This is the last newsletter of 2020, and we hope that you have found the communication useful throughout the year. We will keep the same format next year, the first newsletter coming out end January. Many thanks to Lully Govender, who compiles the newsletter. Thanks also to Marliese Olivier and Sally Nienaber for administrative support through a difficult year.

Geocongress is still on track for next year probably in late July, but no final decision has been made as to whether a contact component of the event will be possible. This is dependent on the course of the pandemic, which up to this point has appeared to have decreased in severity after the July peak. However, in recent days there are signs that a second wave could be coming, with a range of projected dates. At this point, we are planning for a hybrid meeting. Please take a minute or two to respond to the second survey about what type of Geocongress event you would prefer; this will greatly assist planning.

Have a safe and relaxing year end break, and keep on social distancing. All the best for 2021! The GSSA office will close late afternoon on December 15, and re-open January 4, but email traffic will be monitored.
The GSSA Research, Education and Investment Fund (REI Fund) is inviting applications from GSSA paid up-members (including current post-graduate student members) for grants from the Fund, to be received at the GSSA office not later than 31 January 2021.

Geocongress 2020 has been postponed until mid-year 2021 because of the COVID pandemic. The dates have not yet been set, but the host and venue will be Stellenbosch University. The meeting can be staged as on-line only, combined face to face and on-line (hybrid model) or as face to face (contact model). We would like to receive feedback on what type of event the GSSA membership would prefer, and would greatly appreciate responses to the poll.

Drilling Skills for Geologists

This course is for the more experienced geologists looking for a deeper understanding of drilling concepts in order to better manage drilling projects.

The objective of every exploration project is to obtain representative samples of as high a quality as possible, safely and efficiently. The key concepts here are quality, safety and efficiency and this program is designed to provide candidates with the necessary knowledge and skills to improve their effectiveness in identifying the source of problems and managing these three key aspects of a drilling project.
With the holidays coming up and more time available, why not purchase one of the following GSSA online courses?

Available until 31 December 2020.
- PGE Webinar - talks by experts in the Bushveld Complex
- Foundations for a Geological Career – Geoskills 2020
- Introduction to the SAMCODES and JSE Reporting
- 3D Geological Modelling Workshop – Dr Ian Basson
- CPD Workshop – Dr Tania Marshall
- Project Management for Geologists – choose between exploration or mining focused talks

Available until 30 June 2021.
- Technology Day
- African Exploration Showcase
GSSA Events from January 2021 – November 2021

2021 will be a combination of virtual, physical and hybrid events. The GSSA reserves the right to make changes to the calendar.

**VP Meetings** - Noleen Pauls: noleen@fastmail.fm

<table>
<thead>
<tr>
<th>DATE</th>
<th>EVENT</th>
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<tbody>
<tr>
<td>9 February – 2 March (4 x ½ days) + self-study</td>
<td>Drilling Methods and Techniques in Resource Exploration</td>
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<tr>
<td>26 February</td>
<td>REI colloquium</td>
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<td>15 March</td>
<td>CPD Workshop</td>
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<td>24 March</td>
<td>Ensuring a safe and inclusive mining workplace</td>
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<td>16 April</td>
<td>Clean &amp; Green Day</td>
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<td>17 – 19 May (3 x ½ day)</td>
<td>Economic Analysis in Minerals</td>
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<td>2 June</td>
<td>Geotechnical Workshop</td>
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<td>25 June</td>
<td>Precious Metals Day</td>
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<td>July (6 x ½ day)</td>
<td>Foundations for a Geological Career</td>
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<td>25 July and 9 August</td>
<td>Geocongress 2020</td>
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<td>20 – 22 August</td>
<td>Advanced Structural Geology/Field Trip</td>
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<td>27 August</td>
<td>ESG Workshop</td>
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<tr>
<td>7 – 28 September (4 x ½ days) + self-study</td>
<td>Drilling Methods and Techniques in Resource Exploration</td>
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<td>16-17 September</td>
<td>Project Management for Geologists</td>
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<td>8 October</td>
<td>3-D Geological modelling</td>
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<td>19 October</td>
<td>CPD Workshop</td>
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<td>27 October</td>
<td>Coding/Programming 101</td>
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<td>11 November</td>
<td>Technology Day</td>
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<td>12 November</td>
<td>African Exploration Showcase</td>
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NEW MEMBERS

Ratified by Council on 28 November 2020

Andre Coetzee, Mia Koegelenberg, Samukele Morafe, Sibusisiwe Sithole
Thabang Moswane, Bertus van der Merwe, Marcia Mashigwane

NEW STUDENT MEMBERS

Blessing Afolayan, Itumeleng Matlala, Gregory McDonald, Thandiwe Nhlabathi
Mosima Semenya, Thandiwe Nhlabathi, Rezvan Pourmasoomi, Motlatjo Thoka

MEMBERSHIP SURVEY - PANDEMIC FOLLOW-UP

2020 has been a disruptive year for everyone, the GSSA included. The GSSA has been concerned about the effects of lockdown on its members, so we ran two surveys in June and October to test this. The results are virtually identical.

Survey Results

Membership queries please email
info@gssa.org.za

Join us

2021 MEMBERSHIP FEE LETTER AND SCHEDULE

Click here
ESG DAY - 4 NOVEMBER

The South African Guidelines for the Reporting of Environmental, Social and Governance Parameters Within the Solid Minerals and Oil And Gas Industries (SAMESG):

TECHNOLOGY DAY - 12 NOVEMBER

Contribute to reduction of the initial exploration expenditure
To support land use planning
TECHNOLOGY DAY - 12 NOVEMBER

Scaling up from scanning electron microscopy – micro-XRF imaging and applications

Deshentree Chetty
GSBA Technology Day
12 November 2020

AFRICAN EXPLORATION SHOWCASE - 13 NOVEMBER

Lulley Govender
Mark Burnett
Sally Nienaber
Craig Smith

African Exploration Showcase 2020
EXPLORATION - THE COPPER OPPORTUNITY

- The Northern Cape is previously a large copper producer with 14.03 million tonnes of copper produced during 1970–1980.
- The district's copper production has gradually declined and virtually ceased after 2010.
- Recent re-evaluation of exploration activity in the district:
- Omita area, Kudur Copper potential to rapidly (5 years) grow Cu (PRODUCTION: 1.80% Cu, 60,000)
- Potential to produce a premium high-value product – copper metal

MINERALIZATION

1. Mineralization occurs in locally-discretized chalcopyrite, with typical oxider and arsenic.
2. Copper sulphide: chalcopyrite, bornite, covellite, and chalcocite (50-80%)
3. Sulphides: bornite, chalcocite, and chalcopyrite (50-80%)
4. Carbonates: siderite, dolomite, and anhydrite (50-80%)
5. Cobalt distribution is erratic: occurs as corollita, and cobaltite in chalcopyrite and carbonates

EXPLORATION PROJECTS - WEST AFRICA

Key
- Birimian Volcanic Sedimentary Rocks
- SGZ-1000 m Porphyry Mine
- SGZ Gold Development Project
- SGZ Gold Exploration Project
REGISTRATION WITH

SACNASP
South African Council for Natural Scientific Professions

01 | Legal Compliance - NSP ACT (27 of 2003)

02 | Recognition as a Professional

03 | Public Confidence in You as a Scientist

04 | Marketability - Employers Require Registration

05 | Code of Conduct - Trust for Ethical Values

06 | Input to Government - SACNASP Voicing Scientists' Input at Ministerial Level

07 | Networking - Webinars, Website Networking Portal

08 | Potential Favourable Rates for Professional Indemnity Insurance

09 | Career Advertisements - Employers Advertise Vacancies on SACNASP Website and Social Media

10 | Voluntary Association Events - Network with Field of Practice Peers and Gain Vocational Career Advice

11 | Facilitates Lifelong Learning That is Crucial to a Professional's Career Path - Candidate Mentor Programme

12 | Continuing Professional Development - Online Learning

CMP and CPD

SCHOOL | HIGH SCHOOL | UNIVERSITY | EMPLOYMENT
---|---|---|---
7 | 12 | 18 | 23

Lifelong learning opportunities

Visit our website https://www.sacnasp.org.za/ for more information