

# LEADERSHIP SUMMIT 2019

## PROGRAM DAY 1

**OCT 22** | CATERPILLAR'S TINAJA HILLS DEMONSTRATION & LEARNING CENTER

**07:30**  
BUS DEPARTURE FROM JW MARRIOTT TUCSON STARR PASS RESORT & SPA

**08:30**  
**WELCOME ADDRESS**  
Jared Harris Field Operations Manager, Caterpillar

**08:45**  
**OPENING REMARKS**  
Michelle Ash GMG Chair

**09:00** **STRATEGY SESSION**  
**2020 VISION: DEFINING THE COLLABORATION STRATEGY**  
We can see the end result – it's time to strategize on how we get there. During this morning's session we will build a clear focus on strategic priorities for the coming year for the industry. Participants will navigate through the following questions:  
1. What is an example of a **successful collaboration** you/your company participated in? Why did it work?  
2. What is an example of an **unsuccessful collaboration** you/your company participated in? Why didn't it work?  
3. What is a priority for **your operation/company** that would be enabled through collaboration, and how?  
4. What is a priority area where more collaboration would **bring value to industry**? What does that look like?  
5. What are the important elements of success when developing a collaboration?

**10:00** ☕

**10:30**  
**REPORT OUT ON 2020 VISION SESSION**

**11:00** **PRESENTATION**  
**GOING AGILE AT FREEPORT-MCMORAN**  
Cory Stevens Vice-President Operational Improvement, Freeport-McMoRan

**11:30** 🎯

**12:15**  
**CATERPILLAR DEMONSTRATION**  
Be treated to a demo of Caterpillar equipment then head onsite to get a close look.

**13:30** **PRESENTATION**  
**BATTERY ELECTRIC VEHICLES IN UNDERGROUND MINING – A CASE STUDY IN THEORY AND PRACTICAL TERMS**  
David Jacques Vice-President Engineering, MacLean Engineering

**14:00** **PRESENTATION**  
**DECARBONIZING ENERGY INTENSIVE INDUSTRIAL SECTORS**  
Ned Harvey Managing Director, Rocky Mountain Institute

**14:30** **STRATEGY SESSION**  
**DEFINING INDUSTRY'S CLIMATE CHANGE ACTION THROUGH THE LENS OF THE CIRCULAR ECONOMY**

**15:00** ☕

**15:30** **PRESENTATION**  
**ICMM INNOVATION FOR CLEANER SAFER VEHICLES (ICSV)**  
Michael Murphy Chief Engineer - Mining Technology Enabled Solutions, Surface Mining & Technology Division, Caterpillar

**16:00** **PANEL**  
**WHAT DO WE NEED TO DO AS AN INDUSTRY TO ELIMINATE DIESEL FROM OUR MINE OPERATIONS?**  
• Ned Harvey Managing Director, Rocky Mountain Institute  
• Mikael Ramstrom Vice-President – Product Portfolio Automation & Interoperability, Epiroc  
• Kalev Ruberg VP Future & CIO, Teck  
• Brian Weller Chief Engineer – Surface Mining and Technology Division, Caterpillar

**16:30** **CAMPFIRE SESSION**  
**HOW WELL WERE YOU LISTENING?**  
Ignite the discussion! Provide feedback, insights and share your experiences.

**17:00**  
**NETWORKING COCKTAIL AND DINNER (HACIENDA ROOM)**

**19:45**  
BUS DEPARTS FOR JW MARRIOTT TUCSON STARR PASS RESORT & SPA

## PROGRAM DAY 2

**OCT 23** | UNIVERSITY OF ARIZONA

**08:35**  
BUS DEPARTURE FROM JW MARRIOTT TUCSON STARR PASS RESORT & SPA

**09:00** **PRESENTATION**  
**PAVING A PATH TO VALUE**  
Kalev Ruberg VP Future & CIO, Teck

**09:30** **PRESENTATION**  
**HOW OFFWORLD'S SWARM ROBOTIC MINING ARCHITECTURE IS OPENING UP THE WAY FOR AUTONOMOUS IN SITU MINERAL EXTRACTION ON EARTH AND IN SPACE**  
James Jason Murray Chief Engineer, Offworld

**10:00** ☕

**10:30** **PANEL**  
**WHAT ARE THE CRITICAL ELEMENTS OF INTEROPERABILITY TO ENABLE TRANSFORMATIVE CHANGE FOR THE MINING INDUSTRY**  
• Glenn Kerkhoff Head Worldwide Business Development, Mining, AWS  
• Michael W. Lewis General Manager – Technology Interoperability, Komatsu  
• Scott Schoepel Vice-President Commercial Markets, Motorola  
• Carlos Erazo Principal Mine Modernisation, Anglo American

**11:00** **STRATEGY SESSION**  
**HOW DO WE ACCELERATE PROGRESS ON MINE INTEROPERABILITY AND HAVE IMPACT IN 2020?**

**11:45** **PRESENTATION**  
**ACCESSING THE FAST AND FURIOUS PACE OF AUTONOMY TO TRANSFORM MINING**  
Satish Rao Partner, Clareo

**12:15** 🎯  
**LUNCH AND TALENT SHOW**  
Take advantage of the break to chat with University of Arizona students and check out their projects.

**13:15** **PRESENTATION**  
**OPEN THE POD BAY DOORS, HAL. OR HUMAN VS. AI**  
Eric Case Information Security Manager, TuSimple

**13:45** **STRATEGY SESSION**  
**RESKILLING AND NEW REQUIREMENTS: IDENTIFYING AND ADDRESSING NEEDS**

**14:30** **PRESENTATION**  
**CREATING THE FUTURE OF MINERAL RESOURCE EDUCATION**  
Mark Barton Co-Director, Lowell Institute for Mineral Resources, and Professor - Geosciences, University of Arizona

**15:00** ☕

**15:30** **FISHBOWL SESSION**  
**KEYS TO A STRONG FUTURE WORKFORCE**  
Diverse perspectives are required to enable global change and mining can only benefit if the workplace is safe and inclusive for all. Listen in as participants discuss the workplace of the future. Want to participate? A few seats will be open for people to jump in and out of the conversation.  
• Michelle Ash Chair, GMG  
• Peter Bullock Solutions and Services Manager – Resources Technology, Accenture  
• Michelle K. Don Carlos Lawyer - Mediator, Law offices of Michelle K. Don Carlos  
• Francinne Hansen HR Leader - North Atlantic and Asian Refineries, Vale  
• Maxelino Nelson Global Industry Leader - Mining and Industry Alliances, IBM

**16:15** **STRATEGY SESSION**  
**COMMITMENT TO ACTION**  
So, what now? How do we make sure action is taken and this isn't just "all talk, no action?". What does industry commitment look like? We're all in this together – let's make change happen.

**19:15**  
BUS DEPARTS FOR JW MARRIOTT TUCSON STARR PASS RESORT & SPA