

HYBRID CONFERENCE

19-20 NOVEMBER 2025 – CONFERENCE
21 NOVEMBER 2025 – INDUSTRY AWARDS DAY
 EMPERORS PALACE CONVENTION CENTRE

ECSA and SACNASP Validated CPD Activity Credits = 0.1 per hour attended



PRELIMINARY PROGRAMME

Conference Day 1 - Wednesday, 19 November 2025

- 08:00-08:30 **Registration**
- 08:30-08:35 **Welcome and Opening Address**
 G. van Greunen, Conference Chairperson, Impala, South Africa
- 08:35-08:40 **Safety Briefing**
 Venue Official
- 08:40-08:55 **SAIMM Presidential Address**
 G.R. Lane, SAIMM President
- 08:55-09:25 **Keynote Address: The step change to zero fatalities**
 L. McMaster, Sibanye-Stillwater, South Africa
- 09:25-09:45 **The legal landscape of preventing and managing GBV in the South African mining industry**
 K. Collier, Weber Wentzel, South Africa

Session 1: Health and Safety

Session Chair:

- 09:45-10:05 **Real-time temperature profiling in underground mines: a proof of concept using distributed temperature sensing based on optical fibre**
 Y. Hleta¹, M. Mochubele², P.D. Seroba², ¹PositionNXT,
²University of the Witwatersrand, South Africa
- 10:05-10:25 **Audit of safety and health systems at room and pillar salt mine: Findings, challenges, and opportunities for improvement**
 M.Z. Emad, King Fahd University of Petroleum and Minerals, Saudi Arabia
- 10:25-10:45 **Mid-Morning Refreshments**
- 10:45-10:55 **Sponsor Presentation**
 Forwood, Australia
- 10:55-11:05 **Sponsor Presentation**
 Zhixin Electric, South Africa

Session 2: Health and Safety

Session Chair:

- 11:05-11:25 **Reducing mining health and safety risks through nonexplosive mining**
 A.S. Macfarlane, Rock Eater (Pty) Ltd, South Africa
- 11:25-11:45 **Identifying safety risks and future research directions in the pursuit of zero harm in south african mines: A review of mine health & safety council initiatives**
 L.A. Maseko, University of South Africa, South Africa

- 11:45-12:05 **Getting to Zero OLDS & TB infections in the SAMI - Is it feasible?**
 N. Moyo, Minerals Council South Africa, South Africa
- 12:05-12:25 **Evaluating the performance of expansive agents in an open-cast mine: Field study**
 M. Mekgwe, T.M. Mmola, University of Johannesburg, South Africa
- 12:25-12:45 **Towards eliminating fall of ground incidents in underground mines: Lessons from Australia for the Southern African context**
 A. Mapuranga, SAIMM, ECSA, EA, Australia
- 12:45-13:45 **Lunch**

Session 3: Safety

Session Chair:

- 13:45-14:05 **Beyond compliance: Addressing psychosocial risks in Southern African Mining integrating Ubuntu, systems thinking, and innovative practices for a sustainable workforce**
 A.K.B. Chigwada, SAIMM, FAuSIMM, Australia
- 14:05-14:25 **Ground stability assessment and remediation strategies for a salt mine: A case study**
 M.Z. Emad, King Fahd University of Petroleum and Minerals, Saudi Arabia
- 14:25-14:45 **Optimising mine design parameters for enhanced safety and operational efficiency**
 N.O. Ogunsola, W.B. Motlhabane, University of Johannesburg, South Africa
- 14:45-15:05 **Harmonising technology and management of change to strengthen safety culture**
 J. Savit, Hexagon, South Africa
- 15:05-15:25 **Bridging the compliance gap: Tailored technology solutions for south african mine safety regulations**
 J.J. van Dalen¹, D. Sparrow², B. Hart³, ¹Dayenu Mining Consultants, ²Cybarete, ³Metal Management Solutions, South Africa
- 15:25 **Day 1 Conference Close and Afternoon refreshments**

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MINERALS COUNCIL
SOUTH AFRICA



SAIMM
THE SOUTHERN AFRICAN INSTITUTE
OF MINING AND METALLURGY



SANIRE
SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING



PRELIMINARY PROGRAMME

Conference Day 2- Thursday, 20 November 2025

- 08:00-08:30 **Registration**
- 08:30-08:35 **Welcome and Opening Address**
G. van Greunen, *Conference Chairperson, Impala, South Africa*
- 08:35-08:40 **Safety Briefing**
Venue Official
- 08:40-09:10 **Keynote Address: TBC**

Session 4: Safety

Session Chair:

- 09:10-09:30 **Vertical mine shaft rescue and recovery operation at 1289 m: A world first success**
M. Fourie, *Mines Rescue Services, South Africa*
- 09:30-09:50 **An AI-based framework for optimal mine safety risk assessment: Application to Iranian mining operations**
M.H. Shokri, E. Moosavi, R. Shirinabadi, *Islamic Azad University, Iran*
- 09:50-10:10 **Understanding lithium-ion battery chemistries, safety considerations, and suppression challenges in the mining industry**
A. Townsend, J. Van Rensburg, H. Olivier, *North-West University, South Africa*
- 10:10-10:30 **Mid morning refreshments**
- 10:30-10:40 **Sponsor Presentation**
Mine Health and Safety Council, *South Africa*



Session 5: Safety

Session Chair:

- 10:40-11:00 **Bridging gaps in mining safety understanding: Leveraging visual animations to overcome language and literacy barriers**
A.K.B. Chigwada, *SAIMM, FAuSIMM Australia*
- 11:00-11:20 **Permanent workface areal support and illumination improvements: The Dishaba blast-on mesh and in-stope lighting success story**
S.C. Mashile¹, R.J. Gerber², C.L. Engelbrecht³,
¹Valterra, ²Amandelbult Complex, ³Dishaba Mine, *South Africa*
- 11:20-11:40 **Fuel for safety: The critical role of nutrition and hydration in mining**
D. Potter, *South Africa*

Session 6: Community Engagement and Environment

Session Chair:

- 11:40-12:00 **Enhancing relationships with local communities: Recognising the significance of local communities and responding through industry best practices**
T.S. Kgarimetsa, *Valterra Platinum, South Africa*
- 12:00-12:20 **A data-driven approach to enhancing social acceptance of mining operations in Iran**
S. Kohandel, E. Moosavi, M.Z. Niri, *Islamic Azad University, Iran*
- 12:20-12:40 **Venetia mine storm water management pollution control Dam 3**
P. Visser, *De Beers, Venetia Mine, South Africa*
- 12:40 **Day 2 Conference Close and Lunch**