

GMSG Edmonton Forum 2017

>> COLLABORATION TOWARDS
FUTURE MINING



>> **October 18–19, 2017**

>> **Patrick D. Daniel / Enbridge Conference Room,
Donadeo Innovation Centre for Engineering,
University of Alberta**

REGISTRATION

**STUDENT
REGISTRATION**



Global Mining Standards & Guidelines Group (GMSG), CIM and University of Alberta are hosting a two-day interactive event at the University of Alberta Edmonton, bringing global mining automation and innovation priorities into the regional context. Participants will come from mining companies and their key suppliers, as well as GMSG collaborative partners including SMART and the Canadian ISO TC82 Mining Mirror Committee.

Day one of the forum is focused on autonomy and interoperability in mining, with discussions around how to build on success and collaborate on future innovations.

Day two will observe topics of Maintenance and Equipment Reliability, and sessions on the concept of the connected mine.



>> 08:30

Registration

>> 09:00

Welcome and Day's Objectives

Heather Ednie, GMSG, Managing Director

>> 09:30

GMSG: Collaboration to Build a Strong Future Mining

GMSG Overview, Autonomous Survey, Driving Industry Forward Priorities

Heather Ednie, GMSG, Managing Director

>> 9:10

Opening Remarks

Fraser Forbes, Dean, Faculty of Engineering

Tim Joseph, Associate Dean, Faculty of Engineering

University of Alberta

AUTONOMOUS MINING

>> 10:00

Trialing an Autonomous Blasthole Drill: Unforeseen Operational Improvements

Dan Lucifora, Director, Research and Development, Peck Tech

Michel Plourde, Directeur des systèmes,

ArcelorMittal Exploitation minière Canada

COFFEE BREAK | 10:30

>> 10:45

Autonomous Operations – Lessons Learned and the Next Steps of AHS Evolution

Successes, challenges and focuses today to achieve the next level of maturity and capability.

>> 11:15

NA Autonomous Haulage-Current State, Challenges, and Future in NA Surface Operations

Australia has primarily been the industry leader with deployment of AHS. In North America, to-date there has been small sized implementations. WHY?

Craig Dirk, Chief Operating Officer, KMC Mining

Steve Little, Senior Engineering Advisor, Mine Equipment, Suncor Energy

Ron Jungkind, Lead-Mine Technology, Mine Technical Services, Canadian Natural Resources Limited (CNRL)

Dylan Bennett, Manager, Operational Technology, Teck

LUNCH | 12:30

INTEROPERABILITY

>> 13:30

Break Out Session: Addressing the Barriers and Requirements for Interoperability

>> 15:00

Interoperability: Next Generation for Autonomy

Interoperability and the need and impact on autonomous operations

COFFEE BREAK | 15:30

>> 15:45

GMSG Interoperability Working Group: The Interoperability Collaboration Landscape

Tim Skinner, SMART Systems Group and GMSG

Vice Chair International Standards

>> 16:15

Case Study: Successes Achieved Outside of the Mining Industry

>> 16:45

Day One Wrap-up

DAY TWO

OCTOBER 19, 2017

>> 08:30
Arrival/Registration

>> 9:00
Welcome and Day's Objectives
Heather Ednie, GMSG Managing Director

09:15 – 12:00 RELIABILITY AND OPERATIONAL EXCELLENCE

>> 09:15
Operational Time Model and KPIs
Zoli Lukacs, Gibraltar Mine

>> 9:45
SMART Benchmarking
Golder Associates Inc.

>> 10:15
Roundtable Discussion: Global Benchmarking

COFFEE BREAK | 10:45

>> 11:00
Reliability Working Group

- o Best Practice Model
- o Update on Best Practices Interest Survey
- o Working Groups Update- Work Management Sub-Group

LUNCH | 12:00

12:45 – 5:00 THE CONNECTED MINE

>> 12:45
Autonomous Standards and Regulatory Issues and Challenges

>> 13:45
Cyber Security: Mining and Metals Information Sharing and Analysis Center (MM-ISAC)
Rob Labbé, Teck

COFFEE BREAK | 14:15

>> 14:30
GMSG Innovation Spotlight:

- o Battery Electric Vehicles Underground
- o Short Interval and Real Time Control
- o Mobile Equipment Open Data

Heather Ednie, GMSG Managing Director

>> 15:00
The OMF – Open Mining Format: Detailed Use Cases, and OMF 0.9 Deswik-Leapfrog Integration Demo
Adam Pidlisecky, AranzGeo

>> 15:30
Improvements in Global Trade Value Chain & Digitalization of Marine Operations
Oleg Yefremov, General Manager, ABB Marine & Ports Canada

>> 16:00
Integrated Operations Business Case

>> 16:30
Forum Wrap-up and Next Steps