

Mine Ventilation Engineering: A key component in the journey to **ZERO HARM**

Final Programme

DAY 1: THURSDAY 6 JUNE 2024

		Presentation	Presenter
07:00	08:00	Registration	
08:00	08:15	Opening and Welcome	Mrs. Julize Hasenbroek
08:15	08:45	Keynote address	Mr. David Msiza
Session 1: Mine Ventilation and Cooling (Chair: Mrs. Cecilia Pretorius)			
08:45	09:10	Practical considerations selecting mining fan infrastructure	Mr. Marthinus van der Bank
09:10	09:35	An analysis of current ventilation software in use at BMC Howmine as compared to Howden Ventsim ventilation software	Mr. Nhlanhla Ncube
09:35	10:00	Bulk air cooler optimisation with integrated ventilation and cooling simulation	Mr. Eugene Botha
10:00	10:25	Implementation of an innovative ice thermal storage solution at Impala Platinum No. 16 Shaft	Mr. Avinash Andhee
10:25	10:55	Tea Break	
Session 2: Occupational Hygiene and Environment (Chair: Mr. Cassius Malebanye)			
10:55	11:20	Introduction to the application of Ventilation Fluid Simulation Dynamics Software: A Crucial Tool in Predicting Workplace Diesel Particulate Matter Pollution in Underground Platinum Mines	Dr. Amu Manyike-Modau
11:20	11:45	Investigating the Acoustic Profile of Exhaust Systems in Diesel Powered Equipment	Ms. Khanani Ramoshaba
11:45	12:10	Reporting silica dust exposure concentrations in South African gold and coal mines: 2005 to 2016	Mr. Brian Mongoma
12:10	12:35	Modular mobile cooling minimize heat stress related production losses in PGM operations	Mr. Pieter Geldenhuys
12:35	13:35	Lunch	
Session 3: Statutory Updates (Chair: Mrs. Bridget Novolo)			
13:35	14:00	Update: Compliance Audits	Department of Mineral Resources and Energy

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14:00	14:25	Update: Committee Work	Mine Health and Safety Council
MVSSA Annual General Meeting			
14:25	16:25	AGM and Awards	
16:25	Late	Cocktail	

DAY 2: FRIDAY 7 JUNE 2024

		Presentation	Presenter
07:00	08:00	Registration	
08:00	08:15	Opening and Welcome	Mr. Johan Pienaar
Session 4: Mine Planning (Chair: Mr. Ronald Motlhamme)			
08:15	08:40	A method for maintaining a ventilation system in a dynamic mining environment	Mr. JJ van Rensburg
08:40	09:05	An integrated simulation approach to plan and coordinate the effect of load curtailment on a mine ventilation system	Mr. Renier Mulder
09:05	09:30	Fan Duty Control: Maximising Efficiency over Life of Mine to Realise Energy Savings	Mr. Dave Stanton
09:30	09:55	Simulation-based verification of stope heat loads of deep-level gold mines	Mr. Phillip Galamadien
09:55	10:20	Booster fan position optimisation with simulation	Dr. Marco le Roux
10:20	10:50	Tea Break	
Session 5: Emergency Preparedness and Awareness (Chair: Mr. Lance Paiken)			
10:50	11:15	Mines Fires and Emergency Evacuation	Mrs. Davida van der Walt
11:15	11:40	Intelligent Mining in South Africa: Preparing Engineers and Communities for Industry 4.0	Mrs. Monique Janse van Rensburg
11:40	12:05	An alternative solution for refuge bays in remote locations	Mr. Ruhano Walker
12:05	12:30	Closure	Mr. Johan Pienaar
12:30	13:30	Lunch	