

DAY TWO – 16TH OCTOBER

Session hosted by Fiona Carew, Natural Resources Director, Dassault Systemès

09:00 Host's Opening Remarks

09:10 Big Data & Cloud Fireside Chat: How to drive cultural change to ensure a seamless digital transformation at your mining company

Michelle Ash, *Chief Innovation Officer*, Barrick Gold

Moderated by: Charles Gillies, *Chief Investment Officer*, Jolimont Global Mining Systems

09:40 Cyber Security Keynote: How to minimise network threats that could impact your safety, environmental sustainability and operational productivity

Rob Labbé, *Director, Information Security at Teck Resources and Co-founder and Chair*, Mining and Metals ISAC

10:00 Advanced Process Controls: How to leverage advanced process controls to improve effectiveness at mining operations?

Bob McIntyre, *Senior Process Control Engineer*, Nutrien

10:20 Host's Keynote: Enabling transformation with value-driven virtual twins

Fiona Carew, *Natural Resources Director*, Dassault Systemès

10:40 Exhibition Break and Demo Zone

Demo Zone Programme

10:50 ESG Solutions

11:00 MineLens

11:10 Fluidmesh

Session hosted by: Charles Nyabeze, *VP Business Development*, Center for Excellence in Mining Innovation (CEMI)

11:30 Host's Opening Remarks

11:40 IOT: Digital Project Delivery - How to unlock hidden potential at your mine with digital technology

Randy McMeekin, *Managing Director - Engineering*, Hatch

11:55 IOT: IIoT investment and ROI amongst Canadian and Australian mining businesses

Joe Carr, *Director of Mining Innovation*, Inmarsat

12:10 Virtual Simulation: Mining in the Digital Era

Gauthier Canart, *Mining Solution Leader & Associate Partner*, McKinsey & Company

12:25 IOT: How to optimise technology to boost efficiency and productivity at your mining operation

Salar Javid, *Co-Founder and CEO*, Outliers Mining Solutions Inc.

12:40 Exhibition Lunch and Demo Zone

Demo Zone Programme

13:10 Hatch

13:20 Inmarsat

13:30 Newtrax Tech

13:40 Dassault Systems

14:00 The benefit of using wireless MPLS networks for mining automation: A comparison with WiFi mesh and private LTE

Cosimo Malesci, *EVP Sales & Marketing*, Fluidmesh Networks

14:15 Big Data & Cloud: Pioneering fleet management of electric-powered equipment in underground mines

Jean-Phillip Bouchard, *VP Product Strategy*, Newtrax

14:30 Blockchain: How indigenous entrepreneurs can use trustless technology to rebuild trust in natural resources development using blockchain

Dr Henry Kim, *Co-Director*, BlockchainLab

14:45 Session reserved for Global UAV Technologies

15:00 Exhibition Break

15:30 Innovation Groups

1. Virtual Simulation Innovation Group hosted by **Dassault Systemès**

Challenge: How can simulation be at the center of your digital transformation journey?

Host: Fiona Carew, *Natural Resources Director* and Elie Beignon, *Services Director*, Dassault Systemès

2. IOT Innovation Group hosted by **Inmarsat**

Challenge: Potential uses and benefits for remote, rapidly deployable networks

Host: Joe Carr, *Director of Mining Innovation*, Inmarsat

3. Artificial Intelligence Innovation Group hosted by **VRify**

Challenge: How will AI disrupt mineral exploration?

Host: Stephen de Jong, *CEO*, VRify

4. Cyber Security Innovation Group hosted by **MM ISAC**

Challenge: How to manage security risks for the digital mine

Host: Cherie Burgett, *Director – ISAC Operations*, MM ISAC

17:00 Exhibition Drinks

DAY THREE – 17TH OCTOBER

Session hosted by Joe Carr, Director of Mining Innovation, Inmarsat

09:10 Artificial Intelligence Keynote: Keep Hauling: How to improve your bottom line through AI applications and platform magic

Mohammad Babaei, *Lead, Digital Mining Innovation*, Teck Resources

09:30 Big Data Keynote: How to cost-effectively develop and deploy AI capabilities at your mining operation for a step-change in performance

Ivan Mullany, *Senior Vice President*, Technical Services, Goldcorp

09:50 Artificial Intelligence Keynote: Integrated artificial intelligence model – an innovative method to increase energy efficiency of haul trucks in surface mines

Dr Ali Soofastaei, *Data Analyst and Artificial Intelligence Expert*, Vale

10:10 Artificial Intelligence in Mining: Q&A

Mohammad Babaei, *Lead, Digital Mining Innovation*, Teck Resources

Ivan Mullany, *Senior Vice President*, Technical Services, Goldcorp

Dr Ali Soofastaei, *Data Analyst and Artificial Intelligence Expert*, Vale

Malcolm McRae, *Head of Advanced Analytics*, Vale

10:30 Virtual Simulation Keynote: How to experience mine development and processing plant in 3D with virtual reality technology

Gordana Slepcev, *Chief Operating Officer*, Anaconda Mining

Clark Whiting, *Managing Director*, Cementation

10:50 Exhibition Break and Demo Zone

Demo Zone Programme

11:00 VRify Tech

11:10 Outliers Mining Solutions

11:20 MineLens

Hosted by: Charles Gillies, *Chief Investment Officer*, Jolimont Global Mining Systems

11:40 Host's Opening Remarks

11:50 Virtual Simulation: Profound innovation: Fuelled by Collaboration

Stephen de Jong, *CEO*, VRify Technology

12:05 Automation and Robotics: Best practices of autonomous haulage solutions in mining operations

Mike Brown, *VP, Innovation & Advanced Tech*, SMS Equipment

12:20 Mineral Processing: Changing the way we process minerals with Deep Eutectic Salt (DES) technology

Daniel Major, *Technical Advisor*, Argo Applied Technologies

12:35 Mineral Processing: The trials, tribulations and triumphs of a digital transformation journey

Andrew Cooper, *Energy Specialist*, New Gold

12:50 Networking Lunch Break

14:00 Innovation Groups – The Feedback

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Challenge: To be confirmed

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Challenge: How to manage security risks for the digital mine

Host: Cherie Burgett, *Director – ISAC Operations*, MM ISAC

15:10 Afternoon Tea and end of Mines and Technology