

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



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

MINESAFE FINAL PROGRAMME

Wednesday, 6 November 2024

08:00-08:30	Registration	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, <i>University of Johannesburg, South Africa</i>
08:30-08:35	Welcome and Opening: Conference Chairperson L. McMaster, <i>Minerals Council, South Africa</i>	12:25-13:25	Lunch
08:35-08:40	Safety Briefing Venue Official	Session 2:	
08:40-08:55	SAIMM Presidential Address E. Matinde, <i>SAIMM President, South Africa</i>	Session Chair:	P. Mardon, <i>Solidariteit, South Africa</i>
Session 1		13:25-13:45	Striving towards Zero Harm and fatalities from occupational health conditions T. Balfour, <i>Minerals Council, South Africa</i>
Session Chair:	L. McMaster, <i>Minerals Council, South Africa</i>	13:45-14:05	Eco-friendly mining: Challenges for the mining supply industry? O. Drusche, <i>Technische Hochschule Georg Agricola, Germany (Online Presentation)</i>
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, <i>South Africa</i> , ² University of Wollongong, <i>Australia</i> , ³ D'Sayensi Occupational Hygiene, <i>South Africa</i>	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, <i>South Africa</i>
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 , <i>University of KwaZulu-Natal, South Africa and ²Nazarbayev University, Kazakhstan</i>	14:25-14:45	Collision avoidance risk assessment for surface mining trackless mobile machinery G. Gonste, <i>Bauba, South Africa</i>
09:45-10:05	IMS Hub: Mining houses working together to reduce fatalities with simplified and visualised safety standards J. Chipps, <i>Jincom, South Africa</i>	14:45-15:05	Enhancing continuous risk management through integration with critical control management plans A. Boaduo, <i>Gold Fields, South Africa</i>
10:05-10:15	Sponsor Presentation  <i>Menar Capital (Pty) Ltd</i>	15:05-15:25	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. Magweregwe ¹ , ¹ Mine Health and Safety Council, ² University of Pretoria and ³ University of the Witwatersrand, <i>South Africa</i>
10:15-10:25	Sponsor Presentation  <i>Enaex Africa (Pty) Ltd</i>	15:25-15:45	Afternoon Refreshments
10:25-10:45	Mid-Morning Refreshments	15:45-16:05	Fraser Alexander tailings division's journey towards zero harm – A case study S.M. Thema, <i>Fraser Alexander, South Africa</i>
10:45-11:05	Climate change and workplace health in South Africa: Emerging hazards and mitigation strategies M. Janse van Rensburg, <i>Mine Ventilation Society of South Africa and South African Institute of Occupational Hygiene, South Africa (Online Presentation)</i>	16:05-16:25	Psychological safety in African mining N. Gage, <i>Safety Collaborations, South Africa</i>
11:05-11:25	Eliminating harm through critical control compliance O.S.A. Mc Cree, <i>Past President – Association of Mine Safety Professionals of South Africa</i>	16:25-16:45	Critical controls for seismic risk management in deep level gold mines L. Scheepers, <i>SibanyeStillwater, South Africa</i>
11:25-11:45	Post employment medical care framework N. Moyo, <i>Minerals Council, South Africa</i>	16:45	Day 1 Conference Close
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 <i>University of Johannesburg, South Africa (Presented by R. Meyer)</i>		

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MINESAFE FINAL PROGRAMME

Thursday, 7 November 2024

08:00-08:30	Registration	11:10-11:15	From suspicion to submission – an occupational lung disease handbook V.G. Govender, Masakhane Strategic Health Consulting (Pty) Ltd, South Africa
08:30-08:35	Welcome and Opening: Conference Chairperson L. McMaster, Minerals Council, South Africa	11:15-11:20	Empowering miners: The key to safer underground operations N. Weideman ¹ , D. Piketh ¹ , M. Armstrong ² , M. Pienaar ² , ¹ Stratify Seeker and ² Mandela Mining Precinct, South Africa
08:35-08:40	Safety Briefing Venue Official	11:20-11:25	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
Session 3			End of Poster Session
Session Chair: T. Legobye, Hamony Gold, South Africa		Session 4	
08:40-09:10	Keynote Address: TBC T. Molosiwa, DeBeers, South Africa	Session Chair: TBC	
09:10-09:30	Harmony integrated safety journey T. Gazi, G. Herholdt, and L. Maepe, Harmony, South Africa	11:25-11:45	Striving for Zero Harm in the development end E. Adlard, Salzgitter Mzansi (Pty) Ltd, South Africa
09:30-09:50	Critical risks unveiled: The imperative of broad-brush risk assessments C. Young, Impress Solutions, Australia (Online Presentation)	11:45-12:05	AI-assisted geophysical safety measurements in underground mines T. Schicht ¹ , S. John ¹ , S. Lüning ¹ , and B. Kratz ² , ¹ K-Utec, and ² Castalytics, Germany (Online Presentation)
09:50-10:10	Acoustic device for recording and tracking rock hazards on the mining face H. Greeff ¹ , M. Pienaar ² , and J. Hanekom ¹ , ¹ Council for Scientific and Industrial Research and ² Mandela Mining Precinct, South Africa	12:05-12:25	The journey of the SAMI on the 2014 MHSC milestones W. Deyssel, Minerals Council, South Africa
10:10-10:25	Sponsor Presentation  Timrite	12:25-13:25	Lunch
10:25-10:35	Sponsor Presentation  Mine Health & Safety Council	13:25-13:45	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
10:35-10:55	Morning Refreshments	13:45-14:05	Is the mining industry ready to embrace virtual reality? M. Hocker, Boiler Room, South Africa
Poster Session		14:05-14:25	Assessment of the Managers' Certificate of Competency Part C Examination during 2010-2019 N. Ndiweni and M. Mpanza, University of Johannesburg South Africa
Session Chair:		14:25-14:45	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
10:55-11:00	Update the South African mining rock stress measurement database Z. Nkosi, Mine Health and Safety Council, BKM Engineering, South Africa	14:45-15:05	Improving occupational health, risk, and safety management: The syncromine risk management software module by Mineware Consulting W. Minnie, Mineware Consulting, South Africa
11:00-11:05	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	15:05	Day 2 Conference Close
11:05-11:10	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 and Council for Scientific and Industrial Research, South Africa		