



NEWSLETTER

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GSSA **SAIMM**
Geological Society of South Africa THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY

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29 & 30 SEPTEMBER

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Call for Contributions

We would love to feature your contributions – If you have news, updates, insights or articles you would like to share with the Geological community please submit your content to **lully.govender@gssa.org.za** - Your contributions will be reviewed and if approved will be included in the newsletter.



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NOLEEN PAULS

GSSA PRESIDENT

August at the GSSA: Women, Students & Strong Foundations

August is Women's Month in South Africa, and in true women's fashion, we've been busy! It's been a month of celebrating, connecting, and building bridges. Here's a look at some of the highlights.

Celebrating Women in Mining

Leading up to women's month, we were sponsors of the *2nd Annual WIMSA Symposium* in July. Our own Annegret Lombard summed it up perfectly: *"The programme promised to be insightful and inspiring, and it certainly delivered!"*

From mentorship to leadership, field camps to boardrooms, the conversations were rich and real. The standout moment? A powerful keynote by Mpumi Zikalala (CEO, Kumba Iron Ore), who shared her journey from rural KZN to the helm of one of SA's biggest mining companies. Her message was clear: women lead differently — with strength, dedication, and clarity. Time to *Step Up and Stand Out!*



Educate, Empower, Connect

This spirit of empowerment carried straight into August, where the Wits Geosciences Career Fair—hosted by RocSoc, the Geosciences Student Council and Bridge the Gap—brought together around 120 students and a wide range of industry professionals for a full day of networking and career insights.

The event showcased diverse geoscience career paths—from mining and consulting to environmental sciences and technology—with a key theme being cutting-edge applications. Many presenters were Wits alumni, underscoring the university's strong industry connections.

Students engaged with curiosity and enthusiasm, asking insightful questions about internships, bursaries, and industry trends. The atmosphere was one of optimism and professionalism, with clear interest in the GSSA and the benefits of student membership.



And speaking of students – we're thrilled to announce the launch of the GSSA Student Division. Through this, we'll be visiting universities across SA, building connections, and supporting students as they explore careers in geoscience.

To kick things off, we donated 1,600 copies of Africa's Top Geological Sites and 450 copies of Episodes – Journal of International Geoscience to universities nationwide.



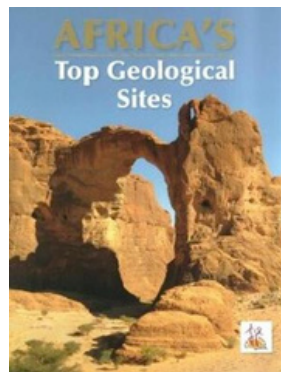
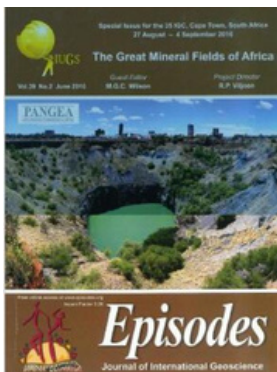
Empowering Geologists – On and Off the Field

Our popular Introduction to Drilling Course drew 183 attendees. This free online workshop covered everything from drilling basics to logging – essential know-how for students, mentees, and young professionals. Even seasoned geoscientists got a refresher.

Policy & Progress

Finally, on the policy front, we've been hard at work too. At the start of the month, we submitted our comments on the Mineral Resources Development Bill advocating for a regulatory environment that attracts investment and allows our industry – and our people – to grow.

It's been a full and rewarding month. If there's one message that ties it all together, it's this: whether in the classroom, on the field, or in the boardroom – we're stronger when we step up, stand out, and support one another.



REGISTER NOW



AFRICAN EXPLORATION SHOWCASE

12 & 13 November 2025

**Jhb Country Club
Auckland Park**

Sponsorship Opportunities ✓

Exhibition ✓

Networking ✓

Professional Development ✓

The African Exploration showcase aims to provide an opportunity for professionals in the industry to be informed about new African exploration projects and current developments. It is an ideal opportunity to learn more about deposits that could potentially add significant economic value to the continent's pipeline.

Our speakers are from major and junior mining companies, and from large consulting companies to independents, which should ensure an interesting event.

✉ info@gssa.org.za 🌐 www.gssa.org.za

AMAZON JUNGLE EXPLORATION

Senior Mine Exploration Geologist, Loni Gallant, shares a brief preview of Gold Exploration and Mining in Suriname, South America. A complex yet exciting environment within the Paleoproterozoic Guiana Shield, this region boasts geologically significant high-grade gold mineralisation hosted in multiple generations of quartz, quartz-carbonate, and quartz-carbonate-tourmaline veining. As part of earth's largest tropical rainforest, it is enveloped by extraordinary biodiversity and extreme climatic conditions. This unique convergence of geological richness and environmental intensity makes it a top-tier region - both geologically and environmentally captivating - for any geologist seeking a truly immersive field experience.



2025 GSSA EVENTS : AUGUST - NOVEMBER



9 September	Professionalism & Code of Ethics Workshop	Online Free
11 & 12 September	Data Analytics and Machine Learning for Geoscientists	Online
20 & 21 September	Structural Geology course and field trip	KZN Southbroom
11 & 12 September	Data Analytics and Machine Learning for Geoscientists	Online
29 & 30 September	SAMREC/SAMVAL Compliance and JSE Reporting Workshop / 25 th Anniversary of SAMREC	Jhb Country Club - Hybrid
1 October	AI, Drones & Satellites : Tech Skills Geoscientists need (or Get Left Behind)	Online Free
14 & 15 October	Geometallurgy Conference	Muldersdrift
21 & 22 October	Mineral Resource Mastery: Tools, Trends, and Industry Insights	Online
12 & 13 November	African Exploration Showcase	Jhb Country Club - Hybrid

DO YOU WANT TO BECOME AN ANNUAL OR EVENT SPONSOR?

More information

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**SAMREC GUIDELINE DOCUMENT FOR THE REPORTING OF EXPLORATION RESULTS,
MINERAL RESOURCES AND MINERAL RESERVES FOR INDUSTRIAL MINERALS
(SAMREC INDUSTRIAL GUIDELINES) JANUARY 2025**

Industrial Mineral deposits can be defined in several ways, e.g. as minerals used directly by industry without extraction of metals, and as non-metallic minerals and non-energy commodities amongst other definitions. A key aspect of industrial minerals is that they behave differently from metallic and energy commodities in that the economics are coupled with specification driven quality and performance (e.g. chemical, physical or electrical), recovery to saleable product, customer approval and market access, together with in situ grade.

Examples of industrial minerals include limestone (cement, lime, aggregate, dimension stone, paint/plastic/paper filler grades), kaolin (ceramic, filler grades, refractory), graphite (refractory, spherical graphite for battery anodes), lithium minerals (glass, LiOH & Li₂CO₃), brick clay, talc (filler grades and cosmetics), magnesite (refractory and agriculture), bentonite (oil drilling, foundries, pelletizing, civil engineering, wine clarification) and many others.

A frequently quoted comment regarding industrial minerals is that “Without a market an industrial mineral deposit is merely a geological curiosity. So simply put, no market demand = no mineral trade.” (O’Driscoll 2006)

The SAMREC Industrial Mineral Guidelines (“IM Guidelines”) supplements the 2016 SAMREC Code by providing guidance on methods to suit the market led nature of the industrial minerals sector. The IM Guidelines were drafted by a committee set under the auspices of the SSC and comprised geologists from industry as well as consultants. The IM Guidelines drew extensively from similar industrial mineral guidelines published by CIM (2023) and CRISCO (2019). It should be noted that Dimension Stone is separately discussed within the IM Guideline document.

The IM Guidelines highlight several industrial mineral specific drivers that materially influence the data required for both Exploration Results and Mineral Resources and Mineral Reserves in addition to geological confidence, i.e. product specification and sample tests that refer to the required specifications, market acceptance (i.e. customer test results), product grouping, product yield, logistics and pricing (both ex mine and delivered prices).

The importance of sampling and test methods is stressed, to determine both chemical and physical aspects of the deposit. Often the test methods are industry specific and not available in commercial laboratories. Metallurgical (process) test work results and potential customer tests, including bulk samples, are of prime importance.

Reference

O’Driscoll, M (2006) International Trade in Industrial Minerals. Industrial Minerals and Rocks, 7th edition, pp49-60. Society for Mining, Metallurgy and Exploration, Inc., Littleton, Colorado, USA. ISBN-13: 978-0-87334-233-8.

The banner features a dark blue background with a network of white lines and dots forming a brain shape. Inside the brain, the letters 'AI' are prominently displayed in white, with 'ARTIFICIAL INTELLIGENCE' written in smaller text below them. Various white icons representing technology, science, and industry are scattered around the brain. Binary code (0s and 1s) is visible in the background.

We welcome geoscientists to a webinar on

AI, DRONES & SATELLITES: TECH SKILLS GEOSCIENTISTS NEED (OR GET LEFT BEHIND)

FREE

-  1 OCTOBER 2025
-  ONLINE ZOOM
-  12:00 – 13:30 EDT
18:00 – 19:30 SAST
17:00-18:30 WAT

REGISTER NOW 

The webinar will be recorded and posted for later viewing

Hosted by AIPG, GSSA, WAIMM & GSZ



The Geological Society of Zimbabwe

The logo features the word 'LICHTENBURG' in an arch at the top. Below it is a large '100' with a diamond shape integrated into the '0'. The years '1926' and '2026' are on either side of the diamond. At the bottom are icons of a pickaxe and a shovel.

SAVE THE DATE

10-13 SEPTEMBER 2026

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A circular inset photograph showing a rocky, hilly landscape with sparse green vegetation under a clear blue sky.



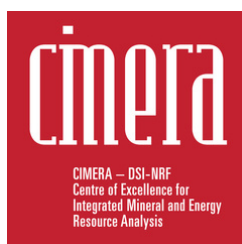
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