

# Preliminary Programme · Mine Planner's Colloquium · 22–23 May 2019

## Day 1 – 22 May 2019

- 07:00–08:00 **Registration Opens & Early Morning Refreshments**
- 08:00–08:05 **Safety Briefing and Emergency Proceedings**
- 08:05–08:15 **Welcome and Opening**  
M. Woodhall, *Conference Chairperson*
- 08:15–08:30 **SAIMM Presidential Address**  
A.S. Macfarlane, *SAIMM President*
- Session: 1 Across the value chain**  
**Session Chairperson:** M. Woodhall, *MineRP*
- 08:30–09:10 **Keynote:**  
A.S. Macfarlane, *Mandela Mining Precinct*
- 09:10–09:35 **Surface haul road design considerations in mine planning**  
S.M. Rupprecht, *University of Johannesburg*
- 09:35–10:00 **Determination of a polynomial correlation between the rolling Resistance, Cycle time and the Fleet size in the KOV pit (Democratic Republic of Congo)**  
A.M. Kasiya, P.M. Mukonki, and M. Kipili, *University of Lubumbashi*
- 10:00–10:25 **Mid-Morning Refreshments**
- 10:25–10:50 **Prediction of blast vibrations from Quarries using machine learning algorithms and empirical formulae**  
B. Morena, *University of the Witwatersrand*
- 10:50–11:15 **The integration of mine planning with environmental and rehabilitation planning to develop robust models to compile with future NEMA requirements**  
M. Cooper, *Deswik Mining*
- Session: 2 Getting into the detail**  
**Session Chairperson:** C. Musingwini, *University of the Witwatersrand*
- 11:15–11:40 **Unified Spatial Management and mine planning in a caving environment**  
A. Hall, *MineRP*
- 11:40–12:05 **Debottlenecking the Karowe diamond mine**  
T. Tshekiso, E. Mbuya, and M. Samuel, *Lucara Karowe Diamond Mine, Lucara*
- 12:05–12:30 **A stochastic block economic value model**  
T. Tholana, C. Musingwini and M.M. Ali, *University of the Witwatersrand*
- 12:30–13:30 **Lunch**
- Session: 3 The practical and the academic**  
**Session Chairperson:** S.M. Rupprecht, *University of Johannesburg*
- 13:30–13:55 **System integration and reduction in time to produce a plan**  
D. Hanekom, *Anglo American*
- 13:55–14:20 **Analysis of the Particle Swarm Optimisation algorithm for application in stope layout optimisation for underground mines**  
A.S. Nhleko and C. Musingwini, *University of the Witwatersrand*
- 14:20–14:45 **Analysis of the profitability of Mining the Old Gecamines KOV-pit conveyor belt on the existing Mining reserves (Democratic Republic of Congo)**  
P.M. Mukonki, A.M. Kasiya and M.K. Kipili, *University of Lubumbashi, ISTA-Kolwezi*
- 14:45–15:10 **Mine Planning Paradoxes**  
A.M. Neale, *Deswik Mining*
- 15:10–15:15 **Close Day 1**
- 15:15–17:00 **Network Cocktail**

## Day 2 – 23 May 2019

- 07:00–08:00 **Registration Opens & Early Morning Refreshments**
- 08:00–08:05 **Safety Briefing and Emergency Proceedings**
- 08:05–08:15 **Welcome**  
M. Woodhall, *Conference Chairperson*
- Session: 4 New technology, new skills**  
**Session Chairperson:** B. Meyer, *University of Pretoria*
- 08:15–08:55 **Keynote:**  
A. Lane, *Deloitte*
- 08:55–09:20 **Application of advanced tools in integrated mine to mill planning to improve the process productivity**  
N. Plint, *University of Queensland*
- 09:20–09:45 **The competitive advantage of having integrated spatial data systems to quickly respond in crisis events – a demonstration of digitalisation**  
B. van Staden, *Deswik Mining*
- 09:45–10:10 **Transforming Mine Planning**  
J. van den Berg, *MineRp*
- 10:10–10:35 **Mid-morning refreshments**
- 10:35–11:20 **Panel Discussion: The future of mine planning – technology and skills**
- Session: 5 Getting more from the data**  
**Session Chairperson:** G. Lane, *Vuuma*
- 11:20–11:45 **Deep learning - a new paradigm for domain modelling**  
S. Sullivan, *Maptek*
- 11:45–12:10 **TBC**  
M. Delpont, *Seequent*
- 12:10–13:10 **Lunch**
- 13:10–13:35 **Mining Project Mobile App**  
G. Crawley, *School of Rock*
- 13:35–14:00 **Demonstration of an operating mine's digital twin – MineRP VR team**  
F. Megannon, *MineRP*
- 14:00–14:25 **Afternoon refreshments**
- Conference Close:** M. Woodhall, *MineRP*