



SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING

ROCK *talk*

Volume 7, Issue 2 | July 2021



PRESIDENT'S CORNER

In the midst of the third wave of COVID - 19 which has decimated the way we do things, not only worldwide but in South Africa, especially within SANIRE, I will as President be writing my last Presidents Corner.

This Presidents Corner will be a reflection of my term as SANIRE President, a strange term it was indeed. I was very fortunate to follow on from two great SANIRE Presidents, allowing me to continue to take the SANIRE to new levels from a brand perspective as well as forward into the future. Numerous changes to the way the association was managed and maintained has come over the past few years.



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CHAIN-LINK MESH		
Bulking reduction		
		
Example of bulking reduction: 12 bolts less per cut		

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High tensile steel min. 1770 MPa	Very high capacity	Highest safety level, Blasting resistance
Balanced stiffness	High capacity with minimal deformations	Protects tunnel profile
Rhomboidal chain-link structure	Easy in handling and storage	Manual and mechanized installation possible
Knotted ends	No weak points	Minimal overlapping and amount of rock bolts
Edge corrosion protection	High corrosion resistance in mining environment	No sharp edges. Long lifetime, low maintenance costs



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WHAT'S INSIDE

- ISRM News
- Identification of cost factors relating to mining incidents
- Introducing the newly elected Council
- Rock Star, Tebogo Jeffrey Monchwe
- Strata control practical examination results
- New rock engineering tickets

PRESIDENT'S CORNER



We all know from our personnel and professional lives that trying to keep everyone happy is almost impossible, but keeping majority of the members happy is the ultimate goal as an association President. When I took over the reins from Jannie Maritz, there were mixed emotions amongst some members. Obviously being the youngest SANIRE President was a concern for the older folk, while the younger members rejoiced in the fact that youth was being represented. Personally, I always like a challenge and grabbed it with open arms. COVID-19 did put a dampener on my one of my objectives as President to brand the association, as social functions were prohibited or restricted. Together as a SANIRE Council we strived to still provide content to members and create online events to market SANIRE. Politics and ethics are always part of the position, which was heightened during my term, however as a SANIRE Council we handled each situation independently with integrity and fairness.

Unfortunately with the restrictions and limitations to conferences, major awards like the Salamon and Ortlepp to deserving technical papers were not issued, during 2020. Our branch meetings took a nose dive, obviously based on the fact that the COVID – 19 restrictions made them almost impossible to arrange in person.

Not all was doom and gloom during my term however.... The SANIRE Council achieved some new feats, many of them being firsts.

Firstly for the first time in history, our new highly criticised partnership with Mines Professional Association Secretariat (MPAS) yielded a 97% recovery rates in terms of invoicing, with those numbers hoping to grow as the financial year nears an end.

We hosted the first ever SANIRE Banquet to celebrate SANIRE's 20 years of existence and SANGORM's 50 years of existence.

SANIRE Council also did not increase membership fees for the past two years owing to the battling industry and impact of COVID – 19. SANIRE Council as a collective took on the responsibility to generate additional funds to ensure the financial survival of the association. This was a bold stance taken by the SANIRE Council and successfully achieved.

Another first was the reviewal of the Constitution in which a voice was given to all members. This resulted in the first ever true reflection of a SANIRE Council vote, with a natural progression of a transformed SANIRE Council which awaits to serve in the next term (2021 – 2023).

The SANIRE Council made a submission to the ISRM for the Best National Group and ISRM Young Rock Engineer Award, which we feel as SANIRE Council has possible potential to be successful. Our representation on ISRM has been influential with SANIRE members joining organising committees for international events. SANIRE seems to be back on the map at ISRM.

SANIRE Council in line with the restrictions, brought their members numerous webinars over the Presidential term, with the webinars exceeding any other MPAS affiliated association and organisations in terms of numbers.

We hosted a very successfully joint venture with the South African Institute of Engineering Geologists (SAIEG) on Slope Stability in February 2021 which yielded a substantial profit for the associations to split.

The education system has migrated more and more from the Chamber of Mines to SANIRE, particularly with regards to the Practical exams. The systems designed and implemented by SANIRE Council has continued to produce world class practitioners, whilst maintain fairness and transparency.

The revamped, increased frequency of the newsletter and the constant updates on social media, ensured that members were always kept in the loop of the changing atmosphere.

Finally for the most important part of my final presidents corner, the thank you's. Thank you to all the SANIRE members for their support during my term. The support was immense and without the support my term would have been a lot tougher. Thank you to all the critics, who assisted in making sure we can grow the association in a positive manner and take it forward. Thank you to the SANIRE Council members, who help me achieve my set out vision and directives. Finally a big thank you to my family for the patience and personnel sacrifice during my Presidency. One underestimates the amount of time that goes into managing an association. Thank you Stacey, Rowan and Eva Couto.

Good luck to Lizelle Prinsloo, who will take over the reins at the end of June 2021. I hope to see all the members soon, for a possible second term, another first in the SANIRE stable.

Paul Couto

ISRM NEWS

The 2021 ISRM International Symposium

EUROCK 2021 Mechanics and Rock Engineering from Theory to Practice

**20-25 September 2022
Torino, Italy**



The Eurock 2021 are receiving and reviewing the papers, more than 300 abstracts from Europe and around the world were proposed. More than 200 final papers are already under review. Among the 14 topics the most numerous are "Rock mass characterization" and "Rock properties and testing methods". The papers will be Open access publication and all articles are free to read and download in perpetuity.

The opening lectures will be held by Prof. John Cosgrove and John Harrison and the keynotes lectures held by Prof. Michel Alber, Leandro Alejano, Carlos Carranza-Torres and Tatiana Rotonda. The event will then be enriched by the awards ceremony and related presentations of two winners, respectively for the year 2020 and 2021 of the Rocha medals and of the Franklin lecture (held by Fredrik Johansson and by Prof. Maria Rita Migliazza).



OTHER ISRM-SPONSORED EVENT DETAILS

Event title	Start date	End date	Country	City
9th International Symposium on Geomechanics - an ISRM Specialized Conference	2021-05-05	2021-05-06	Colombia	Virtual
5th Symposium of the Macedonian Association for Geotechnics - an ISRM Specialized Conference	2021-06-10	2021-06-12	Macedonia	Ohrid
5th International Workshop on Rock Mechanics and Engineering Geology in Volcanic Fields - an ISRM Specialized Conference	2021-09-09	2021-09-11	Japan	Fukuoka
EUROCK 2021 - Mechanics and Rock Engineering from Theory to Practice - the 2021 ISRM International Symposium	2021-09-20	2021-09-25	Italy	Torino
ARMS11 - 11th Asian Rock Mechanics Symposium, Challenges and Opportunities in Rock Mechanics - an ISRM Regional Symposium	2021-10-21	2021-10-25	China	Beijing
SBMR2020 - 9th Brazilian Rock Mechanics Symposium - an ISRM Specialized Conference	2022-08-23	2022-08-26	Brazil	Campinas
Eurock 2022 - Rock and Fracture Mechanics in Rock Engineering and Mining - an ISRM Regional Symposium	2022-09-12	2022-09-15	Finland	Helsinki
LARMS 2022 - IX Latin American Congress on Rock Mechanics, Rock Testing and Site Characterization - an ISRM International Symposium	2022-10-16	2022-10-19	Paraguay	Asuncion
6th Australasian Ground Control in Mining Conference – AusRock 2022 - an ISRM Regional Symposium	2022-11-29	2022-12-01	Australia	Melbourne
15th ISRM International Congress on Rock Mechanics	2023-10-09	2023-10-14	Austria	Salzburg



SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING

VIRTUAL

SYMPOSIUM

BOOM...THE NEW CHAPTER OF SOUTH AFRICAN MINING

05 - 06 AUGUST 2021 | MICROSOFT TEAMS LIVE

R850,00 SINGLE BOOKING

R5 000,00 MINES Unlimited Attendees

R2 000,00 EXHIBITORS Logo displayed/
short video

WHO SHOULD ATTEND?

The Symposium will be targeted at qualified and practicing Rock Engineering Professionals. The Symposium will also benefit interested practitioners, researchers, managers and others in the field of Rock Engineering

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 2021 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 5th to 6th of August 2021 via Microsoft Teams Live. 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.

WE ARE CALLING FOR ABSTRACTS FOR PRESENTATION

SANIRE appreciates all submissions on Rock Engineering, with particular emphasis on:

- Research and Development
- Innovation
- Rock Engineering Techniques

Key Dates:

Submission Deadline : 16 July 2021

Notification of Acceptance : 23 July 2021

Each presentation abstract will be reviewed by at least three members of the SANIRE Council and reviewed based on a range of parameters. Presentations will be competitively evaluated using:

- Technical soundness
- Innovation in topic and approach
- Creative and compelling content
- Effective use of case studies and literature
- NOTE: Presentations that are not Rock Engineering related or are sales pitches for products or services will not be considered, unless otherwise agreed to by SANIRE Council as a sponsorship package.

WE ARE CALLING FOR EVENT SPONSORSHIP

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.

Beyond your sponsorship, we welcome you to join us by participating in the SANIRE Symposium.

Enquiries can be made to:

Mbalenhle Buthelezi

Tell: 011 568 2054

Email: mbalenhleb@mpas.org.za

REGISTRATION

To register for the SANIRE Symposium, kindly complete the attached registration form and return to the SANIRE Secretary **Mbalenhle Buthelezi** at:

Tell: 011 568 2054

Email: mbalenhleb@mpas.org.za



DO NOT MISS OUT!

This year the ROCKBOWL will take place in an online format. This is a great opportunity for you and your team to showcase and test your knowledge against the best and brightest in the field of rock engineering. Register your team today and stand a chance to become the 2021 SANIRE ROCKBOWL champions.

WHAT IS ROCKBOWL?

A game of questions & answers in which teams are challenged to answer technical & non-technical questions about rock engineering

T'S & C'S

Maximum 4 participants per team

DATE: 5 AUGUST 2021

VENUE: MICROSOFT TEAMS LIVE

TIME: 14H00 - 16H00

CLOSING DATE FOR ENTRIES: 23 JULY 2021

WHO SHOULD ATTEND?

- Anyone interested in rock engineering looking to brush up their social skills. **Only joking!**
- All ages welcome

WHAT'S UP FOR GRABS?

- Bragging rights
- A host of fantastic prizes

HOW TO ENTER?

Complete the entry form with your team name as well as the names and ages of each participant

<https://www.sanire.co.za/news/rockbowl-2021-competition?view=form>

ROCK STAR OF THE QUARTER



Full Name:

Tebogo Jeffrey Monchwwe

Position:

Senior Rock Engineer.

Company/Organisation:

Sibanye Stillwater- Gold Operations

Date of Birth:

23 October 1987

Education:

Accountancy, Paramedics, Strata Control Certificate

First Job:

Stoping Labour

Philosophy of Life:

Be smart, the easy days are over.

Favourite Food/Drink:

Coke

Favourite Sport:

Marathon Running

Q. Where is your favourite place to eat?

Tashas

Q. What gets you out of bed in the morning?

Another Chance, Another Opportunity

Q. Do you have a favourite quote?

If you have nothing to lose, try everything.

Q. What is your favourite line from a movie?

Our deepest fear is not that we are inadequate, Our deepest fear is that we are powerful beyond measure.
- Coach Carter

Q. What is the best vacation destination you've been to?

Richard's Bay

Q. Do you have a favourite newspaper, blog?

None, I have media to be very misleading.

Q. What is your favourite thing to do?

Spending time with my wife and two sons

Q. What is your greatest fear?

Not being there for my family.

Q. What is your hidden talent?

A very Handyman

Q. What's your most memorable facepalm moment?

Quite a few

Q. If you could interview one person (dead or alive) who would it be?

Robert Kiyosaki

Q. If you could only drink one beer for the rest of your life, what would it be?

Corona – Not the virus

Q. If you could only drink one beer for the rest of your life, whif you were on death row, what would your last meal be?

Lamb Shank

Q. If you were an animal what would you be?

Eagle

Q. If you were stuck on an island, what three things would you bring?

A book, Running Shoes and Wisdom.

Q. What are 3 words to describe Rock Engineering?

Through Solid Rock

Q. What do you find the most challenging aspect of rock engineering?

People that does not understand Rock Engineering.

Q. What do you like most about rock engineering?

Every new working day is a new challenge for Rock Engineering

Q. What do you like most about rock engineering?

Why did you choose Rock Engineering?

Q. What are some areas that you believe will become of increasing importance in the near future of the rock engineering discipline?

Equipping the rock engineering discipline with the necessary systems.

Q. Who is your role model/mentor?

Kenneth Madede- Real Estate Investor.

Q. What is the best advice you have ever been given?

You're on your own, take care of yourself.

WE ARE LOOKING FOR THE NEXT **ROCK**Star

NOMINATIONS ARE NOW OPEN

WE ARE SEARCHING FOR THE
NEXT ROCK STAR WHO IS GOING
ABOVE AND BEYOND

Please send us your nomination of who you would like to see interviewed in the next issue of **ROCK**talk

PLEASE INCLUDE THE FOLLOWING IN YOUR NOMINATION

- ★ Name & Surname of Nominee
- ★ Mining Operation of Nominee
- ★ Designation of Nominee
- ★ Nominee's contact details
- ★ A short motivation as to why you have nominated the person

FOR FURTHER ENQUIRIES OR TO
SUBMIT YOUR NOMINEE PLEASE SEND
AN E-MAIL TO: info@sanire.co.za

The Rock Star award is given to up and coming younger-generation rock engineers (younger than 35). The award acknowledges the valuable work individuals are doing in their fields to improve systems, technologies, mining practices and applications. These candidates are making a name for themselves in the industry by their interventions and participation, as recognised by their peers and colleagues.

Typically, one award a year will be given to a deserving individual at the discretion of the SANIRE Council. The award, consisting of a certificate, trophy and a 1 oz silver Krugerrand, will be presented by the SANIRE President at the annual general meeting.

IDENTIFICATION OF COST FACTORS RELATING TO MINING INCIDENTS

Zero harm is a vision that is fully subscribed to by all South African mines. The main objective of the vision is to eliminate injuries and fatalities. Apart from the effects related to injuries and fatalities, mining incidents involve considerable costs for mines. The various factors that influence the costs of an incident are not always that obvious, and this can have major downstream implications (e.g. an incident may result in future opportunity losses due to the harm caused to a company's reputation).

To ensure a clear understanding of the cost of incidents and related factors, it is necessary to firstly provide definitions for the primary components of incident costs. These terms / phrases are used throughout this study. The total cost associated with an incident can be broadly classed into three main categories: costs to employees, costs to society as a whole, and costs to the employer (Table I).

The objective of this study was to focus solely on identifying the cost factors relating to mine incidents, from a 'cost to employer' perspective. It was, however, necessary to provide definitions for the other incident cost categories to prevent any misunderstanding or confusion.

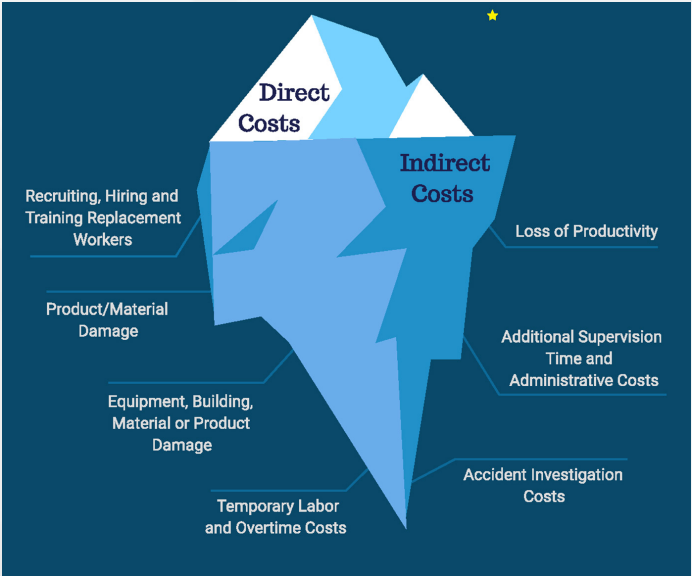


Figure 1: Iceberg of incident costs

However, whether this ratio is in fact something that can or should be quantified and benchmarked is unclear. The literature suggests that ratios vary greatly, from 1:1 to 1:36.

The great variance in ratios shows that estimating the costs of incidents involves a large degree of uncertainty. In terms of this study, this variance showed that further investigation was required into the actual factors that contribute to the total cost of an incident. The identification and understanding of all cost factors

Table I Broad incident cost categories	
Category	Definition
Costs to employees	All incident-related costs for which the affected employee is responsible for (or in the case of a deceased employee, their family will assume this responsibility). The costs to employee includes the loss of future earnings, the cost of human suffering, as well as other miscellaneous expenses (e.g. an injured employee not at work has a higher cost of living than if at work). Costs to Employee do not affect the cost to employer, although the burden of some costs due to an incident is shared between the two parties.
Costs to society	All incident-related costs for which society as a whole is responsible for, whether directly or indirectly. An example of this is the worker's compensation fund, the burden of which falls upon the widespread economy of South Africa. In the case of an injured/deceased working individual, the economic impact of this individual not being able to contribute towards the country's economy falls upon the country as a whole (society).
Costs to employer	All incident-related costs for which the employer is responsible. These can be costs that are direct or indirect, costs which are only felt some time after incident occurrence, and costs that take on the form of losses relating to the company (real losses or opportunity losses). The approach to determining which costs fall within this category is to ask the question – 'Would this cost/loss have been incurred if the incident had not happened?' If the answer is no, then it is a cost to the employer due to incident occurrence.

The actual cost of an incident is a concept that seems simple to calculate and understand. Incident costs are split into direct (visible) costs and indirect (hidden) costs. The relationship between direct and indirect costs of an incident can be compared to an iceberg. The entirety of the iceberg represents all incident costs – with the submerged part representing the indirect costs and the visible part representing the direct costs (Figure 1).

The iceberg analogy suggests that the indirect costs of an incident are much more substantial than the direct costs. To quantify the relationship between direct and indirect costs, a ratio of direct to indirect costs can be expressed.

relating to mine incidents acts as the starting point in understanding (and more accurately quantifying) the cost of mining incidents. This could assist in classifying incidents by type, and estimating direct vs. indirect ratios for each class of incident much more accurately.

By identifying and understanding the potential cost contributing factors, it would be possible to highlight the most significant financial consequences of mine incidents. This, in turn, would enable the separation or highlighting of specific individual factors, and then determining their effect on the total cost of incidents, which in turn will quantify their significance.

Cost factors relating to mining incidents were identified through a literature search. The approach focused firstly on any previous work done on incident cost factors in the workplace, irrespective of the type of workplace, and then narrowing down to work on the cost factors of mining incidents. The cost factors identified were all found to be potentially applicable to the mining industry, albeit with varying probabilities of occurrence. A total of 34 main cost factors relating to mine incidents were identified, along with numerous sub-factors. Out of the 34 factors identified, eight were classified as direct cost factors and 26 as indirect factors.

The direct cost factors relating to mining incidents are; lost planned reserves, lost sales, property damage, salaries of the injured, lost production, worksite restoration, penalties and SIMRAC levies and incident response. While some of the 26 indirect cost factors relating to mining incidents are, harm to reputation, lost orders, labour relations, recruitment problems, decreased productivity, decreased worker morale, plant stoppages, accommodation, damage to environment, product replacement, worker compensation, liability, legal fees, insurance premium, excess on claims, incident investigation time, employee replacement, product damage and so on.

The identification and understanding of the cost factors relating to mine incidents as set out above proved to be more complex than expected. Considering the information and analysis the following can be concluded;

- In general, cost factors relating to workplace incidents can vary greatly. This is due to the difference in workplace environments across different industries. Another factor that plays a role in the cost factors relating to workplace incidents is the specific country where the incident occurred. Different policies around the world lead to different employer responsibilities in terms of the financial impact of incidents.
- Mine incidents can comprise a vast number of cost-contributing factors. These factors can also be very different in nature. Some may be incurred instantaneously, and others may only be realized long after the incident occurred.
- If companies are aware of and understand which factors could contribute to the cost of any given incident, future planning and incident cost estimations will be easier. It should, however, be noted that although a fairly comprehensive list of factors has been identified the list may not be complete. This study provides a comprehensive list of cost factors (and detailed explanations), other unknown cost factors relating to mine incidents could prevail in extreme case. It is further recommended that if the work in this study is to

be used, the cost factors identified should be reviewed for the intended application, and sound judgment should be applied when assessing the applicability of factors to specific incidents. It is suggested that further investigations be conducted into three of the identified cost factors. These three factors are:

- o The financial impact of implementing job accommodations and/or work process modifications following an incident
- o The financial impact of harm caused to a company's reputation following an incident
- o The financial impact of decreased worker productivity caused by decreased morale, as well as the relationships between productivity, safety, and worker morale.

The abovementioned factors each lend themselves to highly detailed investigations, and it is suggested that each of these immeasurable factors be investigated in isolation. *Following an article by E. Preis and R. Webber-Youngman*



SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING

ANNUAL GENERAL MEETING

27 AUGUST 2021 | TIME: 11H00 - 14H00

MICROSOFT TEAMS LIVE

You are invited to our Annual General Meeting where we will review the achievements and developments over the past year within our Association.

- 1 Welcome by the President
- 2 Apologies
- 3 Matters arising from previous minutes
- 4 AGM Presentation
 - 4.1 Presidential Note, Portfolios and Constitution Review
 - 4.2 Administration
 - 4.3 Treasury
 - 4.4 Branches Feedback
 - 4.5 Membership and Young Members
 - 4.6 Education
 - 4.7 ISRM Feedback
 - 4.8 Social Media and Newsletter
 - 4.9 Organisational Liaison
 - 4.10 Events and Sponsorship
 - 4.11 SANIRE Awards
- 5 General
- 6 Questions

To attend, please RSVP before 23 August 2021

Mbalenhle Buthelezi - mbalenhlebuthelezi@mpas.org.za

Call for SANIRE AWARDS Nominations

NOMINATION CATEGORIES

1. HONORARY FELLOWSHIP
2. HONORARY MEMBERSHIP
3. PRACTITIONER OF THE YEAR
4. ROCKSTAR OF THE YEAR

23 JULY 2021
SUBMISSION DEADLINE

THE WINNERS FOR EACH
CATEGORY WILL BE AWARDED
WITH A CERTIFICATE, TROPHY
AND A 1oz SILVER KRUGER RAND

NOMINATIONS

SANIRE is seeking nominations for the 2021 awards. Award recipients will be honored at the Annual General Meeting to be held via Microsoft teams on 27 August 2021.

Nominations typically require a candidate's name, full contact information, biographical information, and/or history of service to the Association.

Some awards require additional nomination materials. For more information on how to nominate an individual, see each award page on the SANIRE Website.

<https://www.sanire.co.za/sanire-awards>

NOMINATION CRITERIA



HONORARY FELLOWSHIP (Lifetime Achievement Award)

It is awarded to individuals in a mature stage of their career (typically retired) with a long and distinguished track record in Rock Mechanics. Candidates should also preferably be associated with SANIRE. The nomination must be motivated by a SANIRE Member or Fellow for consideration by Council.

HONORARY MEMBERSHIP (Lifetime Achievement Award)

It is awarded to individuals in a mature stage of their career (typically retired) These individuals are recognised by their peers for their long term contribution to the Rock Engineering industry. Candidates should also preferably be associated with SANIRE. The nomination must be motivated by a SANIRE Member or Fellow for consideration

ROCKSTAR OF THE YEAR

Candidates should be Associate Members or Members of SANIRE and must be 35 years of age or younger. Motivations should be done in writing detailing the individual's contributions. The nominations will be reviewed and approved by the Council members. Also, the achievements of the recipients of this award should be recognised by clients or peers.

PRACTITIONER OF THE YEAR

Candidates should be Associate Members or Members of SANIRE. Motivations should be done in writing detailing the individual's contributions. The nominations will be reviewed and approved by the Council members. Also, the achievements of the recipients of this award should be recognised by clients or peers.

EDITORS CORNER

Rock Talk is your newsletter and we would like to hear from you.

If you have any information or stories that we can use, please submit them via email to :
info@sanire.co.za

Your feedback will be highly appreciated.

ROCK *talk*

WE ARE LOOKING FOR

YOU

WE VALUE YOUR INPUT AND WE ARE CALLING ON OUR MEMBERS TO CONTRIBUTE CONTENT TO THE SANIRE NEWSLETTER

THIS IS AN OPEN INVITATION CALL FOR ARTICLES

If you are interested in submitting content for the next issue of **ROCKtalk**, please send us an email at info@sanire.co.za with your proposal along with a commitment date.

FOR FURTHER ENQUIRIES OR TO
SUBMIT YOUR PROPOSAL PLEASE SEND
AN E-MAIL TO: info@sanire.co.za

SUBMISSION CATEGORIES

- Industry Related Articles
- Academic Papers
- Case Studies

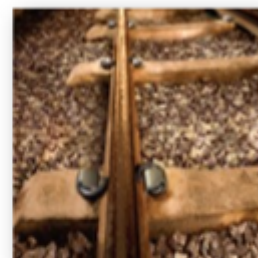
SUBMIT AN ARTICLE AND
STAND A CHANCE OF WINNING

SANIRE
MEMORABILIA

RAINBOW MINING SUPPORT

a Manufacturer and Supplier of:

- ❖ Cellular light weight concrete
- ❖ Timber based products
- ❖ Concrete rail sleepers
- ❖ Drain liners



Riaan Le Roux
Sales and Marketing Manager
MOBILE +27 82 927 2946
riaan@rainbowms.co.za

MORE ABOUT SANIRE

INTODUCING THE NEWLY ELECTED COUNCIL



SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING



LIZELLE PRINSLOO

Lizelle is the incoming President of SANIRE. She is currently the Chief Rock Engineering at Amandelbult, and celebrates her 10th year at the operations. She started her career at Anglo American Platinum, Union Mine in 2005 after graduating with a BSc Hons degree at the University of Pretoria in 2004. She gained some international experience by working abroad in Ireland at a massive sulphide mine and then returned in 2010 to Bathopele mine. She is looking forward to the opportunity given to her to serve and support the members of SANIRE.



ADAM COOPER

Adam is the Rock Engineering Manager for Ivanplats in Mokopane. He has approximately 16 years' experience in Rock Engineering. Adam has been involved with SANIRE on both Branch and Council levels, over a number of years and in various roles. He appreciates the support of the SANIRE members in re-electing him and will strive to contribute positively on behalf of the members.



THOVHEDZO GCUDA

Thovhedzo is a Rock Engineer Superintendent and Seriti Power and also serves on the SANIRE Coal Branch. She has a BSc Engineering in Mining from the University of the Witwatersrand, a Rock Engineering Certificate, and a number of other certificates. She is also a Masters student of Geotechnical Engineering University of Cape Town. She believes this readily prepares for the role on the SANIRE Council.



SIFISO MASHILE

Sifiso is currently a senior rock engineer at Northam Platinum Zondereinde mine located in the Western Bushveld. Sifiso's mining career began at Anglo American Platinum Rustenburg operations in 2008 as a Mining Leaner Official, where he went through the ranks. He subsequently moved to Northam and has been in the current role for 6 years. He is a husband, father and a fan of gymnastics and fitness.

MORE ABOUT SANIRE

INTODUCING THE NEWLY ELECTED COUNCIL



SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING



OBAKENG RAKUMAKOE

Obakeng is a registered professional mining engineer with the Engineering Council of South Africa (ECSA) who's focus is to improve the mining culture through innovation and skills development. Over the years as a rock engineering manager at the world's deepest mine "Mponeng Mine" he has created an incubation hub for young mining graduates to develop engineering and critical thinking skills required to bring about innovation. Through his innovative thinking and approach, he has developed and implemented processes and systems that have resulted in improved efficiency and safety in the ultra-deep mining environment at Mponeng. At Mponeng he continues to invest bulk of his time into research and development programs that enable sustainable mining at increasing depth.



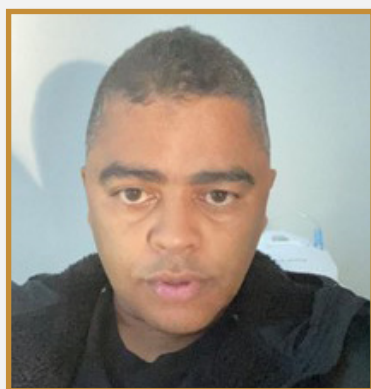
ZWELINZIMA THABETHE

Zwelinzima is a mining engineer who specialises in rock engineering. He has over 19 years combined mining experience, having started his career in 2002 as a mining learner official at AngloGold Ashanti. In November 2003, Zweli moved to the rock engineering department at Mponeng mine as a management trainee in rock engineering. As part of his development program, in May 2006 obtained his COM Certificate in Rock Mechanics.



ROFHIWA PHADAGI

Rofhiwa is currently the Principal Rock Engineer at Exxaro Resources. He holds a BSc (Hons) Geology degree, Rock Mechanics Certificate and is currently studying towards an MEng Civil and Environmental Engineer (Geotech focus) at Wits. He is passionate about the education and development of the future rock engineers.



KEVIN LEBRON

Kevin is currently with MLB Consulting, where he has assisted various operations as the legally appointed rock engineer. He started his career in 1995 after graduation with a BSc Hons degree from UPE (now NMWU) in 1994. Kevin has a vast experience in all different commodities which includes gold, platinum, coal, copper, zinc, lead, tin, heavy industrial minerals (rutile ilmenite, garnet, etc.). He has been involved in projects across the globe in Africa, Australia, Europe, as well as North and South America.. Kevin is married to Gaynor and have 3 kids.

CONGRATULATIONS

Following the examinations concluded thus far for 2021, SANIRE has the privilege of introducing eighteen Strata Control Officers and sic Rock Engineering practitioners who have obtained their respective Minerals Council Certificates.

Obtaining the above mentioned qualifications is not a small feat and takes a lot of hard work, dedication and many, many hours of studies. SANIRE would also like to thank the organisers, examiners, moderators and venues who made the examinations possible.

STRATA CONTROL PRACTICAL PASSES MARCH 2021

Tshivhandekano	Nkheteni	Exxaro Coal
Mtekwana	Lungisa Jomo	Sibanye Stillwater
Zungu	Lindokuhle Colin	Royal Bafokeng Platinum
Malebo	Godfrey Phakoe	Sibanye Stillwater
Lokwe	Rethabile Sweetie	Harmony Gold
Kola	Maphuti Happy	Harmony Gold
Macebele	Nkateko Lindiwe	Sibanye Stillwater
Mavhungu	Fhulufhelo Mandy	Modikwa Platinum
Maphwanya	Thabelo Ndivho	Anglo American Coal

Makhubu	Lindiwe Doreen	Harmony gold
Rudd	Charl	Koidu Limited
Vermeulen	Marais Rocco	Koidu Limited
Van Eeden	Miles Clayton	Koidu Limited
van Wyk	Wynand Johannes	Anglo American Coal
Mashele	Rupert	Anglo American Coal
Siavhe	Ndivho	Sibanye Stillwater
Thantsha	Thabo	DMR
Manamela	Phuti	Anglo American Platinum

NEW ROCK ENGINEERING TICKETS



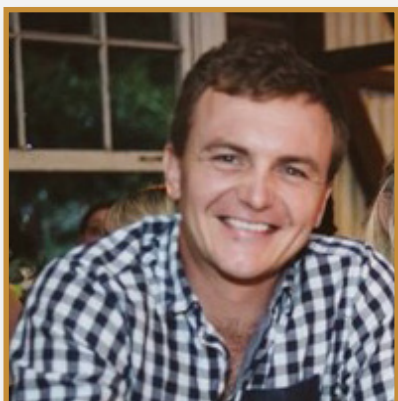
ENOS MAKHUBU
HARMONY GOLD



KATLEGO MATHIBE
IMPALA PLATINUM



GUDANI MUKWEVHO
SIBANYE STILLWATER



JOSH SPENCER
MLB CONSULTING



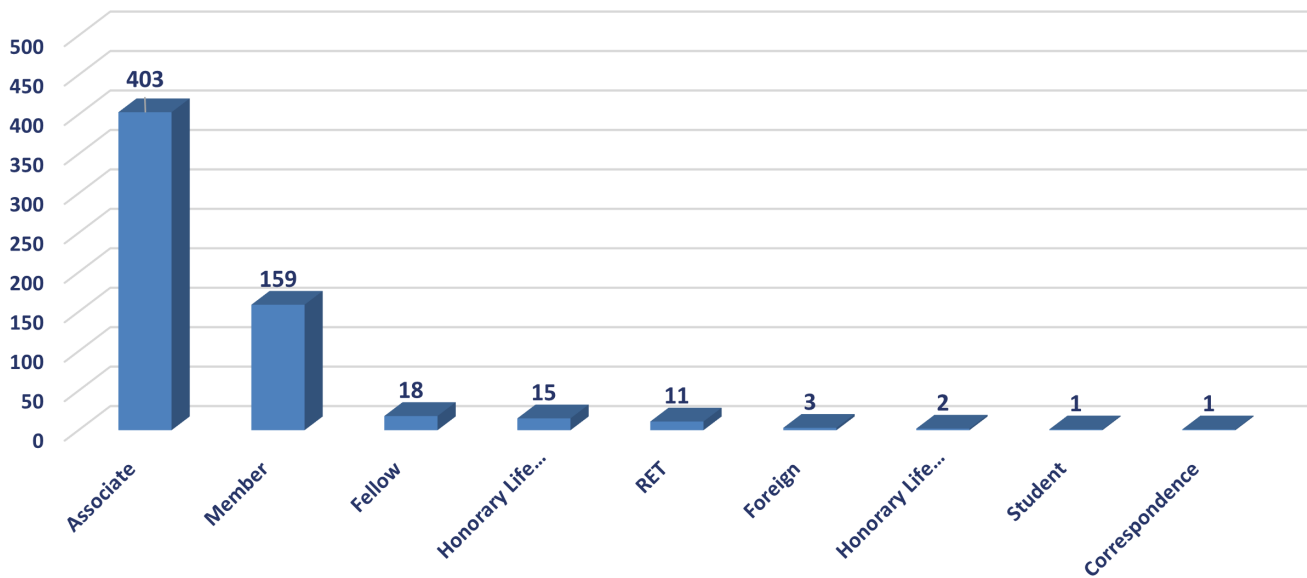
THENDO SELETE
SIBANYE STILLWATER



HAROLD MOHLALA
SIBANYE STILLWATER

SANIRE MEMBERSHIP

SANIRE Membership
15 June 2021



SANIRE VISION, MISSION, & VALUES

Vision

To actively promote the South African rock engineering profession.

Values

- Honesty
- Integrity
- Professionalism
- Accountability
- Transparency

Mission

SANIRE promotes the advancement of the rock engineering discipline by encouraging and promoting:

- Interest and the development of education in rock engineering
- Professional practice and high ethical standards
- Networking, collaboration and information exchange
- Research areas

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Digital Webinar

Type of Advert	Rate (Ex. VAT)	Comments
10 Minute Presentation	R 5000,00	Limited to 1
5 Minute Presentation	R 3000,00	Limited to 2
One slide advert	R 1000,00	Limited to 4

The SANIRE Committee has decided to increase the advertising opportunities for suppliers who would like to market their business and products in Rock Talk. The table below indicates the prices for different sizes of advertisements. Booking dates for future issues will be communicated.

Please contact info@sanire.com for more details

Newsletter

Type of Advert	Hight	Width	Rate (Ex. VAT)
Full Page	297mm	210mm	R 8000,00
Front Page Tower	165mm	55mm	R 4000,00
Half Page	267mm	90mm	R 2800,00
Third Page Horizontal	90mm	190mm	R 2800,00
Square	60mm	60 mm	R 1000,00



SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE
OF ROCK ENGINEERING

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