

# NEWSLETTER

Promoting the study and advancement of Earth Sciences since 1895



**FREE**

## AN INTRODUCTION TO DRILLING

**2 AUGUST 2022**

**REGISTER NOW**



The planning for Geocongress is progressing well. The hybrid event is scheduled for January 11-13 at Stellenbosch University and abstract submission is live, with early bird delegate registration to open August 8. The registration fees have been set as low as possible to make the meeting affordable for students in particular. Inexpensive university housing will be available to those on tight budgets. For those who would like to provide sponsorship or exhibit at Geocongress, please contact [craig.smith@gssa.org.za](mailto:craig.smith@gssa.org.za).

Geocongress is a great place to let the geology community know what you are researching, as well as being the first real face to face networking opportunity since the beginning of the COVID pandemic. Submit your poster or oral presentation abstract as soon as possible! – <https://allevents.eventsair.com/geocongress/>

We are now more than halfway through 2022 and a number of members have not yet paid their GSSA fees for 2022. You are urged to do so as soon as possible. If you need to make payment plans please contact [accounts@gssa.org.za](mailto:accounts@gssa.org.za).

*Craig Smith*

### INSIDE THIS ISSUE:

- President's Column
- GSSA Award Winners
- 2023 GSSA courses survey
- Past courses recordings
- Events Student Sponsorship
- Geongress 2023 – Abstract submission now open
- 2022 GSSA Annual Report
- Membership Benefits
- New Members July
- GSSA Upcoming Events
- Sponsorship Opportunities
- Colin Rice Drilling
- Groundwater Webinar
- SAMCODES online webinar
- NSTF Awards
- Wits Mining Seminar



## PRESIDENT'S COLUMN - TANIA MARSHALL

With Women's' Day in South Africa falling on August 9th, the whole month of August has been set aside to pay tribute to women who were involved in a political protest. It is interesting to note that international women's day falls on March 8th in 2022, as a day to celebrate the social, economic, cultural and political achievements of women. Incidentally, there is an international Men's Day too, celebrated on 19 November every year - although I have to admit to thinking that every day is Men's Day!

In this column this month, I would like to pay tribute to all the women in the geosciences - those who lead by example; those who juggle work and family life; those just starting out on a career without knowing exactly where they are going to find themselves this time next year; those who are struggling to find jobs in their chosen fields; women in academia, in industry, in State departments or in regulatory organisations; and the multitude of female support and administrative staff, without whom the wheels of industry would grind to a halt. Not to forget those women who accompany their menfolk to remote field camps or to mines, far from their families and city comforts. Also (especially?) those grass widows who manage house and home while their husbands work away for extended periods.

Women no longer just follow in the mining/geoscience industry. They are leaders too, providing role models for younger graduates just starting out in the industry, not only as captains of industry, but also as successful businesswomen and entrepreneurs. They also act as mentors, providing guidance and assistance to the next generation. Women make up some 10-20% of the global mining workforce and are growing in ability, competence and expertise each year. The mining world is full of "strong women - women who live bravely, women of indomitable will" (Amy Tenney).





# TAKE OUR SURVEY



**What courses/workshops/seminars,  
etc would you like to see the GSSA  
offer in 2023.**

Please complete the following short questionnaire and  
have your say.



## **GSSA Award Winners**

The Council of the GSSA ratified the 2022 student and professional awards proposed by the Fellows Committee, and were announced at the AGM on July 14. **Congratulations to the winners!**



The winners of the student awards are **Ryan Rosenfels** of Stellenbosch University (John Handley award), **Rutger La Cock** of Stellenbosch University (Haughton award), and **David Russo** of University of the Witwatersrand (SACNASP award). B von der Haven supervised both of the Stellenbosch students and G Drennan supervised the Wits student.

The winners of the professional awards are **RE (Jock) Harmer** (Des Pretorius award), and **Judith Kinnaird and Paul Nex** (joint winners of the Draper Medal).

The Jubilee Medal for the best paper in the South African Journal of Geology was awarded to **Stephanie Scheiber-Enslin, Musa Manzi and Susan Webb** for their paper "Seismic imaging of dolerite sills and volcanic vents in the Central Karoo, South Africa: implications for shale gas potential", 2021, vol 124(2), PP 465-480.

# Benefits of GSSA Membership



## Professional Code of Ethics

- Professional norms and behaviours backed by a robust Complaints process



## Continuing Professional Development

- Members can choose to record CPD credits on either GSSA or SACNASP website and be mutually recognised.



## Technical/Scientific Meetings



- Live and recorded events to learn at your convenience.
- Looking for new ways to present events (hybrid?).
- Networking events coming soon



## Branches & Divisions

- Support for wide-ranging interests

## Geobulletin/Newsletter

- Know what is happening in the geoscience universe



## REI Fund

- Access to funds for research activities



## SA Journal of Geology

- Internationally recognised and accredited journal
- Journal archives back to 1895
- Relationship with Geoscience World



## Recognised Professional Organisation

- Training & support for Competent Persons.
- Associated with CRIRSCO and IMVAL.
- Promotes international reciprocity



## Mentorship Opportunities

- Opportunities for personal growth and also to give back



## International/Regional/Local Alliances

- Founder member of Global Geoscience Professionalism Group.
- Numerous sister organisations and relationships with other regional and international geoscience organisations.

**Benefits of GSSA membership – providing you with a professional home**

## STUDENT MEMBERSHIP BENEFITS

Student Membership is FREE

50% discount on all publications

Reduced Rates (often FREE) for virtual, contact and hybrid events

Opportunities for funding research costs through REI Fund

Automatic inclusion in the Young Professionals Division of the GSSA

Fulltime MSc and PhD Students retain (FREE) student membership status

Easy transition to full corporate membership on graduation (only one reference required)

No membership costs for one full year on transfer to full membership.

Preferential access to limited mentorship opportunities through the SACNASP Candidate Mentoring Programme



**REGISTER NOW**





Missed our  
past **2022**  
online  
courses



## RECORDING LINK AVAILABLE FOR PURCHASE

[CLICK HERE](#)

Once you have completed viewing, please send an email to [info@gssa.org.za](mailto:info@gssa.org.za) and a certificate will be sent to you to claim CPD points.





FREE STUDENT ATTENDANCE  
**GSSA ONLINE EVENTS**



The GSSA, in conjunction with their event partner(s), will sponsor a limited number of students for selected online courses in 2022.

Requirements and application procedures

[CLICK HERE](#)

[www.gssa.org.za](http://www.gssa.org.za)





## GEOCONGRESS 2023 11-13 JANUARY

### Abstract submissions are now open!!

After a second call for additional conference sessions, we are very pleased to announce that the **Call for Abstracts is now OPEN!** We are very excited about the program which comprises a diverse array of offerings and caters to all southern African and international geoscientists, researchers and industry professionals.

Abstracts can be uploaded directly through the portal on the Geocongress website (follow link: <https://allevents.eventsair.com/geocongress/abstracts>) and abstract submissions will be open until **30 September 2022**. With Covid restrictions now lifted, we actively encourage a large in-person contingent which will really facilitate meaningful interactions and discussions around our exciting field of science. However, the event will be in hybrid format, and remote attendees will have an opportunity to present their work using a hybrid-type format.

<b>Environmental</b>	Geobiology
	Acid mine drainage and other mine pollution issues
	Environmental Geochemistry
	Geoscience for a sustainable energy-environment nexus
	Current and future outlook for Carbon Capture and Storage in South Africa and abroad.
	Advances in Southern African Hydrogeology
<b>Energy</b>	Future of petroleum geosciences in Southern Africa
	Solid fossil fuel resources
<b>Igneous</b>	Diamonds, kimberlites and cratonic lithosphere: a session in honour of John J. Gurney
	Advances in Bushveld Petrogenesis and Ore Genesis
	Igneous beyond the obvious
	Felsic rocks of the Bushveld complex: Petrogenesis and metallogeny
<b>Metamorphism</b>	Differentiation of the Earth's crust at the metamorphic:igneous interface
<b>Earth Evolution</b>	Archaean Processes and Environments
	The Proterozoic of Africa
	Central Africa
	Africa's Phanerozoic tectonic evolution and associated magmatism
<b>Planetary</b>	Planetary Geology: Earth, Moon and Beyond
<b>Ore and structure</b>	Applied Mineralogy Session
	Sediment-hosted ore deposits
	Ore-structure relationships
	Tectonics, Seismology and Geological Hazards.
<b>Sedimentary</b>	Detrital Zircon: Methods, problems, applications
	Sedimentary basins in Southern Africa
<b>Society</b>	Geoscience and society
	The Future Geoscientist



Stellenbosch  
UNIVERSITY  
IVUNIVERSITH  
UNIVERSITEIT

The next 125 years of Earth Sciences

GSSA  
Geological Society of South Africa





# Events



[SPONSORSHIP  
OPPORTUNITIES](#)

[EVENTS CALENDAR](#)

[VIRTUAL TALKS  
CALENDAR](#)

[GSSA YOUTUBE  
CHANNEL](#)

UPCOMING  
EVENTS

An Introduction to Drilling	<b>2 August</b>
Green Energy Day	<b>30 August</b>
3D Geomodelling	<b>7 October</b>
Drilling Methods and Techniques	<b>13 September - 04 October</b>
ESG Inquisition Feedback	<b>08 November</b>
African Exploration Showcase	<b>17 - 18 November</b>

**ANNUAL  
EVENT  
SPONSORS**

**acquire**

**DMT**  
DMT Kai Batla (Pty) Ltd

**GEO-EXPLORE STORE**  
GEO-EXPLORE STORE (PTY) LTD

**UCP  
AFRICA**  
Unique Core Products Africa (PTY) LTD.

**SACNASP**  
South African Council for Natural Scientific Professions  
*Integrity in science*

# AN INTRODUCTION TO DRILLING

**02 AUGUST 2022**

**REGISTER NOW**



## CPD POINTS

8 GSSA  
1 SACNASP

## FREE ONLINE WORKSHOP

**CALLING ALL STUDENTS, MENTEES AND YOUNG GRADUATE PROFESSIONALS**

Although the workshop is free, it is essential to register to receive your unique login code and the recording of the workshop. In order to receive a Certificate of Completion, you will be required to attend the entire day and write (and pass) a short assignment based on the course content.

- If you miss parts of the course due to loadshedding or internet connectivity issues, you may catch up on the recorded version and still receive your CPD credits upon completion of the assignment. All registered delegates will receive a link to the course recording within 48hrs.
- The assignment will comprise two (2) essay-type questions and a Survey Monkey questionnaire which will be supplied at the end of the workshop. Delegates must submit their answers in the supplied format within one week of the course (by 17h00 on 16 August 2022).



# GREEN ENERGY DAY

## 30 AUGUST 2022

**CPD POINTS**

**GSSA - 8**

**SACNASP - 1**

**REGISTER NOW**



**PRELIMINARY PROGRAMME**



### **The Critical Role of the Minerals Industry in South Africa's Green Energy Future**

Is a full transition to green energy feasible for South Africa and, if so, how long will it take and what is the role of the Minerals Industry in a new energy future for the country?

Internationally, energy generation is closely linked to the socio-economic and infrastructural development of a country. The South African economy is energy intensive, registering the highest per capita greenhouse emissions on the continent, with coal making up 80% of its electricity.

In contrast, South Africa has one of the largest natural solar, wind and wave power generation potentials in the world, but is hamstrung by its lack of critical materials necessary to leverage green power technology.

How will the Minerals Industry respond to these challenges and opportunities?

Join industry experts, as we debate these critical questions and attempt to discover the best way forward in an exclusive online workshop covering topics such as:

Critical Raw Materials and the Energy Transition | Green Minerals | Carbon Markets  
Oil & Gas Industry Value Chain | How Investors view Renewables  
And many more...



MEMBER - **R1 000** | NON MEMBER - **R1 500** | ACADEMIC/RETIRED - **R500**

**Free for all Registered Students**







## DRILLING METHODS & TECHNIQUES IN RESOURCE EXPLORATION 13 SEPTEMBER - 04 OCTOBER 2022

CPD POINTS  
16 GSSA  
2 SACNASP

### ABOUT THE COURSE

Frequently, new geologists are placed on drilling projects with very little understanding of the drilling operation. In order to effectively contribute to managing the project, geologists require at least a basic level of understanding of drilling principles and the drilling operation as a whole.

This course, provided by **Colin Rice**, will provide newly qualified geologists, that have had little or no exposure to drilling operations, with a fundamental understanding of selected aspects of a drilling operation.

The course is a combination of online, self-directed learning and virtual contact sessions where concepts can be discussed and clarified, questions can be answered, and practical applications of the concepts can be discussed.

Delegates will have access to a discussion forum, printable notes in pdf format and support sessions throughout the course.

### REGISTRATION FEE

**Member - R3000 | Non Member - R3500 | Student/Retired - R2000**

Click here to  
**REGISTER**

# 3D GEOMODELLING

07 OCTOBER 2022

REGISTER NOW



## CPD POINTS

8 GSSA

1 SACNASP

## ABOUT THE WORKSHOP

Recent trends in mining and exploration are set to further accelerate the demand and growth of 3D geological modelling software. These trends include the inevitable increase in cost per ton of resource and global economic slowdowns.

These require companies to constantly cost-cut during extraction and to improve resource delineation. Add to this the trend that new discoveries are deeper and in more structurally-complex setting, and it's apparent that a great deal of attention needs to be focused on getting the geometry of a deposit, as early as possible in the exploration and mining value chain, correct.

## REGISTRATION

Members – **R3,000** | Non-Members – **R3,500** | Students/Retired/Academic – **R2,000**

READ MORE >>

The GSSA, in conjunction with their event partner(s), will sponsor a limited number of students. Click [here](#) for the application form.

Applications open on 07 September 2022



# DRILLING SKILLS FOR GEOLOGISTS

**PROUDLY  
ENDORSED BY THE  
GSSA**

**REGISTER NOW**



## **CPD POINTS**

40 GSSA

5 SACNASP

## **ABOUT THE CERTIFICATE PROGRAMME**

This virtual course has been designed to improve the candidate's understanding of the fundamental processes involved in drilling boreholes and to develop the candidate's effectiveness in identifying the source of problems and managing a drilling project.

The program also examines fundamental aspects of the use and application of drilling fluids and the principles of borehole surveying. A course on economic aspects focusses on the major cost drivers and the structure of drilling contracts.

### **Who should register**

This certificate program is designed for geologists, geological technicians, safety personnel, project managers and engineers who need a deeper understanding of the principles and processes involved in drilling boreholes.

The intake dates for this year are

- 28 January
- 4 April
- 6 June
- 5 September

# Membership

## Ratified by Council - 29 July

### NEW MEMBERS

Makubeng Maja, Rinequincy Ndou, Nosipho Nkosi, Ashael Ramiah, Marumo Ntsoane, Itumeleng Seabelo, Kelebogile Sediela, Reneilwe Shadung, Kgabo Sephesu, Charl Zietsman, John Roff

### NEW STUDENT MEMBERS

Warrick Daws, Kereemang Gaoaaga, Jessie Kanyerere, Jan Malepe Ethan Mack, Rudzani Madzivha, Mpho Makatu, Jan Malepe Siphiwe Malimba, Vhengani Mbedzi, Cameron McClaren, Tshimangadzo Ndou, Tariro Mombe, Rolivhuwa Mulaudzi, Brian Nhlapo, Puleng Rakololo, Brielle Naidoo, Thabang Selamolela, Nontobeko Sibanyoni, David Van Niekerk



2022  
ANNUAL REPORT



NUMBER 122

READ MORE >>

## PAY YOUR MEMBERSHIP FEE

[CLICK HERE](#)



## DOWNLOAD YOUR MEMBERSHIP CARD

[CLICK HERE](#)

## MEMBERSHIP APPLICATION

[CLICK HERE](#)



SAIMM  
Online Webinar



## Implications of S-K1300 regulations and disclosures for dual-listed companies on the JSE and NYSE

5-6 September 2022  
Online via Zoom



READ MORE >>



**START DATE**  
26 September 2022

**END DATE**  
30 September 2022

**R18,732.00**

**THIS COURSE IS AVAILABLE ONLINE**

COMPLIANCE AND REPORTING RULES IN THE MINERALS INDUSTRY MINN7052A

READ MORE >>

## WITS MINING INSTITUTE SEMINAR

Turning research curiosity into 21st Century minerals  
industry performance, relationships and technology

27 - 29 SEPTEMBER 2022

READ MORE >>



## NSTF-South32 Awards

### AWARDS

### CURRENT WINNERS – 2021/2022

READ MORE >>

The NSTF-South32 Awards – for outstanding contributions of teams, organisations and individuals to science, engineering, technology and innovation in South Africa.

The announcement of the 2022 winners took place on Thursday 21 July 2022.

## Webinar: Unpacking the Role of Groundwater in Water Security (SACNASP)

Webinar invitation: Unpacking the Role of Groundwater in Water Security

02 Aug 2022 10:00 - 02 Aug 2022 11:00

Online Event

Workshop

REGISTER NOW

