

Are hosting a

1st HARDROCK SAFE SAFETY CONFERENCE 2009

A sense of safety urgency



28–30 September 2009

Sun City

The organisers of the conference wish to thank the following sponsors for their support

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Call Jackie to book your stand
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Final Circular



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Invitation from the Organising Committee

In a drive to improve safety in the mining industry, the SAIMM in conjunction with the AMMSA is organising a Hardrock Safe Safety Conference on the 28–30 of September 2009 at Sun City, Pilanesberg. This conference is geared to include mining professionals in all sectors of the mining industry, including but not limited to, mining, training, engineering, metallurgy, rock engineering, geology, and ventilation. The committee has identified areas of focus to be addressed in the two days of the conference with the AMMSA 'Hardrock Safe' day on day two.

These include:

- Sharing leading best practices and success stories
- Behavioural based safety and change management
- Occupational environment
- Fall of ground, rock engineering, seismicity, mine planning
- MOSH teams, fall of ground, dust, and hearing
- New technology
- Safety management system
- Blasting and explosives

It is planned to have a panel discussion at the end of each session to encourage interactive participation from all involved. Questions may be e-mailed or SMSed to the panel before the time. To ensure that the event meets your needs and that of your team, please provide us with feedback as to what additional topics or issues you would like the conference to address.

Given the positive response and importance of the subject matter of this conference, we intend to hold a similar event annually. The committee would like to welcome you to this topical event.

Frank Egerton and Tom van den Berg
SAIMM/AMMSA
Organising Committee

Organising Committee

F.M.G. Egerton (Chairman)

P.H. Ferreira	R. Phillis
S. Orchardson	J.L. Porter
K. Oosthuizen	T. Schultz
F. Pascoe	T. van den Berg
H. Phillips	R.P.H. Willis

Conference Secretariat

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Key dates

Conference	28 & 30 September 2009
Industry Awards Day 'hardrock safe'	29 September 2009



Registration

Registration fees include attendance at the technical sessions, all refreshments and lunches at the conference, and attendance at the cocktail parties and social functions.

Registration fees

SAIMM/AMMSA members or presenting authors	R8 200.00
SAIMM/AMMSA members or presenting authors (2 days)	R6 600.00
SAIMM/AMMSA members or presenting authors (industry day)	R1 000.00
Non-members	R9 400.00
Students/retired members	R1 900.00

All prices include VAT. Tax invoices will be issued to all delegates.

Please note that delegates will be permitted to attend the conference only if their registration fees have been paid.



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Cancellation

A 50% refund will be given for cancellations received before 1 September 2009. No refunds will be given for cancellations after 1 September 2009.

Conference venue

Nestled in the rolling hills of the Pilanesberg, one of South Africa's most scenic locations, Sun City is a world unto itself and has earned its reputation as Africa's Kingdom of Pleasure.

You will find whatever you want at Sun City, from sizzling entertainment, world-class casinos and restaurants to cater for all tastes, to the more relaxed poolside venue, quiet places, lush gardens, and extensive sporting facilities, including two world-class golf courses. These are just some of the elements that make Sun City unique among the world's entertainment resorts.

Finally rediscovered and now part of Sun City, the Lost City and the Valley of Waves, fabled to be the ruins of a glorious ancient civilization, celebrate and bring to life the legends of this mystical city.

The Lost City is internationally applauded for its wonderfully imaginative theme and exquisite landscaping whilst the fantastic Valley of Waves is one of the world's most exciting waterparks.

The conference will be held in the Pilanesberg B Omega room in the Conference Centre at Sun City.



Preliminary conference programme

The technical programme comprises opening and closing addresses from invited and designated keynote speakers, as well as papers, listed below, which have been provisionally accepted.

Day 1—Monday, 28 September 2009

07:30–08:30 **Registration and coffee**

08:30–08:35 **Welcome**
Chairman

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08:35–08:45 **Welcome address**

J.C. Ngoma, *President, SAIMM*

SESSION 1: Sharing leading best practices and success stories

Chairman: F.M.G. Egerton

08:45–09:05 **MOSH falls of ground work (PRESENTATION ONLY)**

D. Adams and A. van Zyl, *South Africa*

09:05–09:25 **Establishing a tripartite forum and the outcomes**

T. van den Berg, *AMMSA, South Africa*

09:25–09:45 **The road to zero harm**

S. van der Woude, *Chamber of Mines, South Africa*

09:45–10:05 **Safety performance at Modikwa Mine**

S. O'Connor and A. Peers, *Modikwa Platinum Mine, South Africa*

10:05–10:25 **'Safety is our first value' and what it means for AngloGold Ashanti**

J. Viljoen, *Vice President Southern Africa Division, AngloGold Ashanti*

10:25–10:35 **Panel session discussion**

10:35–10:45 **Premium exhibitor presentation: IRCA**

10:45–11:00 **Morning Tea**

SESSION 2: Safety management systems—concepts/behavioural

Chairman: T. van der Berg

11:00–11:20 **Association of mining contracting companies perspective on mine health and safety**

T. Wakefield and A. Wood, *Murray and Roberts Grinaker, South Africa*

11:20–11:40 **The Impala case study on stoping shift buffering: A critical chain project management perspective**

R.C.D. Phillis and H. Gumede, *Ukhozi Project Management, South Africa*

11:40–12:00 **HQMS development and implementation at DME**

V. Clark, *IRCA Global, South Africa*

12:00–12:10 **Panel session discussion**

12:10–12:20 **Premium exhibitor presentation: Minova SA**

12:20–13:00 **Lunch**



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SESSION 3: Safety management systems—concepts/behavioural

Chairman: F. Pascoe

- 13:00–13:20 **A new approach to EPCM and contractor management in mining projects with specific reference to zero harm**
J. van Wijk, Lonmin, South Africa
- 13:20–13:40 **Health and safety considerations for the employment of females in hardrock mines and works**
C.J. Badenhorst, Anglo Platinum, South Africa
- 13:40–14:00 **Reaching the hearts and minds of people**
J. Loubser, IRCA Global, South Africa
- 14:00–14:10 **Panel session discussion**
- 14:10–14:20 **Premium exhibitor presentation: New Concept Mining**
- 14:20–14:40 **Afternoon tea**

SESSION 4: Seismicity and stability

Chairman: J.L. Porter

- 14:40–15:00 **Can mine seismic events be predicted?**
S. Spottiswoode, South Africa
- 15:00–15:20 **The development and implementation of a mine-wide continuous stability monitoring system at Union Section, Anglo Platinum Ltd**
D.F. Malan, P.S. Piper, G.M. Potgieter, and M. du Toit, Groundwork Consulting and Anglo Platinum, South Africa
- 15:20–15:40 **JST-JICA South African project to mitigate seismic risks in South African gold mines**
H. Ogasawara, R. Durrheim, A. Milev, and A. Cichowicz, Ritsumeikan University, CSIR, University of the Witwatersrand, CGS and the Research Group for JJSA project, South Africa
- 15:40–16:00 **The transfer function between acceleration and velocity seismograms**
K.C. Tshitlho and A.M. Milev, University of the Witwatersrand and CSIR, South Africa
- 16:00–16:20 **Mine flooding and seismicity**
O. Goldbach, CSIR, South Africa

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- 16:20–16:30 **Panel session discussion**
- 16:30–16:40 **Premium exhibitor presentation: Turgis**
- 18:00–21:00 **Hawaiian dinner on Beach Cabanas Waterworld Beach**

Day 2—Hardrock safe industry Awards Day Tuesday, 29 September 2009

Celebrating success

- 07:30–08:30 **Registration and coffee**
- 08:30–08:35 **Welcome**—Chairman and Master of Ceremonies
F.M.G. Egerton and T. van den Berg
- 08:35–08:45 **AMMSA Address**—F. Fourie
- 08:45–08:55 **SAIMM Address**—J.C. Ngoma, *President*
- 08:55–09:30 **DMR Address**—T. Gazi, *Chief Inspectorate of Mines*
- 09:30–09:50 **DMR Address**—S. Shabangu, *Minister of DMR*
- 09:50–10:30 **Inspirational Speaker**—Frank Oppermann
- 10:30–10:45 **Morning tea**
- 10:45–12:30 **Awards presentations**
- 12:30–13:00 **Best practice speaker**
W. Taylor—*Anglo Platinum - Union Section*
J.J. Barnard—*Gold Fields Driefontein Mine*
S. O'Connor—*Modikwe Platinum Mine*
- 13:00–14:00 **Lunch**
- 16:30 **Networking cocktail function**

Day 3—Wednesday, 30 September 2009

- 08:30–08:40 **Welcome**



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SESSION 5: New technology

Chairman: R.P.H. Willis

- 08:40–09:00 **Thin spray liners and a safe working place**
A. Hannon and P.H. Ferreira, *Minova, South Africa*
- 09:00–09:20 **In stope bolting enhances safety of the workplace**
P. Henning and P.H. Ferreira, *Minova, South Africa*
- 09:20–09:40 **DOHEMS: technology for hazard identification, risk assessment and early warning**
C.J. Badenhorst and N. van Wijk, *Anglo Platinum, South Africa*
- 09:40–10:00 **New technology for real time in stope safety management**
D. Vogt, *CSIR, South Africa*
- 10:00–10:10 **Panel session discussion**
- 10:10–10:20 **Premium exhibitor presentation**
- 10:20–10:40 **Morning tea**

SESSION 6: Occupational environment

Chairman: R.C.D. Phillis

- 10:40–11:00 **Meeting and exceeding the occupational hygiene milestones**
G.J. Pienaar, S. van Heerden, and J.L. du Plessis, *GFI Mining South Africa*
- 11:00–11:20 **Fatigue risk management: Charting a path to a safer workplace**
P.C. Schutte, *CSIR, South Africa*
- 11:20–11:40 **85dBA: Is it protective enough to prevent hearing loss in South African miners?**
A. Edwards, *CSIR, South Africa*
- 11:40–11:50 **Panel session discussion**
- 11:50–12:00 **Premium exhibitor presentation**
- 12:00–13:00 **Lunch**

SESSION 7: Explosives and initiations systems

Chairman: D. O'Connor

- 13:00–13:20 **A new initiation system that removes the detonators from the underground face**
M. R. Davis, T.B. Rudd, J.F. Fenwick, and D.A. Davis, *Master Blasters,*

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South Africa

- 13:20–13:40 **Increasing safety through the introduction of an electronically based centralized blasting system**
P. Laubscher, *Detnet, South Africa*
- 13:40–14:00 **Initiators**
M. Klaasen, *Sasol Nitro, South Africa*
- 14:00–14:10 **Panel session discussion**
- 14:10–14:20 **Premium exhibitor presentation**
- 14:20–14:55 **Afternoon tea**

SESSION 8: Design and training

Chairman: F.M.G. Egerton

- 14:55–15:15 **The importance of engineering design with regard to safety in mining**
T.R. Stacey, *University of the Witwatersrand, South Africa*
- 15:15–15:35 **Annual mine plan and execution buffering—a safety imperative**
R.C.D. Phillis and H. Gumede, *Ukhozi Project Management, South Africa*
- 15:35–15:55 **Improving safety and health through virtual mining interactive simulations**
R.C.W. Webber-Youngman and E. van Wyk, *University of Pretoria and University Tshwane, South Africa*
- 15:55–16:05 **Panel session discussion**
- 16:05–16:15 **Premium exhibitor presentation**
- 16:15 **Conference closing**

Social functions

Monday 28 September 2009

Hawaiian barbeque on the Cabanna beach

A Hawaiian barbecue, which is the primary social function, will be held at the Cabanna Waterfront. In the spirit of the venue, this function will be a barbeque on the 'beach'. Wine, malt and soft drinks will be served. A cash bar will be available. Please indicate your attendance on the registration form for catering purposes.



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Time: 16:35–20:35

Dress: casual, beachwear.

Cost: included in conference registration fee.

Tuesday 29 September 2009

Networking cocktail function.

Various sporting activities and entertainment are available for your leisure.

General information

Accommodation

Please note that special rates and block bookings have been negotiated at the conference venue. Kindly contact Sun International Central Reservations as per the enclosed accommodation reservation form, quoting the Group ID number. Please note room vacancy is limited and may be subject to availability. Shuttles will be available to transport delegates from the hotels to the conference centre.

Banking / credit cards / foreign exchange

There are facilities at the Sun City hotels to exchange foreign currency. There are various automatic teller machines (ATMs) throughout the main premises. In all major centres in South Africa, there are banking institutions that are affiliated with international banks. Major credit cards are generally accepted throughout South Africa.

American Express Tel: +27 11 359 0200,

Diners Club Tel: +27 11 358 8400,

Master Card and Visa Card Tel: +27 11 498 4699.

The following banks offer foreign exchange services: ABSA, First National, Nedbank and Standard. Banks and ATM machines are found in every city and in most towns. Several international banks have branches in the main cities. Most commercial banks are open from 09:00 to 15:30 on weekdays and 08:30 to 11:00 on Saturdays.

Car rentals

Avis Rent a Car—Central Reservations

Tel. (Intl): +27 11 923 3500, Fax (Intl): +27 11 923 3683, Toll-free: 08 000 21111

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Budget Rent a Car—Central Reservations

Tel. (Intl): +27 11 392 3929, Fax (Intl): +27 11 392 3900, Toll-free: 08 600 16622

Europcar Interrent—Central Reservations

Tel. (Intl): +27 11 396 9000, Fax (Intl): +27 11 396 1406, Toll-free: 08 000 11344

Imperial Car Rental—Central Reservations

Tel. (Intl): +27 11 453 0005, Fax (Intl): +27 11 453 6278, Toll-free: 08 610 13100

As a rule, hired cars may not be driven across the border to other African countries.

Climate

September is spring in South Africa, with warm days and slightly cooler evenings. Delegates should pack a light jacket or pullover.

Currency

One rand (R) = 100 cents (c); Notes: R200; R100; R50; R20; R10

Coins: R5; R2; R1; 50c; 20c; 10c; 5c

You are permitted to take R500 in SA rand notes out of the country; a levy is charged on the additional amounts.

Electricity supply

The electricity supplied in South Africa is 220 to 240 V (50 Hz)—3 x round pin 15 amp plug. Hotels usually provide dual voltage 2-pin razor sockets (100–120 V and 220–240 V).

Flight information

International flight times are available from the Airports Company of South Africa under Flight Info. Tel: +27 (011) 921 6262 or Fax: +27 (011) 921 6385. Website: <http://www.airports.co.za>

Information desk

An information desk will be staffed daily in the exhibition area from 07:30 to 17:30.

Language

The language of the conference will be English.





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Internet messages and telephones

There is a business centre and Wi-fi accessibility at Sun City. The information desk in the conference office will take incoming messages for delegates. Delegates will be requested to pay for all outgoing calls.

Other accommodation

A National Accommodation Guide, available from SATour head office and most tourism associations, has been compiled in accordance with SATour's National Grading and Classification Scheme. The guide contains details of accredited guest and country houses, bed and breakfast accommodation, star-graded hotels, serviced self-catering accommodation and private game lodges. In addition to the star grading allocation (one to five stars), exceptional services, hospitality and other intangible benefits are awarded a bronze or silver classification. Tariffs range from as little as R120.00 to as much as R2 000.00 per person per day.

See also: <http://www.wheretostay.co.za>; <http://www.sa-venues.com>

Speed limits

Freeways—120 km/h, urban roads—60 km/h. Drivers and all passengers must wear seatbelts. Drivers must carry their drivers' licences at all times.

Standard time

Also known as Central African Time (CAT). There is no daylight saving in South Africa. Sunrise in September is 05:51 local time and sunset is at 18:07

CAT = GMT + 2 hours, or CET + 1 hour, or EST +7 hours.

Tipping

According to service, but as a guideline: restaurants and taxi drivers = 10%, porters = R5.00 per piece of luggage.

VAT

The present rate of VAT (value added tax) is 14%, which is included in the cost of most items. On their departure, overseas delegates can claim back the VAT paid on some purchases taken out of the country. You will be required to produce a VAT invoice for those items where VAT is to be claimed back, at the airport of departure.

Waiver of liability

The conference organisers have taken all reasonable care in making the arrangements for the conference. The organisers do not accept liability for any loss or injury sustained, or for unforeseen changes to the programme. The organising committee reserves the right to cancel any tour or visit due to insufficient interest.



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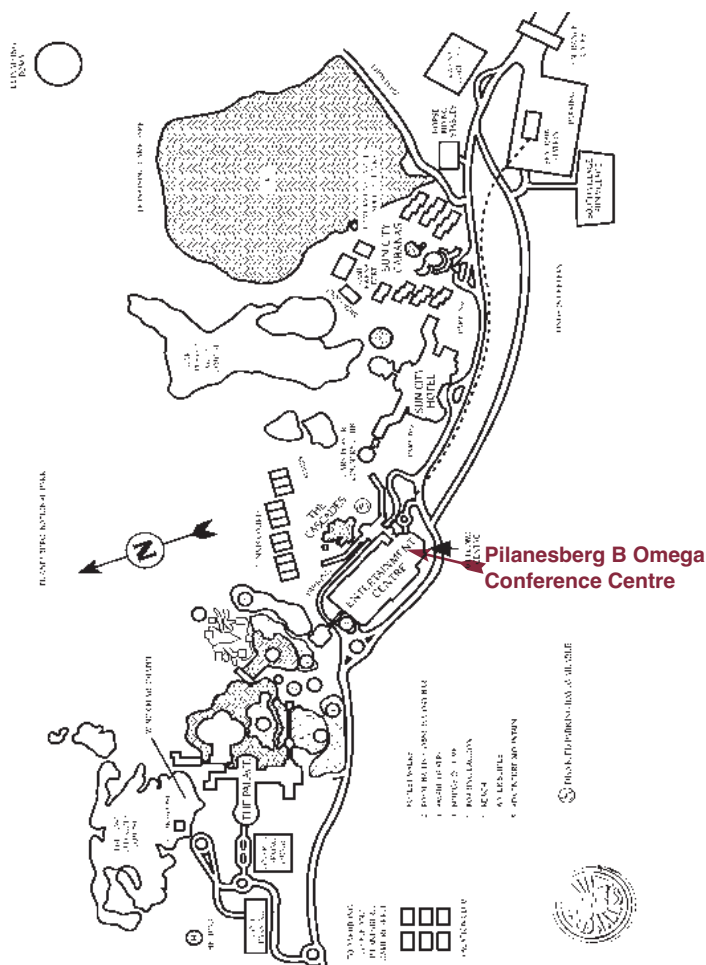
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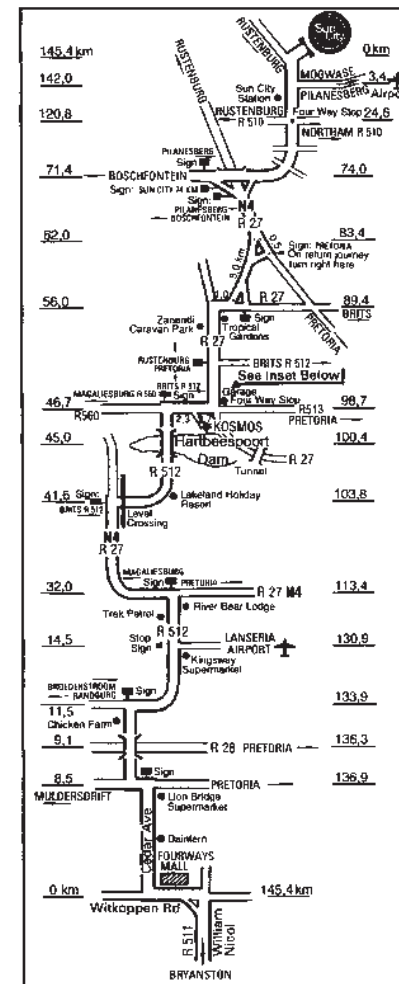
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SUN CITY RESORT MAP



RECOMMENDED ROUTE TO SUN CITY



OUTWARD BOUND

Travel north along William Nicol Drive to Fourways intersection at Witkoppen Road. Turn left into Witkoppen Road passing Fourways Mall on your right. At first set of lights turn right into Cedar Avenue. Proceed for 8.5km to T-junction. Lion Bridge Supermarket is on the right. Turn left and take first right hand turn. Proceed 2 km to T-junction, passing over the R28 freeway. Chicken farm is on your left. Turn right at the T-junction into R512. Carry on until the next T-junction (R27) passing Lanseria Airport turnoff. Turn left on the R512 to Magaliesburg. 9.4km further on, turn right (R512) towards Brits. Cross the railway line and onto the bridge over Hartbeespoort Dam. At the T-junction turn right (R512) to Brits. Travel to a major 4-way stop. Turn left towards Brits and Rustenburg. Pass the first turn-off to Brits. Travel straight on, passing Tropical Gardens on the right. Pass the R27 road on the right and the signboard: Sun City 89km. Travel straight on for approximately 10km until you reach the signboard: Sun City 79km. Turn right and cross over the highway, and you are on the direct road to Sun City.

HOMeward BOUND

Leaving the Sun City complex turn left and travel the direct route for 79km. At the T-junction turn left and travel towards the Hartbeespoort Dam for approximately 15km to the major 4-way stop. Turn right. Travel 5km and turn left on the R512 to Randburg crossing the bridge over the Hartbeespoort Dam. At the T-junction turn left (R27) to Pretoria, (R512) to Randburg. 9.6km further turn right on the (R512) to Lanseria Airport. Pass the Lanseria Airport turnoff and travel 3km and at that junction turn left. Proceed past the chicken farm on your right. Cross over the (R28) freeway to the T-junction. Turn left and then first right and proceed to the Fourways Mall.

DIRECTIONS FROM PRETORIA

Select N4, R27, R514 or R513 to the 4-way stop intersection just beyond the tunnel at Hartbeespoort Dam. Follow directions from this intersection as detailed on this route map.



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