

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



Conference Registration Link

Industry Awards Day Registration Link



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

ABSTRACTS RECEIVED

Assessment of the Mine Managers' Certificate of Competency (MMCC) Part C examination over the past

N. Ndiweni and M. Mpanza, *University of Johannesburg, South Africa*

Algorithms and Data: A roadmap for practical Machine Learning adoption in Rock Engineering in improving safety

R. Masethe, *Sibanye-Stillwater, South Africa*

Eliminating harm through critical control compliance

L. Scheepers, *Sibanye-Stillwater, South Africa*

Striving for Zero Harm in the Development End

T. Adlard, *Salzgitter Mzansi (Pty) Ltd, South Africa*

Developing an automated system for analysing regulatory paperwork, permits, and compliance reports to ensure adherence to MSHA requirements in mining

K.B. Mwamba and N. Ndiweni, *University of Johannesburg, South Africa*

Enhancing mine safety through comprehensive data and instrumentation

L. Scheepers¹, P. Lenegan¹, F. Pienaar², and H. Hoogenboezem³,
¹Sibanye Gold, ²Mining Product Developments and ³Hoogenboezem Industries, South Africa

Enhancing continuous risk management through integration with critical control management plans

A. Boaduo, *Gold Fields, South Africa*

Update the South African mining rock stress measurement database

Z. Nkosi, *Mine Health and Safety Council, South Africa*

Cannabis use and its impact on health and safety in the South African Mining Industry

N. Tlotleng, *Mine Health and Safety Council and Mundele Business Consultancy*

Assess the feasibility of utilising exhaled breath screening as an accurate and reliable alternative to blood sample analysis as a method to indicate over-exposure to carbon monoxide (CO)

F. Magampa, *Mine Health and Safety Council and Enterprises at the University of Pretoria, South Africa*

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, South Africa*

Determine best/leading preconditioning practices applicable for shallow, intermediate, deep and ultra-deep mining; taking cognisance of rock strength, rock type, and mining method

Z. Nkosi, *Mine Health and Safety Council, South Africa*

Improving occupational health, risk, and safety management: The Syncromine Risk Management Software Module by Mineware Consulting

W. Mienie, *Mineware, South Africa*

From suspicion to submission – an occupational lung disease handbook

V.G. Govender, *Masakhane Strategic Health Consulting (Pty) Ltd, South Africa*

Fraser Alexander Tailings Division's journey towards Zero Harm – A case study

S. Makete Thema, *Fraser Alexander, South Africa*

Acoustic device for recording and tracking rock hazards on the mining face

H. Greeff, M. Pienaar, and J. Hanekom, *Council for Scientific and Industrial Research Mandela Mining Precinct, South Africa*

Zero-Logging Project

G. Baloyi, *Kumba Iron Ore, South Africa*

Harmony integrated safety journey

T. Gazi, G. Herholdt, and L. Maepe, *Harmony, South Africa*

Empowering Miners: The key to safer underground operations

N. Weideman¹, D. Piketh¹, M. Armstrong¹, and M Pienaar²,
¹STRATAFY and ²Mandela Mining Precinct, South Africa

Climate change and workplace health in South Africa: Emerging hazards and mitigation strategies

M. Janse van Rensburg, *Siyanda Platinum, South Africa*

Eco-friendly Mining: Challenges for the Mining Supply Industry?

O. Drusche, *TH Georg Agricola University, Germany*

Psychological safety in African Mining

N. Gage, *Safety Collaborations, South Africa*

IMS HUB: mining houses working together to reduce fatalities

J. Chippis, *Jincom, South Africa*

Eliminating harm through critical control compliance

O. McCree, *Implats, South Africa*

Preventing another Health Tragedy: A framework to manage DPM in underground mines

C.J. Badenhorst, *Glencore, South Africa*

Post employment medical care framework

N. Moyo, *Minerals Council, South Africa*

AI-assisted geophysical safety measurements in underground mines

T. Schicht, S. John, S. Lüning, and B. Kratz, *K-UTEC, Germany*

The journey of the SAMI on the 2014 MHSC milestones

W. Deysel, *Minerals Council, South Africa*

Risk assessment in TMM surface mining

G. Gonste, *Bauba, South Africa*

The dynamics of and limits to reliability-based safety management in complex socio-technical systems: a mining industry case study of safety rule violation

T. Mariri and A. Odendaal, *Stellenbosch University, South Africa*

Striving towards zero harm and fatalities from health conditions

T. Balfour, *Minerals Council, South Africa*

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

J. Reznicek, *Blind X, South Africa*

A look at reducing the environmental impact of mining and metallurgical processes by employing circular economy principals and the challenges of implementation

H. Booysen, *Samancor, South Africa*

Is the mining industry ready to embrace virtual reality?

M. Hocker, *Boiler Room, South Africa*