

FUTURE OF MINING

Connecting the Mining Industry for a Thriving Future

MINING SMARTER. MINING BETTER.

FUTURE OF MINING SYDNEY 2024

18 – 19 March 2024 - Sydney Masonic Centre

FUTURE OF MINING PERTH 2024

17 -18 June 2024 - Pan Pacific Perth

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   #Futureofmining

Organised by:



Delivered by:



Mining Magazine

Future of Mining Sydney | 18-19 March 2024

Sydney Masonic Centre

Day One | 18 March

7:30

Round table

- Option A) Available to sponsor
- Option B) Available to sponsor

8:30

Chair's opening remarks & Welcome To Country

8:55

Opening keynote: Mining's major drivers – how economic and critical mineral policies are shaping the industry?

- How is the IRA leading mineral policy globally?
- What current trends tell us about its future?
- What is the significance of the EU's policy response and its ongoing climate regulatory drive?
- How do the critical minerals policies from leading resources economies like Canada and Australia fit into this landscape?
- What do these policies and regulations mean for where we explore and develop deposits and how we mine?
- Policy is changing constantly but the trends are consistent; what do they mean for the policy and regulatory landscape for miners in 15 years?

9:25

Pane discussion: Getting real on net-zero operations: making real changes to hit emission targets

- Are miners meeting ambitious targets they've set themselves?
- What strategies and technologies are working and need wider adoption; and which need to be dumped?
- How are we tracking against other industries?
- What lessons and tech applications can miners steal from other industries?

1 Panel slot available

9:55

Main stage slot available for whitepaper submission

- 30-minute session
- Topic of choice.
- Format of choice; case study with a client, presentation, build their own panel of experts.

10:25

Networking break

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| | Stream A Innovation | Stream B Mining for Energy Transition |
|-------|--|---|
| 11:05 | <p><u>Workstream slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. | <p><u>Workstream slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. |
| 11:45 | <p>Panel discussion: Going beyond incremental gains – can we transform safety performance in the mining industry with cutting-edge innovations?</p> <ul style="list-style-type: none">• How is innovation changing safety?• Why is the mining industry still lagging in its safety performance?• When will the technology be ready? Should miners be looking more to other sectors for game-changing technologies?• Which are the current best practices and practical regulation settings that must be maintained?• How can managers balance the need to make big changes for operational transformation, while keeping safety as their first priority?• What is holding back ubiquitous adoption of proven safety technologies? <p><u>2 Panel slots available</u></p> | <p>Panel discussion: Powering remote mines – optimising renewable technologies for the greatest impact</p> <ul style="list-style-type: none">• What key operational parameters are dictating the successful application of renewable technologies in Australia?• How are leading operators ensuring consistent and reliable energy supply using renewable technologies?• What lessons have we learnt from recent applications of renewable solutions in remote operations?• What are the opportunities and challenges associated with factors like geographical location, resource availability, and energy demand, and how should they influence the selection and design of appropriate renewable energy systems for remote sites? <p><u>2 Panel slots available</u></p> |
| 12:25 | <p><u>Main stage slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. | |
| 13:05 | <p>Networking Lunch</p> | |

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| 14:05 | <u>Main stage slot available for whitepaper submission</u> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. | |
| 14:45 | Panel discussion: How is predictive analytics transforming the mining landscape? <ul style="list-style-type: none">• Making better use of the data collected to drive decisions and get enough variation into the system for the analysis to be valid.• Foresee potential danger and take preemptive action through predictive analytics, which anticipates equipment failures and dangerous conditions.• Seeing the positive results of predictive analytics and understanding how that leads to significant reductions in workplace accidents and unexpected operational disruptions.• Exploring how predictive analytics can avoid negative impacts on the environment and communities. <u>2 Panel slots available</u> | Panel discussion: Leveraging AI to reduce emission and enhance efficiency <ul style="list-style-type: none">• How can AI help reduce the environmental impact of resource extraction?• How can mining operations use no-code AI?• Are there AI-enhanced methods for resource extraction that minimise waste generation and reduce energy consumption?• How can AI support energy management systems with automated analysis for continual energy performance improvement?• What challenges and opportunities exist in scaling up these advanced extraction technologies? <u>2 Panel slots available</u> |
| 15:25 | <u>Workstream slot available for whitepaper submission</u> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. | <u>Workstream slot available for whitepaper submission</u> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. |
| 15:55 | Networking break | |
| 16:35 | Start-up battle - Step into the future of mining revolution! Join this session where five cutting-edge start-ups go head-to-head on stage, unveiling their revolutionary inventions to slash carbon footprints and supercharge decarbonization in the industry. Our esteemed panel of judges will provide invaluable feedback, propelling these start-ups towards a cleaner, safer and greener future for mining, and crown a winner. | |
| 17:15 | End of day one / Drinks reception | |

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| Day Two 19 March | |
|--------------------|--|
| 7:30 | Round table Option A) Available to sponsor Option B) Available to sponsor |
| 8:30 | Chair's opening remarks |
| 8:35 | Opening keynote: : Securing supply chains for the energy transition – how can the industry manage its risks and reputation to keep pace with demand? <ul style="list-style-type: none">• What does the demand for minerals really look like?• What are the blockers stopping supply from reacting to pending shortages?• In the long-term, what energy mix can the mining industry realistically, securely supply?• How can organizations face significant capital expenditures, large infrastructure improvements and technology challenges to meet the renewable energy demand?• How is market balance achieved?• Geopolitical uncertainty - how will the global geopolitical landscape affecting the supply chain? |
| 9:05 | Panel discussion: How is the importance of responsible sourcing changing in relation to future mineral supply chains? <ul style="list-style-type: none">• What does it mean to mine responsibly in Australia and how is that changing?• What technologies can miners embrace to ensure the downstream industry is satisfied with mineral provenance?• How will the industry have to evolve its efforts around transparency to meet future expectations?• Is blockchain the answer for responsible sourcing or a solution looking for a problem?• What criteria should be established for responsible sourcing of minerals used in clean energy technologies?• How do current guidelines and certification schemes need to change to ensure ethical and sustainable mining practices in the future? <p><u>1 Panel slot available</u></p> |
| 9:35 | <u>Main stage slot available for whitepaper submission</u> <ul style="list-style-type: none">• 30-minute session• Topic of choice.• Format of choice; case study with a client, presentation, build their own panel of experts. |
| 10:05 | Networking break |

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|-------|--|---|
| 10:45 | <p>Panel discussion: From inception to innovation – transformative approaches to mine rehabilitation</p> <ul style="list-style-type: none">• What are the key considerations when planning for closure from the outset to minimise environmental impact and enhance community benefits?• What are the biggest rehabilitation challenges companies face?• How do you measure the success of a mine rehabilitation project? What are the latest innovations best suited for a rehabilitation project?• How can we reduce the mine footprint through pre-emptive closure planning? <p><u>2 Panel slots available</u></p> | <p>Presentation: Evolution Mining (confirmed)</p> |
| 11:25 | <p><u>Workstream slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. | <p><u>Workstream slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. |
| 12:05 | <p><u>Workstream slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. | <p>Electrifying the path to a greener future</p> <ul style="list-style-type: none">• How can widespread electrification reshape the mining industry, enhancing both operational efficiency and reducing environmental impact?• What innovative technologies and infrastructure are required to facilitate the electrification of mining operations, and how can these be effectively integrated into existing mining sites?• What economic, social, and environmental benefits can be realised by transitioning from traditional fossil fuel-based machinery to electric equipment in mining activities?• In what ways can the electrification of mining contribute to global efforts in achieving sustainable development goals and promoting a greener energy future?• How can small organizations implement electrification with limited budget? <p><u>2 Panel slots available</u></p> |

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| 14:15 | Networking lunch | |
| 14:45 | <p>Panel discussion: How is technology changing tailings management – and are companies taking advantage?</p> <ul style="list-style-type: none">• Is there a single ‘silver bullet’ solution for tailings management, or do technologies such as dry-stack filtering, geotechnical instruments and satellite monitoring all need to work in sync?• Is it possible to achieve zero water waste in tailings?• Where will technology make the difference? Which are the future alternative approaches to conventional tailing management?• Which are the main barriers to the implementation of innovative tailing management?• Is progress keeping up with regulation and stakeholder expectations? <p><u>2 Panel slots available</u></p> | <p><u>Workstream slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice• Format of choice; case study with a client, presentation, build their own panel of experts. |
| 15:15 | <p><u>Main stage slot available for whitepaper submission</u></p> <ul style="list-style-type: none">• 30-minute session• Topic of choice.• Format of choice; case study with a client, presentation, build their own panel of experts. | |
| 15:45 | <p>Panel discussion: Evolving mining’s world of work - repositioning the industry in a highly competitive labour market</p> <ul style="list-style-type: none">• Redefining purpose - advocating the necessity for a robust propaganda campaign to reposition the industry's value, reassert its importance in the market and relevance in everyday life.• How can companies help to improve mining's public image and reputation to attract the new generation of talent?• Introducing hybrid or permanent virtual/remote work arrangements to create better work-life balance.• Devolving into strategic workforce planning to assess and review the required skills for different roles; what skills will be needed in the mining of the future?• Addressing training deficiencies and the necessity to implement up-to-date programs to upskill the current workforce to effectively embrace advancements and innovative operations. <p><u>1 Panel slot available</u></p> | |
| 15:15 | <p>Panel discussion: Still a central focus for mining companies - prioritising community engagement and social responsibility</p> <ul style="list-style-type: none">• Policies and land access legislations; what do they mean for mining and how would they affect the different areas of the industry?• Is it possible to accelerate permitting that to go from exploration to development?• How can organizations boost their partnership with traditional landowners and show the genuine value of mining in their territories?• Which initiatives should organizations build to enhance the economic well-being of the communities and contribute to the long-term vitality of the regions they operate in? <p><u>1 Panel slot available</u></p> | |
| 15:45 | Chair’s closing remarks & End of conference | |