

WELCOME TO THE



SANIRE

SOUTH AFRICAN NATIONAL INSTITUTE OF ROCK ENGINEERING

ANNUAL GENERAL MEETING

FRIDAY
27 AUGUST 2021

MICROSOFT TEAMS LIVE
TIME: 11h00 - 14h00



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*In
Rememberance....*

AGENDA

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



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MATTERS ARISING FROM PREVIOUS MEETING



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CONSTITUTION



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ADMINISTRATION

Administration

Mines Professional Associations' Secretariat (MPAS)

 Administrating body for Twelve (12) Associations & One (1) Institute



- **SECRETARIAL DUTIES**
Meetings, Annual Reports, Minutes, Correspondence, Record maintenance Communications
- **MEMBERSHIP**
Management of membership system, record amendments, liaison, membership queries
- **FINANCIAL (94% collection ratio)**
Monthly Reports, Book of Accounts, Financial Reporting
- **PUBLICATION**
Desktop Publication (Newsletter publishing, editing, design)
- **EVENT MANAGEMENT**
Notices, Announcements, Planning, Preparation, Reconciliation of Accounts
- **SOCIAL MEDIA**
Website Management, Social Media Platforms Management
- **BRANDING**
Management of SANIRE Brand amongst twelve other organisations

- **Strata Control Officer Practical - between 60 to 75 applicants twice a year**
- **Rock Engineering Practical – average 25 candidates each exam**
- **Strata Control Officer Practical Exam Strata Control Officer Practical Exam registrations (September /October 2021)- In Progress**

SANIRE Events-2020/2021



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BIG 5 WEBINAR

A JOURNEY BY
STORY AND CASE STUDY

WEDNESDAY
30 SEPTEMBER 2020
TIME: 11h00

MICROSOFT TEAMS LIVE
Upon RSVP of attendance, a link to
the event will be sent to each member
via a meeting request



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ROCK ENGINEERING JERUSALEMA CHALLENGE

WE ARE CHALLENGING ROCK ENGINEERING DEPARTMENTS
ACROSS SOUTH AFRICA TO JOIN IN AND PARTICIPATE

Email the video of your department participating the Jerusalem Challenge to: info@sanire.co.za
before Friday, 27 November 2020.

Be sure to include the Mine and Rock Engineering Department name in the subject line.
The winning department will be announced on 1 December 2020.

SUBMIT BY

FOR MORE INFORMATION
email: info@sanire.co.za



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Raymond van der Berg
t: (+27) 11 568 2053
e: raymondvdh@mpas.org.za

RESIN BOLT WEBINAR

WEDNESDAY

21 OCTOBER 2020

TIME: 13h00

MICROSOFT TEAMS LIVE

Upon RSVP of attendance, a link to the event
will be sent to each member via a meeting
request



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ber

5

13h00

SAVE THE DATE

Shotcrete Webinar

Please book it in your calendars.
More information to follow.

Sponsored by:

MASTER
BUILDERS



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VIRTUAL SYMPOSIUM

5 - 6 AUGUST 2021

MICROSOFT TEAMS LIVE

WEBINAR

FREE OF CHARGE

Forensic Rock Mechanics for the Analysis
of Rockbursts and Seismicity in Mines



Gerrie van Aswegen

Consultant: Mine Seismology, Structural Geology
Institute of Mine Seismology

July 2020



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PORTFOLIOS

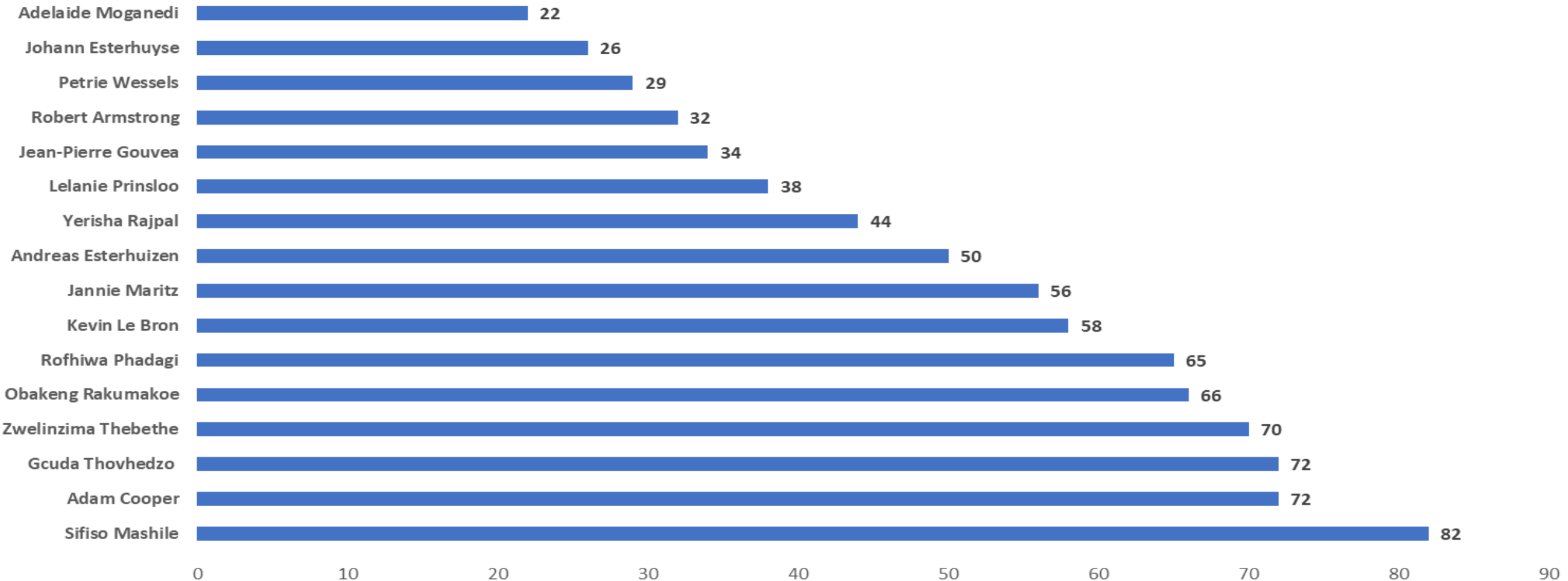


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Council Voting Results

SANIRE COUNCIL VOTE 2021





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WELCOME NEW COUNCIL



Portfolio	Portfolio Holder
President / Events and Sponsorship	Lizelle Prinsloo
Past President	Paul Couto
Vice President	Kevin Le Bron
Treasurer	Sifiso Mashile
Administrator / Events	Mbalenhle Buthelezi
Membership and Young Members	Zwelinzima Thebethe
Social media, Newsletter, Awards	Thovhedzo Gcuda
Education, Minerals Council Exams Best Performance Awards	Adam Cooper
Future Education	Jannie Maritz (Co opted)
Rock Engineering Practical Exams	Kevin le Bron
Strata Control Officer Practical Exams	Rofhiwa Phadagi
ISRM/ RETC/ MRAC	Dr. Michael Du Plessis
Organisational Liaison	Obakeng Ramukakoe



IMMEDIATE PAST PRESIDENT

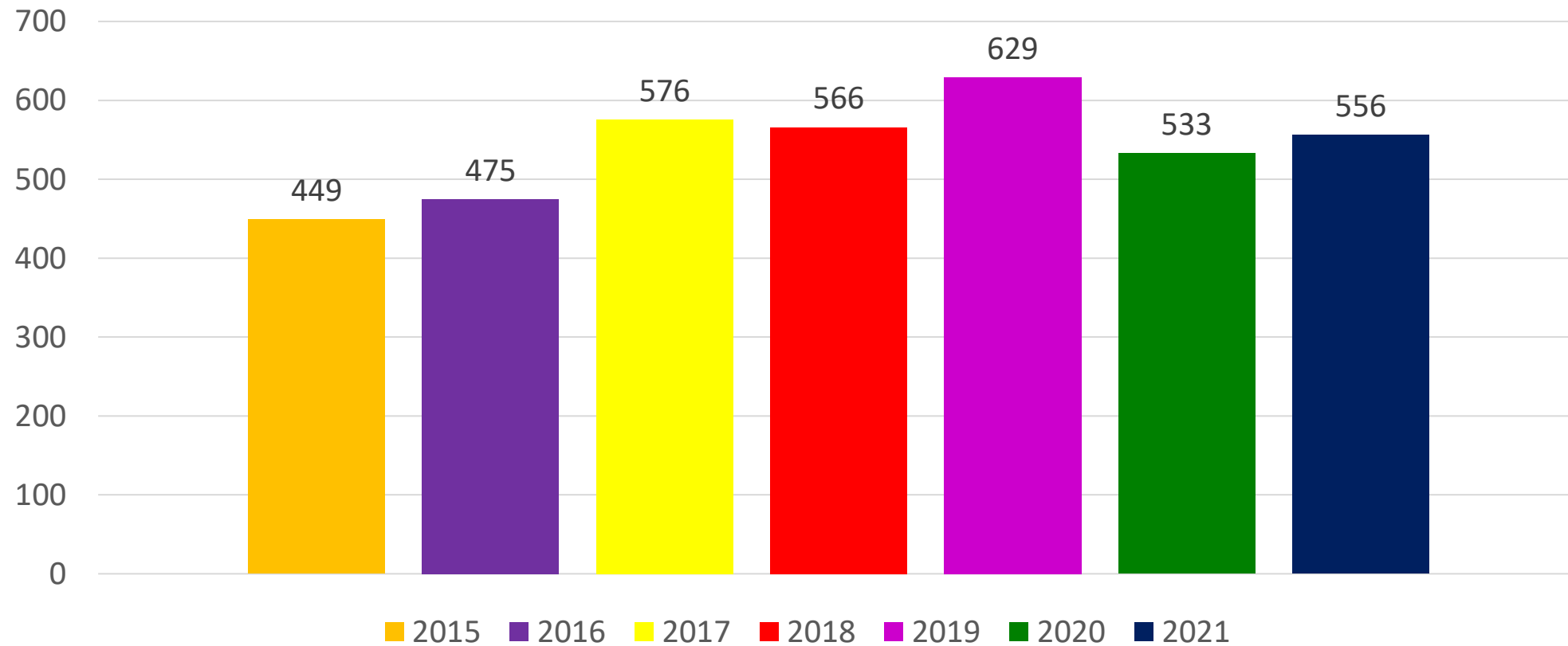


MEMBERSHIP & YOUNG MEMBER PORTFOLIO





SANIRE Membership
2015 - 2021



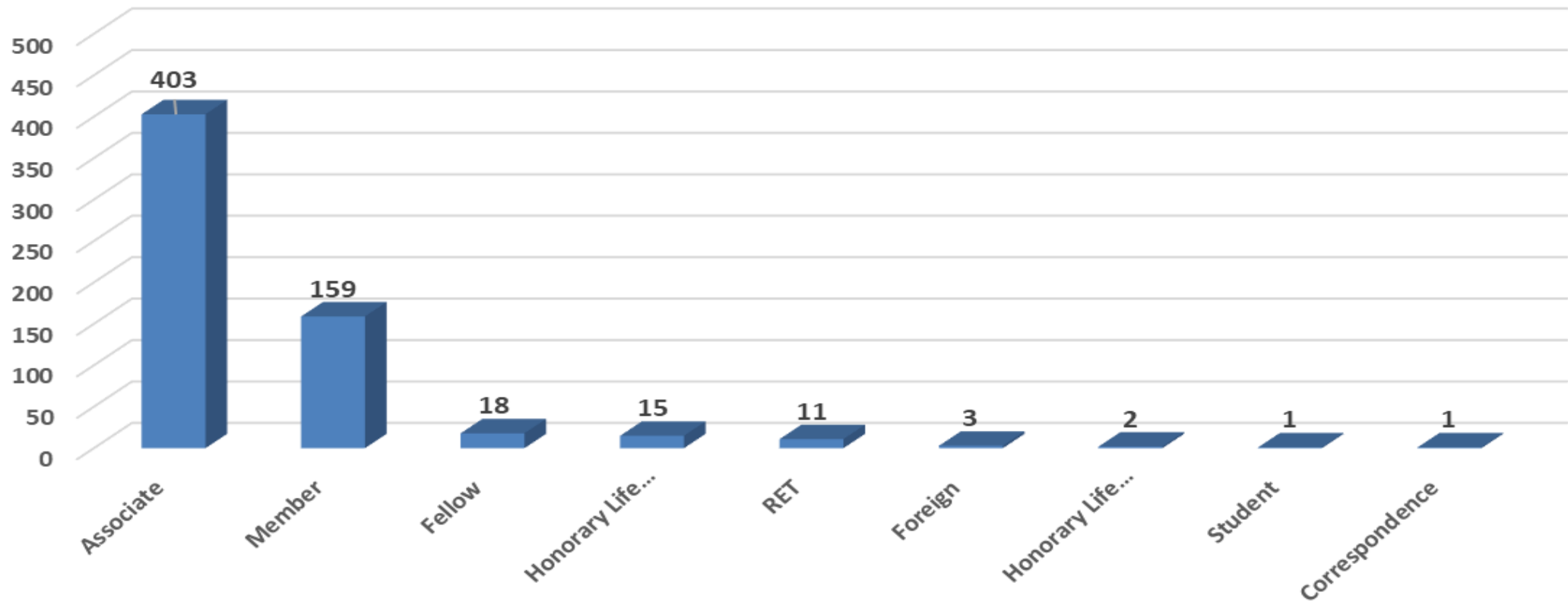


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Membership

**SANIRE Membership
15 June 2021**



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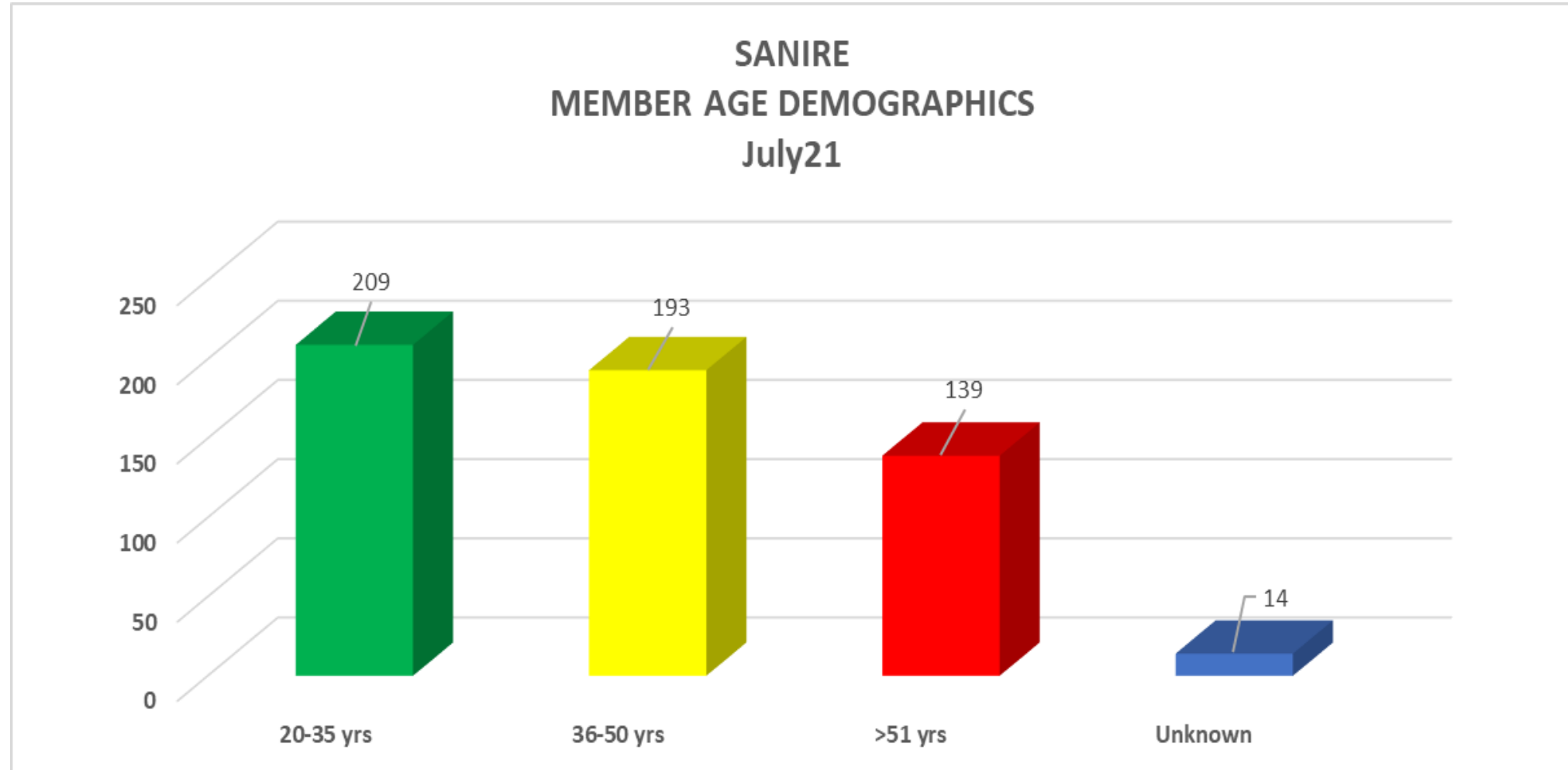
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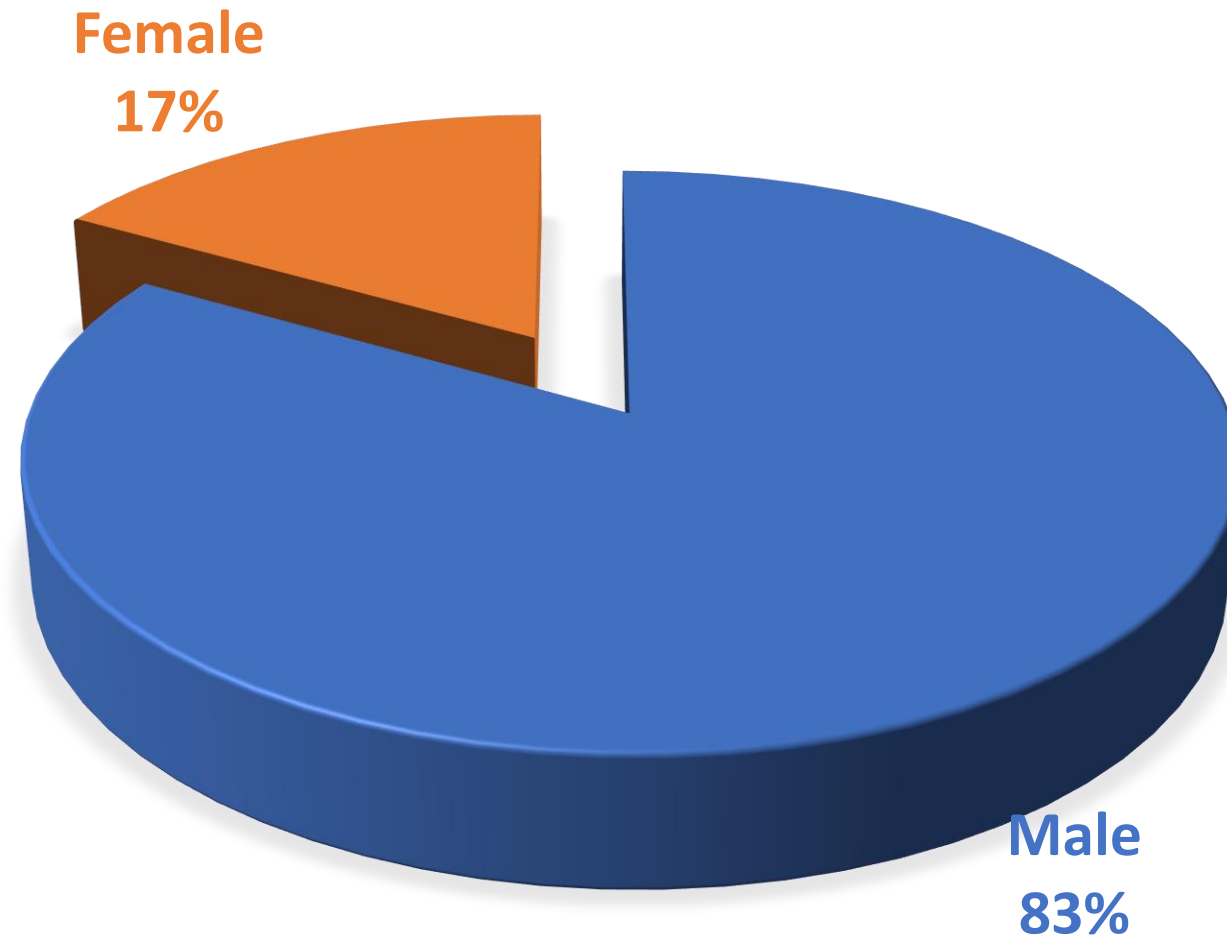


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**SANIRE
MALE - FEMALE
RATIO (JULY2021)**



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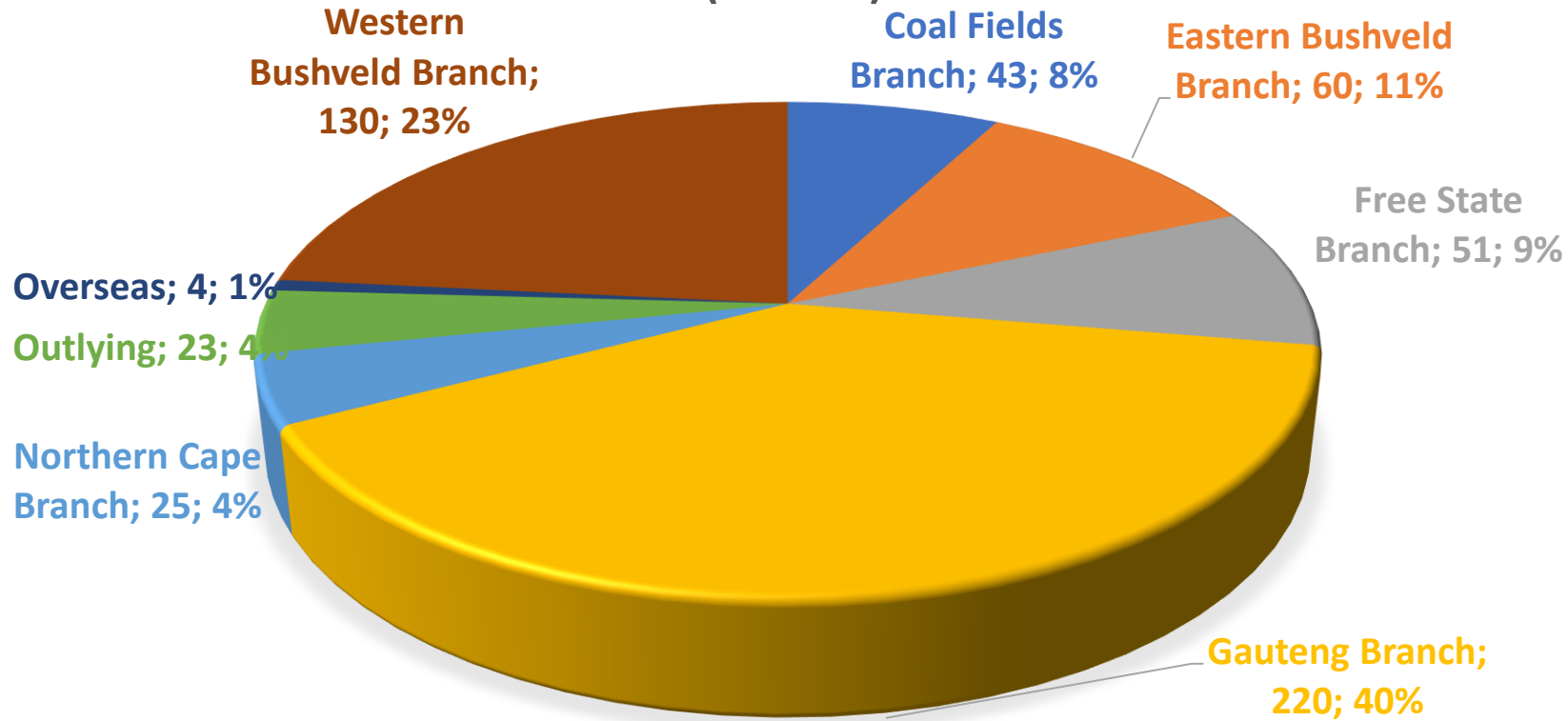
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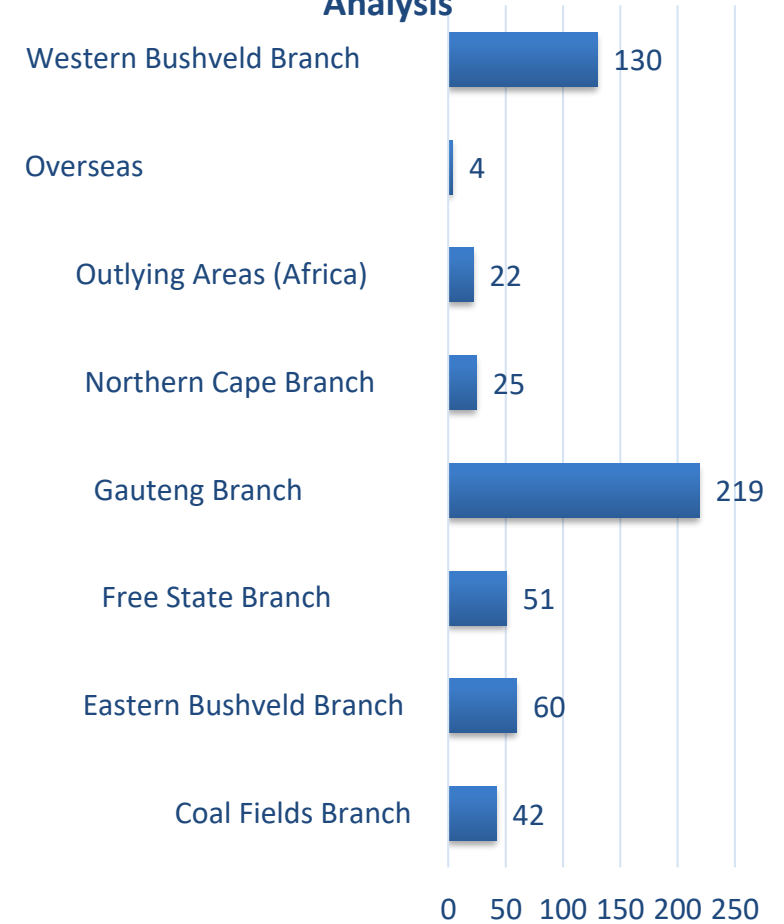
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SANIRE BRANCH RATIO (JULY 21)



Membership

SANIRE BRANCHES _ Member Analysis



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- Annual request is sent out to all members to update their details on the database.
- Payments must be made with reference numbers on the invoices are required to ensure the correct allocation is posted.
- eMembership certificates will be issued on receipt of payment.





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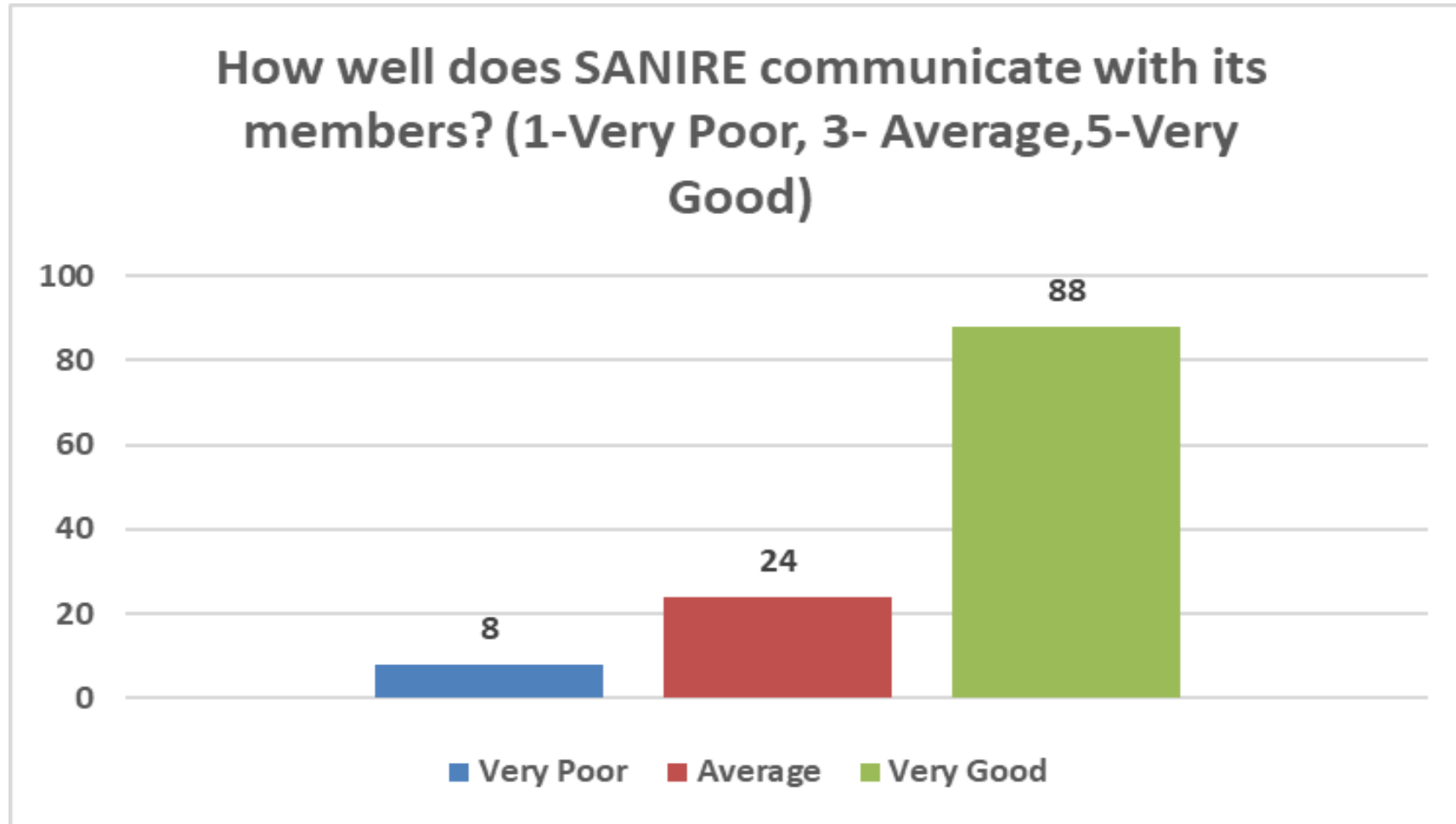
MEMBERSHIP SURVEY



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Membership Survey



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What content would you like to see in communications from SANIRE?

Rock Engineering lecture videos

Latest publications and research / new technologies / mining strategies

Conferences, symposiums

Upcoming events

Educational content

Industry events

Current communication is good

Exam performances

What SANIRE fees are used for

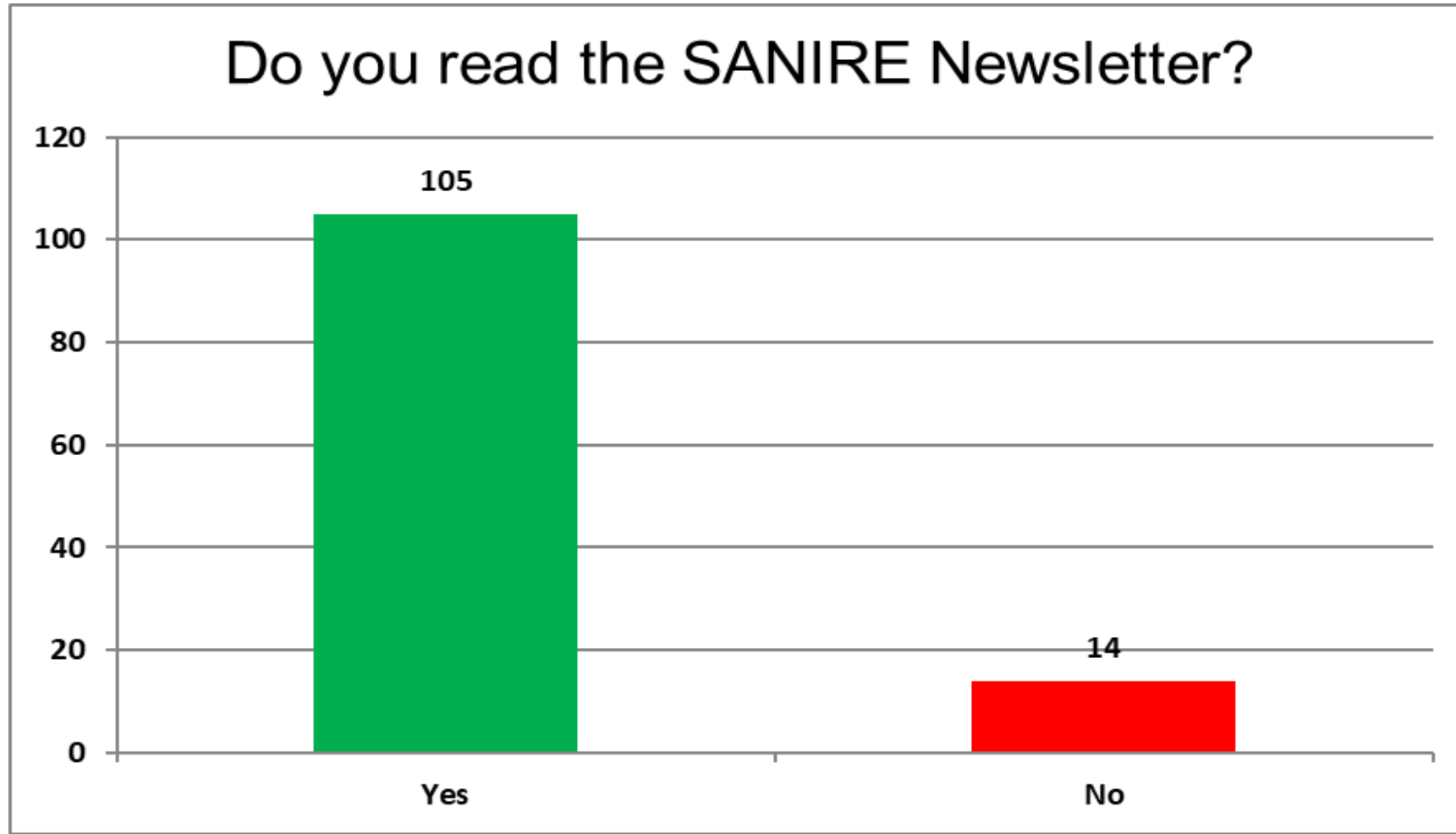




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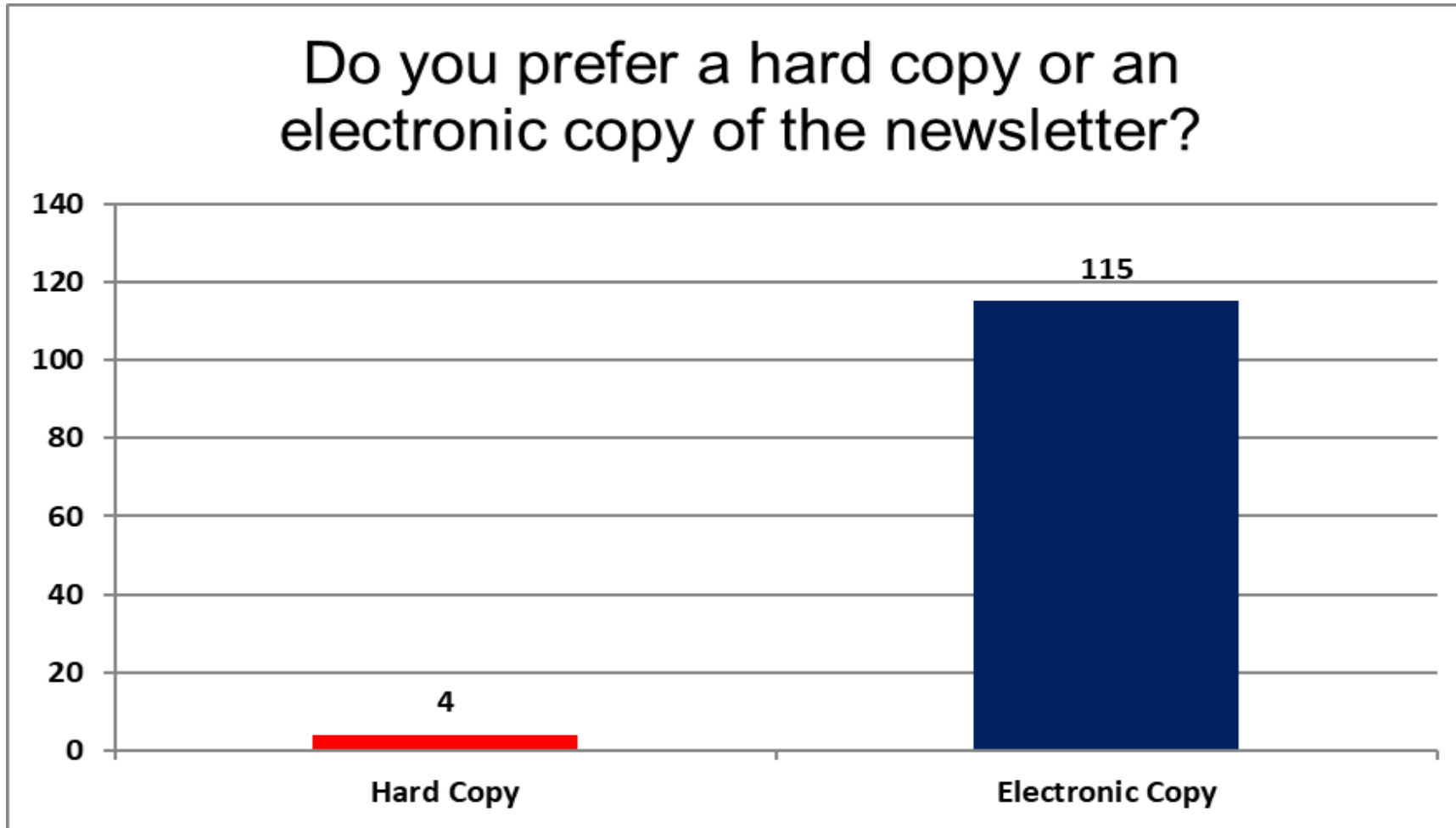
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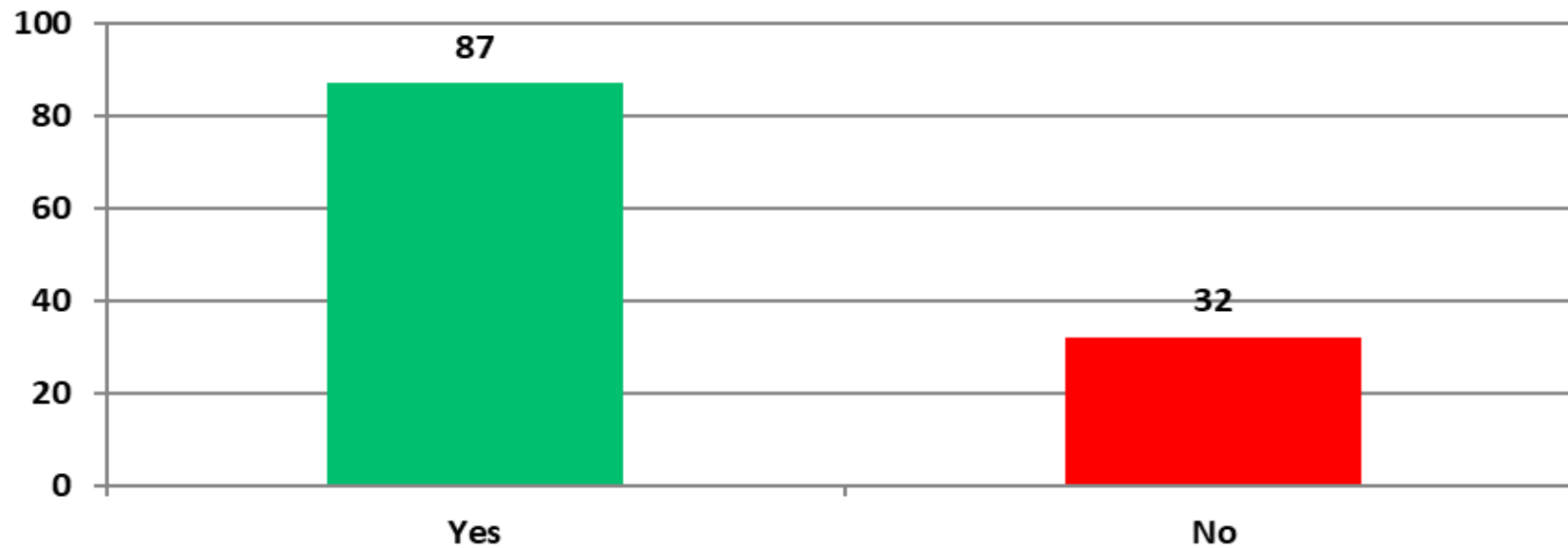


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Would you like to receive a notification
(WhatsApp/ Electronic Message) with
important news and updates to the
SANIRE Webpage?



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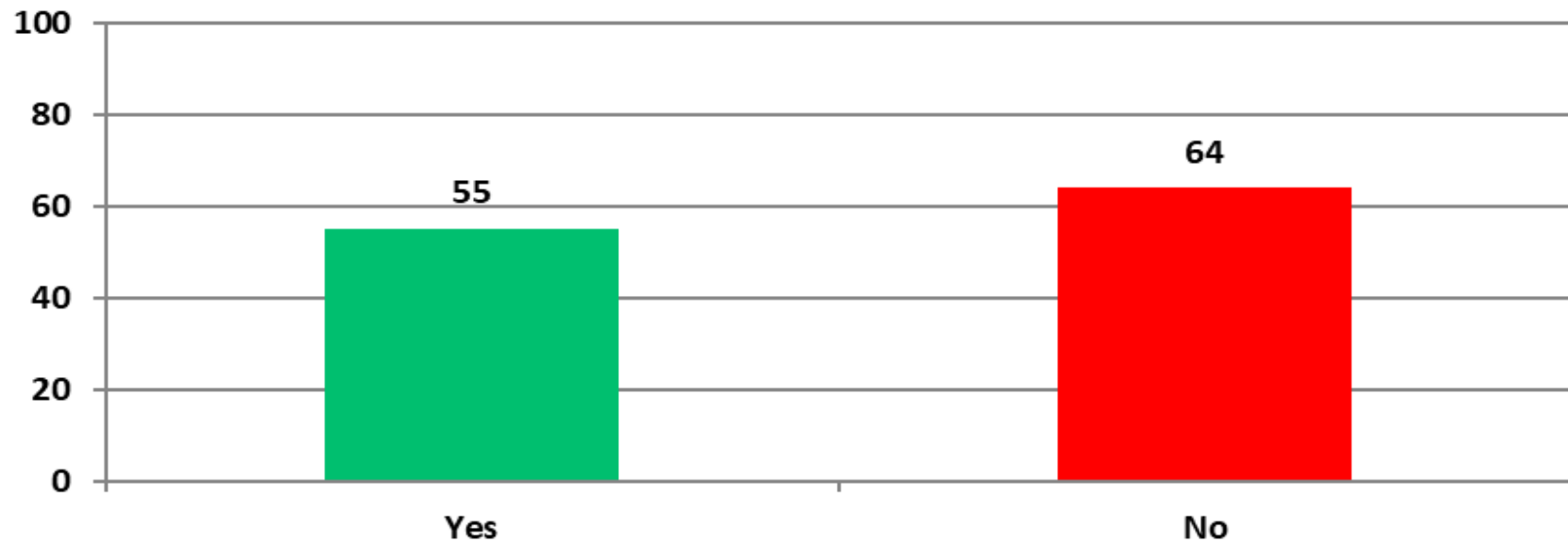


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Do you know there is an anonymous suggestion box on the SANIRE Website for comments, suggestions or complaints?



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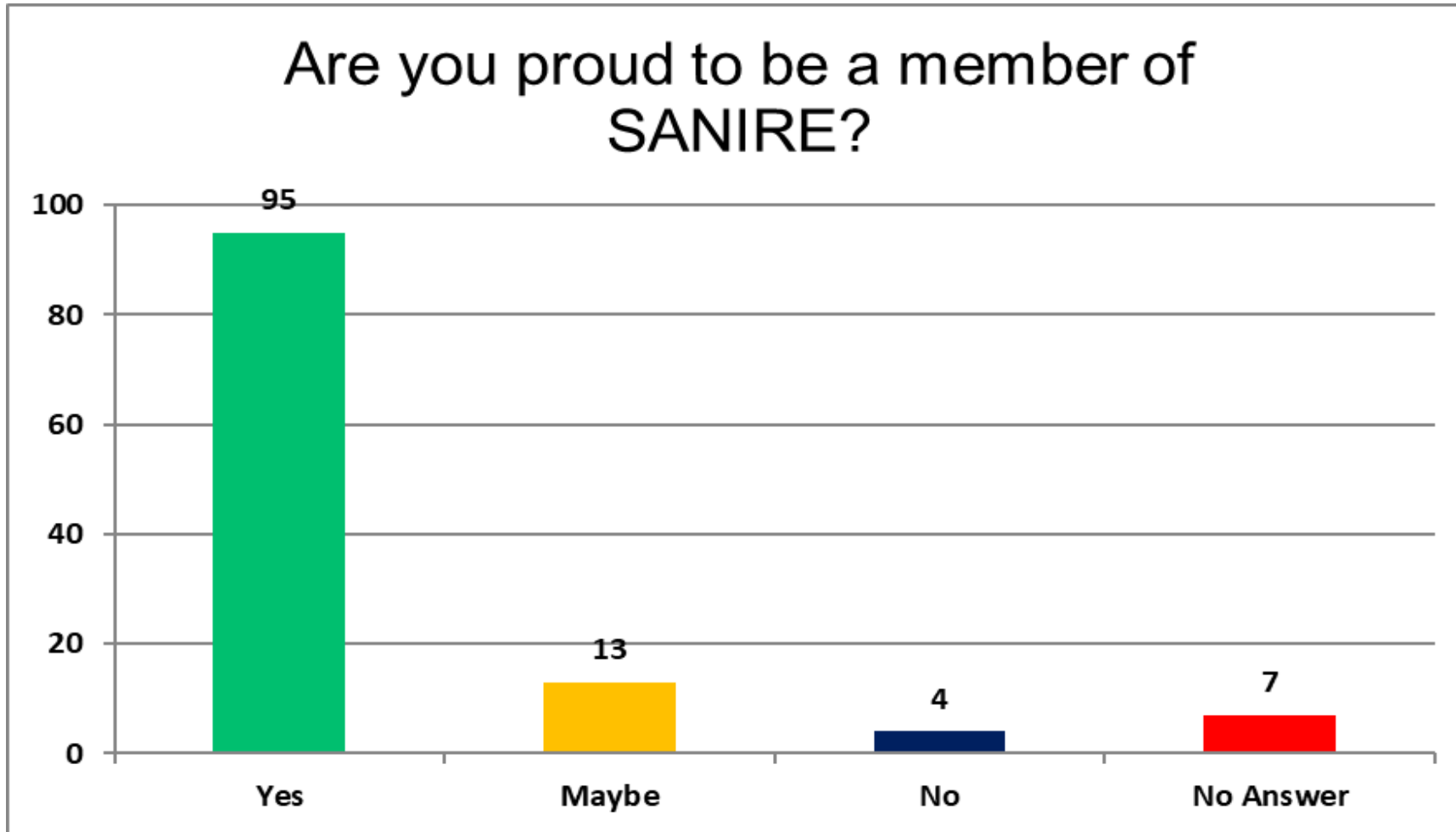
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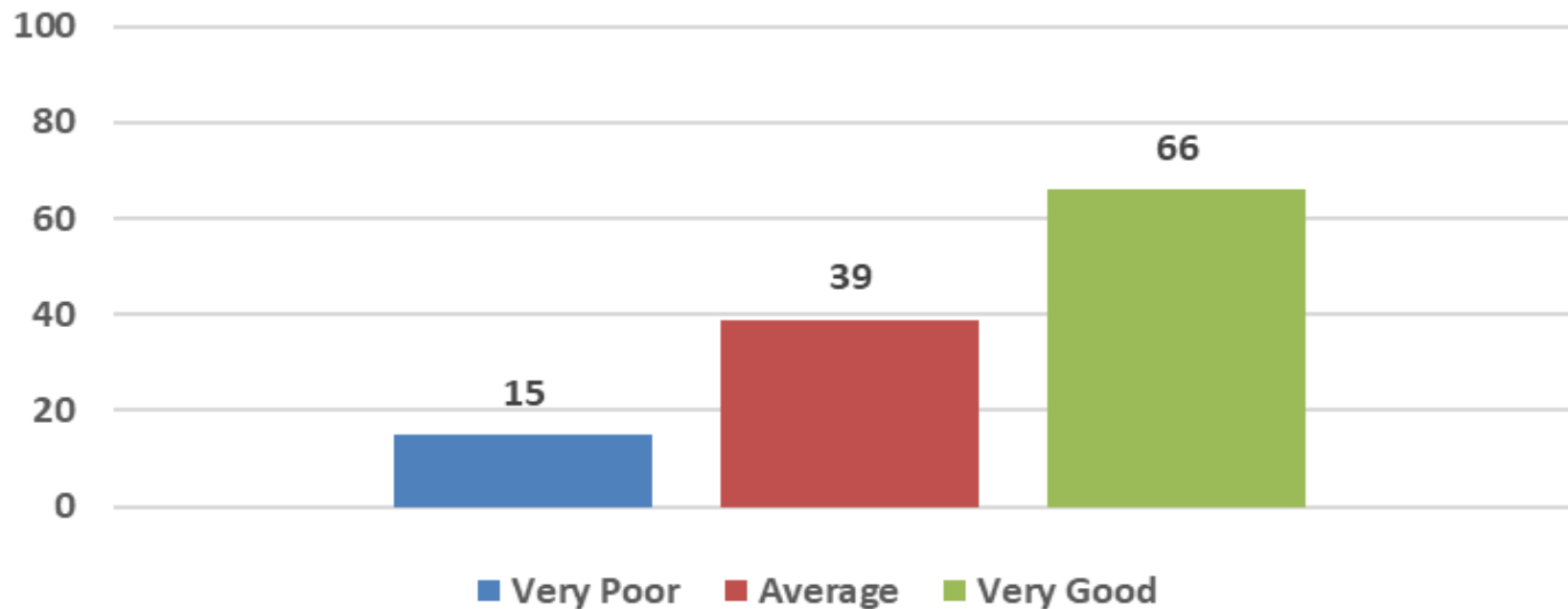


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On a scale of 1 to 5, (1-Very poor, 3 Average, 5 Very Good), does SANIRE meet your expectations of what it is intended for?



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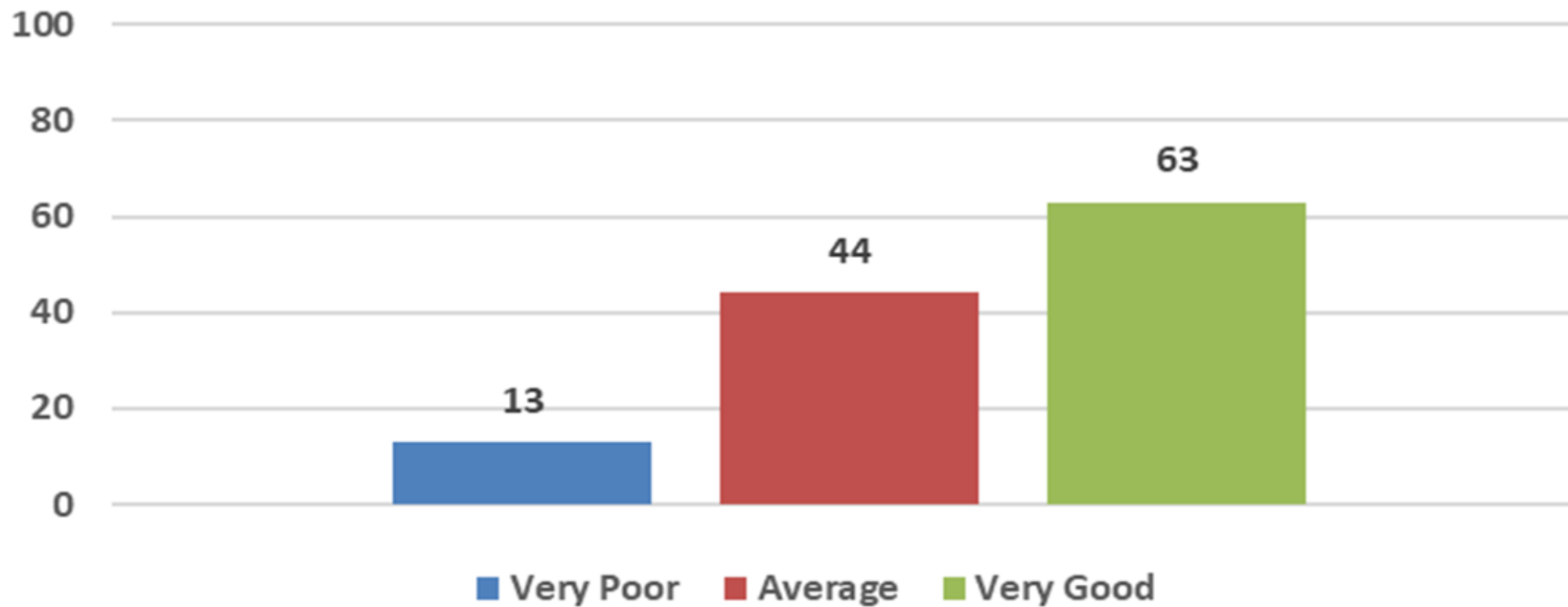


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On a scale of 1 to 5, (1-Very poor, 3 Average, 5 Very Good), how well does SANIRE function in your opinion?



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Are there any other suggestions or comments that you would like to mention to SANIRE?

- Free training
- Free webinars (more webinars from leaders in the industry like with Gerrie van Aswegen)
- ECSA Engagement
- Provision of examination scripts
- DMRE Engagement
- Provide candidates with exam scripts
- Issuing of membership certificates without failure



Are there any other suggestions or comments that you would like to mention to SANIRE?

- Fair treatment to all members
- Improve branches
- Create social and professional opportunities
- More collaboration between different organisations
- Mentorship programme
- Supplier awards for research and exemplary careers
- A remembrance link for all deceased members
- More transparency. SANIRE should look after the interest of the members, not the political interests of Council





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TREASURY



General overview

- New financial year started 2021-2022 in July 2021.
- Financial year end 2021 is concluded and an independent audit was conducted of the financial year end.
- Membership invoicing have not yet commenced as the announcement of the membership fee increase is only to be communicated today at the AGM.
- At all times two authentication must be applied, thus two signatories must release any payment made





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FINANCIALS 2020 / 2021

SANIRE FINANCIAL STATUS

- **Bank Account Balances is in a healthy state:**

- Investment Account: 21 August 2021 – R1 058 388.38 (Ave. interest of R3550 pm)
- Current Account: 21 August 2021 – R472 002.18

Month	Current Account	Variance	MPAS fee	Comments
June 2021	R493 745	R95 887.54	R43 455.69	Slope Stability income of R128 197.50 Global membership invoices
May 2021	R397 858	-R33 344	R41 466.41	Slope Stability Payment R33 500 (expecting a R100k income) Freevaal Branch meeting
April 2021	R431 202	R29 475	R45 222.06	Membership fees and Exam fees
March 2021	R401 727	R119 344	R43 353.14	SANIRE Free State (R84 000) SCO Practical Sertiti Coal (R27 704 to be refunded)
Feb 2021	R282 383	-R14 693	R45 402.05	MPAS admin fees
Jan 2021	R297 076	-R33 607	R47 419.73	MPAS admin fees



INCOME 2020 / 2021

Income Main Branch:	
Membership Fees 2020 / 2021	437 500.00
Strata Control Off Prac Exam Mar 2021	26 000.00
Rock Eng. Practical May 2021	15 000.00
Rock Engineering Practical Exam Nov 2020	21 000.00
SCO Practical Exam Nov 2020	22 000.00
Shortcrete Webinar 2020	5 000.00
SAIEG Slope Stability Seminar	33 500.00
SAIEG Shared Income Slope Stability	128 197.50
Newsletter Sales	4 000.00
Income Western Bushveld Branch	
Year-End Function	19 000.00
Western Bushveld Quat Meeting Sponsor	2 500.00
Income Eastern Bushveld Branch	
Eastern Bushveld Quat Meeting Sponsor	12 000.00
Income Freevaal Branch	
Branch Meeting Income / Sponsors	23 500.00
Other Income - Interest Received	74 862.94
Total Income	824 060.44

SANIRE INCOME SUMMARY	
SANIRE National Branch	797 060.44
Branches	57 000
Total Income	824 060.44



Operating Expenses:	
Audit Fees	18 400.00
Bonus to Branches	15 000.00
Branch Meeting	12 559.00
ISRM Annual Costs	77 882.29
Bank Charges	2 709.76
Payfast Fees	1 620.19
News Letter Expenses	2 600.00
Awards & Prizes	1 500.00
Consulting Fees - Constitution	2 969.75
Jerusalema Challenge	5 000.00
Council Gifts	8 406.50
Refunds Overpayments	390.00
Bosberaad Meeting Expenses	4 500.00
Bad Debts	9 650.00
Website Design / Expenses	26 041.75
AGM Expenses	
AGM Posters	8 390.40
Editing Costs	1 000.00
Cost Of Sales:	
MPAS Expenses	484 360.15
SAIEG Contribution	33 500.00
Main Acct. Event Costs:	
SCO Exam Costs Nov 2020	3 881.00
SCO Exam Costs Mar 2021	3 832.89
West Bushveld - Costs	
Year End Function	2 500.00
Free State District Expenses	
Meeting Expenses	17 541.00
Eastern District Cost:	
Year-End Function	6 194.00
Total Expenses	750 428.68

EXPENSE 2020 / 2021

SANIRE EXPENSE SUMMARY	
SANIRE National Branch	724 193.68
Branches	26 235
Total Income	750 428.68

**2020 / 2021
Net Surplus

R73 631.76**



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Membership Fees

Current Membership fees

- 14% more money earned than budgeted for -R437 000 were recovered in 2020 / 2021
 - 95% actual recovery vs 85% recovery budgeted
- SANIRE still remains the lowest membership fee for a professional association in RSA and have not increased its membership fees in more than 2 years



Membership fees

Member type	Current Annual Fee	2021 / 2022 Annual Fee	Variance	
Honorary Life Fellow	FREE	FREE	FREE	
Student	FREE	FREE	FREE	
Retired Member	R260	R280	R20	7.1%
Correspondence Member	R880	R930	R50	5.4%
Associate Member	R650	R700	R50	7.1%
Member	R800	R850	R50	5.9%
Fellow	R920	R920	R0	0%

Percentage increase varies (4 – 7%) and amounts are rounded off





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Budget 2021 / 2022

Budget 2021 / 2022 - Expenses



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2021/22 Expenses	Budget		
Administration			
MPAS, admin costs	R	504 000.00	R42k per month
Third party audit	R	20 000.00	in 2022
Marketing (SANIRE Branded Gifts)	R	5 000.00	Branded gifts, including recognition for retired members
Branch FinReport incentives	R	-	(Discontinued)
Courier and handling fees	R	1 500.00	
Bank charges	R	4 500.00	
ISRM & SAIMM member fees	R	143 000.00	Based on 613 members at around €8 each (pay for 2019 and 2020)
Travel grant (ISRM Symp, Sal&Ortl awards)	R	-	Not planning to send award winners away due to COVID
Meetings and Functions			
- Bosberraad	R	30 000.00	in 2021
- Banquet	R	250 000.00	The banquet must be self-funded.Banquet requires upfront cash flow
- AGM	R	-	(Virtual)
- Council Meetings	R	20 000.00	(4 Face to face meetings planned)
- Golf Day Oct 2021	R	80 000.00	
- RockBowl 2022	R	20 000.00	
- Symposium 2022	R	50 000.00	(currently planned a R20k profit, although this has already profited +R70k in 2021)
- Education Workshop	R	10 000.00	
- Other Workshops	R	30 000.00	
Awards (Franklin, students)	R	40 000.00	
Practical Exams			SCO (R7 713) and RE (R0- Virtual) in FY2021
- SCO Practicals	R	40 000.00	
- RE Practicals	R	15 000.00	
Total	R	1 263 000.00	

Budget 2021 / 2022 - Income



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2021/22 Income		Budget	
Member fees (90% recovery)	R	407 969.10	Based on a 90% recovery of 613 members
Symposium 2022	R	30 000.00	
Banquet	R	250 000.00	The banquet must be self-funded. Income = expense.
Interest	R	30 000.00	

Rock Pillar W/shop 2020

SCO & RE exams

- SCO Prac Exam Oct 2021	R	21 000.00
- SCO Prac Exam Mar 2022	R	36 000.00
- RE Prac Exam Nov 2021	R	20 000.00
- RE Prac Exam Mar 2022	R	20 000.00
Donations (exhibitions etc.))	R	26 703.60
Golf day	R	80 000.00
RockTalk adverts	R	20 000.00
Other		
Merchandise & book sales	R	5 000.00
Total	R	946 672.70

Surplus/shortfall	-R	316 327.30
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3 Years Budgeted vs Actual Shortfall/ Surplus Analysis

Financial Year	Budget Income	Budget Expenses	Budget Shortfall/Surplus	Actual Income	Actual Expenses	Actual Shortfall/Surplus
2018/2019						
2019/2020	R 1 012 029.60	R 1 147 128.45	-R 135 098.85	R 1 596 266.25	R 826 352.50	R 769 913.75
2020/2021	R 783 584.60	R 1 109 128.85	-R 325 544.25	R 824 060.44	R 750 428.68	R 73 631.76
2021/2022	R 866 672.70	R 1 183 000.00	-R 316 327.30			

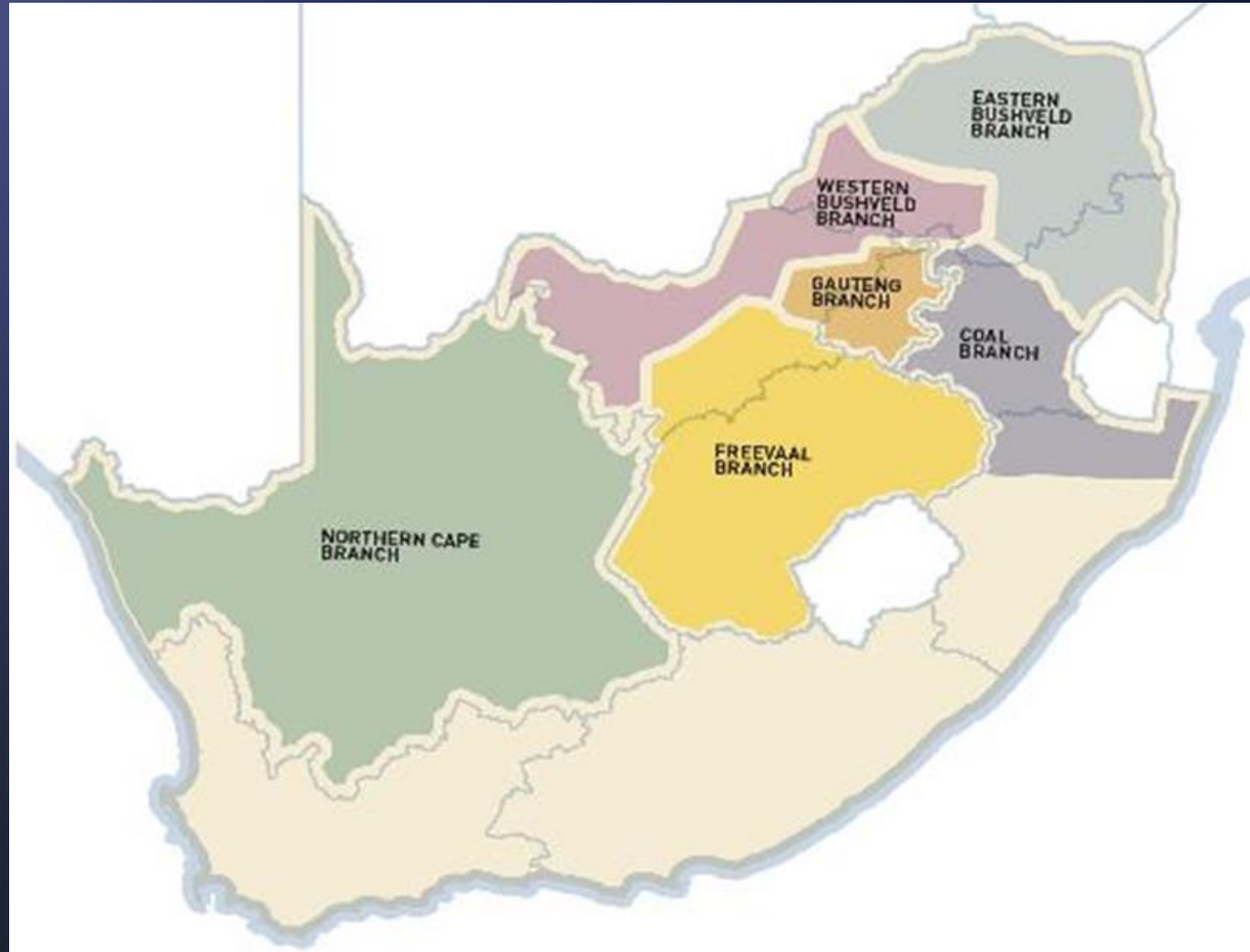




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BRANCHES



- Some Branches are currently inactive
- Attendance of RE personnel at branch meetings are generally unsatisfactory except for maybe year end functions – normally a big event or when committee elections takes place.
- Some branches managed to host a meeting before the Level 4 lockdown but other branches have had no meetings for more than a year.
- Some branches needs to elect new committees – Constitution prescribes that Council and branch elections not to take place in the same year:

12.4 (a) “The chairperson and vice chairperson must be corporate members and may hold office for not more than two consecutive terms and are elected by and from members of the branch at a meeting of the committee held before the annual general meeting of SANIRE in those years in which there is not a SANIRE council election.



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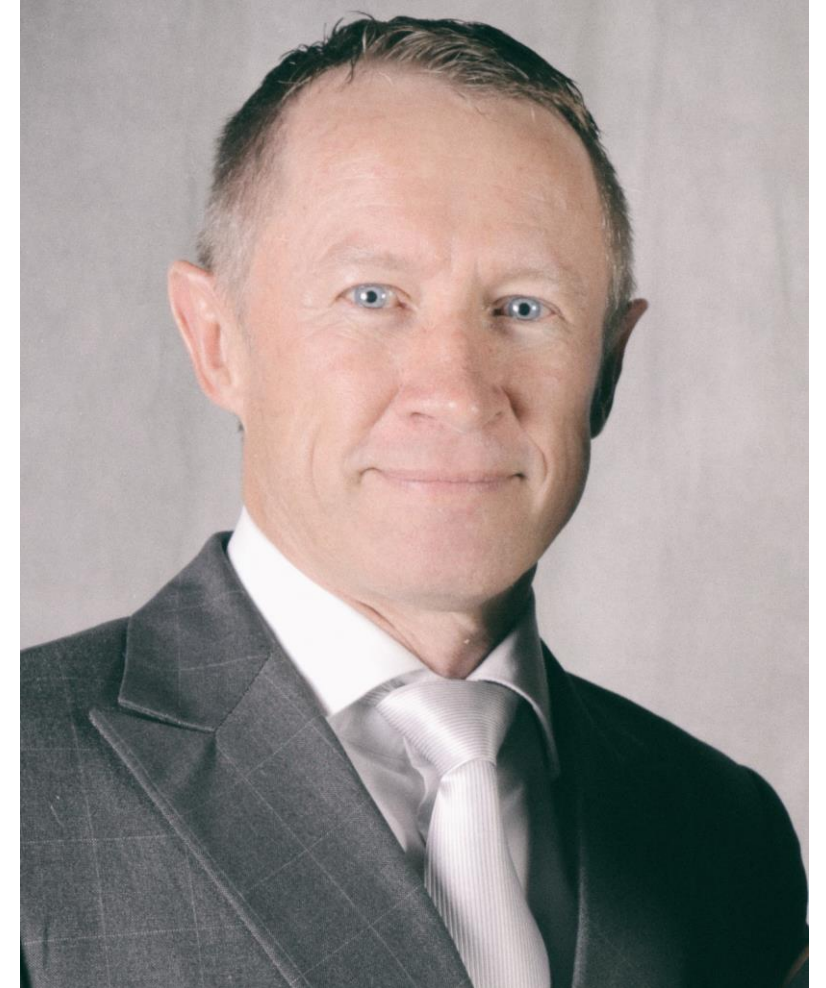


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EASTERN BUSHVELD



Petrie Wessels



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Eastern Bushveld

Position	Name	Email address
Chairperson	Petrie Wessels	petrie.wessels@trp.co.za
Vice Chairperson	Gunther Betz	gunter.betz@norplats.co.za
Treasurer	Vacant- Relocated	
Administrator	Easavani Wessels	easavani.wessels@trp.co.za
Youth Development Representative	Senzo Ngwenya	senzonzon@dwarsrivier.co.za
Suppliers Representative	Chris Brink	chris@mjmining.co.za

SANIRE EASTERN BRANCH

Branch Meetings	Date
	12 March 2021 ☒
	04 June 2021 ☒
	20 August 2021 ☒
	12 November 2021
SCO Practical Examinations	Date
	19 March 2021 ☒
	03 September 2021



SANIRE EASTERN BRANCH

<u>INCOME VARIOUS SOURCES</u>	<u>AMOUNT</u>	<u>EXPENSES VARIOUS</u>	<u>AMOUNT</u>
AMOUNT B/F BANK BALANCE	98 893.18	YEAR-END FUNC LYDENBURG GOLF CLUB	6 194.00
SPONSORS / DONATIONS	900.00		
YEAR-END FUNCTION	12 000.00		
TOTALS	111 793.18		6 194.00
YEAR-END BALANCE 2020 / 2021		105 599.18	





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COALFIELDS



Rofhiwa Phadagi



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Coal Branch

<u>INCOME VARIOUS SOURCES</u>	<u>AMOUNT</u>	<u>EXPENSES VARIOUS</u>	<u>AMOUNT</u>
AMOUNT B/F BANK BALANCE	33 099.20	BANK CHARGES 2021	1 759.00
SPONSORSHIPS	-	YEAR END FUNCTION COSTS	-
RAFFLES	-		
TOTALS	33 099.20		1 759.00
YEAR-END BALANCE 2020 / 2021			31 340.20



SANIRE COAL BRANCH

GENERAL:

- Committee Structure – Unchanged.
- Financials – **R31 019,70** (current balance).
- Strata Control Practical exams held in April / May 2021.

PLANNING:

- Migration of branch funds to Sanire National account.
 - Finance procedure need to be clear that; ***The administrator and or National Treasury does not have authority to reject any payment which has been approved by the Branch following the procedure***
- Possible changes to Branch Committee portfolio in the next committee meeting.



SANIRE BRANCHES

SANIRE COAL BRANCH

EVENTS & EDUCATION:

- 2 Branch committee meeting held.
- Strata Control Practical exams held in April / May 2021.

PLANNING:

- Online Branch meeting – 20 August 2021
- Second Strata Control Practical Exams – October 2021
 - Continue alternating between Underground and Opencast.
 - Finalise Logbook review.
- Possible year-end function – November 2021 (Online / Onsite??)



Northern Cape



Anton Gregory



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Northern Cape Branch

<u>INCOME VARIOUS SOURCES</u>	<u>AMOUNT</u>	<u>EXPENSES VARIOUS</u>	<u>AMOUNT</u>
AMOUNT B/F BANK BALANCE	8 000.00	COSTS	-
SPONSOR	-		
TOTALS	8 000.00		-
YEAR-END BALANCE 2020 2021			8 000.00



WESTERN BUSHVELD



Willie Liebenberg



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Western Bushveld Branch

<u>INCOME VARIOUS SOURCES</u>	<u>AMOUNT</u>	<u>EXPENSES VARIOUS</u>	<u>AMOUNT</u>
AMOUNT B/F BANK BALANCE	61 126.48	YEAR-END FUNCTION	
SPONSORS / DONATIONS YEAR END FUNC	19 000.00	LYDENBURG GOLF CLUB 2020	2 500.00
JACKETS SOLD	-	CATERING & REFRESH	
INTEREST RECEIVED	-	GIFTS	
DEPOSIT TO MAIN BRANCH DEC 2020 - R 60 000.00	-	JUMPING CASTLE	
		MEETING EXPS:	
		RENTAL VENUE	
		CATERING & REFRESH	
		REFUND PRIZES	
		GENERAL:	
		REFUNDS JACKETS	
		BANK CHARGES	1 126.48
		FOOD PRAC EXAMS	
		SCO EXAMS	1 941.00
TOTALS	80 126.48		5 567.48
YEAR-END BALANCE 2020 / 2021		74 559.00	BAL B/F



FREEVAAL



Jaco le Roux



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SANIRE BRANCHES

SANIRE FREEVAAL BRANCH

Position	Member
Chairman	Jaco le Roux
Vice Chairperson	Jerry Wienand
Treasurer	Russel Page
Young Members	Tumi Moyake
Additional Member	Enos Makhubu
Company Representative FS	Paul vd Berg
Company Representative NW	Abner Mashabela



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SANIRE FREEVAAL BRANCH

On the 21 April 2021 the calendar for the SANIRE Freevaal Branch for the year 2021 were discussed. The following dates were proposed:

- 20 May 2021 – Freevaal branch meeting – Parys
- 22 July 2021 – Freevaal Mini Symposium – Welkom (Canceled due to COVID - L4)
- 23 September 2021– Freevaal branch meeting
- 19 November 2021 – Freevaal year end function – to be confirmed



FreeVaal Branch

<u>INCOME VARIOUS SOURCES</u>		<u>AMOUNT</u>	<u>EXPENSES VARIOUS</u>		<u>AMOUNT</u>
PETTY CASH FREE VAAL					
AMOUNT B/F BANK BALANCE		959.48	MEETING COSTS		-
STOCK ITEMS SOLD					
RAFFLES SOLD					
PETTY CASH TOTALS		959.48			-
NET AMOUNT			959.48		
CURRENT ACCT FREEVAAL					
BAL B/F		81 515.21	CATERING / REFRESHMENTS		-
SPONSORSHIPS		-	BANK FEES & INTERNET COSTS		-
DEPOSIT TO MAIN ACCT MAR 2021 R 84 002.71					
CURRENT ACCT TOTALS		84 002.71			-
NET AMOUNT			84 002.71		
CURRENT ACCOUNT					
BRANCH MEETING INCOME		23 500.00	MEETING EXPS		17 541.00
QUQTERLY MEETING SPONSOR		2 500.00			
YEAR-END BALANCE 2020 / 2021		110 002.71	92 461.71		17 541.00
INCOME			PROFIT		EXPENSE

GAUTENG



Craig Smith



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SANIRE GAUTENG BRANCH

Position	Portfolio	Current Committee
Chairperson	Council leadership and representative to national branch	Craig Smith (Groundwork)
Vice chairperson	Supporting chairperson. Future branch chairperson.	Ross van Heerden (Brentley, Lucas and Associates) – Acting in interim
Treasurer	Branch financials	Craig Smith (Groundwork) – Acting in interim
Secretary	Branch membership and contact details, council meeting minutes, event flyers, maintaining social media presence and author of RockTalk articles	Katinka Joubert (Groundwork)
Technical events coordinator	Coordinating technical event logistics and arrangements	Adelaide Moganedi (SRK)
Technical events administrator	Assisting event coordinator with technical event administration	Ross van Heerden (Brentley, Lucas and Associates)
Supplier representative	Representing suppliers of the branch and arranging supplier sponsorships for events	Vernon Baptista (M&J Mining)
Education and exams administrator	Organising and arranging the hosting of SCO practical exams and university students representative	Vacant
Supporting Role		Jeanne Walls (Jewel) Tafadzwa Chindedza (SRK)



SANIRE GAUTENG BRANCH

1. New way of technical evenings and technical events

- *We are in the process of arranging the necessary technology to be able to host all future technical evenings and technical events online – in line with the developments following the Covid-19 pandemic.*
- *All future technical evenings and technical events will ensure that the necessary and relevant Covid-19 requirements and precautions are in place and strictly adhered to. (e.g. social distancing, hand sanitizing, wearing of masks, reduce venue capacity, etc.)*

2. More exposure and interaction with younger members starting out in the industry and students at Universities in the region:

- *Young Engineers competition – prizes for winning abstracts and opportunity to present at technical evenings*



SANIRE GAUTENG BRANCH

- Nominations for new SANIRE Gauteng branch committee members were held at last technical evening on 20 February 2020.
- Voting for new SANIRE Gauteng branch committee members will take place at next technical evening – Date to be confirmed.
- The current branch chairman (Craig Smith) will be in contact with the SANIRE national branch (Raymond van der Berg and Lizelle Prinsloo) prior to the next technical evening, when voting will take place, to ensure that all the necessary SANIRE guidelines and procedures are followed correctly.



Gauteng Branch

<u>GAUTENG DISTRICT</u>		ACCT NO'S 3002/000 & 3003/000	
<u>INCOME VARIOUS SOURCES</u>	<u>AMOUNT</u>	<u>EXPENSES VARIOUS</u>	<u>AMOUNT</u>
AMOUNT B/F BANK BALANCE	11 739.86	FUNCTION EXPS:	
SPONSORS / DONATIONS		VENUE HIRE	
INCOME FUNCTIONS		CATERING & REFRESH	
REFUNDS RECEIVED		GIFTS	
		GENERAL:	
		POSTAGE	
		BANK CHARGES	
TOTALS	37 671.81		-
YEAR-END BALANCE 2020 / 2021			11 739.86



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**THIS IS THE HALF
WAY MARK**

***AND THE PRESIDENT
NEEDS A BREAK....***



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EDUCATION

Education Portfolio



Portfolio:
Education,
Minerals
Council exams
and exams
committee



Portfolio:
SCO
Practicals



Portfolio:
Rock Eng
Practicals



Portfolio:
Future
Education,
MRAC



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Summary of Examination Results May 2021



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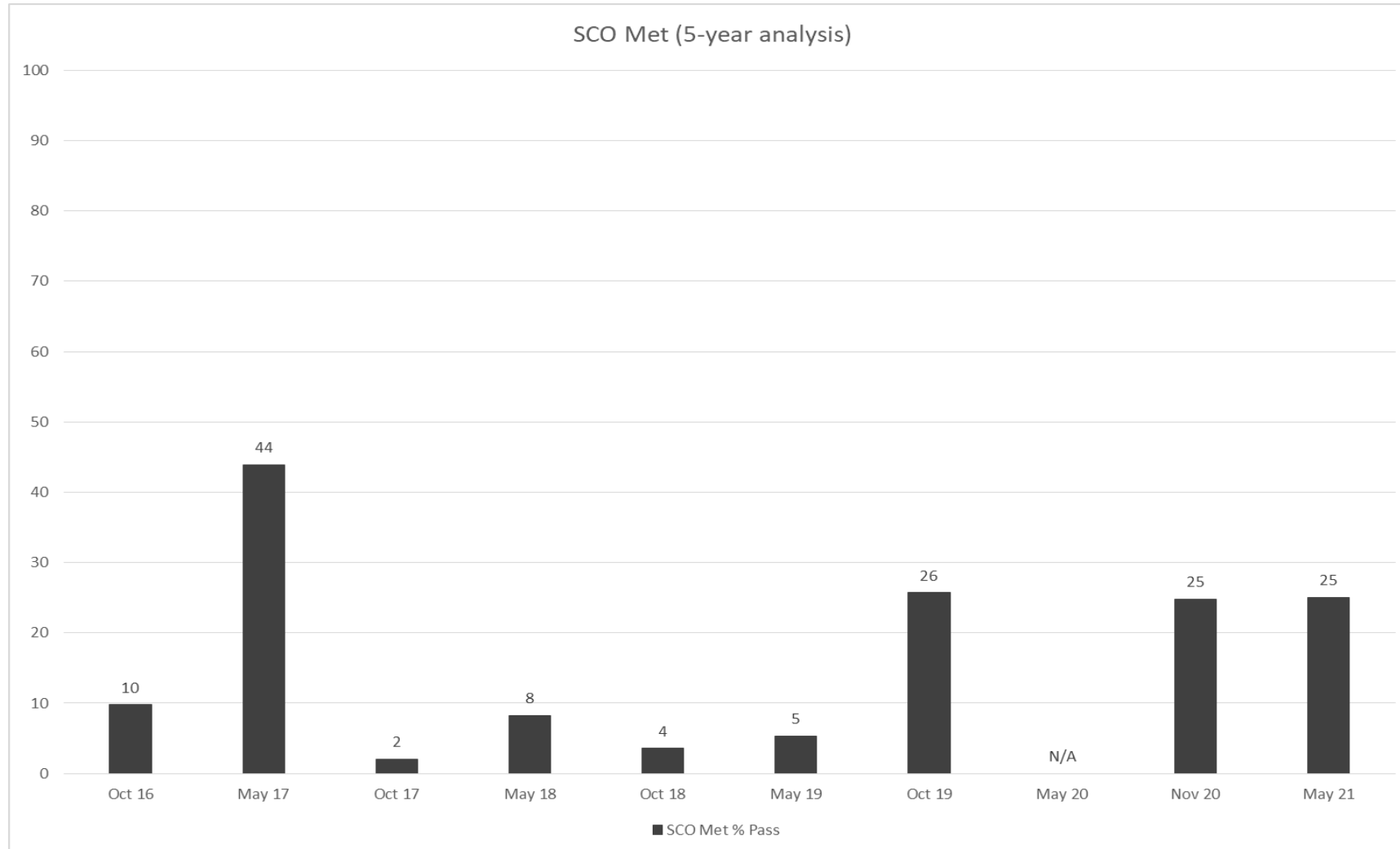
May 2021

Papers	No of candidates (Wrote)	No of candidates (Passed)	% Pass
SCO Met	84	21	25
SCO Coal	10	4	40
RMC P1	68	8	12
RMC P2	59	16	27
RMC P3.1 (Hardrock)	62	11	18
RMC P3.2 (Coal)	10	0	0
RMC P3.3 (Massive)	13	1	8
RMC P3.4 (Surface)	8	1	13

Summary of Examination Results May 2021



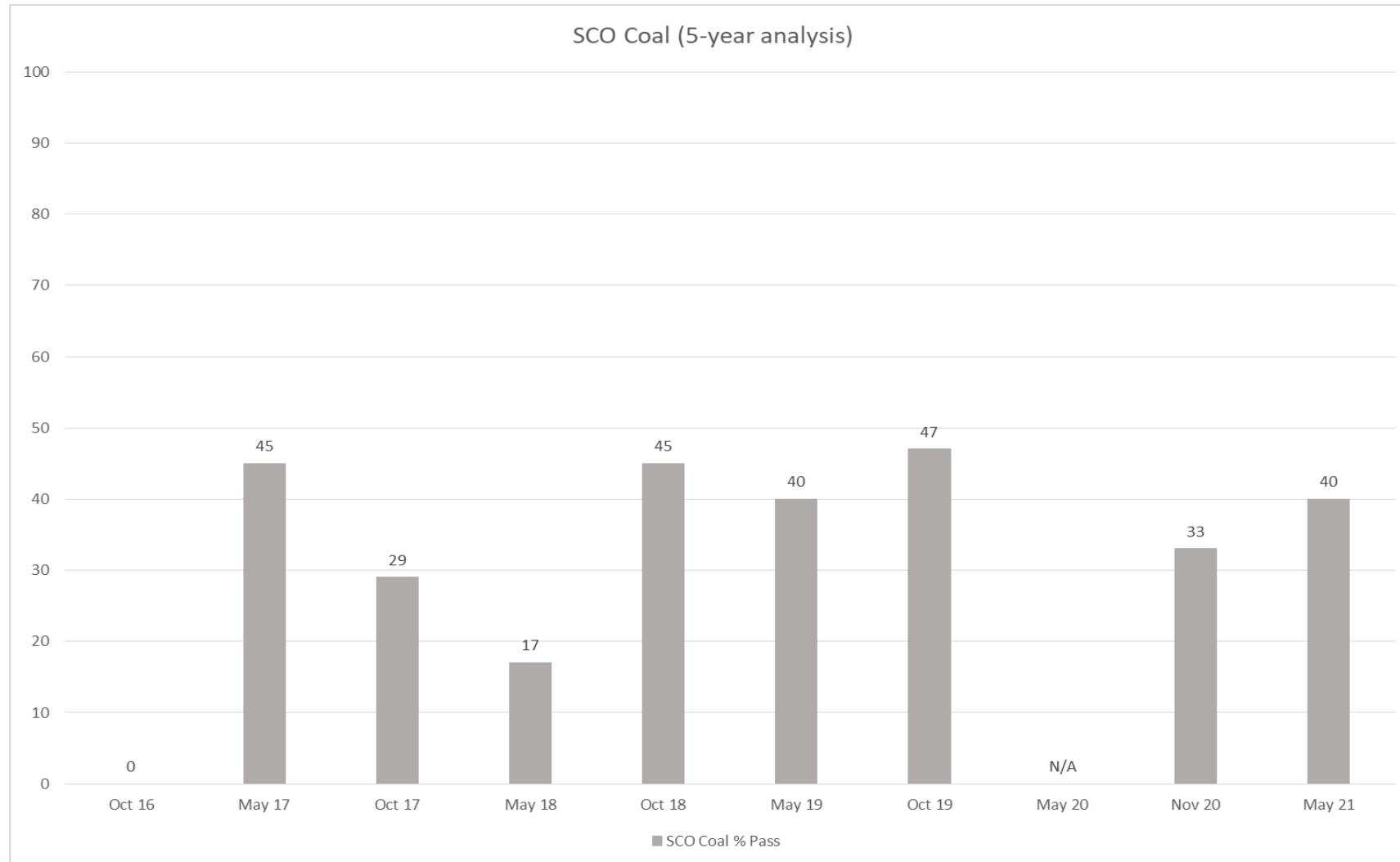
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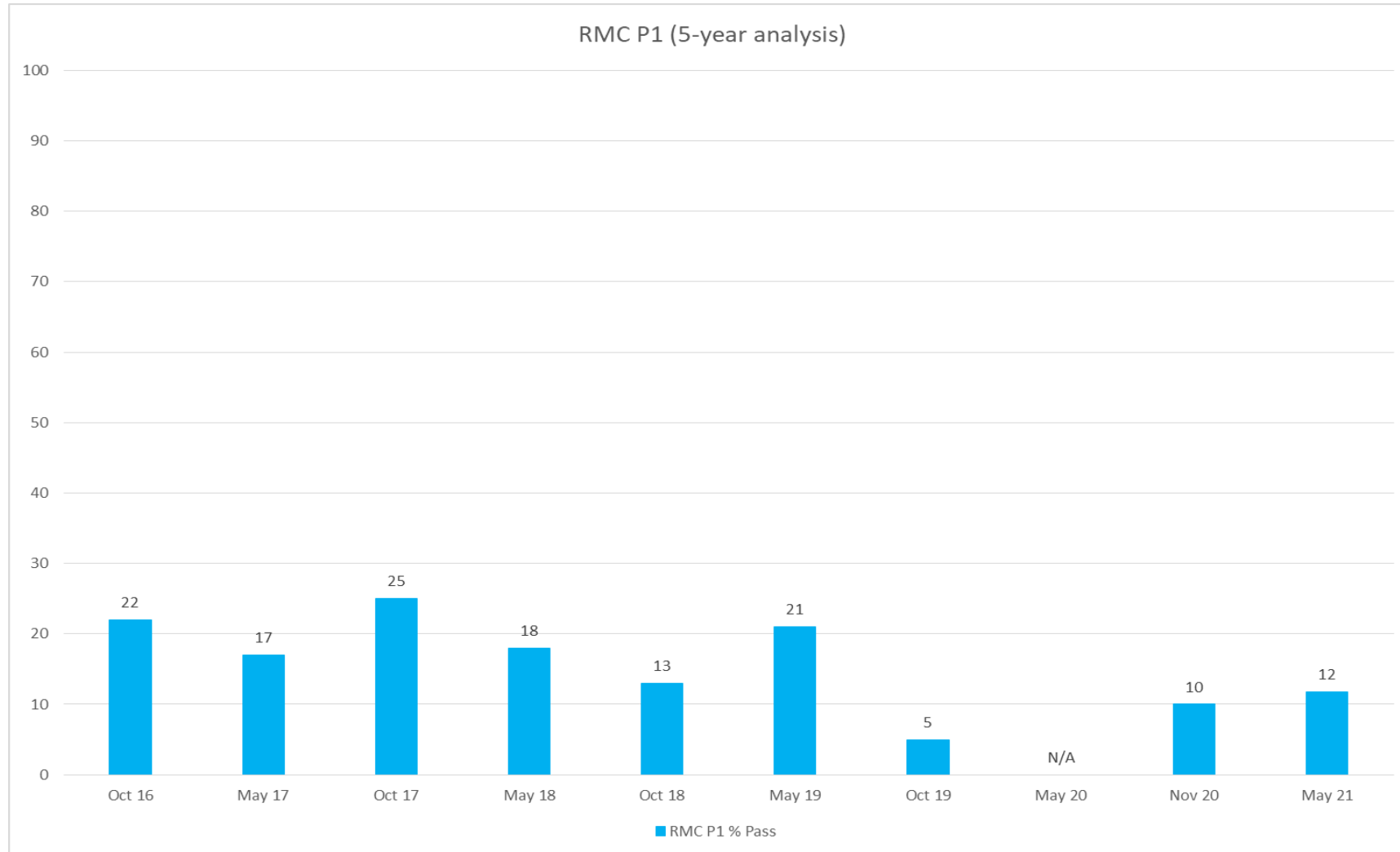
Summary of Examination Results May 2021



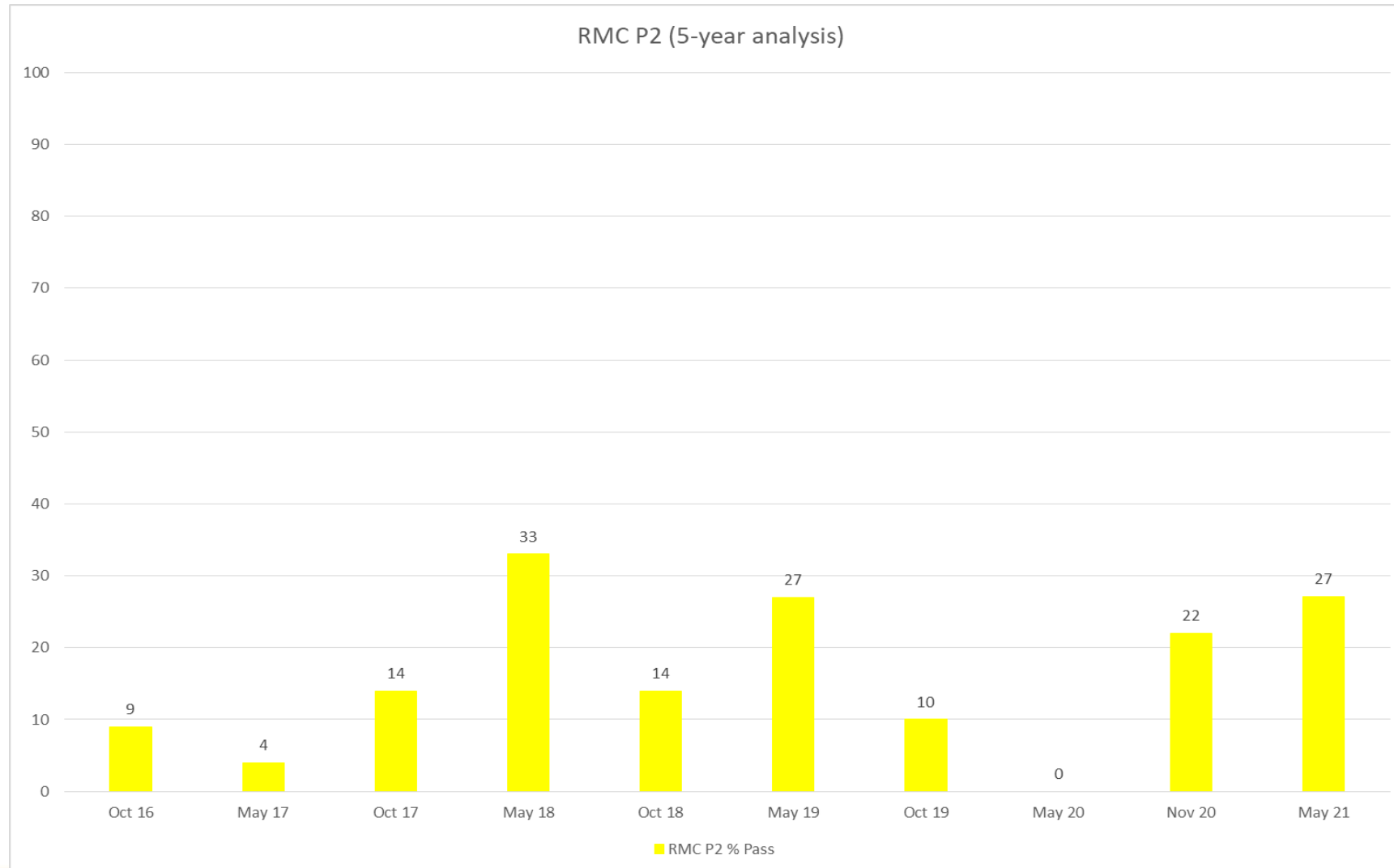
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Summary of Examination Results May 2021



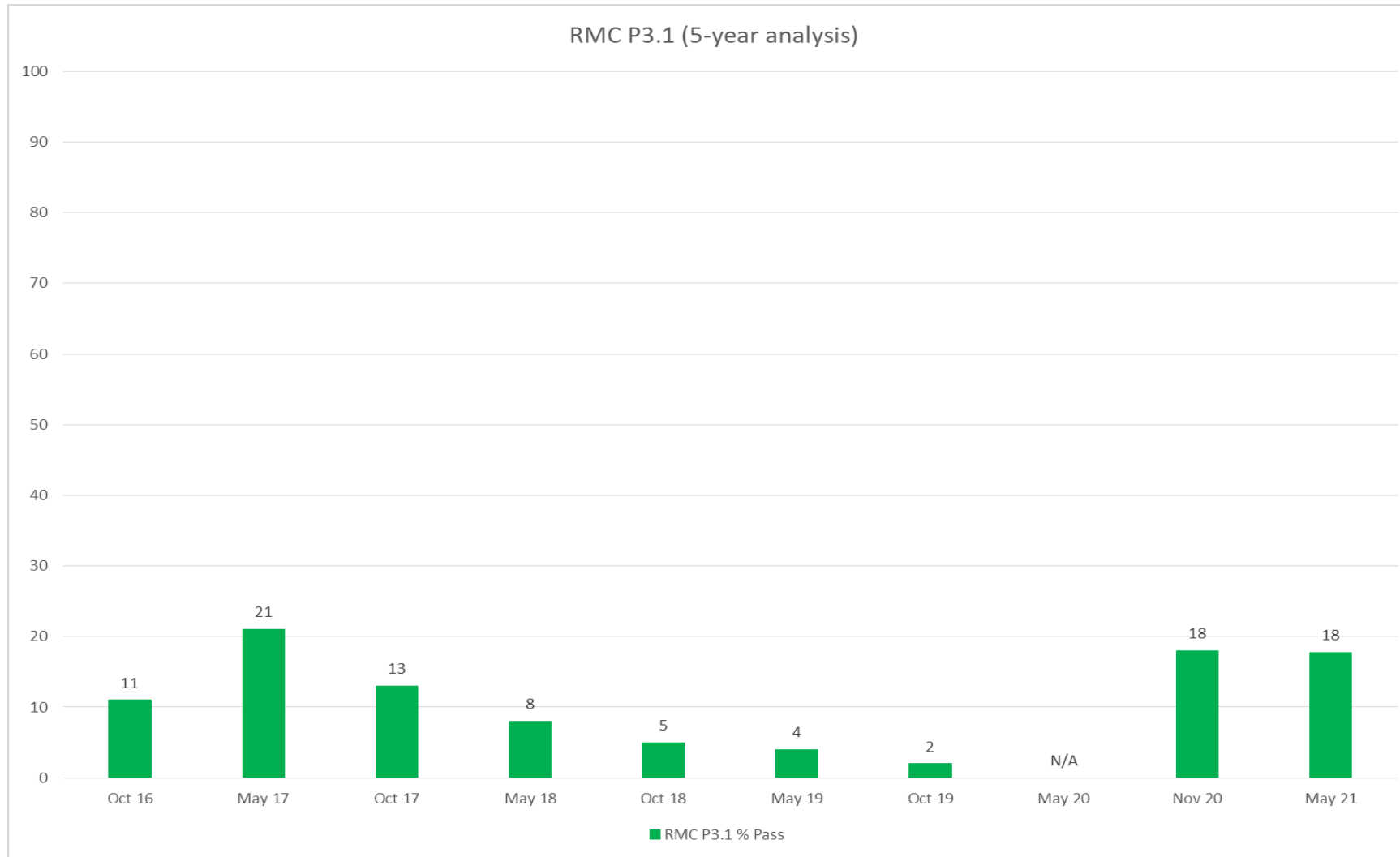
Summary of Examination Results May 2021



Summary of Examination Results May 2021



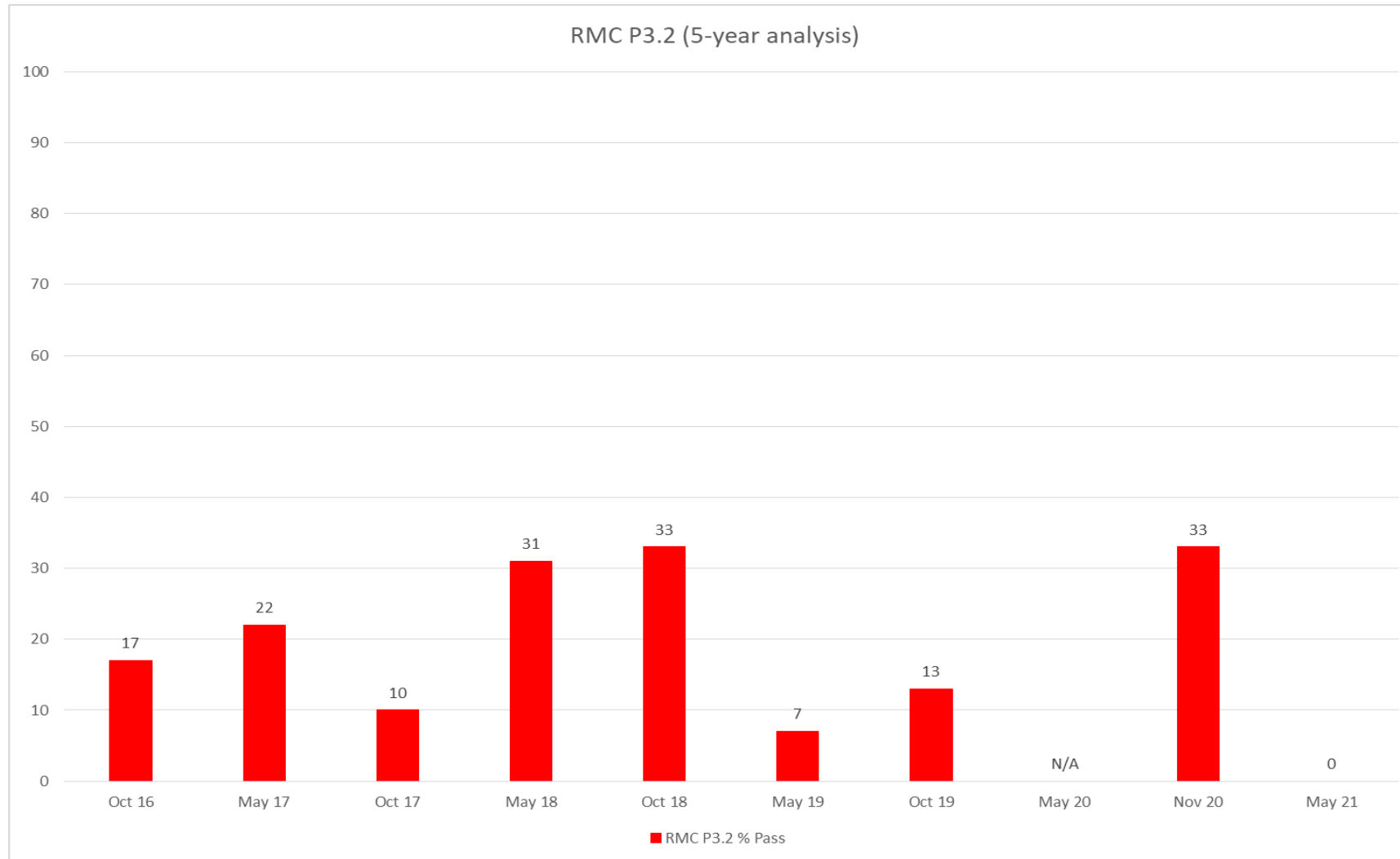
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Summary of Examination Results May 2021



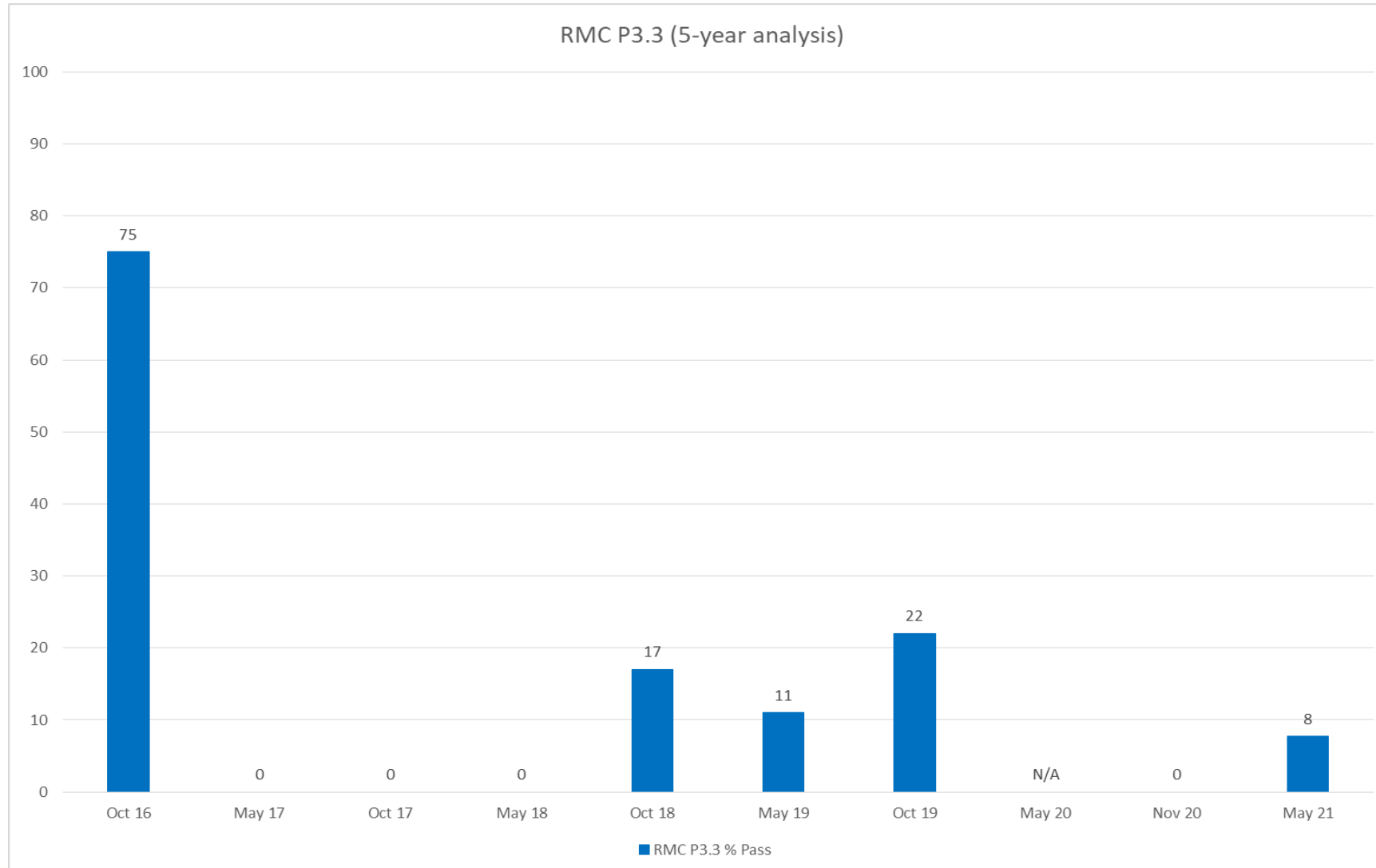
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Summary of Examination Results May 2021



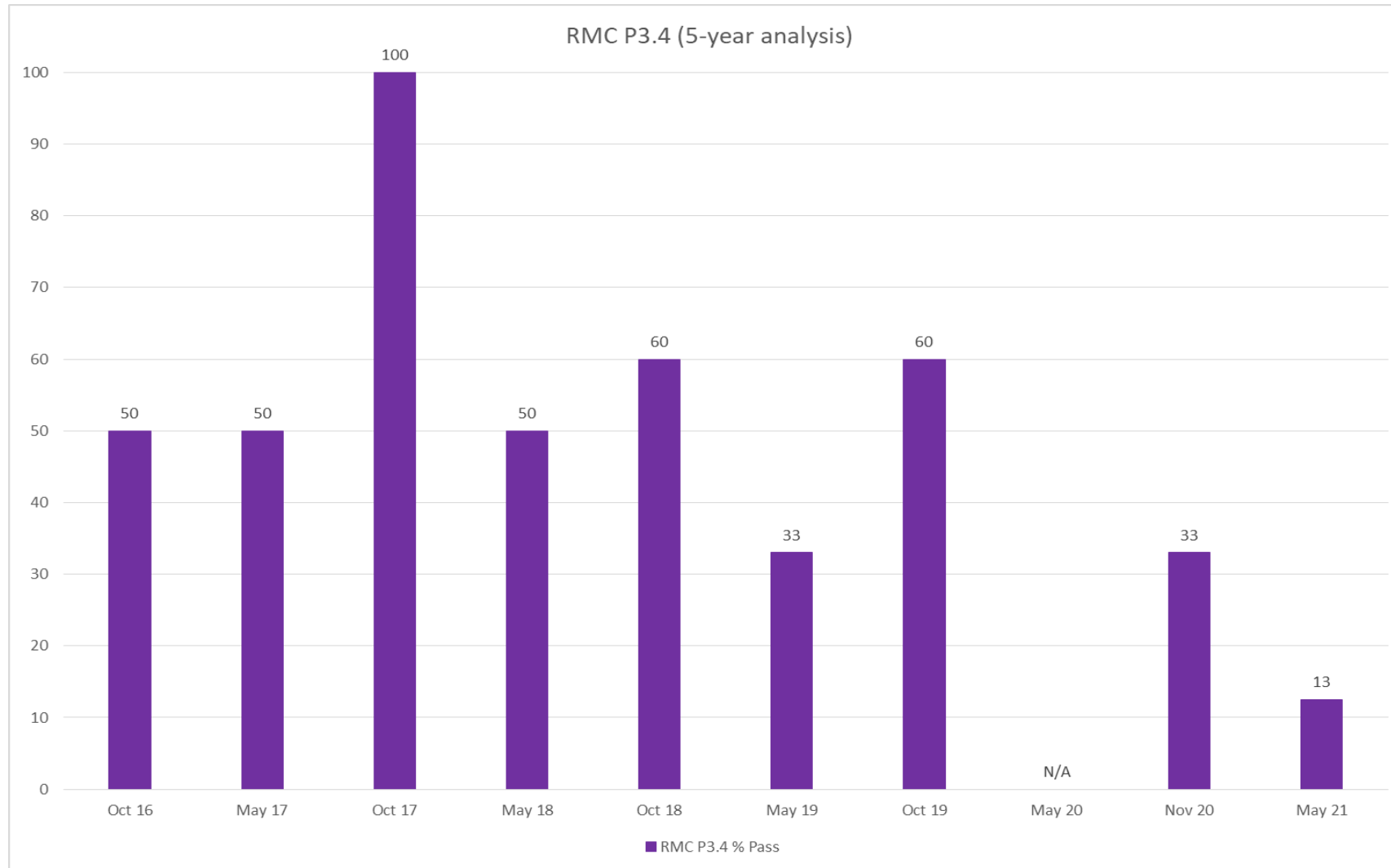
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Summary of Examination Results May 2021



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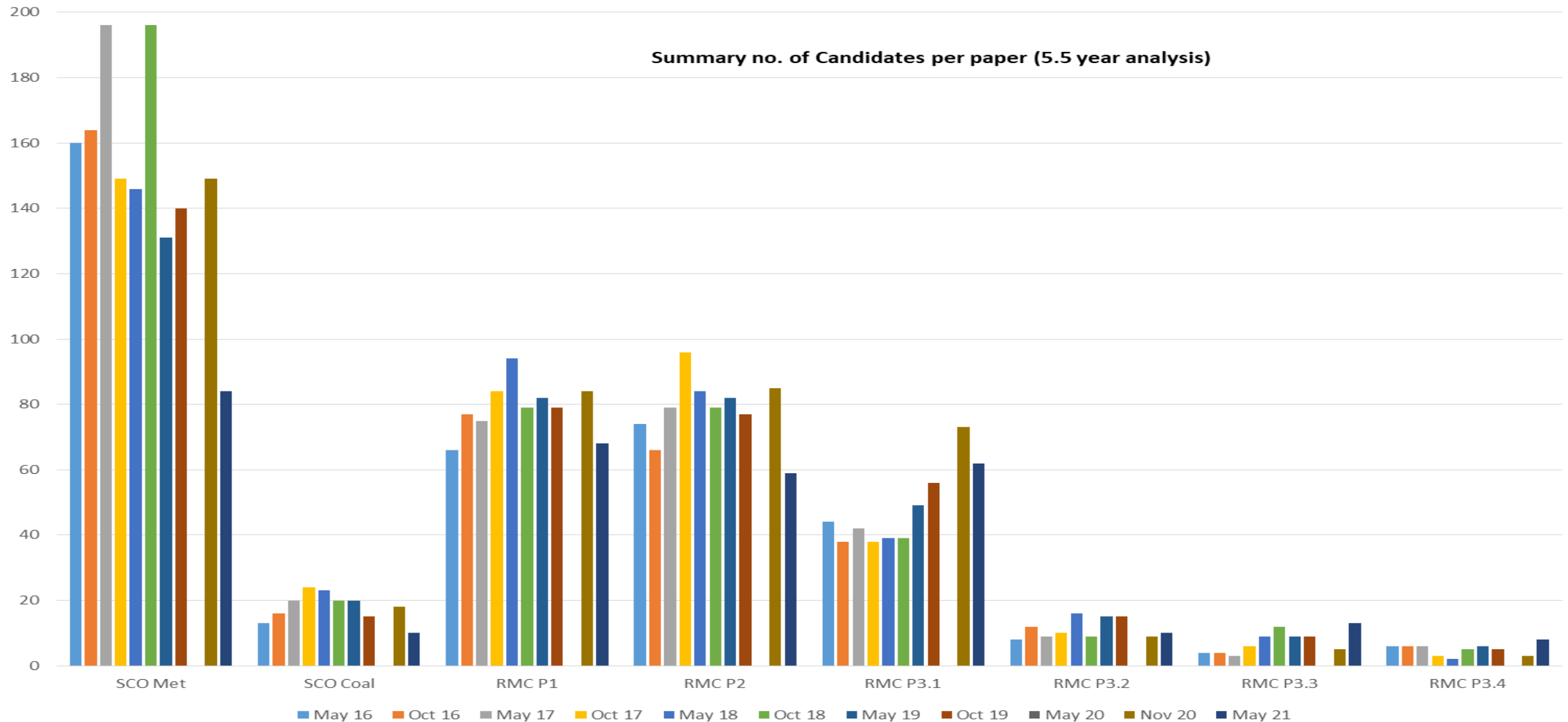


Summary of Examination Results May 2021

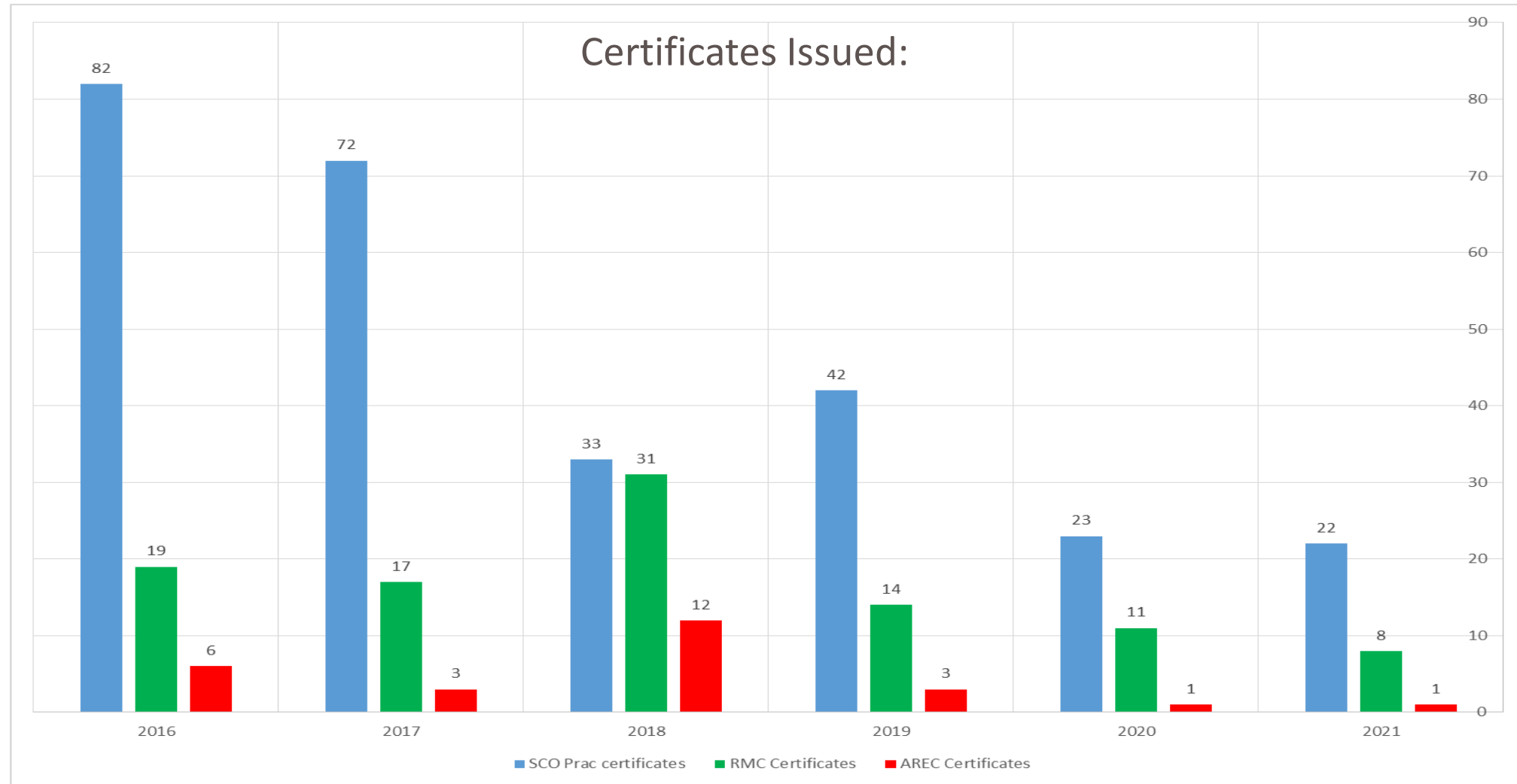


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Summary no. of Candidates per paper (5.5 year analysis)



Summary of Examination Results May 2021



General Feedback from Examinations Committee Meeting

- Registration process requires reviewing due to a number of poor students entering the system and not being prepared for the examinations – candidate with 4% for SCO Met and 5% SCO Coal. **Appeal from Council to Rock Engineers signing off on candidates to ensure that candidates meet the requirements and mentor candidates appropriately**
- Lack of exam technique:
 - Students do not read the questions
 - Calculation difficulty
 - Time management
- Repetition of past paper questions must be avoided
- Exam related issues were taken into consideration resulting in no impact to marks
 - Issue with fallout height;
 - Lack of graph paper & stereonet

October Examination Dates



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Examination	Date of Examination
Strata Control Coal	5 th October 2021
Strata Control Met	5 th October 2021
RMC Paper 1	5 th October 2021
RMC Paper 2	6 th October 2021
RMC Paper 3.1	7 th October 2021
RMC Paper 3.2	7 th October 2021
RMC Paper 3.3	7 th October 2021
RMC Paper 3.4	7 th October 2021

October Examinations Registrations



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- Applications done through the Minerals Council (www.comcert.co.za)
- Contact persons: Theo Mehana (tmehana@mineralscouncil.org.za) and Mbali Mathenjwa (mmathenjwa@mineralscouncil.org.za)
- Contact number: +27 11 498 7731
- Registration Closing Date 31st August 2021



October Examinations Registrations

3.3 Registration

- Registration fees for 2021 will be set at R1000 per examination paper
- Remarking of scripts 55% to 59% with a cost of R500
- Please note that a candidate can postpone an examination for two (2) consecutive examination periods only without having to pay for the examination again. Thereafter, he/she WILL forfeit their examination fee and will have to pay again
- Registration, payment and the sending of your proof of payment to the Minerals Council South Africa, must be done before the closing date
- Learners/Students that register late and/or make payments after the closing dates will not be allowed to sit the examination
- Future: automated registration system on updated website to acknowledge application (2022 examinations) – done in-house within the Minerals Council to avoid cost implications. Then formal confirmation will be done once all documentation and proof of payment is received (within a few days from receipt).

October Examinations Registrations



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Permission Slip:



Rock Engineering Permission Slip

Candidates wishing to register for Rock Engineering examinations (Strata Control/Rock Mechanics) must forward the following permission together with their proof of payment. No candidates will be allowed to write without this permission. ALL candidates MUST be working in the Rock Mechanics Department.

A minimum requirement of 6 months in the Rock Mechanics Department is required to register for the Strata Control Examination.

Name of Applicant: _____

Signature of Applicant: _____

Approved by Rock Engineering Practitioner: Name: _____

Cert. No. _____

Signature: _____

Date: _____

Examiners and Moderators

Exam	May 2021		October 2021		Comments
	Examiner	Moderator	Examiner	Moderator	
SCO met	JC van Zyl	Johann Esterhuizen	JC van Zyl	Lucas van Aswegen	
SCO coal	Charl Skinner	Graham Priest	Charl Skinner	Graham Priest	Cassius Selai moderator in May 2022
P1	Halil Yilmaz	Gerrit Kotze	Halil Yilmaz	Gerrit Kotze	
P2	Marius Stander	Kevin Brentley	Marius Stander	Kevin Brentley	
P3.1	Kevin Le Bron	Sampie van Buuren	Kevin Le Bron	Sampie van Buuren	
P3.2	Wikus Mahne	Lelanie Prinsloo	Nduduzo Khathi	Mandla Mazibuko	
P3.3	JP Gouvea	Quintin Grix	George Louw	David Bailey	
P3.4	Anton Gregory	Peter Terbrugge	Anton Gregory	Peter Terbrugge	



Exam Committee Governance Document

- Currently version from 2007 (Good document but requires review / update)
- Update required:
 - Education portfolio – split due to workload. Practical examination co-ordinator (PEC) – previously Andre RMC PEC and Adam SCO PEC + Minerals Council Exams / Chair of Exams Committee. Now Kevin PEC for RMC and Rofhiwa PEC for SCO to which the respective examiners need to report to and not the Chair. PEC's to provide info to Minerals Council Portfolio Holder for certification purposes.
 - Need to ensure alignment with RMC and SCO practical guidelines – structure of exams have changed over time (SCO – written report & RMC surface planning and portfolio)
 - Administration responsibilities – each portfolio holder, minerals council & MPAS
 - “Any available previous examination papers and model answers from the administrators at a price determined by the administration body” → model answers no longer shared and past exams to be placed on SANIRE Website
- To follow up on: “Each practitioner will carry only one RMC. That certificate will reflect all the types of mining qualified for and it will be re-issued if an additional mining type is added. The new certificate will be exchanged for the previous one.” – there are candidates with more than 1 certificate and not a combined / re-issued certificate.



Education Workshop Day

Purpose: Review the current practical examination in areas such as guideline, scoring matrix and expectation from examiners and candidates

Why: Various concerns from members and candidates regarding the practicals.

When: 19 October 2021

Where: TBC





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Education

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

Elimination of FOG Fatalities Action Plan



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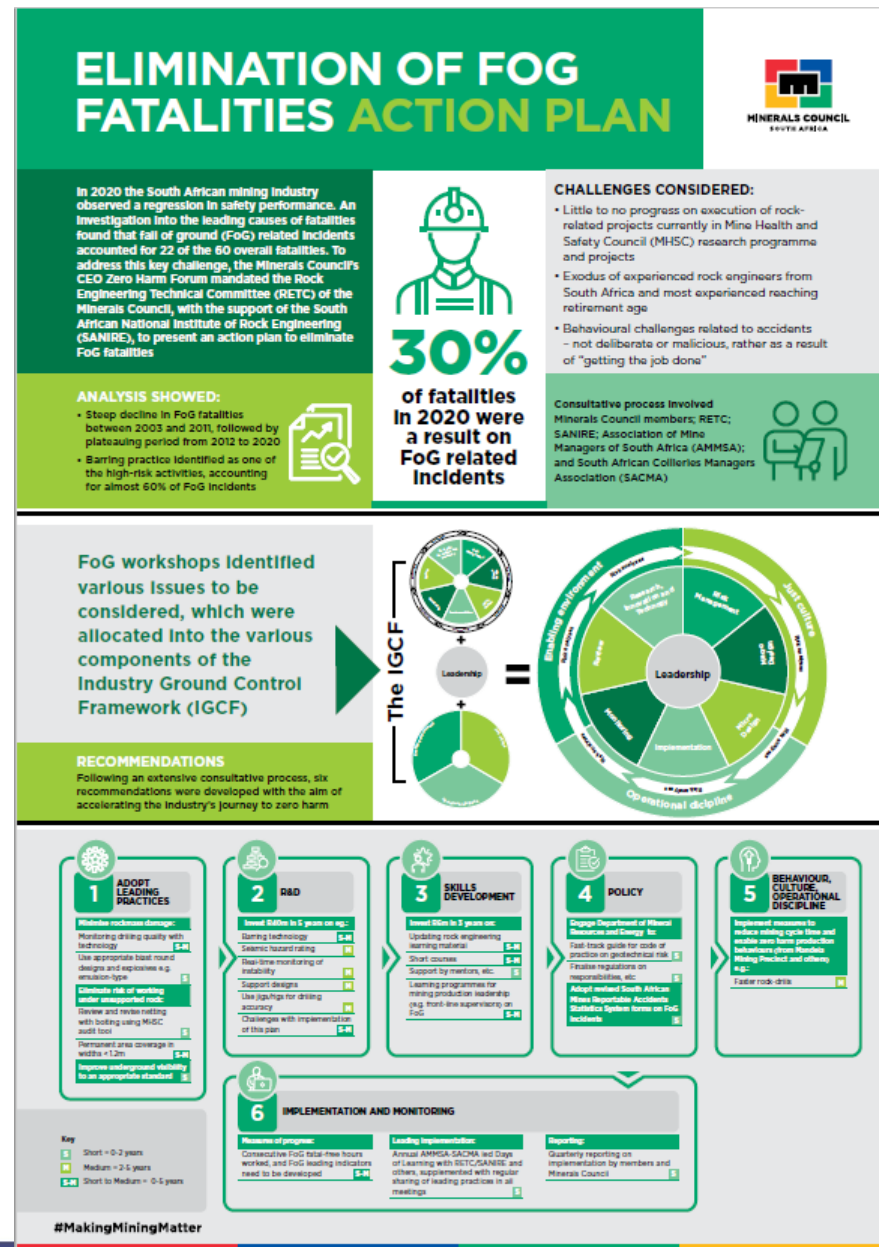


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- CEO Zero Harm update
 - Presentation was made on 2nd July to the CEO Zero harm forum in collaboration with AMMSA, SACMA and RETC
 - The document was approved by the CEO Forum
 - Comments from SANIRE Council was sent forward.



FOG Action Plan



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FOG Action Plan



1

ADOPT LEADING PRACTICES

Minimise rockmass damage:

Monitoring drilling quality with technology **S-M**

Use appropriate blast round designs and explosives e.g. emulsion-type **S**

Eliminate risk of working under unsupported rock:

Review and revise netting with bolting using MHSC audit tool **S**

Permanent area coverage in widths < 1.2m **S-M**

Improve underground visibility to an appropriate standard **S**



2

R&D

Invest R40m in 5 years on eg.:

Barring technology **S-M**

Seismic hazard rating **M**

Real-time monitoring of instability **M**

Support designs **M**

Use jigs/rigs for drilling accuracy **M**

Challenges with implementation of this plan **S-M**



3

SKILLS DEVELOPMENT

Invest R6m in 3 years on:

Updating rock engineering learning material **S-M**

Short courses **S-M**

Support by mentors, etc. **S**

Learning programmes for mining production leadership (e.g. front-line supervisors) on FoG **S-M**



4

POLICY

Engage Department of Mineral Resources and Energy to:

Fast-track guide for code of practice on geotechnical risk **S**

Finalise regulations on responsibilities, etc **S**

Adopt revised South African Mines Reportable Accidents Statistics System forms on FoG Incidents **S**



5

BEHAVIOUR, CULTURE, OPERATIONAL DISCIPLINE

Implement measures to reduce mining cycle time and enable zero harm production behaviours (from Mandela Mining Precinct and others) e.g.:

Faster rock-drills **M**



6

IMPLEMENTATION AND MONITORING

Measures of progress:

Consecutive FoG fatal-free hours worked, and FoG leading indicators need to be developed **S-M**

Leading Implementation:

Annual AMMSA-SACMA led Days of Learning with RETC/SANIRE and others, supplemented with regular sharing of leading practices in all meetings **S**

Reporting:

Quarterly reporting on implementation by members and Minerals Council **S**

Key

S Short = 0-2 years

M Medium = 2-5 years

S-M Short to Medium = 0-5 years

#MakingMiningMatter



- SANIRE will assist with evaluating the Skills Development:
 - Steering Committee will have its first sitting on 15 September to draft the scope of what to change in the rock engineering learning material / syllabus
 - What short courses to present?
 - Need for mentorship training and coaching



ISRM





Dr. M du Plessis is the ISRM representative and Vice-President for Africa (in the middle of this 4 year term)

- Current active National Groups in Africa: South Africa, Zambia, Tunisia

Intent: Grow ISRM membership and footprint in Africa

- Other focus areas identified by ISRM (Zambia, Namibia, Ghana, Morocco, Mali, Tanzania, Nigeria, Egypt, DRC)
 - Strategy: SANIRE (South Africa) to assist with the development of “SADC” branches (e.g. DRC, Zambia...) during the infancy stages, to grow the African group.
 - SANIRE has included a membership category to facilitate the process.
 - SANIRE will grow the ISRM membership in Africa Countries through local network
 - Tunisia will target North Africa countries to grow their membership and ISRM participation

New ISRM president election for 2023-2027 in planning (Finalise during November council meeting)

- Candidates
 1. AnnaMaria Ferrero (Italy)
 2. Seokwon Jeon (Korea)
 3. Jian Zhao (Australia)





FOCUS AREAS

- Nomination for **Best Performing National Group Award**. Awarded every 2 years (SANIRE meets all the criteria) → Target 2023
- Participate in **young members committee** (Michael and Paul) to assist in developing social networking platform (ISRM Youtube channel) *New*
- Participate in active research commissions (<https://isrm.net>)
 - Active areas (Deep mining, Design methodology, Rock burst, Rock dynamics, Rock grouting, Testing methods, Education)

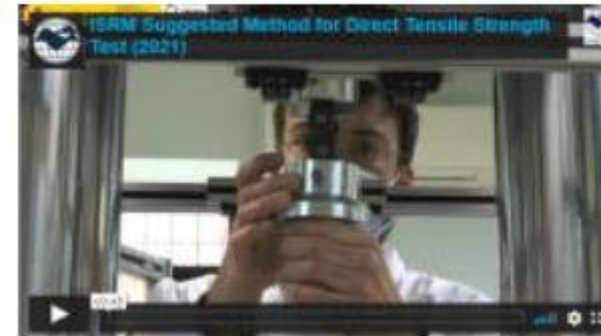
AWARDS

- **Muller award**: Distinguished contributions to the profession (e.g. Prof. Stacey / vd Merwe)
- **Rocha**: Best international PhD submission before 31 December for 2023 award consideration
- **Young Rock Engineer**: *New (yearly)*; achievements in Rock Engineering practice (*Inspired by SANIRE Rockstar and Practitioner awards*)
- **John Hudson award**: *New (every 2nd year)*; achievements in engineering practice (developing / designing an outstanding rock engineering project; solving important practical rock engineering problems; introducing to current rock engineering practice new and important technologies; promoting good practices with innovative technologies and management to reduce time and cost of a rock engineering project; promoting good practices with innovative technologies and management to enhance health)
- **Science and Technology award**: *New (every 2nd year)*; development and application of a new equipment or testing system / method / application of a new technology / development and application of a new material.



CONTINUOUS ENGAGEMENT (<https://isrm.net>)

- ISRM Website, Lecture tours, On-line lectures, Video courses, Book series



As SANIRE member you can download 100 papers / year from ISRM (OnePetro). Mail ISRM secretariat for log in detail (secretariat@isrm.net)

EVENTS

Event title	Start date	End date	Country	City
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	2021-09-21	2021-09-24	Italy	Virtual
ARMS11 - 11th Asian Rock Mechanics Symposium, Challenges and Opportunities in Rock Mechanics - an ISRM Regional Symposium	2021-10-21	2021-10-25	China	Beijing
5th Symposium of the Macedonian Association for Geotechnics - an ISRM Specialized Conference	2022-06-23	2022-06-25	Macedonia	Ohrid
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 - Challenges in rock mechanics: towards a sustainable development of infrastructure - 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



ISRM International Symposium LARMS 2022



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Organisational Liaison

SAIEG, SANCOT, SAIMM, GSSA MHSC, RBTT, Seismicity, MoshCOPA





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Organisational Liaison

1.4 The key objectives of the Institute are:

- 1.4.1 to identify the needs of its members;
- 1.4.2 to represent and promote the interests of its members;
- 1.4.3 to maintain the affiliation of SANIRE with the International Society for Rock Mechanics (ISRM).
- 1.4.4 to encourage, initiate and give effect to the means whereby the requirements for technology and scientific knowledge of the rock engineering sector of the South African mining, petroleum and civil engineering industries are satisfied;
- 1.4.5 to promote high standards of professional practice.



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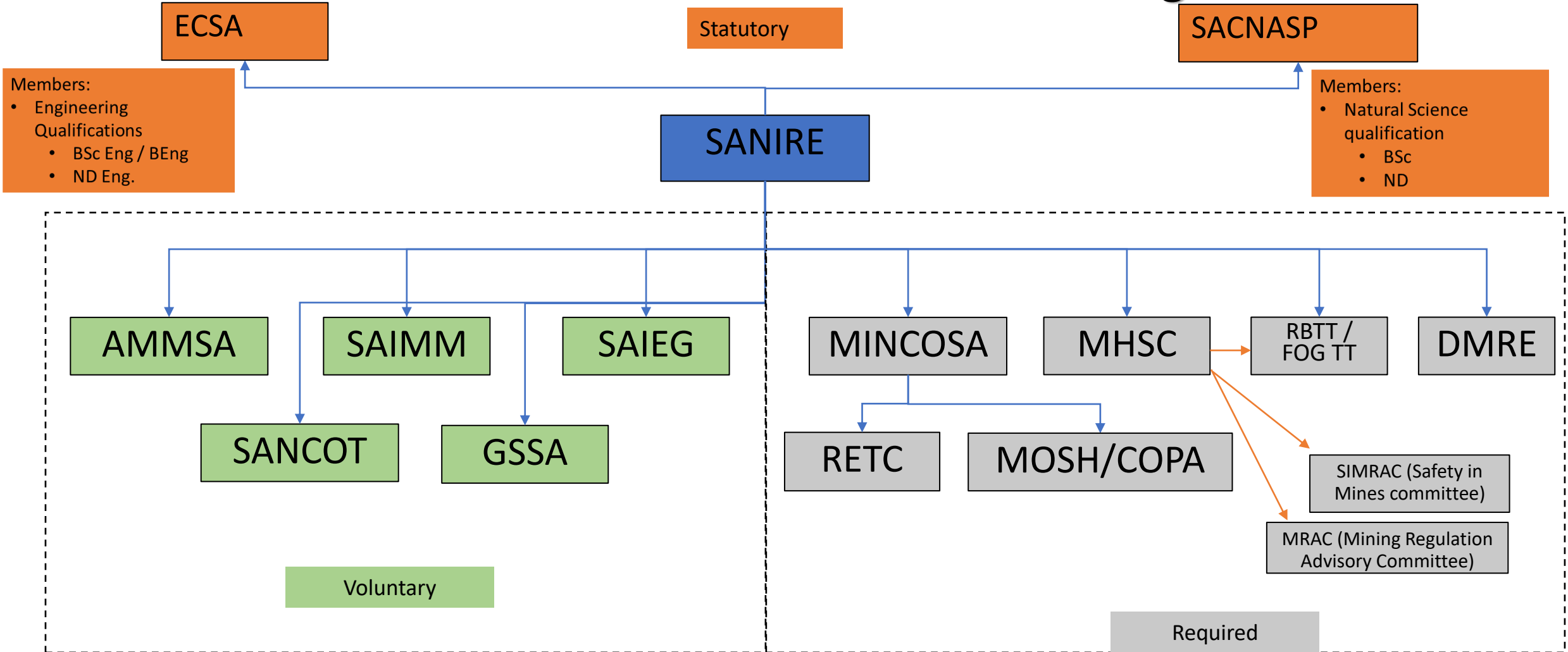
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Organisational Liaison



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MHSC

MINE HEALTH AND SAFETY COUNCIL

Established in terms of Section 41(1) of the Mine Health and Safety Act, 1996 (Act 29 of 1996)

Woodmead Office Park
B7 Maple North
145 Western Service Road
Woodmead

Enquiries: Mrs Thobile T. Nhleko

Email: tnhleko@mhsc.org.za

Date: 02 August 2021

AGENDA FOR WORKSHOP ON THE REVIEW OF PRECONDITIONING DESIGNS AND EXECUTION THEREOF FOR THE MHSC PROJECT

COE 190301 "DETERMINE BEST/LEADING PRECONDITIONING PRACTICES APPLICABLE FOR SHALLOW, INTERMEDIATE, DEEP AND ULTRA-DEEP MINING TAKING COGNISANCE OF ROCK STRENGTH AND TYPE AND MINING METHOD" (WP3 – STAKEHOLDER ENGAGEMENT ON THE DESIGN AND EXECUTION OF PRECONDITIONING METHODS)

DATE: 11 AUGUST 2021 ON MICROSOFT TEAMS
09:00 – 12:15

LINK:

https://teams.microsoft.com/join/19%3ameeting_ODJlZlq4ZGMtYmQ2Yl00NmZmLTQ5MDctYzY5NzQ3MDcwZTBi%40thread_v2/0?context=%7b%22Id%22%3a%22fd3c5d5-ddb2-4ed3-9803-f89675928df4%22%2c%22Old%22%3a%2273eb1159-7e3c-4d66-957b-1e838c3d0ca0%22%7d

Item	Description	Time
1	Welcome	09:00 - 09:05
2	Project background	09:05 - 09:25
3	Review of preconditioning practices in the SAMI	09:25 - 09:50
4	Comments and questions from first session	09:50 - 10:05
5	Break	10:05 - 10:20
6	Deep mines not applying preconditioning	10:20 - 10:40
7	Procedure for charging with bulk emulsion • Pumping equipment • Stemming material • Crushed preconditioning holes	10:40 - 11:10
8	Break	11:10 - 11:25
9	Evaluation of the effectiveness of preconditioning	11:25 - 12:00
10	General remarks and closing	12:00 - 12:15

Pre-conditioning workshop



MHSC

Mine Health and Safety Council

Established in terms of Section 41(1) of the Mine Health and Safety Act, 1996 (Act 29 of 1996)
Western Woods Office Park, B7 Maple Place, 145 Western Service Road, Woodmead
Tel. No. (011) 656 1797 | Fax: (011) 656 1796

Enquiries: Mrs Thobile T. Nhleko
Email: tnhleko@mhsc.org.za

Date: 29 July 2021

To whom it may concern

INVITATION TO ATTEND A WORKSHOP ON THE REVIEW OF PRECONDITIONING DESIGNS AND EXECUTION THEREOF FOR THE MHSC PROJECT COE 190301 "DETERMINE BEST/LEADING PRECONDITIONING PRACTICES APPLICABLE FOR SHALLOW, INTERMEDIATE, DEEP AND ULTRA-DEEP MINING TAKING COGNISANCE OF ROCK STRENGTH AND TYPE AND MINING METHOD"

Dear Sir/ Madam

The Mine Health and Safety Council (MHSC) would like to invite you to attend a workshop with the aim to discuss the parameters, design and execution of preconditioning methods for the research project titled COE 190301 "DETERMINE BEST/LEADING PRECONDITIONING PRACTICES APPLICABLE FOR SHALLOW, INTERMEDIATE, DEEP AND ULTRA-DEEP MINING TAKING COGNISANCE OF ROCK STRENGTH AND TYPE AND MINING METHOD". The workshop is planned to take place on the Microsoft Teams virtual communication platform on Wednesday the 11th of August 2021 from 09H00 to 12:15H00.

The purpose of the project is to determine the best/leading preconditioning practices for different underground conditions to establish a base from which one can draw information and guidance with regards to preconditioning practices to protect the employees that work in the mining faces, from face ejections. The expected project outcomes include; reviews of preconditioning designs for different rock conditions, preconditioning designs to be used when seismically active geological features are encountered, and the development of a preconditioning guideline document for the South African Mining Industry (SAMI).



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Workshop on research within mining seismology

Date:

31 August 2021

Time:

09:30 – 15:30

Virtual:

A link will be sent closer to the event date.

RSVP:

Michelle Grobbelaar (michelle@geoscience.org.za)
by 27 August 2021



CGS Workshop on Mine Seismology

280 Pretoria Street, Silverton, Pretoria
Private Bag X112, Pretoria 0001, South Africa
Tel: +27 (0)12 841 1911
Fax: +27 (0)12 841 1221
email: info@geoscience.org.za
website: www.geoscience.org.za



Council for Geoscience

Enquiries: M. Grobbelaar;

Tel: +27(0)12 841 1200;

E-mail: michelle@geoscience.org.za

04 August 2021

Dear Stakeholder

RE: INVITATION TO A SEMINAR ON MINING SEISMOLOGY

The Council for Geoscience (CGS) cordially invites you to an online seminar on mining seismology taking place on the 31st August 2021 from 09:30 until 15:30.

During the collaborative projects with the Department of Mineral Resources and Energy (DMRE) as well as the Mine Health and Safety Council (MHSC), the CGS hosted a number of workshops and surveys involving various stakeholders within the mining sector (industry, academia, labour and government).

The outcome of these workshops and surveys mainly pertained to the deliverables of the projects, for instance, seismic events reporting website, but there was a general sense of the need to collaborate more between the stakeholders concerned. In addition, during the Parliamentary Portfolio Committee visit to the CGS in April 2018, it was agreed that a Task Team involving the stakeholders should be created in order to identify areas of research in the field of mining seismology. To this end, Task Team meetings are coordinated by the MHSC and several research projects have been identified for MHSC to lead.

Since then, the ad hoc committee was also established in response to the Amendment of Regulations of the published National Disaster Management Act of 2002, gazetted on 16 April 2020, Section 11K(3), and meets on a fortnightly basis. A weekly report summarising the trends in seismicity observed by the mines and CGS is released, but very little research is being conducted on these trends.

With the above activities in mind, as well as considering the research that the CGS has participated in, an online seminar involving the industry, academia, labour and government is proposed.

The seminar aims to provide a platform for all parties to share their research activities and to act as a catalyst for:

- Identifying areas where research on improved mine safety is required (short, medium, and long term research requirements).
- Identifying areas when collaboration between the Stakeholders is possible.
- Understand the needs of various stakeholders in terms of mine safety as it pertains to fall of ground and seismology.
- What information is required by each entity, and what research gaps exist.
- What data and information sharing mechanisms can be put in place.

The preliminary agenda is as follows:

- 1) Welcome and introductions.
- 2) Introductory remarks from CGS.
- 3) Areas of concern identified by DMRE, MHSC and Minerals Council.
- 4) Areas of concern identified by industry.
- 5) Discussion on potential collaboration and areas of research.
- 6) Recommendations and timelines.

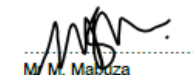
As important stakeholders within this field, the CGS would like to invite you to present your areas of expertise/concern within mining seismology.

For more information please contact Michelle Grobbelaar at any of the numbers and/or emails mentioned above including confirmation of your participation.

We look forward to your continuous support and collaboration on this and other matters of mutual interest.

Thank you for your consideration.

Yours in Service,



M. M. Mabuza
Chief Executive Officer

IDENTIFICATION OF ENGINEERING WORK REGULATIONS

ECSA's Engineering
Profession Act Of 2000

BOARD NOTICE 21 OF 2021



**ENSURING THE
EXPERTISE TO GROW
SOUTH AFRICA**

**BOARD NOTICE
IDENTIFICATION OF ENGINEERING WORK REGULATIONS**

ENGINEERING COUNCIL OF SOUTH AFRICA
Tel: 011 6079500 | Fax: 011 6229295
Email: engineer@ecsa.co.za | Website: www.ecsa.co.za



Organisational Liaison

Gazetted 26 March 2021



in

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Section 26 of EPA

Identification of work

26. (1) The council must consult with—

- (a) all voluntary associations;
- (b) any person;
- (c) any body; or
- (d) any industry,

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that may be affected by any laws regulating the built environment professions regarding the identification of the type of engineering work which may be performed by persons registered in any of the categories referred to in section 18, including work which may fall within the scope of any other profession regulated by the professions' Acts referred to in the Council for the Built Environment Act, 2000.

(2) After the process of consultation the council must submit recommendations to the CBE regarding the work identified in terms of subsection (1), for its consideration and identification in terms of section 20 of the Council for the Built Environment Act, 2000.

(3) A person who is not registered in terms of this Act, may not—

- (a) perform any kind of work identified for any category of registered persons;
- (b) pretend to be, or in any manner hold or allow himself or herself to be held out as a person registered in terms of this Act;
- (c) use the name of any registered person or any name or title referred to in section 18 or 21; or
- (d) perform any act indicating, or calculated to lead persons to believe, that he or she is registered in terms of this Act.

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(4) Subsection (3)(a) may not be construed as prohibiting any person from performing work identified in terms of this section, if such work is performed in the service of or by order of and under the direction, control, supervision of or in association with a registered person entitled to perform the work identified and who must assume responsibility for any work so performed.

ECSA

Categories of registration

18. () The categories in which a person may register in the engineering profession are—

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(u, professional, which is divided into—

- (i) Professional Engineer;
- (ii) Professional Engineering Technologist;
- (iii) professional Certificated Engineer; or
- (iv) professional Engineering Technician; or

45

(b) candidate, which is divided into—

- (i) Candidate Engineer;
- (ii) Candidate Engineering Technologist;
- (iii) Candidate Certificated Engineer; or
- (iv) Candidate Engineering Technician; or

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(c) specified categories prescribed by the council.

(2) A person may not practise in any of the categories contemplated in subsection (1), unless he or she is registered in that category.



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CORE COMPETENCIES REQUIRED TO PERFORM IDENTIFIED ENGINEERING WORK

4 (1) A person who performs any identified engineering work in a particular engineering discipline must, in addition to any other requirement contemplated in the Engineering Profession Act-

- (a) be suitably qualified;
-  (b) be registered by ECSA in the appropriate category applicable to the level of service performed; and
- (c) possess the necessary core competency in the competency areas referred to in this item to perform such core service as a professional engineer, professional engineering technologist, professional certificated engineer, professional engineering technician or a specified category practitioner.





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ECSA

PERFORMANCE OF CORE SERVICE IN PRACTISE AREA

5 (1) Identified engineering work in any engineering discipline consists of core services in certain practise areas.

(2) For the purposes of section 26(3)(a) of the Engineering Profession Act, work identified for persons registered in one of the categories in section 18(1)(a) or (c) of the Engineering Profession Act includes the core services for the practice areas referred to in in Items 6 to 15

(3) The core services and practise areas listed in items 6 to 15 are not exhaustive and any similar activity that is undertaken in order to perform a core service in compliance with an agreement to provide engineering work in an engineering discipline which work is not identified in items 6 to 15 is deemed to be a core service identified in items 6 to 15.



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IDENTIFIED ENGINEERING WORK IN MINING ENGINEERING DISCIPLINE

14 (1) The core services in the mining engineering discipline consist of the analysis, planning, design and development, manufacture, construction, management, operation, maintenance and rehabilitation of works for the extraction of minerals from natural deposits on the earth's surface underground or under water through the application of mining engineering science.

(2) The core services in the mining engineering discipline are performed in the following practice areas:

- (a) Conducting fundamental or operational research and advising on occupational health and safety and environmentally responsible mineral excavation methodology, processes and systems;
- (b) designing and specifying mineral excavation processes, application of mining resources and mining technical support services required, occupational health, safety and environmental considerations and quality assurance;
- (c) establish production and operational control standards and procedures to ensure compliance with legislation and site-specific requirements;
- (d) manage occupational health, safety and environmentally-related hazards and accompanying risks;
- (e) performing tests throughout the life-cycle stages and mineral excavation processes to determine the degree of control over variables identified during the strategic and tactical mine design and planning processes;
- (f) develop appropriate site-specific risk management policies, procedures and standards;
- (g) prepare pre-feasibility and feasibility reports and life-of-mine exploitation strategies and plans, business plans and bankable documents based on site-specific assumptions, premises, constraints and best practice standards;
- (h) converting mineral resources into mineable reserves;
- (i) performing mineral asset valuations;
- (j) managing mineral assets; and
- (k) education and training of candidate mining engineering practitioners.



Training

WORK BY PERSON WHO OVERSEES PLANNING, DESIGN AND DELIVERY OF EDUCATION AND TRAINING PROGRAMME AND EMPLOYEE OF ORGAN OF STATE DEEMED IDENTIFIED WORK

17 (1) Any person who oversees the planning, design and delivery of education and training programmes accredited by ECSA and assessment of students at the engineering exit level at a higher education institution that is established, deemed to be established or declared as a public or private higher education institution under the Higher Education Act, 1997 (Act No 101 of 1997) or at a public college as defined in the Further Education and Training Colleges Act, 2006 (Act No. 16 of 2006), is deemed to be a person who performs identified work contemplated in item 2 of this Notice.



TRANSITIONAL PROVISIONS

27 (1) Any person who is not registered in terms of the Engineering Profession Act, and who is required to be registered as a professional or in a specified category in terms of this Notice must, within 36 months of the date on which this Notice comes into operation, apply for registration according to the programme contemplated in sub-item



How Regulations Affect Members

- Titles used by Practitioners going forward, legality of referring to unregistered members as Engineers?
- Registration of members with ECSA
- Category of members with COMREC, engage ECSA to find solution within 36 months



Social media and Newsletter



Emails (MPAS)

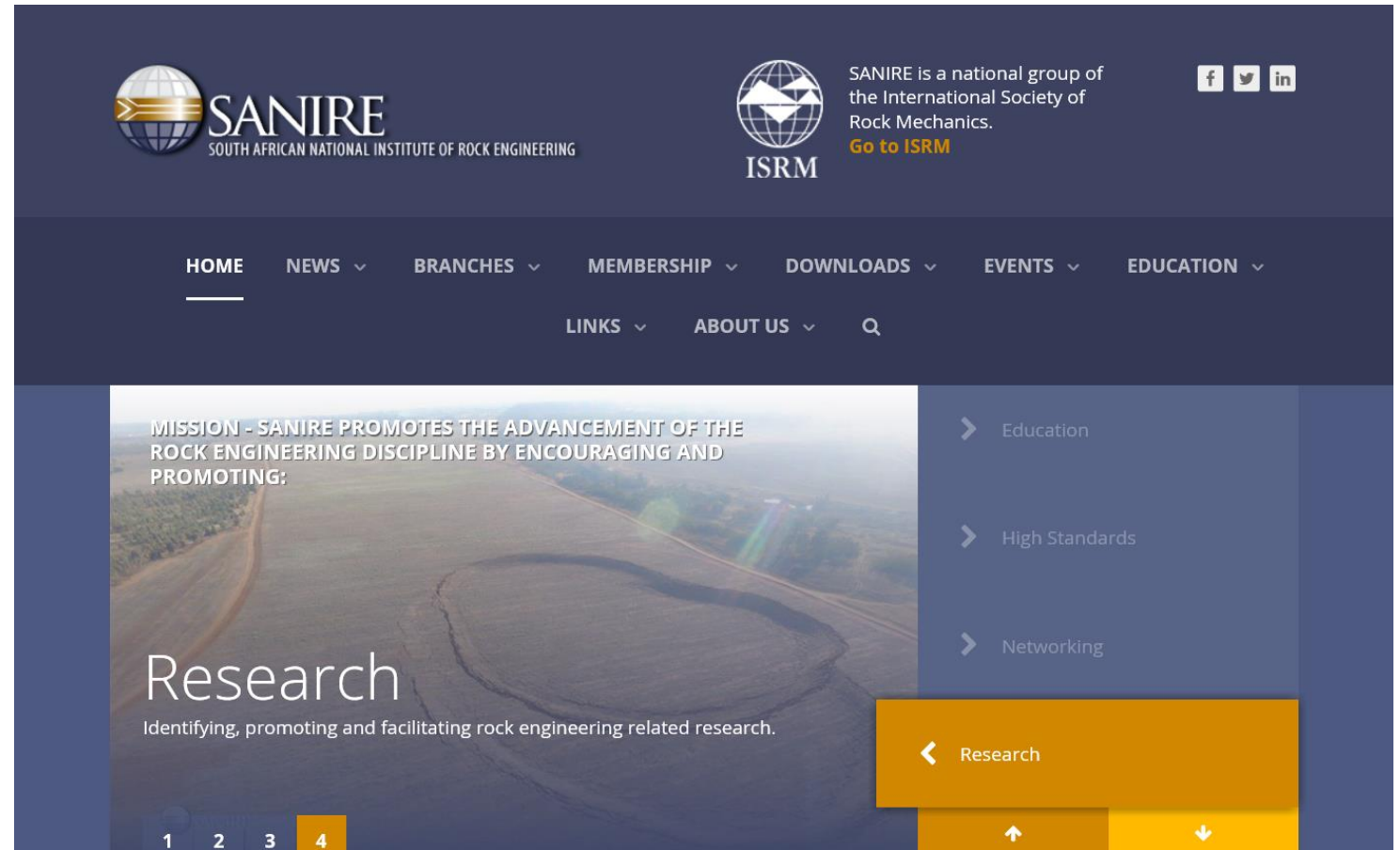
Facebook (MPAS)

LinkedIn - New LinkedIn account
was created

Website - www.sanire.co.za
(MPAS)

**We are now fully compliant to
the POPIA act**

- Old databases harvested
through membership
applications will be deleted
- New submissions will not be
stored



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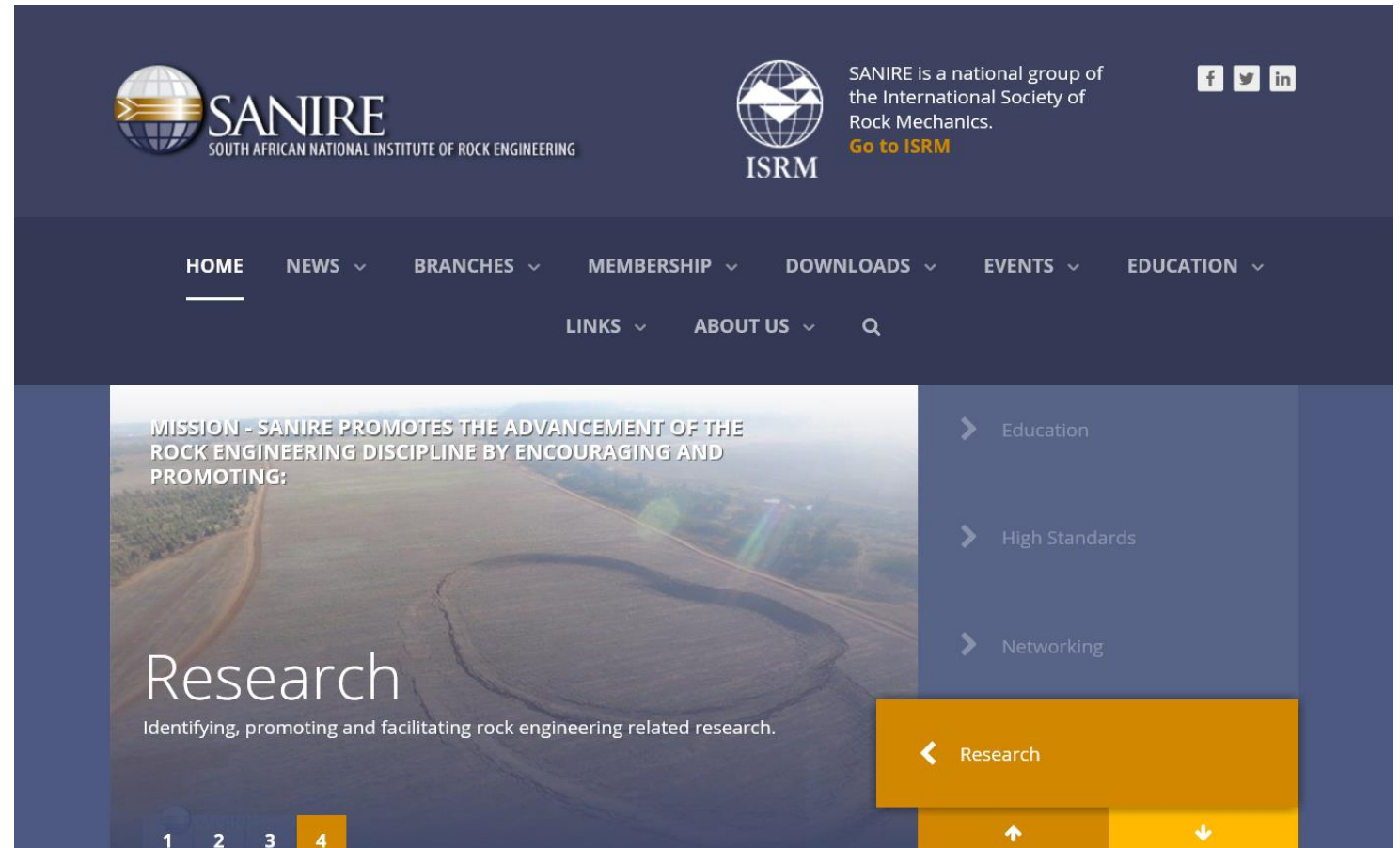


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Link to new publications



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Events and Sponsorships



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Webinars


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WEBINAR FREE OF CHARGE

Forensic Rock Mechanics for the Analysis of Rockbursts and Seismicity in Mines



Gerrie van Aswegen
 Consultant: Mine Seismology, Structural Geology
 Institute of Mine Seismology

SESSION 1
 Wednesday, 7 July 2020
 13:00 - 14:00

SESSION 2
 Wednesday, 21 July 2020
 13:00 - 14:00

SESSION 1 SOME BASICS

Fundamentals of rock deformation and failure

- Ductile – brittle
- Pure shear – simple shear
- Uni-axial – tri-axial



Faulting and shear

- Anderson's classification
- Kinematic indicators
- Relation with stress orientation



Stress in mines

- Neotectonics
- "Virgin" stress
- Locked in stress



Extension fracturing

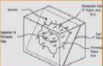
- Fractography
- Stress fractures
- around stopes
- around tunnels
- Significance of curved extension fractures



SESSION 2 ROCKBURSTS AND SEISMICITY

Seismic events - slip

- Hypocentre
- Area slipped
- Focus of maximum displacement



Seismic events - non-DC

- Implosion
- Explosion
- Pancakes



Rockbursts

- Conductive conditions
- Classification / nomenclature
- Strain burst
- Face burst
- Pillar slip
- Fault slip
- Dyke burst ...



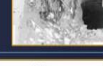
Forensic dynamic rock mechanics

- What moved?
- When?
- Which way?
- Why?



Moment tensors

- simple definition
- relation to actual source mechanism
- usefulness for stress orientation



Modelling source mechanisms



RSVP TO REGISTER

Mbalenhle Buthelezi

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 mbalenhleb@mpas.org.za



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INAUGURAL ADDRESS



PROF. FRANCOIS MALAN

Prof Malan delivered his Inaugural Address on 29 June 2021 at the University of Pretoria in the Department of Mining Engineering

Topic: Rock Engineering research as a prerequisite for sustainability and growth in the mining sector.

Contents: Economic growth and technological advances result in a rising demand for metals. As a consequence, surface resources are being depleted, and the depth of mining is gradually increasing. At great depths, flat dipping tabular excavations present unique rock engineering challenges. This is typically encountered in many South African mines. There is limited knowledge on the rock mass behaviour at these depths, which affects the sustainability of the mining sector. Even shallow tabular mines are prone to instabilities. The requirement is to design and develop stable excavations in an anisotropic, inhomogeneous and extensively fractured rock mass. This lecture discusses recent advances in the rock engineering field to address these challenges. Methods to simulate the fracture zone in pillars and stope faces were developed. These techniques enable engineers to simulate the effect of pillar scaling, different mining rates and mining increment lengths. The models also accommodate energy dissipation computations, and the released energy can be used as a measure of seismic activity. This addresses a number of the weaknesses in the traditional usage of energy release rate as a criterion for layout design. Of further interest is the design of rockburst support. New methods to improve the areal characteristics of the support systems are discussed in the lecture. Prof Malan is currently working on developing commodity-specific pillar design formulae to increase the profitability of these mining operations.

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SANIRE SYMPOSIUM

- Very good attendance – over 120 logged in
- Each presenter will receive a branded SANIRE desk organiser
- 11 Presenters on Day 1 and the Day 2 Education Symposium was also well attended
- Sponsors
 - Videx
 - SRK
 - Groundwork
 - Bedrock
 - Rockbolt
 - M&J
 - Qualirock



ROCKBOWL 2021

- 7 Teams participated in the RockBowl 2021
- Gifts still needs to be sent to the winning team

DO NOT MISS ROCKBOWL 2022



The RockBowl 2021 team winners from Petra Diamonds.

Top left: Phumza Banjwa

Top right: Prince Mlenga

Bottom left: Olwethu Swakamisa

Bottom right: Yolanda Chambati



DATE: 5 AUGUST 2021

VENUE: MICROSOFT TEAMS LIVE

TIME: 14H00 - 16H00

CLOSING DATE FOR ENTRIES: 23 JULY 2021

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

WHO SHOULD ATTEND?

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

HOW TO ENTER?

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

FOR REGISTRATION FOLLOW THE LINK BELOW

REGISTER HERE

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'S UP FOR GRABS?

- Bragging rights
- A host of fantastic prizes



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Golf Day

SAVE THE DATE

14 OCTOBER 2021

MAGALIES PARK GOLF CLUB

FOR MORE INFORMATION CONTACT

Mbalenhle Buthelezi

Tel: +27 11 568 2054

Email: mbalenhleb@mpas.org.za



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Past President Forum

- A personalised to each Past President for 2021.
- The legacy of creating a SANIRE culture continues to live on and grow.
- 19 November 2021



EVENTS IN 2021 (H2)

- **Webinar Gerrie van Aswegen**
 - 7 & 21 July 2021
- **Virtual Symposium**
 - 5 & 6 August (Thursday and Friday)
- **Virtual RockBowl**
 - 5 August 2021(Thursday)
- **Golf day**
 - 14 October 2021 (Tuesday)
- **Updating of learning material Steering committee Workshop**
 - 15 September (Wednesday)
- **Last Council meeting and Past Presidents Forum**
 - 19 November 2021
- **Past Presidents Forum**
 - 5 November 2021 (Friday)
- **AGM (Virtual)**
 - 27 August 2021 (Friday)
- **Education Workshop**
 - 19 October 2021
- **Webinar – Exam writing coaching and mentoring**
 - Mid September (TBC)
- **SCO Practical Exams**
 - 13 – 23 September 2021
- **Minerals Council Theory Exams**
 - 4 – 8 October 2021
- **Rock Engineering Practical Exam**
 - 5 November 2021



AWARDS CEREMONY



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



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GENERAL



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Thank you