



















AGENDA

MAIN CONFERENCE DAY 1 - 19 APRIL 2023 (virtual)

MAIN CONFERENCE DAY 2 - 20 APRIL 2023 (virtual)

AUTONOMOUS MINING WORKSHOPS - 21 APRIL 2023 (virtual)



































TIME	AGENDA
09:25	Welcoming Speech, Opening Remarks & Thank You Sponsor Speech By Conference Producer
09:30	<p>Navigating The Roadblocks To The Vision Of Autonomous Operations</p> <p>Autonomous Operations is the gold standard and incorporates current industry trends such as digital transformation, digital twins and autonomous assets with predictive maintenance. This session will show you how to develop and implement a plan, how to engage operations, how to apply technologies and what the solution may look like.</p> <p>Paul Howat Director Digital Transformation Emerson</p> 
10:00	<p>Artificial Intelligence For Mining</p> <p>Dr. Ali Scoffestael AI Research Developer Vale</p> 
10:20	<p>How Autonomous Drones Are Transforming Mining Operations Around The World</p> <p>Tom Pitts President Australian Certified UAV Operators Association</p> 
10:50	<p>Is Mining Transformation Strategy Being Derailed At The Edge?</p> <p>Alan Seery Chief Technology Officer Aqura Technologies</p> 
11:20	Morning Break
11:30	<p>Zoom Breakout Session A: Understanding The Benefits Of A Digital Twin In A Mining Digital Transformation</p> <p>Jon Weissenbaum Automation Consultant Emerson</p> 
	<p>Martin Van Der Merwe Business Director Systems and Solutions Emerson</p> 
	<p>Zoom Breakout Session B: Sustainable Mine To Mill – Digital Solutions Enabling End-to-end Integrated Simulation And Operational Workflow</p> <p>An end to end Mine to Mill (M2M) value chain focus approach has proven through multiple examples worldwide to drive substantial mill productivity benefits. Yet despite the economic uplift realised through the holistic mining to processing approach, M2M projects typically involve intense efforts over a period of months and fail to become permanently embedded in everyday workflow. Advances in digital capability are changing this, creating the enabling technologies to efficiently undertake simulation and optimisation from the block model all the way through to the end of the processing circuit, and also to tailor the application of explosives energy to varying orebody properties to produce optimum fragmentation in a sustainable operational workflow.</p> <p>Angelo Labriola Senior Manager, Digital Solutions Orica</p> 
	<p>Nick Beaton General Manager – Integrated Extraction Simulator CRC ORE</p> 
	<p>Zoom Breakout Session C: Decarbonising Mining Through Digital Mining Infrastructure</p> <p>Paul Barclay Sales Manager ABB Mining Solutions</p> 
12:30	Lunch Break
13:30	<p>Making Digital A Reality: What It Actually Takes To Build A Digitally Connected Mine</p> <p>There's a lot of theory around what digitalisation should look like, but what are the steps to get there? Join ABB for a hands on presentation, where we will discuss our strategy and our progress to building one of the most digitally connected mines, here in Australia.</p> <p>Jonathan Maher Sales Manager, Mining Systems ABB Australia</p> 
13:50	<p>Orebody Knowledge To blasting Outcomes In Tomorrow's Mine, Today</p> <p>Roy Hill and Orica have been working in a close strategic partnership since 2017 aimed at delivering Roy Hill's Smart Future Pit-Port vision of creating Tomorrow's mine, today. This program leverages new technology and the application of innovative thinking to maximise efficiency to meet the needs of the future. To date, Roy Hill and Orica's partnership has largely focused on Smart Orebody, Smart Assets and Integrated and Intelligent systems. In particular the application of data science and machine learning to data from the geological model, autonomous drills, blasts, and the fleet management system to deliver Smart blasting. The companies have jointly collaborated to create and operationalise the technologies that enable the data-led application of explosives energy matched to enhanced orebody knowledge, targeting consistent and predictable blast outcomes that deliver sustainable profit improvement.</p> <p>Eden Paki Senior Manager – Global Accounts (Auspac) Orica</p> 
	<p>Karl Keys Manager Mine Scheduling Roy Hill</p> 
14:10	<p>Sustainability In Mining</p> <p>Dr. Geoffrey Batt Research Portfolio Manager Minerals Research Institute of Western Australia</p> 
14:30	<p>Regulating Autonomous Equipment In WA – The Journey To So Far</p> <p>Peter O'Loughlin Senior Inspector of Mines – Mines Safety Directorate Department of Mines, Industry Regulation and Safety</p> 
14:50	<p>Moonshot Thinking: Making Space Mining A Reality</p> <p>Joshua Letcher Chief Executive Officer Space Industries</p> 
15:10	<p>Digital Ore Tracking And Real World Applications</p> <p>Mitin Hirani Principal Data Scientist Roy Hill</p> 
15:30	<p>Global Mining Guidelines Group: Implementation Of Autonomous Technology On Large Scale</p> <p>Michelle Ash Chairperson GMG Group</p> 
16:00	<p>Closing Remarks By Conference Chairperson</p> <p>Kate Dickson Director Association of Mining and Exploration Companies (AMEC)</p> 

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09:30	Technology Driving Mining In WA	
	Hon Bill Johnston MLA Minister for Mines and Petroleum Member for Carriington Government of Western Australia	
10:00	Future Smart Mines With Artificial Intelligence: Case Study Of Vale's New Artificial Intelligence Mining Centre	
	Malcolm McRae Head of Advanced Analytics Vale	
10:20	Adaptive Mine Planning On The Fly	
	<i>Join ABB as they run through a live demo of its digital mine planning system. In this session, ABB will simulate a real-life scenario of responding and adapting to unforeseen situations on the fly. As miners, we all know that things don't always go as planned. How will the digitalisation of mining systems improve the way we respond to such unplanned events, and improve overall productivity?</i>	
	Clinton McKinnon Product Manager – Digital Mines ABB	
	Jonathan Maher Sales Manager, Mining Systems ABB Australia	
10:40	Improving Lithium Mining & Processing With Advanced Technologies	
	Carlos Galli Director Norlab SRL (Argentina)	
11:00	Morning Break	
11:10	Augmented Reality And Enabling Technologies Of The Mining 4.0 Revolution	
	Nicolas Jubera CEO TIMining (Chile)	
11:30	The Role Of Technology Vendors In Digital Technology Adoption	
	<i>Technology delivery requirements to enable industry adoption within end market operations.</i>	
	Adrian Beer Chief Executive Officer METS Ignited	
11:50	Connected Products And Big Data, A Vital Part In Achieving Autonomous Mining Operations	
	<i>Connected products and big data are the heart and soul for autonomous operations. To achieve the operational data needs to be available and trusted. We are building the next generation industrial world to be open, sustainable, data driven and efficient, moving you from reactive to predictive outcomes from your pit to port.</i>	
	Craig Scott State Manager QLD Industrial Automation Schneider Electric SE	
12:10	Sustainability In Mining	
	<i>Emerson's insight into mining sustainability and a deep dive into the broader market to see what is driving sustainability.</i>	
	Mike Train Chief Sustainability Officer Emerson	
12:30	Lunch Break	
13:30	Zoom Breakout Sessions:	
	Zoom Breakout Session A: Is Mining Transformation Strategy Being Derailed At The Edge?	
	Alan Seery Chief Technology Officer AQURA Technologies	
	Craig Copes Principal Solutions Architect Australia AQURA Technologies	
	Zoom Breakout Session B: FLIR Ex Series Cameras – Powerful Troubleshooting Tools For Building, Electrical, And Mechanical Applications	
	Steven Blott State Manager Western Australia for FLIR System RS Components + FLIR	
14:30	Innovation Delivering Safety And Productivity Improvements For The Mining Industry	
	Mark Thomas Group Manager Technology & Autonomy Fortescue Metals Group	
14:50	7 Lessons On Mining Automation Whilst Driving Digital Transformation At BHP	
	Coert Du Plessis Data Chief DataAlchemists	
15:10	Afternoon Break	
15:20	Mining With Responsibility: Using The Latest Technology To Address Environmental Concerns In Latin America Mining – The SQM Experience	
	Stefan Debruyne Director, Iodine and Lithium SQM International	
15:40	Sustainability In Mining: How Technology Is Rapidly Improving Sustainability In Mining And Successful Mine Rehabilitations Case Studies	
	Thao D.H. Ngo Group Executive Chairman First Indochina Group, Vietnam	
16:00	Closing Remarks By Conference Chairperson	
	Kate Dickson Director Association of Mining and Exploration Companies (AMEC)	

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10:00-11:30	<p>Autonomous Mining Workshops</p> <p>Workshop A:</p> <p>Experience How A Digital Mine Will Work For You</p> <p>Digital transformation, IIoT, Industry 4.0, Big Data, analytics, wireless sensors, digital twin, mobility, KPI, dashboard, wireless sensors and augmented reality, what do they all mean and what can they do for you? Join this virtual tour of Emerson Solutions Center in Singapore and experience how these digital technologies will transform the way you run and maintain your mine site(s).</p>  <p>Mei Wan Solution Architect Emerson Automation Solutions, Melbourne, Australia</p>  <p>Jonas Berge Senior Director of Applied Technology Emerson Automation Solutions, Singapore</p> 
11:30-12:30	<p>Lunch Break</p>
12:30-14:00	<p>Workshop B:</p> <p>Accelerating The Development Of Autonomous Solutions Through Industry Collaborations</p> <p>Like many sectors, the mining industry is being reimagined with robotics, automation, artificial intelligence, big data and the Internet-of-Things transforming the mining value chain. The imperative for collaboration across the METS ecosystem to develop future technologies and solutions is more pronounced than ever. This panel will showcase how the world's largest provider of explosives technology brought key industry stakeholders and partners together to develop a specific needs-driven solution that will improve both safety and productivity for mining operations.</p>  <p>Nick Harrison Senior Manager Services & Automation Technology Orica</p>  <p>Ben Taylor Manager, Underground Automation Orica</p>  <p>Camilla Spångberg Global Product Manager Epiroc</p>  <p>Lars Bergkvist Global Key Customer Manager Epiroc</p> 
14:00-15:30	<p>Workshop C:</p> <p>Digital Twins Within The Resources Sector: A Spatial Perspective</p> <p>With industry starting on or already a way down a digital twin path, the presentation explores the use of spatial data as a key component to a digital twin.</p> <p>Examining the form of which a digital using spatial datasets can form, concepts such as Level of Detail and spatial datasets are explained and applied to real world examples.</p> <p>It is also described that even the basic of digital twins can be used to optimise plant performance, either through personnel time savings or using connectivity with smart sensors.</p>  <p>Nicholas Davies Digital & Spatial Manager VIC / SA / TAS Veris Australia</p> 