



# SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE  
OF ROCK ENGINEERING

SANIRE SYMPOSIUM 2023  
22 - 23 JUNE



# TURNING CHALLENGES INTO OPPORTUNITIES

save the date  
22 - 23 JUNE

EMPERORS PALACE  
CONFERENCE CENTRE  
KEMPTON PARK



The South African National Institute of Rock Engineering  
is announcing the

## SANIRE Symposium 2023

### TURNING CHALLENGES INTO OPPORTUNITIES

You and your colleagues are invited to this unique event to reunite with the industry partners to reflect on how rock mechanics have evolved and exchanging new ideas and exploring the future in this field.

#### JOIN US AS A SPONSOR!

We offer several kinds of sponsorship possibilities in SANIRE SYMPOSIUM 2023. This is a great opportunity to have visibility and showcase your company or organization and your contribution to the rock mechanics industry.

### KEYNOTE SPEAKERS



#### PROFESSOR FRANCOIS MALAN

Prof Malan started his geotechnical career in 1993 and spent the next 11 years at the Chamber of Mines Research Organisation (later CSIR Miningtek). There he conducted research on the rock mass behaviour in deep tabular mines. His particular interest during this period was

the time-dependent behaviour of hard rock and he used this as topic for his PhD thesis. In 2011 he joined Groundwork Consulting and worked on pillar designs and layout problems in the South African platinum industry, geotechnical problems in the deep gold mines and instrumentation development for geotechnical applications. In 2011, he joined the gold mining industry and was appointed as Senior Consultant Rock Engineering of Gold Fields South Africa...



#### GERHARD POTGIETER

Gerhard is a mining engineer that has been employed in the mining industry for 40 years, of which the last 25 years were in senior executive and board positions. He has spent the last 13 years with Impala Platinum Holdings and has been the Group Chief Operating Officer since 2018. Implats is a South African holding

company that owns several companies which operate mines that produce platinum group metals, as well as nickel, copper and cobalt. It is listed on the JSE, in the top 20 companies in South Africa in terms of market capitalisation, employing 56 000 people at its operations in South Africa, Zimbabwe and Canada...



#### DUNCAN ADAMS

Duncan is an engineering geologist by training and has spent the past 44 years in the South African mining industry in rock engineering, the past two years with the Minerals Council South Africa leading the FOGAP programme. He has spent time on a Gold Mine as a head of the rock engineering department, more than a decade with

the COMRO/ CSIR Miningtek carrying out research in backfill technology and rockburst prevention and control, before working for the MHSC as the Fall of Ground Programme Manager. Duncan then established his own consulting company focusing on rock mechanics training, FoG safety and working with the Minerals Council in their MOSH Learning Hub for more than 10 years...

READ MORE ON THE WEBSITE...

FOR MORE INFORMATION, CONTACT

Mbalenhle Buthelezi: t: (+27) 11 568 2054 e: mbalenhleb@mpas.org.za

W: www.sanire.co.za f: @SANIREofficial



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## PROGRAMME SANIRE SYMPOSIUM DAY 1

07:00 – 08:15	ARRIVAL AND REGISTRATION	Mbale Buthelezi
08:20 – 08:25	Welcome note by Incoming SANIRE President	Kevin Le Bron
	<b>DAY 1: KEYNOTE SPEAKERS</b>	
08:30 – 08:50	Keynote Speaker: <b>Duncan Adams</b>	Duncan Adams
08:55 – 09:15	Keynote Speaker: <b>Gerhard Potgieter</b>	Gerhard Potgieter
	<b>DAY 1 SESSION 1</b>	<b>Chair: Brian Watson</b>
09:20 – 09:35	A study of UG2 pillar strength using underground observations and numerical modelling	Juan Ahlers Anglo American
09:40 – 09:55	Numerical Approach to Predict the Strength of Hard Rock Pillars Subjected to Partial Extraction – A case study from a platinum bord and pillar mine	Fanta Sibanda & Kevin Le Bron Sibanye Stillwater Platinum MLB Consulting
10:00 – 10:15	Pillar stability assessment methodology for bord and pillar mines	Quintin Enslin Open House Management Solutions
10:15 – 10:30	Sponsorship videos & Logo Display	BREAK
	<b>DAY 1 SESSION 2</b>	<b>Chair: William Joughin</b>
10:30 – 10:45	Late Stage Mining: Is it too Late to Collect Geotechnical Information? A Venetia Mine Case study	Prince Mulenga Anglo American
10:50 – 11:05	Blast vibration modelling in WAVE3D	Lindsay Linzer SRK Consulting
11:10 – 11:25	Rockbursts Characterization in the Merensky Reef: A Case ( 22 June 2023) Study in Siphumelele Platinum Mine, South Africa	Richard Masethe Sibanye Stillwater
11:30 – 11:45	Development of a Digital Ground Control Management Plan (DGCMP) for underground mines of Anglo American	Dewaldt van Rooyen Anglo American
11:50 – 12:05	Visualising your data	Jannie Maritz University of Pretoria
12:10 – 12: 25	Monitoring Ground Movement in A Mine using the Xcell Cyclops System	Dennis van Heerden Rocbolt Technologies
12:30 – 13:30	Lunch: Sponsorship videos & Logo Display	BREAK
	<b>DAY 1 SESSION 3</b>	<b>Chair: Riaan Carstens</b>
13:30 – 13:45	Dealing with WAF in an operating shaft	Mauritz Uys Sibanye Stillwater
13:50 – 14:05	Isp MINING At Tau Lekoa Mine	Flam van der Westhuizen Open House Management Solutions
14:10 – 14:25	Geotechnical Learnings from a Sub-level Trial Stope at a Namibian Gold Mine	Yerisha Rajpal SRK Consulting
14:30 – 14:45	CLOSURE of the Presentations	Kevin le Bron
14:45 – 15:30	PreparingforRockBowl: Sponsorshipvideos&LogoDisplay	BREAK
15:30 – 17:30	<b>SESSION 4: ROCKBOWL</b>	<b>Chair: Zwelinzima Thebethe</b>
18:30	<b>SYMPOSIUM DINNER</b>	



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## PROGRAMME SANIRE SYMPOSIUM DAY 2

07:30 – 08:00	Arrival	
	<b>DAY 2: KEYNOTE SPEAKER</b>	
08:00 – 08:30	Keynote Speaker: <b>Francois Malan</b>	Francois Malan
	<b>DAY 2 SESSION 1</b>	<b>Chair: Jaco Le Roux</b>
08:35 – 08:50	A case study on the role of high-definition pillar monitoring for scientifically increasing extraction ratios	Craig Smith Groundwork
08:55 – 09:10	A numerical modelling study of the effect of pillar shape on pillar strength	Jannie Maritz, Francois Malan University of Pretoria
09:15 – 09:30	The behaviour of the crush pillars in the Merensky Reef's intermediate depth: A case study of the Siphumelele platinum mine, South Africa	Hlomani Mthombeni Sibanye Stillwater
09:30 – 10:00	Sponsorship videos & Logo Display	BREAK
	<b>DAY 2 SESSION 2</b>	<b>Chair: Koos Bosman</b>
10:00 – 10:15	Flexural Toppling in a Shear Zone-Controlled Environment'	Tafadzwa Chindedza SRK Consulting
10:20 – 10:35	Establishing a successful pit slope monitoring database using Ground Based Radars (GBR)	Sharla Coetsee & Priyanka Narshai Reutech Mining
10:40 – 10:55	Cavity / Sinkhole Management	Billy Mashiatshiti Kumba Iron Ore
11:00 – 11:15	Dragline Spoil design process optimization	Cassius Selai Glencore Coal
11:20 – 11:35	Geotech for Water Reservoir Stopes	Jeanne Walls Anglo American
11:40 – 12:00	Tea-Break	BREAK
	<b>DAY 2 SESSION 3</b>	<b>Chair: Sifiso Mashile</b>
12:00 – 12:15	InSAR monitoring in opencast mining, Tailings storage facilities, Waste Monitoring, sinkhole detection	Ikaneng Moses Marungwana, SkyGeo
12:20 – 12:35	A case study on the risks of developing within the 14 level (1 900m) in the vicinity of a dolomite compartment in the Masimthembe shaft, Kloof Operations	Jomo Mtekwane Sibanye Stillwater
12:40 – 12:55	Preliminary case study on managing back breaks at the Masimthembe shaft, Kloof Operations	Harold Mohlala Sibanye Stillwater
13:00 – 13:15	Middling stability in hard rock multi-seam mining	Brendan Vaughan Middindi
13:20 – 13:30	<b>CLOSURE OF SYMPOSIUM</b>	
13:30 -	<b>CLUNCH &amp; DEPARTURE</b>	

FOR MORE INFORMATION, CONTACT  
Mbalenhle Buthelezi: t: (+27) 11 568 2054 e: mbalenhle@mpas.org.za  
W: www.sanire.co.za f: @SANIREofficial



## WE ARE CALLING FOR EVENT SPONSORSHIP

**REGISTER NOW**

Dear Sir / Madam

The South African National Institute of Rock Engineering Symposium is a forum for Rock Engineering Practitioners to showcase their technical abilities and skills to the industry over a period of two days. Participants and Presenters network, share ideas, knowledge and practices, whilst learning more about the most recent innovations, trends, experiences and concerns in Rock Engineering. In an effort to respond to ideas coming from SANIRE members the 2023 Symposium will feature an opportunity for expanded participation in the programme through presentations. The aim of the Symposium is to broaden participation and learning by opening an opportunity for innovative and challenging material that would not otherwise be available in other formats. The Symposium will be held from the 22nd to 23rd of June 2023 at Emperors Palace Conference Centre, Kempton Park, Johannesburg. Interested practitioners, researchers, managers and others in the field of Rock Engineering can create meaningful dialogues by sharing their knowledge through presentations during the Symposium.

I am writing this letter to invite you to be a Co-Sponsor and or support this event. As a leader in the industry, your involvement with us in the SANIRE Symposium is an opportunity for your organization to receive exposure and to join other individuals, organisations, and coalitions in our association to educate Rock Engineers on current topical issues within the industry. The theme for the SANIRE Symposium is **"Turning Challenges into Opportunities"**

### EXHIBITORS

GOLD PACKAGE  
PLATINUM PACKAGE  
SILVER PACKAGE  
PRESIDENTIAL DINNER  
ROCKBOWL

We look forward to hearing from you.

**For more information about this event, please contact:**

Mbalenhle Buthelezi

Tel: 011 568 2054

Email: [mbalenhle@mpas.org.za](mailto:mbalenhle@mpas.org.za)

On behalf of the SANIRE President and Council, we thank you for your support.

Sincerely,

**Lizelle Prinsloo**

*SANIRE President*

## EVENT REGISTRATION FORM

Title (Prof/Dr/Mr/Mrs/Ms)		Name		Surname	
Company or Organisation (to be invoiced)					
Your position in the company					
Postal address					
	Suburb:		Province:		Code:
Purchase order number			Company VAT Number		
Telephone			Mobile		
Email (please print clearly)					
Accounts Contact Person					
Email of Accounts Contact Person					
Are you a SANIRE Member?	YES	NO	Dietary Requirements		

**Please select type of registration from the list below**

Please note that SANIRE is not VAT registered. **This will be a hybrid event.** you will be able to attend in person at Emperors Palace (COVID-19 regulations applies and seats are limited) or you will be able to attend online. More details about the online platform will be shared once registered.

*In person registration includes arrival tea/coffee, mid-morning tea/coffee, lunch, and mid-afternoon tea/coffee on both days. The fees also include dinner on Thursday 22 June 2023 at Emperors Palace Conference Centre*

<b>SANIRE Member</b>	R3 000.00 Both Days		R2 000.00 Day 1 only		R1 700.00 Day 2 only		R2 000.00 Online Attendance	
<b>Non-Member</b>	R3 500.00 Both Days		R2 500.00 Day 1 only		R2 000.00 Day 2 only		R2 500.00 Online Attendance	
<b>Group booking for all inclusive two day symposium (max 5 people)</b>	R12 000.00 Both Days		<b>Group booking online attendance (max 3 links)</b>				R6 000.00 Both Days	

Kindly indicate if you will attend the dinner on Thursday 22 June 2023. (The dinner is included in the in-person registration fees.)	YES	NO
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I have read and understood the conditions below	Signature:	Date:
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**EMAIL THE COMPLETED FORM TO [MBALENHLEB@MPAS.ORG.ZA](mailto:MBALENHLEB@MPAS.ORG.ZA)**

### TERMS & CONDITIONS

**Cancellation and transfer policy:** Persons unable to attend the event may send a substitute in their place. Written details of substitution must be made. Written cancellations must be received more than 5 working days prior to the date of the event. Failure to cancel, or cancellation received 5 working days or less prior to the event date, will result in liability for 100% of the registration fee.

**Payment:** Full payment is due on application of registration. Registration will be confirmed ONLY after payment is received. PROOF OF PAYMENT with your invoice number reflected must be sent via fax or e-mail.

## SPONSORSHIP BOOKING FORM

COMPANY INFORMATION			
Company Name		Purchase Order#	
Contact Person		Mobile #	
E-mail			
INVOICING INFORMATION			
Company Name for Invoicing		Company VAT#	
Postal Address			
		Postal Code	

SPONSOR OPTION	DETAIL	PRICE (Excl. VAT of 15%)
<b>Gold Package</b>	(3) Main Sponsors (Stand, as well as marketing on all media platforms)(Gift items – Notebook and pen, welcome bag) 2 company representatives.	R 25 000 <input type="checkbox"/>
<b>Platinum Package</b>	(6)(Stand, with two company representatives allowed free entry for the duration of the symposium)	R 17 500 <input type="checkbox"/>
<b>Silver Package</b>	(10)(Stand, with one company representative allowed free entry for the duration of the symposium)	R 10 000 <input type="checkbox"/>
<b>Symposium Dinner Sponsor</b>	(Exclusive sponsor for the evening with conditions to be determined by SANIRE and the sponsor).	R 25 000 <input type="checkbox"/>
<b>RockBowl Sponsor</b>	(2) (Prizes and exclusive rights).	R 20 000 <input type="checkbox"/>
<b>Electronic Package</b>	2 minute video clip screened at the event.	R 3 000 <input type="checkbox"/>

Please complete and forward to the SANIRE Secretary: [Mbalenhleb@mpas.org.za](mailto:Mbalenhleb@mpas.org.za)

**PLEASE NOTE** that a Tax Invoice, including the Banking Detail will be forwarded upon receipt of this form.