

INTERNATIONAL  
**MiNE**HEALTH  
AND SAFETY  
CONFERENCE 2020

6-27 AUGUST 2020

## Preliminary Programme

Our International Mine Health and Safety conference is turning into a very special, digital, Pan-Atlantic event. The event has attracted four papers on best practices in health and safety in Canada, and four from the USA. From South America we have a paper from Chile, and from across Southern Africa and North Africa we have 14 papers. Importantly we have experiences on the impacts and aftereffects of the COVID-19 pandemic from South Africa and the USA, and best practices in health and safety from award-winning operations and companies in Canada and Chile. We have enlightening contributions on the increasing involvement of women in mining, as well as presentations on the impact of human factors and effective leadership in health and safety in mines. In addition to these, we have contributions on state of the art technical innovations in mining.

This is stacking up to be a great global event that you and your company can ill-afford to miss. We have designed special packages and discounts for companies to have delegates attending from their mine sites and have tailored the timing of the sessions and presentations to suit the transatlantic time zones. Through Q&A sessions, you will be able to put your questions to the presenters, as all the presentations will be live. We extend our sincere thanks to the Chilean Institute of Mining Engineers, the Canadian Institute of Mining and Metallurgy, and the Society of Mining Engineers for their most valuable assistance in putting this great event together.

- **6 August 2020, Series 1:**  
Systems and processes (14:00–16:50)
- **13 August 2020, Series 2:**  
Canadian Institute of Mining and Metallurgy (14:00–17:00)
- **20 August 2020, Series 3:**  
Technical innovations in supporting health and safety (13:00–16:00)
- **27 August 2020, Series 4:**  
Human Factors enabling Zero Harm (14:00–16:30)

### 6 August 2020 IMHS Series 1 – Systems and processes (14:00–16:50)

- 14:00–14:20 **Guideline for the compilation of a mandatory code of practice for the prevention, mitigation and management of COVID-19 outbreak**  
L. Ndelu, *DMRE, South Africa*
- 14:20–14:30 **Q and A**
- 14:30–14:50 **A Mitigation and management of COVID-19 outbreak**  
J. Erasmus and M. Munroe, *Impala Platinum Limited, South Africa*
- 14:50–15:00 **Q and A**
- 15:00–15:20 **Development and challenges in mine health and safety of the Chilean Mining Industry,**  
G. Pinto, *IIMCh – Chilean Institute of Mining Engineers, Chile*
- 15:20–15:30 **Q and A**
- 15:30–15:50 **Organizational health and safety Initiatives during the pandemic**  
E.J. Haas, *National Institute for Occupational Safety and Health, USA*
- 15:50–16:00 **Q and A**

- 16:00–16:20 **Leadership, culture, and climate—The foundation of safety and health management**  
A.J. Richins and M.G. Nelson, *University of Utah, USA*
- 16:20–16:30 **Q and A**
- 16:30–16:50 **Preventing the Spread of COVID-19 in the Mining Workplace**  
J.E. Kogel, E.J. Haas, and G.S. Poplin, *National Institute for Occupational Safety and Health, USA*

### 13 August 2020 IMHS Series 2 - Canadian Institute of Mining and Metallurgy (14:00–17:00)

- 14:00–14:10 **Welcome Address**  
CIM
- 14:10–14:40 **Beyond process and culture – The ongoing journey to zero in the Canadian mining industry**  
R. Slack, *Cementation Americas, Canada*
- 14:40–14:50 **Q and A**
- 14:50–15:20 **Case Study: Voisey Bay Mine JT Ryan National Award Winner Select Mines 2020**  
G. Annett, *Vale, Canada*
- 15:20–15:30 **Q and A**
- 15:30–16:00 **Case Study: DeBeers Canada, Gahcho Kué Mine,**  
K.S. Bhangu, *DeBeers Group Managed Operation, DeBeers Group, S&SD, Calgary, Canada*
- 16:00–16:10 **Q and A**
- 16:10–16:40 **A Canadian Safety Professional's Journey - What I've learned about systems and culture**  
M. Parent, *Prevention Services at Workplace Safety North, Canada*
- 16:40–16:50 **Q and A**
- 16:50–17:00 **Closing**

## Preliminary Programme *(continued)*

### 20 August 2020 IMHS Series 3 – Technical innovations in supporting health and safety (13:00–16:00)

- 13:00–13:20 **Application of machine learning in occupation health and safety**  
I. Mabala, *The University of the Witwatersrand, South Africa*
- 13:20–13:30 **Q and A**
- 13:30–13:50 **Improving health and safety initiative and best practices in artisanal and small-scale mining in Africa - A Case Study Liberia**  
S. Barrie, *The South Dakota School of Mines, USA*
- 13:50–14:00 **Q and A**
- 14:00–14:20 **An investigation into the signs and symbols used in health and safety communication in South African mining**  
L. Scott and M. Goncalves, *Health and Safety Dialogue Company Ltd, South Africa*
- 14:20–14:30 **Q and A**
- 14:30–14:50 **Real-time monitoring of tailings dam stability using ambient seismic noise**  
F. Malan, O. Goldbach, G. Goldswain, G. Olivier, and T. de Wit, *Institute of Mine Seismology, South Africa*
- 14:50–15:00 **Q and A**
- 15:00–15:20 **Factors to be considered when applying atmospheric corrections to distance measurements: a case study of the Leica GeoMoS installation at Orapa, Letlhakane and Damtshaa mines**  
O. Randall<sup>1</sup> and H. Thomas<sup>2</sup>, <sup>1</sup>*Debswana* and <sup>2</sup>*The University of Witwatersrand, South Africa*
- 15:20–15:30 **Q and A**
- 15:30–15:50 **TBC**  
T. Mapeta, S.M. Rupprecht, *University of Johannesburg, South Africa*
- 15:50–16:00 **Q and A**

### 27 August 2020 IMHS Series 4 – Human factors enabling zero harm (14:00–16:30)

- 14:00–14:20 **Improving women participation in the MMS sector in South Africa: The role of technology and skills development**  
V.A. Atud and L. Zungu, *Atud and Associates, South Africa*
- 14:20–14:30 **Q and A**
- 14:30–14:50 **Insights into the participation of women in artisanal mining in South Africa**  
P.F. Ledwaba and N. Mutemeri, *University of the Witwatersrand, South Africa*
- 14:50–15:00 **Q and A**
- 15:00–15:20 **Breaking down the silos to create precision occupational health and safety using data science and video analytics**  
M.C. Silberbauer, *Stonethree, South Africa*
- 15:20–15:30 **Q and A**
- 15:30–15:50 **A valuation of leadership attributes for sustainable safety improvements in mining**  
D. Motswadire, *DM Minerals Group, South Africa*
- 15:50–16:00 **Q and A**
- 16:00–16:20 **Worker involvement in equipment development processes in the modernising mining sector in South Africa**  
J. Pelders, S. Hlatshwayo, M. Murambadoro, and S. Schutte, *CSIR Mining Cluster, South Africa*
- 16:20–16:30 **Q and A**