

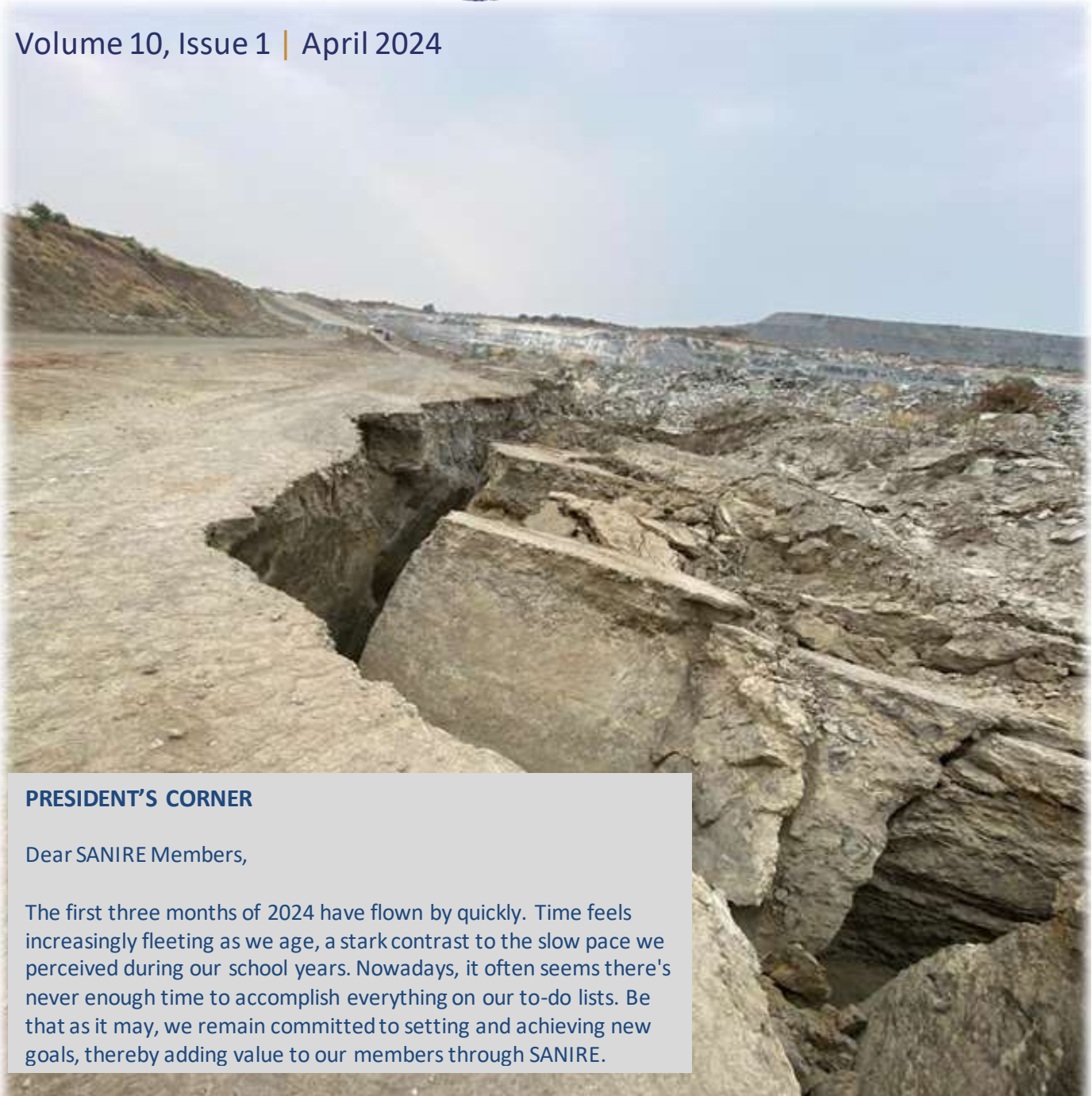


SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING

ROCK *talk*

Volume 10, Issue 1 | April 2024



PRESIDENT'S CORNER

Dear SANIRE Members,

The first three months of 2024 have flown by quickly. Time feels increasingly fleeting as we age, a stark contrast to the slow pace we perceived during our school years. Nowadays, it often seems there's never enough time to accomplish everything on our to-do lists. Be that as it may, we remain committed to setting and achieving new goals, thereby adding value to our members through SANIRE.

- President's Corner
- ISRM meets in Costa Rica
~ Jannie Maritz
- SANIRE Branches

- Treasurer's Column
- Education Blog
- Change of SANIRE
Administrators

Pertinent Dates:

Some pertinent dates are provided below for reference.

- 1 April 2024 Change of Administrator (MPAS to SAIMM)
- 5 April 2024 FOGAP Day of Learning
- 13-14 June 2024 SANIRE Symposium & RockBowl
- 29 August 2024 SANIRE Annual General Meeting
- 28 September 2024 SANIRE Banquet
- 7-8 November 2024 SANIRE Social Event

Change of SANIRE Administrators:

We are pleased to notify you that the SANIRE have changed Administrators. We would like to take the opportunity to thank the Mines Professional Associations' Secretariat for services rendered during their time of tenure. The new service provider appointed as of 1 April 2024, is The Southern African Institute of Mining and Metallurgy (SAIMM).

Herewith the contact details for any enquiries:

SAIMM
7th Floor, Rosebank Towers
19 Biermann Ave
Rosebank
Johannesburg
2196

Phone: 011 538 0231

SANIRE Secretary: Ms Prudence Ntumulang

Email:

- 1) prudence@sanire.co.za
- 2) info@sanire.co.za
- 3) accounts@sanire.co.za
- 4) exams@sanire.co.za

We are looking forward to many successful years of collaboration between the SAIMM and SANIRE.

SANIRE Symposium:

The SANIRE Symposium serves as a platform for Rock Engineering Practitioners to showcase their technical expertise and capabilities to the industry across a two-day period. Responding to inputs from SANIRE members, the 2024 Symposium will introduce an expanded participation opportunity in the program, focusing on technical papers and presentations. The objective is to encourage innovative and challenging content that might not be otherwise accessible, thereby enriching participation and

learning experiences. Scheduled for the 13th to 14th of June 2024, the Symposium invites interested practitioners, researchers, managers, and others in the Rock Engineering field to engage in meaningful dialogues by sharing their knowledge through technical papers and presentations during the event. The 2024 Symposium serves as a prelude to the 2025 Symposium, which is planned to be a full international event, which will be attended by ISRM members.

In addition to the events mentioned, other notable occurrences in Q1 include the Annual Mining Indaba held in Cape Town and leadership transitions in several SANIRE branches, resulting in the election of new chairs. This period also witnessed a rise in interest and activity at the branch level, signaling positive trends that we aim to solidify in the future. I would like to thank everyone for their continued support and we look forward to another prosperous year.



Kevin Le Bron
Sanire President



ISRM meets in Costa Rica ~ Jannie Maritz

Pura Vida, life's motto as lived by the Costa Ricans. This translates to “**pure life**” and symbolizes the simple, cheerful outlook and lifestyle of her people. Slowing things down and enjoying the little things in life, like a cup of good and proper coffee, for which they are of course famous for. Very fitting also are their national animal, the sloth. Yes, you read correctly, the slow moving, always smiling, furry animal.



Left to right: Fengshou Zhang (VP at large: Asia), Luis Lamas (ISRM Secretary General), Ki-Bok Min (VP: Asia), Kiyoshi Kishida (VP at large: Asia), Jannie Maritz (VP: Africa), Milorad Jovanovski (VP at large: Europe), Seokwon Jeon (ISRM President), Estaban Hormazabal (VP: Latin America), Sofia Farrusco (Secretary), Muriel Gasc-Barbier (VP: Europe), Martin Grenon (VP: North America), [inlay: Qianbing Zhang (VP: Australasia)]

The 2023-2027 board held their interim planning meeting in San José, Costa Rica, pinning down their dreams and aspirations for the international society for the coming term. Not surprising, every vice president had in their agenda for their term something to do with membership, the focus on the younger generation and increased involvement to the society. Sounding much like the issues SANIRE council battle through under every council term. How to entertain the younger members and how to keep the old ones. Many initiatives had been tabled and would work started in reaching the first group by this year's international symposium in New Delhi, India. The Rockbowl being a success story to the society, would also enjoy some updates during the next season.

Bringing it closer to home, Africa currently have three national groups: South Africa, Zimbabwe and Tunisia. A fourth is in the process of registering and would most probably join at the Council meeting in India. With around 600 members reported to the ISRM books (totalling around 9300 members) Africa is rather small compared to Asia and Europe. However, looking at national group level, SANIRE is one of the highest member counts in the international society.

What makes this more astonishing is the fact that 99% of our memberships are working on, or consulting to mines. This highlights the fact that we are lacking interaction and liaison to our sister societies like the Engineering Geologist and Civil Geotechnical groups which also under the Federation of International Geo-Engineering Societies

(FedIGS) form part of the group of professionals associated with earth sciences. Looking further than that, the tunnelling associations are also now being considered to join the FedIGS, further expanding the reach. What does this mean to you as member of SANIRE? Changes are that somewhere out there someone else experience the same problems as you. Some had solved theirs, other are waiting for you to share your experience.

The fact that we are highly specialist in mining, gives us the edge in many a field and in no way should any of us feel undervalued for what we are doing. We are doing a “helluva” job! There is one thing more though. We can share more. Share stories, share experiences, share failures but most of all, share successes. The country and the world are hungry for good stories, and we South Africans are good in telling them. Now let us stand up and do it.

The ISRM is not just a garage club jetting around the world and sipping coffee. For me, the society offers a platform for interaction and opportunity for networking, learning from others and growing in my knowledge and application. Make an effort, get involved, but at least in the SANIRE activities and bring your best to the world around you.

The ISRM support and sponsor various seminars, colloquiums and conference annual all over the world. The main conferences at which the board and council meetings will be held include India (2024), Norway (2025), Macedonia (2026) and the 4 yearly congress in Seoul, South Korea (2027). Other ISRM sponsored symposia and conference can be found on their website (isrm.net)



On a personal note. Thank you to SANIRE council for putting forward my name to represent Africa, and the other national groups in supporting the nomination. It is an honour to put on my green jersey and represent the industry on a global platform.

SANIRE BRANCH MEETINGS

Northern Cape Branch ~ Billy Mashiatshiti

On the 20th of March the SANIRE NC branch hosted their first branch meeting at Namakwari Lodge in Kathu. The meeting was a success as it was attended by delegates from across the province. On the agenda were four supplier presentations, branch and educational update, technical presentations, election of additional committee and reporting on fall of grounds.

The meeting started with a warm welcome and branch update by the branch chairperson (Billy Mashiatshiti) followed by presentations. The supplier's presentations were delivered by:

- Moses Ikaneng Marungwana from SkyGeo on InSAR Monitoring solutions.
- Muele Radzilane from IDS on their monitoring solutions.
- Eon Viljoen from Reutech on berm monitoring systems.
- Rodney Podmore from Lecia on Hexagon Mine Monitoring for slope stability and deformation monitoring.

Technical presentations were delivered by:

- Rhenus Malovhele from Kumba Iron Ore Sishen Mine on the slope design configuration across the calcrete-clay geotechnical domain to mitigate the risk of slope failure.

Naledi Letlape from Kumba Iron Ore Sishen Mine on defining catchment berm to improve fall of ground mitigation and data reconciliation.

Rock Engineering and other Branch related matters and presentations were delivered by:

- Nkata on Northern Cape Mine Managers Committee matters.
- Radifadi Mamabolo on finances.
- Billy Mashiatshiti on branch membership and additional members.
- Anton Gregory on fall of ground reporting.

The NC Branch elected 3 additional members joining the current Branch Committee. Congratulations to:

- **Mosa Makwena**
- **Fikile Mokgethoa**
- **Moses Ikaneng Marungwana**

The meeting was a great success, and the branch would like to thank everyone who attended and shared their knowledge. The branch would like to appreciate and show their gratitude to the event sponsors; M & J, Carbontech, SkyGeo, IDS, and Reutech. The NC branch is looking forward to hosting their next branch meeting in the next quarter.



Photos from the SANIRE Northern Cape Branch 1st Quarter Meeting

Gauteng Branch ~ Ohveshlan Pillay

The SANIRE Gauteng branch held their first quarterly branch meeting for 2024 on the 8th of March, at SR Consulting in Illovo, Sandton. With over 40 attendees, this event marked another milestone following the successful gathering on November 29, 2023. The meeting showcased two sponsors and an enlightening technical talk, leaving attendees inspired and well-informed. Kicking off with an introduction of the new committee for the 2024/2025 tenure, the event proceeded with individual attendee introductions as an ice breaker. Mr. Rodney Podmore from Hexagon – Leica Geosystems initiated the talks, presenting an array of survey products tailored for the dynamic mining environments we operate in. Focusing on monitoring of slope stability and deformation, his presentation was insightful and engaging.

The technical talk was presented by Mr. William Joughin, the current SAIMM president and corporate consultant for SRK Consulting. He addressed the audience on a seismic event of magnitude 4.2Mw that occurred in production block 22 at the deep Sub-Level Caving mine Kiirunavaara in Northern Sweden. His presentation provided valuable lessons and risk management strategies derived from the incident. To conclude the event, Mr. Dennis van Heerden of RocBolt Technologies introduced their latest innovative ground control products, offering a glimpse into the cutting-edge solutions they provide to the underground mining and geotechnical industries. We are proud of the success of this event and grateful to our sponsors, Leica Geosystems and RocBolt Technologies, for their support. We hope the insights gained from these talks will contribute to advancements in the field of Rock Engineering for all attendees.

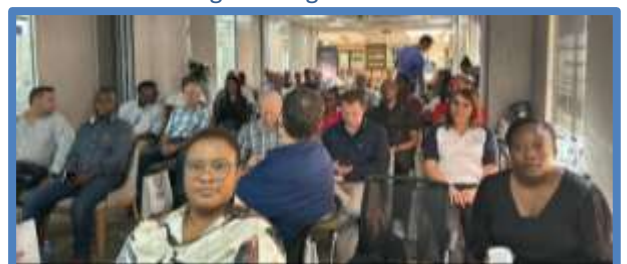




Photo from the SANIRE Gauteng Branch
1st Quarter Meeting

FreeVaal Branch ~ Mitch Wiggins

Beginning a new term, is always a daunting task until you realize – it is not about bringing about change, it is about creating growth from natural change.

Nestled between the Vaal Triangle and Free State, our Free-Vaal branch, often dubbed the “underdog” stands as a testament to resilience. With mines spanning from shallow to deep, each presenting its own set of challenges, our region boasts a unique tapestry of characteristics.

As we usher in a new era, it’s imperative to acknowledge the groundwork laid by Louis Lochner, our esteemed FV chair from 2021-2023. His dedication has been instrumental in shaping our branch, and we extend our heartfelt gratitude for his invaluable contributions.

He is still actively part of the branch committee when he is not pursuing his passion in collecting Lego® or competing in strength competitions such as Powerlifting. Now, let’s acquaint ourselves with the passionate individuals who will steer the course of the FreeVaal branch from 2023 to 2025:

FV Chair: Mitch Wiggins

From childhood, I drove my mother up the wall, by hoarding rocks in my closet, but nowadays, I am simply living the dream by being part of the ever-expanding concept of understanding the application of geomechanics. Growing up in a mining community, it has always been part of my legacy to return to my roots at Sibanye Stillwater, Driefontein operations. Pursuing my dream as Rock Engineer has become a reality by the sheer belief and support from my beautiful wife, Jenny.

FV Vice Chair: Ryno Maritz

Stepping into the role of Vice-Chair, Ryno Maritz brings a wealth of experience and a love for family. When not immersed in the world of mining and Rock Engineering at Phakisa Shaft, Harmony Gold, Ryno enjoys quality time with his wife and daughters.

FV Secretary: Thapelo Mangali

A sports enthusiast and devoted family man, Thapelo Mangali adds dynamism to our team. Balancing his role as a Strata Control Officer at Phakisa Mine with his passion for sports, Thapelo exemplifies dedication on and off the field.

FV Young Members: Pierre Spies

The future of Rock Engineering in our region shines bright with Pierre Spies at the helm. As a young father and Geotechnical Engineer, Pierre injects enthusiasm and fresh perspectives into our endeavors.

FV Supplier Representative: Johan Rautenbach

A hands-on professional representing Videx Mining Products, Johan Rautenbach is the voice of our esteemed sponsors and suppliers. Balancing his commitments with a fervent love for family, Johan embodies dedication and reliability.

As I assume the mantle of leadership, I am humbled to guide the SANIRE Free-Vaal Branch towards a future defined by growth and collective success. Let us embrace challenges as opportunities, and together, make this year an extraordinary one. Here’s to never ceasing our quest for growth.

Eastern Bushveld Branch ~ Easavani Pillay

The Eastern Bushveld Branch rings in the new year with fresh leadership and a renewed zest. Introducing the new committee:



Chairperson: Easavani Wessels
Qualifications: BSc Geological Science, COMREC
Years of experience: 13



Vice Chairperson: Narisha Siriram
Qualifications: BSc Hons Engineering Geology, COMREC
Years of experience: 18



Treasurer: Gideon van der Westhuizen
Qualifications: COMSCC
Years of experience: 13



Administrator: Obed Tsetsewa
Qualifications: BSc Hons Geology, GDE, COMREC
Years of experience: 22



Youth development rep: Vhutshilo Nemallil
Qualifications: BSc Hons Geology, COMSCC
Years of experience: 7



Supplier Representative: Chris Brink
M and J mining Area Manager
Years of experience: 24

Eastern Bushveld Branch ~ Easavani Pillay cont...

For the upcoming year, we have planned the following events:

Date	Meeting/Exam	Venue
TBA	2 nd Branch Meeting and Technical Visit	Mogalakwena
25 April 2024	SCO Practical Exam	Glencore
27 September 2024	Golf Day/Family Day	Highland Gate

EBB Committee is thrilled to build on our now established and very popular annual Highland Gate golf event, now with a family-oriented twist. Future events will cater to the entire family, not just golf enthusiasts. Expect a day filled with spa indulgences, children's activities, and stalls offering coffee and ice cream, ensuring enjoyment for all. Early booking is recommended to secure your spot. You might even catch a glimpse of Ernie, or at least his portrait adorning the walls.

Our 2nd branch meeting will take place at Mogalakwena, aiming to re-engage our branch's northern members. A technical tour will offer valuable insights into massive mining operations.

I urge everyone to attend, contribute, and actively participate in the SANIRE Eastern Bushveld Branch meetings, **and to keep your membership current. I urge all members to ensure SANIRE membership is fully paid and in good standing.**



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WE HAVE INCREASED THE ADVERTISING OPPORTUNITIES FOR COMPANIES WHO WOULD LIKE TO MARKET THEIR PRODUCTS AND SERVICES IN THE SANIRE NEWSLETTER.

CONTACT US TODAY TO SECURE A SPACE IN THE NEXT ISSUE OF **ROCKtalk**.

PRICES FOR DIFFERENT SIZES OF ADVERTISEMENTS:			
Type of Advert	Height	Width	Rate (R, VAT)
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Front Page Insert	165mm	55mm	R 4000.00
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Third Page Horizontal	99mm	190mm	R 2000.00
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WE ARE LOOKING FOR THE NEXT ROCKStar

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 **ROCKtalk**.

DEADLINE FOR NOMINATIONS
15 JUNE 2023

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

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

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ROCKtalk

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.

SUBMISSION CATEGORIES

- Industry Related Articles
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- Case Studies

SUBMIT AN ARTICLE AND STAND A CHANCE OF WINNING

SANIRE MEMORABILIA

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Treasurer’s Column

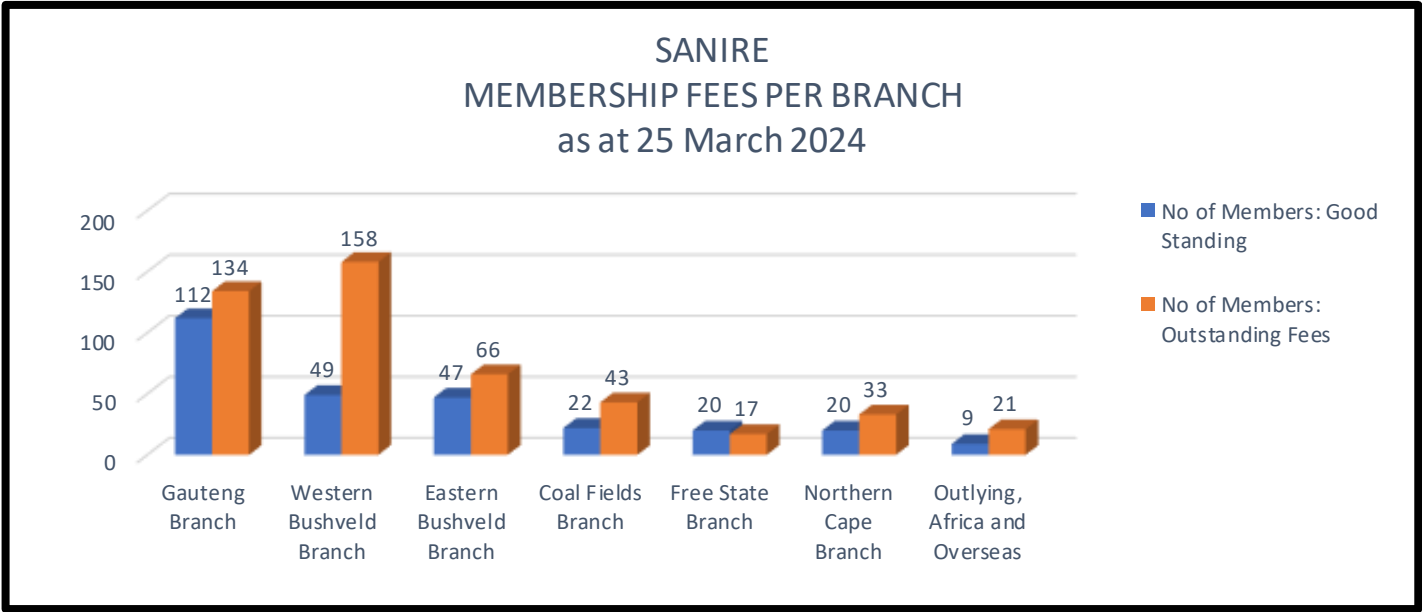
Dear SANIRE Members,

As we navigate through the ebbs and flows of our financial year, which commences on the 1st of July and gracefully concludes on the 30th of June, we find ourselves reflecting on the core pillars that sustain our esteemed institution. In the wake of our Annual General Meeting, we diligently issue membership fee invoices in August, setting a cornerstone for our operational blueprint. To date (Financial Year 2023/2024), SANIRE has issued membership invoices to 751 Members.

It is with a heart full of gratitude that I extend a thank you to those members who have upheld the ethos of punctuality and responsibility by ensuring their membership fees were settled promptly. We have received membership fees payments from 279 members year to date. Your timely contributions empower SANIRE to fulfill its noble mandate of serving its members with unwavering dedication and excellence.

However, the journey towards achieving our collective goals is paved with the shared responsibility of each esteemed member. It is imperative to underscore the significance of timeous payment of membership fees, a responsibility that holds true even for those whose dues are graciously covered by their respective companies. It is still each individual member’s responsibility to ensure that their membership fees are paid timeously. Moreover, Section 7.4 of our Constitution states that a member whose annual membership fee is unpaid after 31 December in any year, ceases to be in good standing.

In the spirit of transparency and open dialogue, it's crucial to acknowledge the current fiscal landscape. With 751 membership invoices issued this Financial Year, we anticipated a bolstering income of at least R751,000. Yet, as we stand, the recovery rate hovers at a modest 37%, amounting to R279,000. A notable mention must be made of the Western Bushveld branch, where the outstanding dues have reached the R178,000 mark. Figure 1 below summarizes the membership fees paid vs outstanding per branch.



In light of the poor Membership fees recovery rate, a pivotal decision was made in February 2024 to suspend members with outstanding fees. This tough but necessary measure has, fortunately, ignited a positive turnaround in fee settlements. This outcome resonates with our collective commitment to sustaining the vitality and effectiveness of SANIRE.

In closing, I implore each Member to mirror the diligence and promptness exhibited by many of our peers. Let us ensure that our membership fees are paid on time, thereby fortifying the foundation upon which our institution stands. Together, in solidarity, we can continue to forge a path of excellence, innovation, and service to our community.

Education Blog

As you're reading this, the May examination will be mere weeks away, indicating that the bulk of the preparatory efforts ought to be complete. If this isn't the case, it's time to free up your social schedule and focus on studying. As a reminder, please pay attention to the subsequent information.

The May and October 2024 examination dates are outlined below:

EXAMINATION PAPERS	EXAMINATION DATES		TIME OF EXAMINATIONS
MAY EXAMINATIONS		OCTOBER EXAMINATIONS	
Strata Control Met.	07 May 2024	08 October 2024	14:30 – 17:30
Strata Control Coal	07 May 2024	08 October 2024	14:30 – 17:30
RMC Paper 1	07 May 2024	08 October 2024	14:30 – 17:30
RMC Paper 2	08 May 2024	09 October 2024	14:30 – 17:30
RMC Paper 3.1	09 May 2024	10 October 2024	14:30 – 17:30
RMC Paper 3.2	09 May 2024	10 October 2024	14:30 – 17:30
RMC Paper 3.3	09 May 2024	10 October 2024	14:30 – 17:30
RMC Paper 3.4	09 May 2024	10 October 2024	14:30 – 17:30

The Council is pleased to announce the addition of several new examiners and moderators for the forthcoming examination. We extend a warm welcome and express our gratitude for their readiness to contribute their expertise and support the development of future Rock Engineers.

Exam	2024 May	
	Examiner	Moderator
SCO Met	Mbubelo Ngwenya	Yerisha Rajpal
SCO Coal	Ricardo Gonsalves	Olwethu Swakamisa
P1	Sandor Petho	Obakeng Ramukukoe
P2	Fezekile Mosiane	Shane Durapraj
P3.1	Jeane Matsobane	Richard Lousteau
P3.2	Mathapelo Gonyela	Felix Chiramba
P3.3	Thokozani Mtshali	Jeanne Walls
P3.4	Thandile Dlokweni	Rob Armstrong

During a recent educational workshop, various topics were discussed, and some notable points of interest are summarized as follows:

- **Update the SANIRE website:** The aim is to improve its aesthetics and user experience by making it more intuitive. This will involve purging outdated documents and organizing the pertinent information and documents systematically.
- **Assistant marker and moderator for SCO Met and Paper 1:** With nearly 200 candidates writing the SCO Met paper and 100 writing P1, meeting the Minerals Council's marking submission deadlines has been challenging. The introduction of an assistant marker and moderator is expected to significantly reduce the time needed for assessments.
- **Proactive selection of examiners and moderators:** It's crucial to identify and prepare future examiners and moderators well in advance, providing support and direction as needed. This strategy is intended to uphold the necessary standards and ensure that the duties and expectations of the examiners and moderators are consistent with the objectives of both SANIRE and the Minerals Council.

Important to note that following discussion and voting by the Council, the pass mark for the Rock Mechanics Certificate Planning exam has been changed from 60% to 80%. The Rock Mechanics portfolio exam pass mark remains at 60%.

We anticipate that these modifications will have a beneficial impact and encourage input to help us enhance our efforts. For additional details regarding the examinations, both theoretical and practical, please visit the **South African National Institute of Rock Engineering (SANIRE)** website. To all those preparing for the upcoming exam, remember that hard work will be rewarded!

Welcome Note

On the 1st April 2024, the Southern African Institute of Mining and Metallurgy (SAIMM) took over the administrative functions of SANIRE.



SAIMM started as a learned society in 1894 after the invention of the cyanide process that saved the South African gold mining industry of the day. This 125-year-old professional body enjoys both local and international links aimed at disseminating knowledge and assisting our members source information regarding technological developments in the mining, metallurgical and related sectors. The overarching objective is to ensure that our engineers remain relevant and can continue developing professionally as they progress in their respective careers. They are also guided by a professional code of ethics that ensures reciprocity with similar bodies around the globe. This allows us to collaborate on global initiatives and to influence policy that directly affects our industry. The SAIMM also actively participates in promoting and meeting industry-related obligations to various communities and the environment. This is consistent with the SAIMM's constitution.

Please join me in extending gratitude to **Raymond van der Bergh** and the entire MPAS team for having rendered a magnificent service to SANIRE and in welcoming **Sam Moolla** and **Prudence Ntumelang** to the SANIRE family.

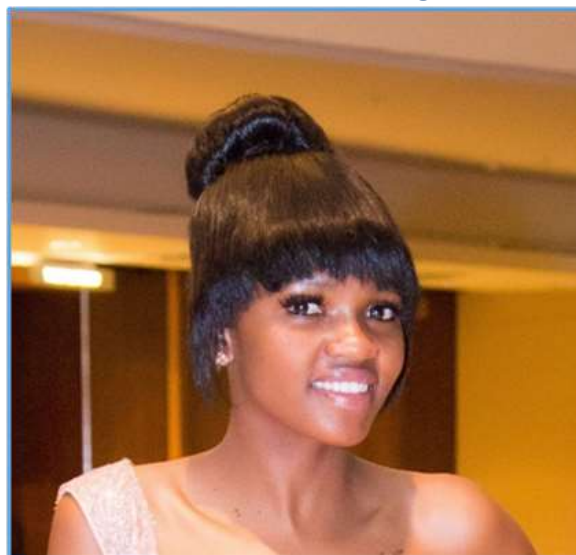
Sam Moolla



Sam Moolla is the Manager of the Southern African Institute of Mining and Metallurgy. She joined the Institute in the late 1980s and left in 2005 to pursue other interests. In 2013 she returned 'home' and resumed the role as Manager. The SAIMM currently employs 17 team members.

Sam holds a Higher Diploma in Business Management, and her experience is in business management, administration, and human resources. She sees her ability to work well with people at all levels of management, as well as her peers, and people who require supervision, as one of her greatest strengths. She uses any challenges that arise as opportunities for personal growth. Sam is looking forward to bringing her skills and experience to SANIRE and will support the team wherever it is required.

Prudence Ntumelang



Prudence Ntumelang was employed by the SAIMM from 2014 to 2023 in the Membership Department. She left for a brief period and returned in March 2024 to join SANIRE.

She holds a Diploma in Management Assistance and has more than seven years of diverse experience spanning many areas including sales and business administration. In each of her previous job experiences, she has performed her assignments with a high degree of skill and professionalism. She believes in excellence and has always dedicated herself, her talents and her creative abilities to ensure the successful accomplishment of the company's goals. Prudence will be the SANIRE Administrator.

EDITOR'S CORNER



SANIRE would like to hear from you. If you have any information or content, you would like us to include in the next newsletter, please submit them via email to Fezekilem@Dwarsrivier.co.za and Prudence@SAIMM.co.za. Remember to visit all our media platforms.