

HYBRID CONFERENCE

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

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



MINERALS COUNCIL
SOUTH AFRICA



SAIMM
THE SOUTHERN AFRICAN INSTITUTE
OF MINING AND METALLURGY



SANIRE
SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING



FINAL PROGRAMME

Conference Day 1 - Wednesday, 19 November 2025

- 07:30-08:30 **Registration Opens & Early Morning Refreshments**
- 08:30-08:35 **Safety Briefing**
Venue Official
- 08:35-08:45 **Welcome and Opening Address**
G. van Greunen, *Conference Chairperson, Impala, South Africa*
- 08:45-09:00 **SAIMM Presidential Address**
G.R. Lane, *SAIMM President*
- 09:00-09:30 **Keynote Address: The step change to zero fatalities**
L. McMaster, *Sibanye-Stillwater, South Africa*
- 09:30-09:50 **Legal frameworks to prevent and address gender-based violence in the South African mining industry**
K. Collier, S. Ngcamu, *Weber Wentzel, South Africa*

Session 1: Health and Safety

Session Chair: T. Balfour, *Minerals Council, South Africa*

- 09:50-10:10 **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
- 10:10-10:30 **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*
- 10:30-10:50 **Mid-Morning Refreshments**
- 10:50-11:00 **Sponsor Presentation**
Forwood, Australia
-  **FORWOOD**
- 11:00-11:10 **Sponsor Presentation**
A. Issey, *Zhixin Electric, South Africa*



ZHIXIN ELECTRIC

Session 2: Health and Safety

Session Chair: T. Balfour, *Minerals Council, South Africa*

- 11:10-11:30 **Reducing mining health and safety risks through nonexplosive mining**
A.S. Macfarlane, *Rock Eater (Pty) Ltd, South Africa*
- 11:30-11:50 **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*
- 11:50-12:10 **Assessing the applicability of a trapped miner locator system in underground mines – a response to the proposed MHSA Chapter 16 Section 16.7 amendments**
N.E. Mathebula, H. Sekate, P.L. Ngwenyama, *University of Pretoria, South Africa*
- 12:10-12:30 **Efficiency and sustainability: Evaluating the performance of lime-based expansive agents in hard rock mining – A field study**
M. Mekgwe, T. Mmola, H. Grobler, *University of Johannesburg, South Africa*
- 12:30-12:50 **Eliminating fall of ground incidents in underground mines: Lessons from Australia for the Southern African mining industry**
A. Mapuranga, *Northern Star Resources, Australia*
- 12:50-13:50 **Lunch**

Session 3: Safety

Session Chair: W. Deysel, *Minerals Council, South Africa*

- 13:50-14:10 **Beyond compliance: Addressing psychosocial risks in Southern African mining – integrating ubuntu, systems thinking, and innovative practices for a sustainable workforce**
A.K.B. Chigwada, *ABE Risk Solutions, Australia*
- 14:10-14:30 **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*
- 14:30-14:50 **Harmonising technology and management of change to strengthen safety culture**
J. Savit, *Hexagon, USA*
- 14:50 **Day 1 Conference Close and Afternoon refreshments**

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FINAL PROGRAMME

Conference Day 2- Thursday, 20 November 2025

- 07:30-08:30 **Registration Opens & Early Morning Refreshments**
- 08:30-08:35 **Safety Briefing**
Venue Official
- 08:35-08:45 **Welcome and Opening Address**
G. van Greunen, Conference Chairperson, Impala, South Africa
- 08:45-09:15 **Keynote Address: Khumbul'ekhaya 2.0: A transformational safety & health strategy for the South African mining industry**
D. Naidoo, Minerals Council, South Africa

Session 4: Safety

Session Chair: N. Moyo, Minerals Council, South Africa

- 09:15-09:35 **Vertical mine shaft rescue and recovery operation at 1289 m: A world-first success**
M. Fourie, Mines Rescue Services, South Africa
- 09:35-09:55 **Understanding battery chemistries, safety considerations, and suppression challenges in the mining industry**
A.K. Townsend¹, J. van Rensburg², H. Olivier², ¹North West University, ²Sibanye-Stillwater, South Africa
- 09:55-10:15 **Lean transformation-TOC integration for human centric operational excellence: A Delphi validation**
R.C.D. Phillis, A. Botha, University of the Witwatersrand, South Africa
- 10:15-10:35 **Mid morning refreshments**
- 10:35-10:45 **Sponsor Presentation**
F. Brovko, Mine Health and Safety Council, South Africa



Session 5: Safety

Session Chair: L. McMaster, Sibanye Stillwater, South Africa

- 10:45-11:05 **Bridging gaps in mining safety understanding: Leveraging visual animations to overcome language and literacy barriers**
A.K.B. Chigwada, ABE Risk Solutions, Australia
- 11:05-11:25 **Achieving Zero OLDS & TB infections in the SAMI - Is it feasible?**
N. Moyo, Minerals Council South Africa, South Africa
- 11:25-11:45 **Fuel for safety: The critical role of nutrition and hydration in mining**
D. Potter, Omega EHS, South Africa
- 11:45-12:05 **Unlocking value through in-stope areal coverage support: The Dishaba blast-on mesh success story**
S.C. Mashile¹, R.J. Gerber², C.L. Engelbrecht¹, ¹Anglo American Platinum, ²Amandelbult Complex
- 12:05-12:25 **Development and impact of the missing person locator system in South African mines**
C. Marais, A&R Group, South Africa
- 12:25-13:25 **Lunch**

Session 6: Community Engagement and Environment

Session Chair: W. Deyssel

- 13:25-13:45 **Enhancing relationships with local communities: Recognising the significance of local communities and responding through industry best practices**
T.S. Kgarimetsa, Valterra Platinum, South Africa
- 13:45-14:05 **Ultra-long tunnel drive with TBM for the Woodsmith polyhalite mine Project**
D. Roos¹, K. B  ppler², ¹Herrenknecht, South Africa, ²Herrenknecht AG, Germany
- 14:05 **Day 2 Conference Close and Afternoon refreshments**