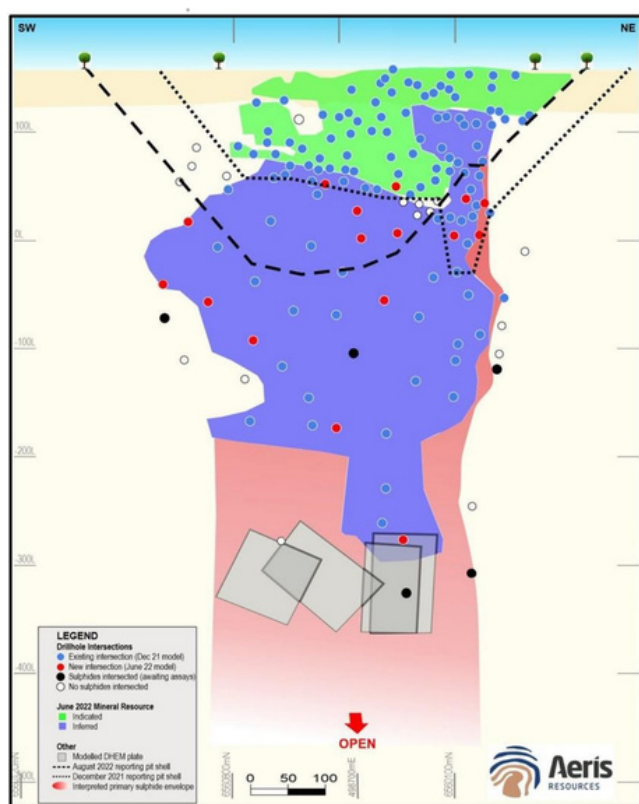
Rick is the Acting Director of The University of Queensland Sustainable Minerals Institute (SMI). He has led impactful programs there including the Complex Orebodies Program, and more recently played a key role in the \$120m Resource Technology and Critical Minerals Trailblazer and a recent SMI-led initiative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

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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.

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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.

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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

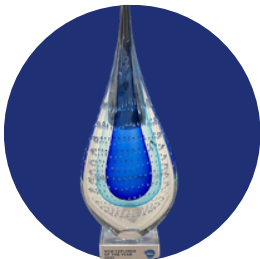
Welcome from our event sponsor



STEPHEN GALILEE

Chief Executive Officer, NSW Minerals Council

Welcome from NSW Minerals Council



NSW EXPLORER OF THE YEAR

Acknowledgement of finalists and announcement of the winner of the NSW Explorer of the Year 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

Morning Tea: 10.30 am - 11.00 am

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

GEORGINA BEATTIE

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

MEG's initiatives to improve the operating environment for explorers in NSW

**PANEL SESSION**

Our panel session will discuss the opportunities and challenges for improving 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 via Slido.

Slido can be accessed via the QR Code:



Or by going to 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

Afternoon Tea: 3.00 pm - 3.30 pm

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

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

The Mint Courtyard
5pm - 6pm



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

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