

MineSafe Conference—Preliminary Programme 31 August – 1 September 2016

31 August 2016

- 07:00–08:00 **Registration and early morning refreshments**
- Session 1** **Session Chairman: T. van der Berg**
- 08:00–08:10 **Opening**
Conference Chairman
- 08:10–08:45 **Keynote Address:**
M. Hermanus, *CSIR*
- 08:45–09:10 **Legacy rehabilitation at Tweefontein**
G. Stenzel, *Glencore*
- 09:10–09:30 **Occupational health, hygiene, safety, and engineering: different points on the same timeline**
C.J. Badenhorst, *Anglo American plc*
- 09:30–09:50 **Addressing fall-of-ground-related safety and productivity through implementation of fundamental rock engineering design practices in the industry**
J. Walls, *SRK Consulting, Project done on behalf of MHSC*
- 09:50–10:00 **Sponsor Presentation: Mine Health and Safety Council**
- 10:00–10:30 **Mid-Morning Refreshments**
- Session 2** **Session Chairman: L. Tsele**
- 10:30–10:50 **Medical incapacity, morbidity, and mortality in the SA mining industry**
T. Balfour-Kaipa, *Chamber of Mines of South Africa*
- 10:50–11:10 **Fluid-induced seismicity in the Central Rand Basin area: ground motion prediction and the development of an early warning system for risk reduction**
A. Cichowicz and D. Birch, *Council for Geoscience, Project done on behalf of MHSC*
- 11:10–11:30 **Keeping your finger on the pulse of safety culture**
G Heger, *Saacosh*
- 11:30–11:50 **Safety—A holistic approach to behaviour modification**
F. Naude*, M. Steenkamp†, and V. Raison‡, *AMMSA, †AMIHRP, and ‡Consultant
- 11:50–12:00 **Sponsor Presentation: New Concept Mining**
- 12:00–13:00 **Lunch**
- Session 3** **Session Chairman: M. Tlala**
- 13:00–13:35 **Keynote Address**
A. MacFarlane, *Tomahee*
- 13:35–13:55 **Waterval smelter and ACP play their part in Arbor Week tree planting and clean-up campaign in their communities**
K. Mntambo, *Anglo American*
- 13:55–14:15 **Mitigating the risk of occupational illnesses**
I. Labuschagne, *Sasol Mining, South Africa*
- 14:15–14:35 **Safety management systems and achievement**
S. Segula and A.K.B. Chigwada, *Zimbabwe Platinum Mines (Zimplats)*
- 14:35–14:55 **Constructing and blasting close to critical structures**
E. Badenhorst, *DRA*

- 14:55–15:30 **Mid-afternoon refreshments**
- Session 4** **Session Chairman: J. Baker**
- 15:30–15:50 **In our own voices: the risks and benefits of being a workplace health and safety representative on a South African mine**
N. Coulson, *University of Witwatersrand*
- 15:50–16:10 **Lessons learned from cable theft at South Witbank Colliery**
L. Rampfumedzi, *Glencore*
- 16:10–16:30 **Black Mountain Mining's harm prevention model—top-down based approach 'best in class'**
J. Erasmus and M. Munroe, *Vedanta*
- 16:30–16:50 **Neurosafety: How decision making is impacted by a fear culture**
M. Bosman, *Saacosh*
- 16:50–17:00 **Closing Remarks**

1 September 2016

- 07:00–08:00 **Registration & early morning refreshments**
- Session 5** **Session Chairman: L. McMaster**
- 08:00–08:05 **Opening: Conference Chairman**
- 08:05–08:35 **Keynote Address**
L. Kgatle, *Sasol*
- 08:35–08:55 **The use of mineralogical techniques to evaluate and predict the behaviour of gold ore tailings samples on acid mine drainage formation**
V. Govender, C.L. Bushell, and O. Bhazko, *Mintek*
- 08:55–09:15 **Harmony's journey to employee health and safety**
T. Legobye, *Harmony Gold Mining Company Limited*
- 09:15–09:35 **Equipment safety and performance improvement through the use of a collision avoidance system**
F. Kritter and T. Ruff, *Hexagon Mining, Switzerland and USA*
- 09:35–09:55 **Mapping the Sasol Mining ground control journey from past to safe future**
M. Henderson and D. Postma, *Sasol Mining*
- 09:55–10:15 **The challenges of retrofitting modern interlocked station safety devices to older shafts**
V.C. Townsend, *Impala Platinum Limited*
- 10:15–10:25 **Sponsor Presentation: MSA Africa Ltd**
- 10:25–10:55 **Mid-Morning Refreshments**
- Session 6** **Session Chairman: M. Valenta**
- 10:55–11:15 **Dust control at Black Mountain Mining**
D. Mellet and J. Erasmus, *Vedanta Zinc International*
- 11:15–11:35 **Re-design of a mine health system**
J. Malemela, *Sibanye Gold*
- 11:35–11:55 **Electronic incident reporting and incident management in a database**
P. Coetzer, *Royal Bafokeng Platinum*
- 11:55–12:15 **Lessons from the roll-out of a new centralised electronic blasting system across several operational shafts**
W. Odendaal, *Impala*
- 12:15–12:35 **Nordgold: risk assessment methodologies as prerequisite for safety performance**
I. Shelukhin, *Nordgold LLC*

MineSafe Conference—Preliminary Programme 31 August – 1 September 2016

- 12:35–13:15 **Lunch**
- Session 7** **Session Chairman: K. Hewitson**
- 13:15–13:35 **Development of Exxaro's water liability estimation model**
E. Mochubele, S. Swart, and D. Bopape, *Exxaro Resources Ltd*
- 13:35–13:55 **Air quality management in coal mining: implementation and challenges**
L. Khumalo, *Exxaro Resources Pty Ltd*
- 13:55–14:15 **Irenedale North Mine's safety journey**
N.E. Zwane and M.N. Ritshuri, *Sasol*
- 14:15–14:35 **Establishing Critical Behaviours for the most Critical Occupations**
A Setlodi, M Mojahi, and K Magano, *Impala*
- 14:35–14:55 **Industry Buy and Maintain Quiet Initiative (IBMQI)**
J. Janse van Rensburg, *Implala Platinum*
- 14:55–15:20 **Mid-afternoon refreshments**
- Session 8** **Session Chairman: K. Leseyane**
- 15:20–15:40 **Presentation: Applied theatre and film—the gateway to behavioural based safety**
C.Swart, *Adjustment Bureau*
- 15:40–16:00 **How we almost lost the mine: the success story of handling excess fissure water following major fall of ground**
I.T. Tshabalala, *Modder East Operations (NKG M)*
- 16:00–16:20 **In-stope dust control at Beatrix Gold Mine**
J.J.L. du Plessis* and M.I. van der Bank†, **University of Pretoria* and †*Beatrix Gold Mine*
- 16:20–16:40 **Leading practice — a fresh approach**
R. Rademann, *AngloGold Ashati*
- 16:40–16:50 **Closing Remarks**

POSTERS

- Black Mountain (Gamsberg) Mining's approach to managing conflict with neighbouring farmers regarding groundwater**
P. Venter, A.M. Cloete, and J. Erasmus, *Vedanta*
- Black Mountain Mining's harm prevention model—bottom-up risk-based approach 'Forward with Basics'**
L Breedt and J Erasmus, *Vedanta*
- Lisheen Mine—the new benchmark for mine closure safety & environmental assurance, closure plan implementation and continuous stakeholder engagement**
M. Munroe, and J. Erasmus, *Vedanta*
- New approaches to inducting employees in the mining sector on dangers related to thermal stress and preventative measures (Iyashisa board game)**
K.E. Leseyane, *Mine Health and Safety Council*
- Noise at a South African underground manganese mine: status quo and resulting hearing conservation programme**
A.D. Kombo Tsoumbou, A.F. Mulaba-Bafubiandi, and S.M. Rupprecht, *University of Johannesburg*
- Nutrition in regards to fatigue**
D. Potter, *Fatigue Management Education - PRISM*
- Towards improving workplace safety inspection management through use of simple low-cost risk management technique: the case of Skorpion Zinc mine, 2016**
M. Mukwashi* and S. Terblanche†, **Skorpion Zinc mine* and †*Vedanta Zinc International: Africa and Ireland, Namibia*
- The mobile immersive training centre concept**
H.D. Darwish*, E.P. Preis†, and J. Jacobs†, **North-West University* and †*University of Pretoria*
- Organizational behaviour modification: a practical approach to culture transformation in the context of the organization's internal environment**
W. Lombaard, *Expectra International*
- Improving traffic safety in the loading area**
F. Kritter and T. Ruff, *Hexagon Mining, Switzerland and USA*
- Successful prosecution in the mining industry (south Gauteng)**
P. Nelwamondo and M. Mpanza, *University of Johannesburg*
- Complementary sources of data within a mining district—a unique situation**
M. Grobbelaar, D. Birch, and A. Cichowicz, *Council for Geoscience, Project done on behalf of MHSC*
- From acid to asset—Exxaro's acid mine drainage remediation project at Glisa Mine –**
J. Castillo, A. Gomez-Arias, J.J. Posthumus, M.D. Welman-Purchase, E. van Heerden, and D. Somai, *University of the Free State and Exxaro Resources Limited*