

Relevance of the GSSA in the Past, Present and Future

GSSA Online Talks Series

06 April 2020



CHERISH PROMOTE Prosper



The Past



The History Books

Chapter 2

Geological Society of South Africa

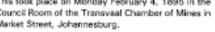
FOUNDING OF THE GEOLOGICAL SOCIETY

The discovery of gold on the Witwatersrand in 1886 caused the scientific and technical centre of gravity to shift from Kimberley to Johannesburg. With this concentration of the geological, mining and financial fraternity in the infant Johannesburg, the scene was set for the foundation of the Geological Society of South Africa.

This took place on Monday February 4, 1895 in the Council Room of the Transvaal Chamber of Mines in Market Street, Johannesburg,

Dr Hugh EXTON MD; FGS was in the chair and elected as the first President. David DRAPER FGS the midwife - was elected secretary and treasurer.

A constitution based upon that of the Geological Society of London was adopted by the Council of the Geological Society of South Africa.



FOUNDING COUNCIL

Honorary President: Lionel Phillins Honorary Vice President: Prof. Thomas Rupert Jones Honorary Vice President: Dr William Guybon Atherstone

Dr Hugh Exton

The founding Council for 1896 consisted of:

President: Vice Presidents:

Members:

Arthur Robert Sewyer and John Ballot Charles Aburrow Arthur Sackville Boucher Edward Button John Alexander Chaimers John Storey Curtis Sydney Howard Farrah A.R. Goldring Adolf Goerz Harry Dennis Griffiths John Dempler Green



Leopold Graham Edward Jones John Henry Johns Elwin Baldwin John Knox Theodore Reunert William Marshall Phillip Ebden Kemper-Voss Franklin White Cunningham Wilson-Moore Perogrine Oliver Wilson David Draper (Secretary)

TRANSACTIONS

THE GEOLOGICAL SOCIETY

OF SOUTH AFRICA.

No. 1. .

INAUGURAL ADDRESS BY THE PERSIDERT, DR. EXTON. F.G.S. (Delivered April 8th, 1895.)

Gentlemen.—At the meeting in February at which the Geological Society of South Africe was first instituted, you did me the very great honour of placing me in the chair as the first President of the newly-formed Society. I mentioned at that meeting, as some excuse for my shortcomings, that for more years I had not been directly engaged in geological work; and I, therefore, feel the greater responsibility which devolves upon me in presiding over this unusually important meeting—a meeting which I may say matks a distinct speeh in the life of the Read, and I trust I may say also, in the history of science in South Africa.

As a Society, we feel proud of the number of members, who have joined our make, not only of specialists who are in active work in the field of geolegy, and those whose duties in connection with the mining industry secure them a very practical sequelintance with the rocks and their stratification ; but also that much larger class who have neither time nor opportunity to make an elaborate study of geological phenomena, but whose appinations are to know something of the structure of the earth upon which they live i These papers which are already promized to the Society ease of fail to offer many attractions, and, I trust, many advantages also.

The Council of this Society has taken much pains in drafting a series of rules and regulations which have been amonded and accepted at the general meeting held on the 11th March. It is hoped they will be found to be of such a nature as will conduce to the well-being and prosperity of the Society. at any future time it may be cousidered necessary to revise or after these regulations. I may point out that it will be desirable to devise some means of reaching the non-resident members and of obtaining an expression of opinion from them upon the working of our rules and upon any suggested alteration.



The Founding Father

DAVID DRAPER, D.SC.

DAVID DRAPER, D.Sc.

(Read 24th February, 1930.)

By Harold S. Harger, F.G.S.

[PLATE I.]

The year 1929, just closed, was probably one of the saddest in the annals of the Geological Society of South Africa, on account of the loss of two of its most distinguished members: Dr. David Draper and Dr. P. A. Wagner. The former, as founder, might well be termed the father of the Geological Society of South Africa, as Andrew Geddes Bain, a contemporary of his younger days, has been termed the father of Geology in South Africa. Dr. Wagner, on the other hand, was one of the younger school, who had built up, by his brilliant, scientific attainments, a very high reputation throughout the geological world. It fell to the lot of Wagner to pay his last respects as a pall bearer at the funeral of Dr. Draper, and none of us thought on that occasion that our esteemed young geological confrere was destined very soon to follow his old friend to everlasting rest. Their labours have ended, and it is for us to record our appreciation of their efforts in the annals of the society they have both served with such distinction.

Harger, H.S., David Draper, Dsc. Transactions of the South African Journal of Geology, Volume 33 Number 1, Jan (1930), p. 19–30.

Historia, 63, 2, November 2018, pp 17-39

David Draper: The making of a South African geologist

Suryakanthie Chetty*

Abstract

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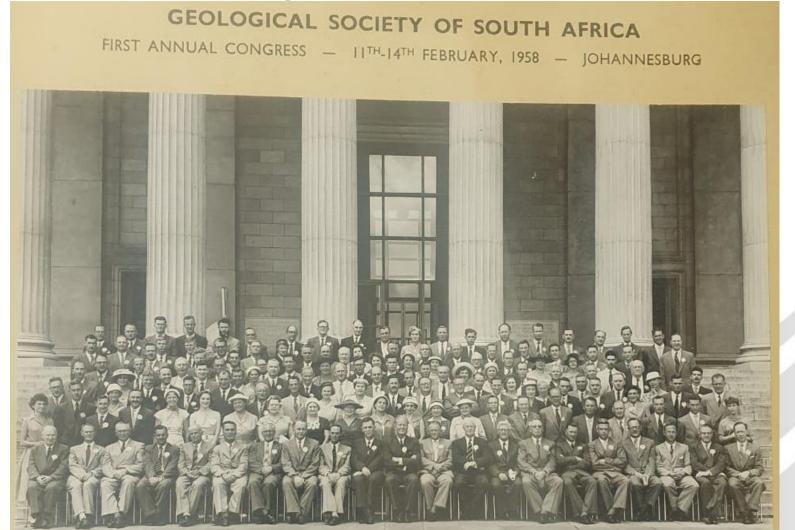
David Draper was a South African geologist and key figure in the professionalisation of geology in the late nineteenth and early twentieth centuries. His biography demonstrates the importance of geology in South African political, economic and social history. This article traces Draper's life from the mid-nineteenth century to the mineral discoveries and the South African War in the early twentieth century. It uses the figure of Draper to show the complexities and tensions in the creation of a South African identity that were themselves reflective of the political and ideological struggles of a nascent nation. It further argues that the history of geology cannot be divorced from the history of the country, mirroring the processes of colonial domination, conflict and ultimately, the creation of an independent state.

Keywords: David Draper; geology; science; 1820 settlers; South African War; Geological Society of Southern Africa; imperial history; Molengraaff.

Chetty, S. (2018). David Draper: The making of a South African geologist. Historia. 63.10.17159/2309-8392/2018/v63n2a2.



The First Geocongress







The Present



What is the GSSA?



- Established in 1895 (125 years old)
- The GSSA is a professional society with the aim of being the professional 'home' to academic, government and industry earth scientists with an interest in African geology, mining and geoheritage
- A 'Learned' <u>AND</u> a 'Professional' Society
- Stay networked to your local and global community of practice



The Historical Objectives of the GSSA



- To promote and advance the <u>study</u> of the earth sciences
- To promote the <u>best interests and</u> <u>relevance</u> of the earth sciences, the earth science professions, and earth scientists
- To promote, serve and represent the best interests of the <u>GSSA</u> <u>membership</u>
- To <u>uphold high professional and ethical</u> <u>standards</u> amongst its members for the professional and public good
- To promote cooperation and synergy with related structures and societies in Africa



Membership Profile



- Currently ~3100 members
- ~2500 members and fellows
- ~600 student members
- Professional membership is by application with all applications vetted.
- Members must abide by the constitution and code of ethics
- Membership reflects the number of earth science and geological science registered with SACNASP
- ~80 % of members employed in industry, mining in particular
- ~10% are international (outside SA)



Our Core Business





Publishing

- Scientific publications
- Networking publications

Meetings

- Scientific meetings
- Skills training
 e.g. CP Training
- Field excursions
- Networking
 - Branches and Divisions
 - Website and Newsletter
- Professional Affairs and Advocacy





GSSA Portfolios





GSSA Committees and Representation



Geological Society of South Africa

GSSA Operations



Manco and Staff



Council



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Geological Society of South Africa

Membership





Maths & Science Expo Limpopo 2017



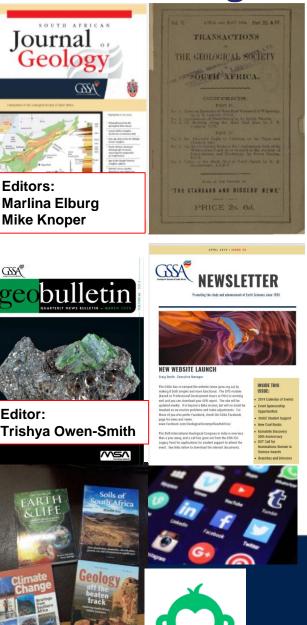
- GSSA Membership spans from high school level, through professional life right through to retirement.
- The GSSA provides 6 membership categories to accommodate all prospective candidates:
 - Junior member at high school level;
 - Student Member at university level;
 - Member at early career level;
 - Fellow at +5 years career level;
 - Affiliate Member for non earth scientists;
 - Institutional Member for companies in geoscience.
- The Membership Portfolio promotes earth sciences to the youth through career days and outreach initiatives at high school level.



Publishing and Communications

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SAJG: Peer-reviewed journal, now in it's 124th year of publication.

The Richard Viljoen Heritage Collection: The 1896 to 1999 issues of the SAJG and its precedent, the Transactions of the GSSA, are now available to all at no cost via Sabinet (www.sabinet.co.za).

Geobulletin: A quarterly news bulletin with up to date earth science news and informative articles.

Monthly GSSA e-Newsletter: Members are kept abreast of the latest developments in the geoscientific community and news about our society.

- **Social Media:** Regular updates on global news, conferences, workshops, job openings and government policy affecting membership. Follow us on **LinkedIn, Facebook** and **Instagram** (@geological_society_of_sa)
- Website: Visit www.gssa.org.za.





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Website – Corona Communication

agree with views expressed and do not accept responsibility for maccurate reporting.

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NEWS ~ PUBLICATIONS ~ CONTACT US ~ MEMBERS ~ EVENTS ~



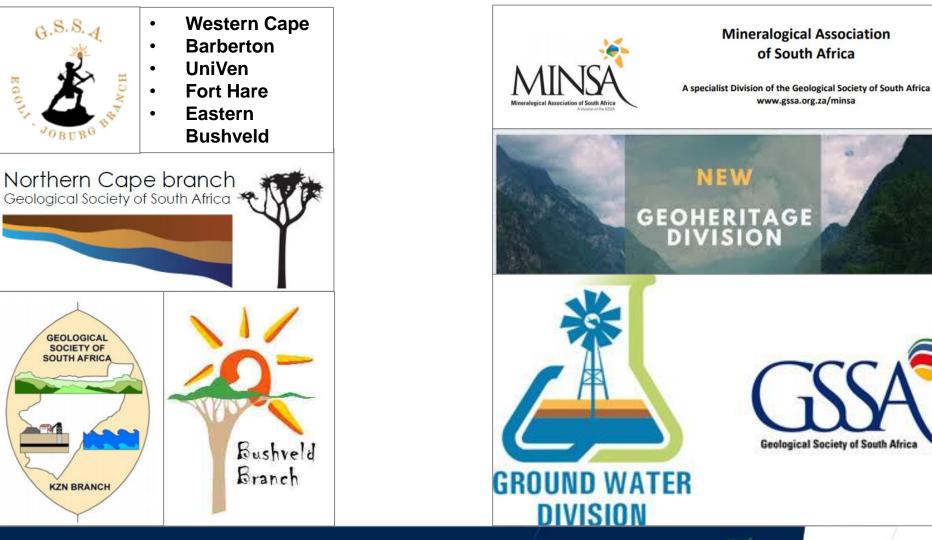


Learn more about Coronavirus here

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Branches and Divisions





REI Fund



- GSSA manages a Research Education and Investment Fund which disburses R300 to R400K annually for earth science research (student travel and research costs supported in particular)
- 1 April 2019 = 16 applications received, 12 were approved at a cost R477k.
- REI Colloquium held bi-annually
- Investments managed via an Investment Company





Role of the GSSA re Meetings and Training



VP Meetings – Noleen Pauls: info@gssa.org.za or noleen@fastmail.fm

Date	Event	Venue
19 – 21 February	Drilling Methods in Johannesburg	Mandela Mining Precinct, JHB
25 - 26 February	SAMCODES Conference	Birchwood Hotel, JHB
18 March	SAMOG Code in JHB	Mandela Mining Precinct, JHB
15 April	CPD Workshop	Mandela Mining Precinct, JHB
30 April	Bushveld PGE Day	hove Conference Centre, JHB
21 May	Hydrothermal and alteration systems short-course (Glenhove Conference Centre, JHB
19 June	Geoskills "pop-up" event	твс
29 June – 1 July	Geocogress 20	Stellenbosch
16 July	Mineral Rights in South n A at the current state	ЭНВ
16 July		Johannesburg Country Club Auckland Park, JHB
14 - 16 August	Adva structural geology field trip	KZN
20 August	3-D Geological modelling	Glenhove Conference Centre, JHB
Septer er	Diamond Conference	Kimberley
16 - 18 Sep er	V Drilling Methods	Avianto, Muldersdrift
8 October	CPD Workshop	Mandela Mining Precinct, JHB
16 October	REI colloquium	ЭНВ
22 October	Project Management for geologists	ЈНВ
6 November	Geoskills "pop-up" event	твс
11 November	Fellows Dinner	Johannesburg Country Club Woodmead
12 -13 November	Technology Day African Exploration Showcase	Glenhove Conference Centre, JHB

First Competent Person Training Course

28th July 2014

Coffey senior principal Ken Lomberg was among the presenters at the recent Competent Person Training Course for the South African Code for Reporting of Exploration Results, Mineral Resources and Mineral Reserves (SAMREC).

Ken is Chairman of the SAMREC Working Group and presented with past Chairman Ed Swindell and the South African Council for Natural Scientific Professions' Rolf Bekker.

About 50 people attended the event in Johannesburg, with most being geologists and mining engineers.

The course addressed the background and historical context of SAMREC, its relationship with other codes used by the industry and the role of the competent person.



Ken Lomberg (far left) at the event

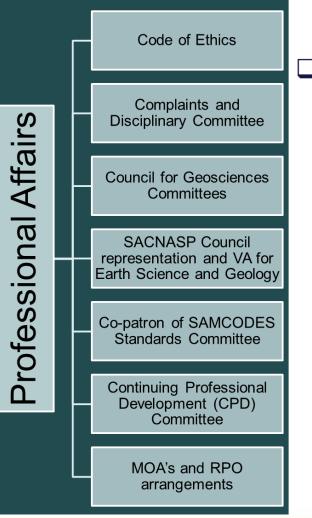
The day concluded with a presentation on an update to the code currently being implemented by the SAMREC Working Group.



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Geological Society of South Africa

Professional Affairs



The Portfolio serves to advance, promote and protect the professional status of GSSA members through:

- Identifying the professional needs of members
- Ensuring that appropriate educational, registration, CPD, professional indemnity insurance and reciprocity needs are addressed;
- Supports the concept and training of Competent Persons



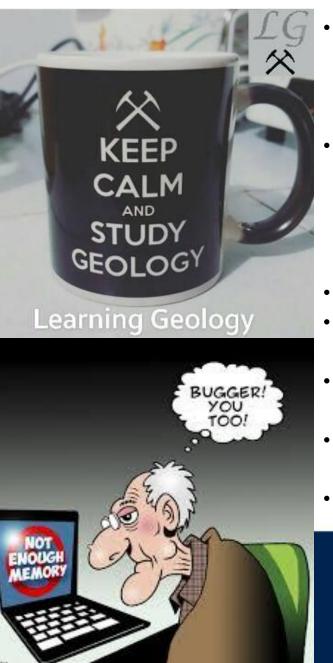
The 3 Pillars of Professionalism in Geoscience





Continuing Professional Development





- Members shall continue their professional development throughout their careers and shall actively assist and encourage those under their direction to advance their knowledge and experience (Code of Ethics, GSSA)
- Members shall not take on the functions of an expert in fields other than their own or accept professional obligations that they are not competent to discharge (Code of Ethics, GSSA)
- Competence vs Qualification
- Competence an ever changing goal and career long pursuit
- GSSA and SACNASP MOA to coordinate and rationalise CPD systems is in place
- GSSA CPD system currently a matter of voluntary log keeping
- Mandatory system is up and running





The Future of ...



Relevance – the Next 125 Years





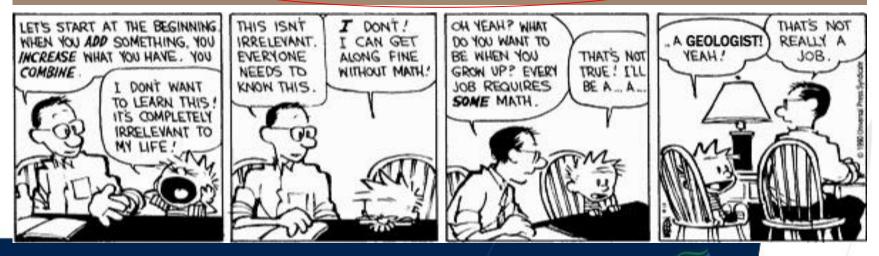




GEOCONGRESS 2020 2Postponed

Stellenbosch - Western Cape

The next 125 years of Earth Sciences





Remote Working and Connectedness

Government: work from home Geologists:







The Landscape

Economic – Sociopolitical - Scientific



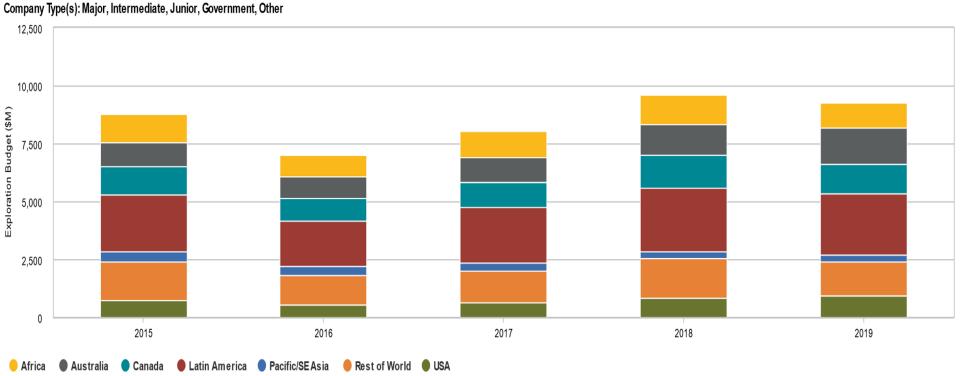
The Exploration Landscape – non-ferrous metals



Global Exploration Budget - Location

Exploration Budget Trends

Stage(s): Grassroots, Late Stage & Feasibility, Minesite



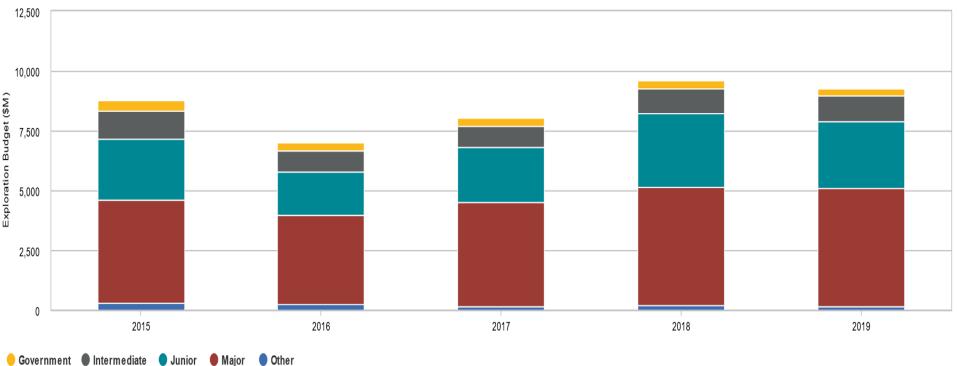
Source: S&P Global



Global Exploration Budget – Company Type

Exploration Budget Trends

Location(s): Africa, Australia, Canada, Latin America, Pacific/SE Asia, Rest of World, USA Stage(s): Grassroots, Late Stage & Feasibility, Minesite



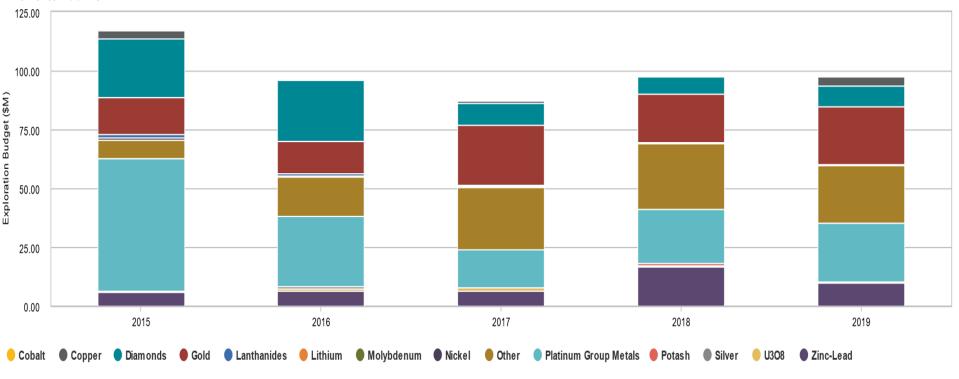
Source: S&P Global



Local Exploration Budgets

Exploration Budget Trends

Stage(s): Grassroots, Late Stage & Feasibility, Minesite Company Types(s): Major, Intermediate, Junior, Government, Other

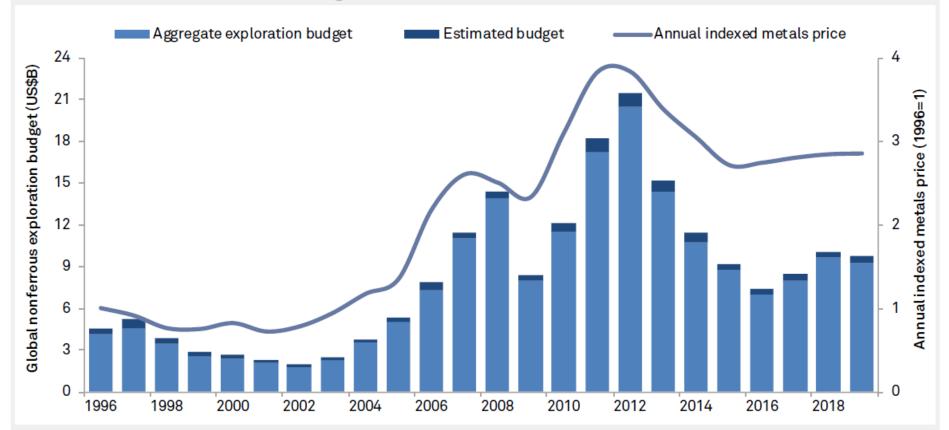


Source: S&P Global



Global Exploration Budget & Metals Price index

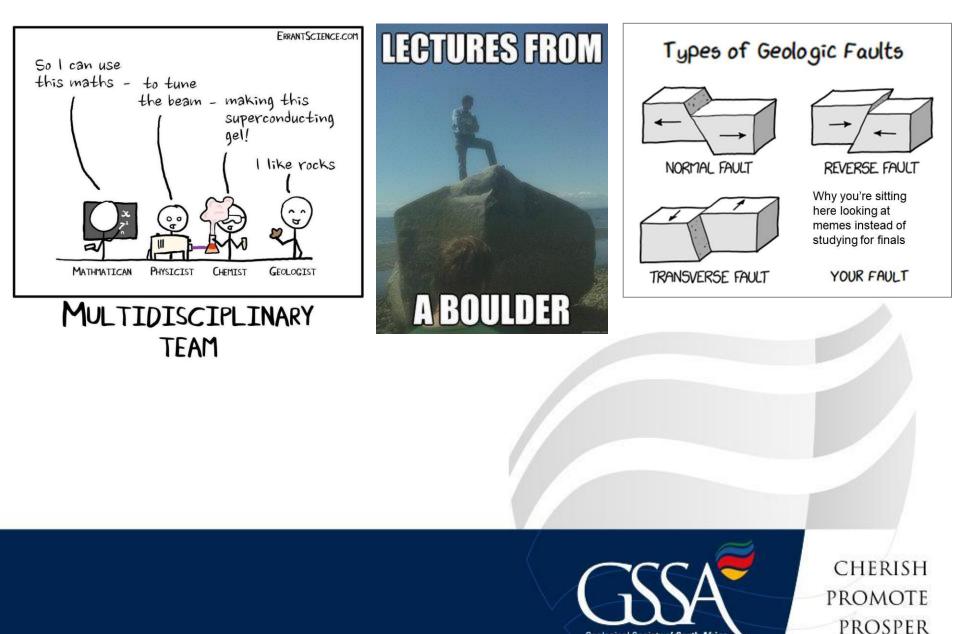
Nonferrous exploration budgets vs. indexed metals price, 1996-2019



Data as of Oct. 9, 2019. Source: S&P Global Market Intelligence



New Age Geologist



Geological Society of South Africa

Issues and Opportunities

- The world is changing fast and is suffering an economic crisis never before experienced – but earth scientists are more crucial to our society than ever before. And they will be more responsible to society than ever before.
- Mineral resource requirements will continue to increase in the long term, as will the need for sustainable development, more R&D, education of the public, and environmental sustainability.
- The Community of Practice will become more complex and multidisciplinary in response to long term societal needs; the GSSA will need to support its members in their professional endeavours.







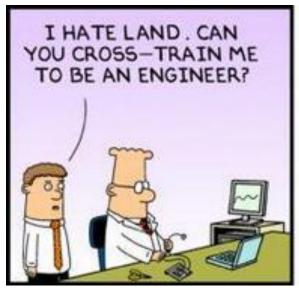
The Future of...

- Work
- Conferencing, webinars, AGM
- Communication
- e-Learning
- Journals and Geobulletin
- CPD
- Surveys
- Mentorship
- Geoheritage and Public Series, Geology Museum
- Branches and Divisions
- SAMCODES
- Regional societies synergies
- Geocongress at SUN and 125th Celebration





The End



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