

Preliminary Programme—MineSafe Conference 2017 · 30–31 August 2017

Day 1 — Wednesday, 30 August 2017

07:00–08:00	Early Morning Refreshments and Registration
08:00–08:05	Welcoming Address T. van den Berg, <i>Conference Chairperson</i>
08:05–08:10	Emergency Procedures Presentation
08:10–08:15	Opening Address S. Ndlovu, <i>President, SAIMM</i>
08:15–08:50	Keynote Address: The philosophies and approaches deployed by Zimplats to attain sustainable zero harm A.K.B. Chigwada, <i>Zimplats, Zimbabwe</i>
08:50–09:15	Developing a resilient safety culture B. Solomon, <i>The Kinetic Leadership Institute, South Africa</i>
09:15–09:40	Improving safety during vertical shaft-sinking in unconsolidated sediments through detailed geotechnical investigation N.C. Steenkamp, <i>Independent Geological and Geotechnical Consultant, South Africa</i>
09:40–10:00	Questions Session
10:00–11:00	Poster Session and Mid-morning Refreshments
11:00–11:25	Zibulo Colliery's holistic approach to mining: Shared value through HSE and community programs W. Tollemache, <i>Zibulo Colliery</i>
11:25–11:50	Supportive leadership L.D. Meyer, <i>University of Pretoria, South Africa</i>
11:50–12:15	Active explosion suppression barriers in fiery mines P. van Zyl and A. Spaeth, <i>Explospot Systems, South Africa</i>
12:15–12:40	Observational studies in South African mines to mitigate seismic risks: challenges and achievements R.J. Durrheim, <i>University of the Witwatersrand, South Africa</i> H. Ogasawara, H. Kawakata, M.S.D. Manzi, and S. Mngadi, <i>Ritsumeikan University, Japan</i> M. Nakatani and H. Moriya, <i>The University of Tokyo, Japan</i> Y. Yabe, <i>Tohoku University, Japan</i> M. Naoi, <i>Kyoto University, Japan</i> A. Cichowicz, <i>Council for Geoscience, South Africa</i> T. Satoh, <i>AIST, Japan</i> A. Milev, T. Kgarume, and V.Z. Brink, <i>CSIR, South Africa</i> A.K. Ward and L. Ribeiro, <i>Seismogen CC, South Africa</i> the SATREPS Team, <i>JST-JICA Science and Technology Research Partnership for Sustainable Development</i>

12:40–13:00

Questions Session

13:00–13:50

Lunch

13:50–14:10

Introduction to Open Space Technology

14:10–15:10

Open Space Technology 1

15:10–15:45

Open Space Technology feedback

15:45–16:15

Close of Technical Conference

Day 2 — Thursday, 31 August 2017

07:00–08:00

Early Morning Refreshments and Registration

08:00–08:10

Welcoming Address

T. van den Berg, *Conference Chairperson*

08:10–08:15

Emergency Procedures Presentation

08:15–08:50

Keynote Address: Dealing with uncertainty and risk in rock engineering design

W.C. Joughin, *SRK Consulting South Africa (Pty) Ltd, South Africa*

08:50–09:15

A 4D leadership model postulation in the fourth industrial revolution relating to the South African mining industry

J. Uys and R.C.W. Webber-Youngman, *University of Pretoria, South Africa*

09:15–09:40

The impact of forensic laser scanning technology on incident investigations in the mining industry

R.C.W. Webber-Youngman*, H. Grobler†, T. Gazi*, F. Stroh‡, and A. van der Vyver§, **University of Pretoria, South Africa*, †*University of Johannesburg, South Africa*, ‡*Horts Geo Solutions South Africa*, §*Sherisk, South Africa*

09:40–10:00

Questions Session

10:00–11:00

Poster Session and Mid-morning Refreshments

11:00–11:25

A twenty-year safety journey in shaft sinking

A. Jansen van Vuuren and T. Moloto, *Shaft Sinkers Mining (Pty) Ltd, South Africa*

11:25–11:50

Behaviour-based safety (BBS) at Twistdraai Export Plant

S. Madida, *Sasol Mining, South Africa*

11:50–12:15

Sustainability and stakeholder focus

P. Jordaan, *Sasol Mining, South Africa*

12:15–12:40

The safety maturity journey

C. Holtzhausen, *Hatch, South Africa*

12:40–13:00

Questions Session

13:00–13:50

Lunch

13:50–14:10

Introduction to Open Space Technology

14:10–15:10

Open Space Technology 2

15:10–15:45

Open Space Technology Feedback

15:45–16:15

Close of Technical Conference

Poster Presentation – MineSafe Conference 2017 • 30–31 August 2017

Poster 1

Unlocking the potential economic benefit of a tailings dump through resource modelling and estimation SHE (safety, health, and environmental) issues and solutions

N.K. Singo and J.D. Kramers, *University of Johannesburg, South Africa*

Poster 2

Disruptive Safety™: Isn't it time to rethink how we manage safety in the workplace?

N. Skeepers and J. Tietz, *Governance Risk and Compliance Specialist*

Poster 3

Discontent attitude of mining employees

P. Nelwamondo and M. Mpanza, *University of Johannesburg, South Africa*

Poster 4

Estimation of exposure to silica and ash in airborne dust at New Vaal Colliery

M. Mpanza, *University of Johannesburg, South Africa*

Poster 5

Organizational behaviour modification: a practical approach to culture transformation in the context of the organization's internal environment

L. Mulder and W. Lombard, *Expectra International (Pty) Ltd, South Africa*

Poster 6

Drilling into seismogenic zones of M2.0 – M5.5 earthquakes from deep South African gold mines (DSeis): establishment of research sites

H. Ogasawara, A. Ishida, and H. Ogasawara, *Ritsumeikan University, Japan*

R.J. Durrheim, S. Mngadi, and M.S.D. Manzi, *University of the Witwatersrand, South Africa*

Y. Yabe and T. Ito, *Tohoku University, Japan*

G. van Aswegen, *Institute of Mine Seismology Ltd South Africa*

M. Grobbelaar, *Council for Geoscience, South Africa*

A. Funato, *Fukada Geology Institute, Japan*

M. Ziegler and N. Berset, *ETH, Switzerland*

A.K. Ward, *Seismogen CC, South Africa*

G. Hofmann, *Anglogold Ashanti, South Africa*

P. Moyer and M. Boettcher, *University of New Hampshire, USA*

P. Dight, *University of Western Australia, Australia*

W. Ellsworth, *Stanford University, USA*

B Liebenberg, *Independent Consultant, South Africa*

N Wechsler, *Tel Aviv University, Israel*

T. Onstott, *Princeton University, USA*

the DSeis Team

Poster 7

Improvement of fire detection systems at Sasol Mining

I. Labuschagne, *Sasol Mining, South Africa*

Poster 8

Conveyor belt fire safety – innovative technology for proactive solutions

H. Schmitz, *Advanced Automated Systems, South Africa*

Poster 9

Potential impact of uranium in dumps on local communities

S. Mxinwa, L. Landu, and O. Bazhko, *Mintek, South Africa*

Poster 10

The Sleep Secret hidden dangers in our food

D. Potter and N. Potter, *Predictive Safety, South Africa*

Poster 11

Implementation of the GHH roofbolter at Booyesendal Platinum Mine

W. Kekana, *University of the Witwatersrand, South Africa*

Poster 12

Safety wiring - taking control of your safety performance Why compliance is necessary but not sufficient

G. Huckle and M. Evans, *Partners in Performance, South Africa*

Poster 13

Heat maps as a simple, innovative tool to measure health and safety performance: the case of Black Mountain Mining's Gamsberg Project

M. Mukwashi, *Black Mountain Mining part of Vedanta Zinc International, South Africa*

Poster 14

Reducing adverse health effects on women working at Black Mountain Mining through control of occupational lead exposure

E. Schrywer and C. Klopper, *Black Mountain Mining part of Vedanta Zinc International, South Africa*

Poster 15

Health and safety in the smaller surface mining industry

N. Pienaar, *ASPASA, South Africa*