



23rd Colloquium of African Geology

08-14 January 2011

CAG23 | University of Johannesburg | South Africa

<http://www.cag23.co.za>



Theme: "Together in Africa for a Leading Role in Geoscience"

1st CIRCULAR



UNIVERSITY
OF
JOHANNESBURG



ABOUT CAG

The "**Colloquium of African Geology**" (**CAG**) is a major biannual meeting organized under the auspices of the Geological Society of Africa (GSAf). This event, which can attract up to 600 delegates worldwide, provides ample opportunities to present advances and unsolved problems in geoscience topics related to Africa on a continental-scale. For several years since this colloquium was launched in 1965, it was hosted by European countries (17 times) and only few times (5 times) by African countries (Swaziland, Zimbabwe, Morocco, Mozambique and Tunisia).

Considering the fascinating and the unique geological features of Africa, we believe that it is necessary to host this prestigious event as many times as possible on the African continent and bring **Geologists** to the "**Home of Geology**".

Based on this, South Africa presented a bid during the 22nd Colloquium of African Geology (CAG22) held in Tunisia, on the 6th of November 2008 to host the next CAG. The General Assembly of the Geological Society of Africa has unanimously agreed to allocate the CAG23 to South Africa.

The **CAG23** will be organized by the **University of Johannesburg** in cooperation with the University of the Witwatersrand, the Geological Society of South Africa (GSSA), the Mineralogical Association of South Africa (MINSa, a division of the GSSA) and the Nuclear Energy Corporation of South Africa (NECSA) under the auspices of the **Geological Society of Africa (GSAf)**.



VENUE

The CAG23 will be hosted by the University of Johannesburg. The scientific sessions, short courses and workshops will take place at the Auckland Park Kingsway Campus, while the opening ceremony will take place at the "Soweto Campus", one of the four campuses of the University of Johannesburg.

"Together in Africa for a Leading Role in Geoscience"

GENERAL PROGRAM

The provisional program is as follows:

08 January 2011 **Arrival, Registration**

10-14 January 2011 **Scientific Program**

09 January 2011 **Opening Ceremony**

15-21 January 2011 **Excursions**

CALL FOR PAPERS

Africa is gifted by nature as a foremost continent in terms of its mineral and natural resources. However, it is our responsibility to ensure that the Geosciences in Africa can play a part commensurate with this position, hence the Colloquium theme "*Together in Africa for a leading role in Geosciences*". By understanding the geological history and geodynamic evolution of the African continent, we will contribute towards a better and deeper insight into the nature and occurrence of a wide range of natural resources (groundwater, energy resources, mineral resources, etc.) that are essential not only to mankind but also to modern society, its social well-being and the global economy. In addition, the study of African geology enhances our understanding of the mitigation of a large range of natural hazards that affect society: including seismic and seismically induced events (e.g. tsunamis), the long term health risks posed by an excess or deficit of certain trace elements in soils and water, such as radon (radiological hazard), arsenic and fluorine (chemical toxicity), droughts, floods, and desertification.

Scientific contributions in all these aspects of geosciences are very welcome with particular emphasis on new methodologies and applications to the benefit of the society. Although the event is called "*Colloquium of African Geology*", we will do our best to offer a scientific program that is broad enough to welcome any participation that has direct or indirect impact on African geology. Furthermore several special sessions are also planned, including a memorial symposium to honour Professor Russell Black, the founder of the Geological Society of Africa (GSAf) and a tribute to Professor Nic Beukes (UJ). Papers presented during these sessions may be published in international journals (e.g. Journal of African Earth Sciences and others). Deadline for these contributions will be announced in the 2nd circular.

SCIENTIFIC PROGRAM

The provisional program is as follows:

SCIENTIFIC SESSIONS

- SESSION S1 (*Special*) The nature and significance of the Pan-African orogeny and the relationships of alkaline ring complexes to orogenies (Memorial Symposium in Honour of Prof Rusell Black)
- SESSION S2 (*Special*) Palaeontology, anthropology, paleoclimatology and human evolution in Africa
- SESSION S3 (*Special*) Geodynamics of Africa and contiguous parts of Gondwana
- S3.1 Archean to Paleoproterozoic crustal evolution and continental growth
 - S3.2 Greenstones belts and early life
 - S3.3 TTG and Granitoids
 - S3.4 Layered mafic intrusions, and the enduring enigma of the Bushveld complex
 - S3.5 Mesoproterozoic orogenic cycles, Pan-African fold belts in Africa and contiguous parts of Gondwana
 - S3.6. Metamorphism and metamorphic processes, crustal melting, and the mobile belts of Africa and contiguous parts of Gondwana
 - S3.7 African meteorites and impact craters
- SESSION S4 (*Special*) Post-Gondwana geodynamics of Africa
- S4.1 The East African Rift: tectonics, volcanism, geophysics
 - S4.2 Cenozoic alkaline provinces of western and southern Africa
 - S4.3 Kimberlite magmatism in Africa
 - S4.4 The Kalahari epeirogeny, sedimentary basins and geomorphic evolution
 - S4.5 Neotectonics: intraplate seismicity, Quaternary-active faults, stress field
- SESSION S5 (*Special*) Basin analysis, stratigraphy and Kaapval Craton (A tribute to Prof N Beukes)
- SESSION S6 (*Special*) 'Africa Alive Corridors; towards the geological-biological-cultural autobiography of Earth's key continent'
- SESSION S7 (*Special*) Medical geology with particular reference to Africa



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- SESSION S8 Earth Resources and Sustainable Development of Africa
- S8.1 Mineral resources: PGE-Cr-V, gemstones, diamond, industrial minerals, building materials and small-scale mining
 - S8.2 Energy Resources: geothermal, petroleum, hydropower, coal and uranium resources
 - S8.3 Geohydrology: groundwater resources, water chemistry
- SESSION S9 Geophysics and Tectonophysics
- SESSION S10 Environmental Geology and Geohazards
- S10.1 Natural Hazards vs. Man-made Hazards
- SESSION S11 Geoheritage in Africa
- SESSION S12 Recent advances in geochemistry and isotope geology
- SESSION S13 Recent advances in basic and applied mineralogy
- SESSION S14 Open session

WORKSHOPS

- WS1 Paleo-Proterozoic Mineralisation Research Group (Prof N Beukes, University of Johannesburg)
- WS2 Platreef workshop (Prof J Kinnaird, University of the Witwatersrand)
- WS3 South Africa Analytical Facilities
- WS4 Earth Science Education in Africa: A UNESCO Initiative
- WS5 From books to bytes – how to make the most of the services and sources offered by your library (Dr A van Vuren and Mrs P Kovatcheva, Library and Information Centre, University of Johannesburg)
- WS6 Geoscientific information infrastructures in Africa – example of the African-European Georesources Observation System (AEGOS) (Dr M Urvois, BRGM, France)

SHORT COURSES

- SC1 Fluid-inclusions (Profs J Touret, France and J-M Huizenga, North-West University)
- SC2 The paleomagician's bag of tricks revealed (Dr M de Kock, University of Johannesburg)
- SC3 Fluid-rock interaction and mineralisation (Prof N Oliver, Australia)
- SC4 Borehole imaging (Dr A Saadallah, Norway)
- SC5 Magmatic Ni-Cu-PGE deposits of Africa: genesis and exploration (Prof WD Maier, Finland)

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SC6 Dimension Stone (Dr Periera, Salamanca University, Spain)

SC7 XRD analytical techniques: (Dr S Verryn, MINSA/Private Consultant)

EXCURSIONS

All field excursions will run after the colloquium. One day visits of sites to interest in the Johannesburg region are planned during mid-colloquium.

Long field excursions

- Limpopo Belt
- The Bushveld Igneous Complex (BIC)
- Barberton Mountain Land
- The Witwatersrand Basin

One day field excursions

- The Vredefort Dome
- The Cradle of Humankind
- Pilansburg Alkaline Complex
- The Geology of Johannesburg
- Tswaing Meteorite Crater

In addition, a number of mine visits are being planned, including, Witbank coal fields, diamond, and Wits gold, etc.

STUDENTS AWARDS

There will be several student's prizes awarded by the following organizations:

- RMCA (Royal Museum for Central Africa, Belgium)
- CIFEG (Centre International pour la Formation et les Echanges en Géosciences, France)
- GSAf (Geological Society of Africa)
- GSSA (Geological Society of South Africa)
- MINSA (Mineralogical Association of South Africa)

SOCIAL PROGRAM

South Africa is one of the most diverse and captivating countries in the world. Exotic combinations of landscapes, fauna and flora, wildlife, climate, people, history and culture offer a unique and exciting experience. The Johannesburg and Pretoria area host some of the most exciting attractions, including:

- Pretoria National Zoological Garden

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- The Lion and Rhino Park
- De Wildt Cheetah Research Station
- Krugersdorp Nature Reserve where you can see up to 30 different mammal species
- Leeuwkloof Valley Conservancy, where you can see a range of wild animals such as: kudu, zebra, impala, wildebeest, eland, waterbuck, duiker, etc
- The Pilanesburg Game Reserve, home of the big five (lion, leopard, elephant, buffalo and rhino)
- The Cradle of Humankind, Gauteng Province, South Africa
- Easy flight access to the game parks of South Africa, Botswana and Namibia

ACCOMMODATION

The University of Witwatersrand (located 3 km from the University of Johannesburg, venue of the CAG23), is equipped with several student's residences, which vary in size and layout. The residences offer a very good quality accommodation at very reasonable cost. The residence is equipped with spacious rooms, 24-hour-security, parking, computer room with internet connection and public telephones. For further information, please visit the website at:

<http://web.wits.ac.za/Prospective/StudentServices/Accommodation/DescriptionOfResidences/>

A shuttle bus transport service will be provided between the two locations for the duration of the event for the convenience of the delegates.

In addition, several top quality hotels and guests houses are located in the neighbourhood of the University of Johannesburg, Auckland Park and Melville.

IMPORTANT DATES

31/12/2009	Expression of interest
30/06/2010	Deadline for early registration and abstracts submission
30/09/2010	Deadline for late registration and abstracts submission

LANGUAGES

Both English and French will be used during the CAG23 (abstracts and presentations).



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CONTACTS & INFORMATION

Further information will be published in the 2nd circular and the website of the CAG23 at www.cag23.co.za.

Enquiries can be addressed at the following email addresses:
cag23@uj.ac.za ; hmouri@uj.ac.za

LOCAL ORGANISING COMMITTEE

Dr H Mouri (UJ) (Chair), Prof S Master (VC, Wits), Dr P Nex (VC, GSSA),
and Dr J Richards (MINSAs) (Secretary).

Members: Drs M de Kock, M Knoper, HM Rajesh, H van Niekerk, B Smit, and
Prof F Viljoen, J Kramers, B Cairncross (UJ), Prof L Ashwal (Wits),
Drs L Ainslie and M Andreoli (NECSA), Prof JM Huizenga (NWU),
Dr C Smith (GSSA), Dr S Verryn (MINSAs/Private consultant),
and Prof S Muhongo (ICSU).

Media Representative: Mrs A Frense (SABA-SABC).



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