

MINE SAFE

MINE HEALTH AND SAFETY CONFERENCE 2024

ELIMINATING HARM
THROUGH CRITICAL
CONTROL COMPLIANCE



HYBRID CONFERENCE

6-7 NOVEMBER 2024 – CONFERENCE

8 NOVEMBER 2024 – INDUSTRY AWARDS DAY
EMPERORS PALACE CONVENTION CENTRE



ECOSA Validated CPD Activity,
Credits = 0.1 points per hour attended.

MINESAFE FINAL PROGRAMME

Wednesday, 6 November 2024

08:00-08:30	Registration	11:45-12:05	A look at reducing the environmental impact of mining and metallurgical processes by employing circular economy principals and the challenges of implementation H. Booysen ¹ and H. Grobler ² , ¹ Samancor, and University of Johannesburg, South Africa (Presented by R. Meyer)
08:30-08:35	Welcome and Opening: Conference Chairperson L. McMaster, Minerals Council, South Africa	12:05-12:25	Developing an automated system for analysing regulatory paperwork, permits, and compliance reports to ensure adherence to MHSA requirements in mining K.B. Mwamba and N. Ndiweni, University of Johannesburg, South Africa
08:35-08:40	Safety Briefing Venue Official	12:25-13:25	Lunch
08:40-08:55	SAIMM Presidential Address E. Matinde, SAIMM President, South Africa	Session 2:	
Session 1		Session Chair: P. Mardon, Solidariteit, South Africa	
Session Chair: L. McMaster, Minerals Council, South Africa		13:25-13:45	Post employment medical care framework N. Moyo, Minerals Council, South Africa
08:55-09:25	Keynote Address: Preventing another health tragedy: A framework to manage DPM in underground mines C.J. Badenhorst ^{1,2} , J.D Swanepoel ³ , and S. Horn ¹ ¹ North-West University, South Africa, ² University of Wollongong, Australia, ³ D'Sayensi Occupational Hygiene, South Africa	13:45-14:05	Eco-friendly mining: Challenges for the mining supply industry? O. Drusche, Technische Hochschule Georg Agricola, Germany (Online Presentation)
09:25-09:45	Algorithms and data: A strategy for the successful implementation of machine learning in rock engineering to enhance safety R.T. Masethe ¹ and A.C. Adoko ² , University of KwaZulu-Natal, South Africa and ² Nazarbayev University, Kazakhstan	14:05-14:25	Enhancing underground mine safety through rockmass instrumentation L. Scheepers ¹ , P. Lenegan ¹ , F. Pienaar ² , and H. Hoogenboezem ³ , ¹ SibanyeStillwater, ² Mining Product Developments and ³ Hoogenboezem Industries, South Africa
09:45-10:05	IMS Hub: Mining houses working together to reduce fatalities with simplified and visualised safety standards J. Chipps, Jincom, South Africa	14:25-14:45	Enhancing continuous risk management through integration with critical control management plans A. Boaduo, Gold Fields, South Africa
10:05-10:15	Sponsor Presentation  Menar Capital (Pty) Ltd	14:45-15:05	Cannabis use and its impact on health and safety in the South African mining industry N. Tlotleng ^{1,2,3} , Z. Nkosi ¹ , and F. Magweregwede ¹ , ¹ Mine Health and Safety Council, ² University of Pretoria and ³ University of the Witwatersrand, South Africa
10:15-10:25	Sponsor Presentation  Enaex Africa (Pty) Ltd	15:05-15:25	Afternoon Refreshments
10:25-10:45	Mid-Morning Refreshments	15:25-15:45	Fraser Alexander tailings division's journey towards zero harm – A case study S.M. Thema, Fraser Alexander, South Africa
10:45-11:05	Climate change and workplace health in South Africa: Emerging hazards and mitigation strategies M. Janse van Rensburg, Mine Ventilation Society of South Africa and South African Institute of Occupational Hygiene, South Africa (Online Presentation)	15:45-16:05	Psychological safety in African mining N. Gage, Safety Collaborations, South Africa
11:05-11:25	Eliminating harm through critical control compliance O.S.A. Mc Cree, Past President – Association of Mine Safety Professionals of South Africa	16:05-16:25	Critical controls for seismic risk management in deep level gold mines L. Scheepers, SibanyeStillwater, South Africa
11:25-11:45	Striving towards Zero Harm and fatalities from occupational health conditions T. Balfour, Minerals Council, South Africa	16:25	Day 1 Conference Close

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MINERALS COUNCIL
SOUTH AFRICA



SAIMM
THE SOUTHERN AFRICAN INSTITUTE
OF MINING AND METALLURGY

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MINESAFE FINAL PROGRAMME

Thursday, 7 November 2024

- 08:00-08:30 **Registration**
- 08:30-08:35 **Welcome and Opening: Conference Chairperson**
M. Letebele, AMMSA President, South Africa
- 08:35-08:40 **Safety Briefing**
Venue Official
- Session 3**
Session Chair: T. Legobye, Hamony Gold, South Africa
- 08:40-09:10 **Keynote Address: TBC**
T. Molosiwa, DeBeers, South Africa
- 09:10-09:30 **Harmony integrated safety journey**
T. Gazi, G. Herholdt, and L. Maepe, Harmony, South Africa
- 09:30-09:50 **Critical risks unveiled: The imperative of broad-brush risk assessments**
C. Young, Impress Solutions, Australia
(Online Presentation)
- 09:50-10:10 **Acoustic device for recording and tracking rock hazards on the mining face**
H. Greeff¹, M. Pienaar², and J. Hanekom¹, ¹Council for Scientific and Industrial Research and ²Mandela Mining Precinct, South Africa
- 10:10-10:20 **Sponsor Presentation** 
Timrite
- 10:20-10:30 **Sponsor Presentation** 
Mine Health & Safety Council
- 10:30-10:50 **Morning Refreshments**

Poster Session

- Session Chair:**
- 10:50-10:55 **Update the South African mining rock stress measurement database**
Z. Nkosi, Mine Health and Safety Council, BKM Engineering, South Africa
- 10:55-11:00 **Study on good ledging practices and the development of virtual video training material based on good ledging practices**
Z. Nkosi, Mine Health and Safety Council and Enterprises University of Pretoria, South Africa
- 11:00-11:05 **From suspicion to submission – an occupational lung disease handbook**
V.G. Govender, Masakhane Strategic Health Consulting (Pty) Ltd, South Africa

- 11:05-11:10 **Empowering miners: The key to safer underground operations**
N. Weideman¹, D. Piketh¹, M. Armstrong², and M. Pienaar², ¹Stratify Seeker and ²Mandela Mining Precinct, South Africa
- 11:10-11:15 **Major mining companies are shifting to biological dust control, a new and validated method that serves as a crucial addition to HSE and water management strategies**
A.C. McHaffie, Blind X, South Africa
End of Poster Session
- Session 4**
Session Chair: TBC
- 11:15-11:35 **Striving for Zero Harm in the development end**
E. Adlard, Salzgitter Mzansi (Pty) Ltd, South Africa
- 11:35-11:55 **AI-assisted geophysical safety measurements in underground mines**
T. Schicht¹, S. John¹, S. Lüning¹, and B. Kratz², ¹K-UTEC, and ²Castalytics, Germany
(Online Presentation)
- 11:55-12:15 **The journey of the SAMI on the 2014 MHSC milestones**
W. Deyssel, Minerals Council, South Africa
- 12:15-13:15 **Lunch**
- 13:15-13:35 **The dynamics of and limits to reliability-based safety management in complex socio-technical systems: A mining industry case study of safety rule violation behaviour**
T. Mariri and A. Odendaal, Stellenbosch University, South Africa
- 13:35-13:55 **Is the mining industry ready to embrace virtual reality?**
M. Hocker, Boiler Room, South Africa
- 13:55-14:15 **Assessment of the Managers' Certificate of Competency Part C Examination during 2010-2019**
N. Ndiweni and M. Mpanza, University of Johannesburg South Africa
- 14:15-14:35 **Leveraging digital twins and virtual reality in mining incident investigations: Unlocking the 'Black Box' of incident data**
J. van Dalen and H. Dippenaar, Dayenu Mining Consultants, South Africa
- 14:35-14:55 **Improving occupational health, risk, and safety management: The syncromine risk management software module by Mineware Consulting**
W. Minnie, Mineware Consulting, South Africa
- 14:55 **Day 2 Conference Close**