



















8th SGA-IUGS-SEG-UNESCO Short Course on African Metallogeny

9 – 13 October 2023, Johannesburg, South Africa

2nd Flyer: Provisional programme and final call for registration

The organizing committee has put together a detailed lecture, social and field programme. The provisional programme is available. Delegates are requested to register and pay to confirm their attendance.



(SGA); DSI-NRF CIMERA (Centre of Excellence for Integrated

Mineral and Energy Resource Analysis); UNESCO; Society of

Economic Geologists; IUGS-RFG.

The role of Mineral Wealth in the Energy Transition – Southern Africa

This short course will address the broader context of the achievability of the energy transition by considering the available mineral resources in southern Africa and unpacking the role that southern Africa can play. New concepts and methodologies for sustainable and energy-efficient mining and ore processing will be presented. We will visit mines actively involved in broadening their energy mix by the rapid deployment of cleaner, renewable energy.

The energy transition frequently makes news headlines and dinner party conversations. But does society really understand the mineral requirements to meet the ambitious targets set by politicians?

Southern Africa is heavily dependent on fossil fuels, specifically coal, for its primary energy requirements.

Southern Africa also hosts a multitude of mineral commodities required for the energy transition, including vanadium, PGE's, manganese, copper, cobalt, CRMs, etc. As another driver, southern Africa is challenged by frequent electricity outages, which is causing many industries to speed up the expansion of their energy-mix portfolios. Wind, solar, geothermal, hydropower, tidal and biomass all potentially have a role to play.

Registration Fees (€)

LECTURES:	
Students	200 €
Academia/government/parastatal	500 €
Industry	900 €
Online participation	100 €
FIELDTRIPS (all inclusive):	
Students	200 €
Academia/government/parastatal	400 €
Industry	600€
<u> </u>	

Banking details

In Southern Africa:

Bank name: First National Bank Account Number: 62615873149 Branch Name: MAIN STREET 051 Branch Code: 251705 Swift Code: FIRNZAJJ REF: 05.05.079991.20.16700.0

Outside Southern Africa:

Bank name: Credit Suisse

Address: Postfach 500, CH-8070 Zurich, SWITZERLAND

Account holder: SGA

IBAN (International bank account number): CH4604835181963192000 BIC (Bank identification code):

CRESCHZZ80A

Registration

The deadline for registration is 15 September 2023, and the deadline for online registration is 2 October 2023.

Registration link: https://docs. google.com/forms/d/12oxeHKNfz8s_ d3LOcJuACfHgKA5ujYGWOdPMza79XqI/ viewform?edit_requested=true

Contact information

General information:

Beate Orberger

beate.orberger@catura.eu

Registration enquiries:

Khanya Matiwane

cimera@uj.ac.za

General enquiries related to UNESCO:

Kombada Mpohjeni

k.mhopjeni@unesco.org























8th SGA-IUGS-SEG-UNESCO Short Course on African Metallogeny

The role of Mineral Wealth in the Energy Transition – Southern Africa

Provisional Lecture Programme – 9 to 11 October 2023, JBS Park, University of Johannesburg

DSI-NRF CIMERA Denver (USA)	MONDAY 9 OCTOBER 2023 ON – JBS Foyer, JBS Park, Kinsgway – Bring ID/passport for access. Opening ceremony
DSI-NRF CIMERA	
DSI-NRF CIMERA	
Denver (USA)	, opening ceremony
	Keynote: Materials required for the energy transition: global perspective
Discussion	Panel Q&A
TEA	
DSI-NRF CIMERA (South Africa)	Energy transition in southern Africa
Shango Solutions (South Africa)	Mineral commodities of southern Africa: review of resource and reserves, specific focus on minerals required for the energy transition
SATARLA (United Kingdom)	Environmental social governance (ESG) in the context of the low carbon economy: what does it mean?
Discussion	Panel Q&A
LUNCH	
CSIR (South Africa)	Placing the South African mining sector in the context of a circular economy transition
University of the Witwatersrand (South Africa)	Advances in exploration geophysics and role in the energy transition
African Development Bank Group	Strengthening Africa's role in the battery and electric vehicle value chain
Discussion	Panel Q&A
BREAK	
Geological Survey (Senegal)	Mineral resources in West-Africa: potentialities and opportunities for energy transition
Base Titanium (Kenya)	Energy Transition in East Africa: Opportunities for the Mining Industry
Discussion	Panel Q&A
	TUESDAY 10 OCTOBER 2023
DECISTRATIO	ON – JBS Foyer, JBS Park, Kinsgway – Bring ID/passport for access.
REGISTRATIO	Welcome and Announcements
DMIT (Australia)	
	Use of mine wastes in the energy transition Titanium dioxide- and Aluminium production residues: Important resources for Scandium, Gallium, Vanadium and Niobium
	The development minerals and materials of development
	Panel Q&A
	r allet QwA
· · -	Critical minerals for the energy transition: why critical minerals are different and why they are not
	REE in permanent magnets: from source to use
	PGE and their role in clean energy
	Panel Q&A
	, sucception (control of the control
	Extraction of Li, Cu, Co, Mn, phosphates for the energy transition
	Manganese and South Africa – A match made in history, a relationship for the future
	The need for graphite in the energy transition and occurrence in Africa
	Panel Q&A
BREAK	
	Vanadium, uses now and in the future
Botswana Institute for Technology Research and	Mineral Beneficiation: Towards Value Addition to the Mining Industry in Botswana
` ;	Panel Q&A
	WEDNESDAY 11 OCTOBER 2023
DECICED ATIC	
REGISTRATIO	ON – JBS Foyer, JBS Park, Kinsgway – Bring ID/passport for access. Welcome and Announcements
Coniti Canan (Carath Africa)	
	Coal company and the energy transistion
	Geothermal energy and its potential role in the energy supply of southern Africa
	Artisanal and Small Scale Mining in Africa and its Potential Role in the Energy Transition
	Panel Q&A
	The UNI Sustainable Development Coals: Driver and Beneficiary of a Just Foorsy Transition
Cardiff University (United Kingdom) Ministry (Namibia)	The UN Sustainable Development Goals: Driver and Beneficiary of a Just Energy Transition' Repurposing Thermal Power Plants from Coal to Nuclear. A case for SMRs or Traditional Reactors
	I I A BURGA PIRA I BARMA I DAUGA DIA BARM CARI BA MURIAGA A ASSA ESA CAIRA SA TASAÉLESA I RASAESASA
	Discussion LUNCH CSIR (South Africa) University of the Witwatersrand (South Africa) African Development Bank Group Discussion BREAK Geological Survey (Senegal) Base Titanium (Kenya) Discussion REGISTRATIO RMIT (Australia) Géosciences Conseils (France) University of Queensland (Australia) Discussion TEA British Geological Survey (United Kingdom) Rhodes University (South Africa) University of the Witwatersrand (South Africa) Discussion LUNCH Mintek (South Africa) University of Johannesburg (South Africa) Sustainability for NextSource Materials Inc (global) Discussion BREAK Bushveld Energy (South Africa) Botswana Institute for Technology Research and Innovation (Botswana) Discussion REGISTRATIO Seriti Green (South Africa) Council for Geoscience (South Africa) Imbokodo Mining Services (South Africa) Discussion TEA

Provisional Field Programme

DATE	PROGRAM ITEM				
FIELD EXCURSION 1a: Wits Mining Institute ADVANCES IN MINING TECHNOLOGY FOR THE LOW CARBON ECONOMY (max 60 people)					
	Arrival at the Wits Mining Institute (WMI)				
	Presentation by Prof Glen Nwaila WMI Director, Chamber of Mines				
	Lunch & visits (Divide into 2 groups)				
er	Group 1: Lunch (20 mins)				
tob	Group 1: Digimine (15 mins)				
ŏ	Group 1: Simulated tunnel visit (40 mins)				
7	Group 2: Simulated tunnel visit (40 mins)				
sday	Group 2: Lunch (20 mins)				
Wednesday 11 October	Group 2: Digimine (15 mins)				
Wec	Depart WMI				
	TBC				
	TBC				
	Transfer back to hotel / JBS Park				
	End of day				
	FIELD EXCURSION 2:				
	Visits to mines				
	(max 40 people) Depart hotel for JBS Park				
ь	-				
tob	Depart from JBS Park for Brits: Vanadium Mine Mine visit				
ŏ	Lunch				
Thursday 12 October	Transfer to Polokwane				
sday	Arrival at hotel (The Ranch, Polokwane)				
Ĕ	R&R				
F	Braai dinner				
	Breakfast and check out				
ope	Depart for Mogalakwena Mine				
Octo	Visit Mogalakwena				
13 (Lunch				
Friday 13 October	Depart for JHB				
Η̈́	Arrival at JBS Park & completion of the field excursions				

























Provisional Social Programme

DATE	TIME	THEME	PROGRAMME ITEM
Sunday 8 Oct	Arrival in JHB		
	17:00	Shuttle	Shuttle from hotel to venue UJ JBS Park, Kingsway (max 5 min car ride from hotel). Please bring ID / passport for access.
	17:00 – 18:00	Registration	JBS Park Foyer.
	18:00 – 20:00	Ice-breaker	Ice-breaker party, welcome reception at the University of Johannesburg JBS Park. African traditional group performance.
	20:00	Shuttle	Back to hotel.
Monday 9 Oct	08:30	Shuttle	Shuttle from hotel to venue UJ JBS Park, Kingsway (Max 5 min car ride from hotel). Please bring ID / passport for access.
	18:00	Shuttle	To short course dinner (venue tbc).
	18:00 – 20:30	Shuttle	Back to hotel.
Tuesday 10 Oct	08:45	Shuttle	Shuttle from hotel to venue UJ JBS Park, Kingsway (Max 5 min car ride from hotel). Please bring ID / passport for access.
	18:00 – 20:00	Shuttle	Geoquiz or panel disucssion evening?
Wednesday 11 Oct	08:00	Shuttle	Shuttle from hotel to venue UJ JBS Park, Kingsway (Max 5 min car ride from hotel). Please bring ID / passport for access.



Travel and Accommodation

Many airlines fly directly to Johannesburg. *Uber* is recommended for ground transport.

For fieldtrips, the accommodation, transport and meals are included in the proposed price. Many types of accommodation are available around the University of Johannesburg.

Visa Requirements

Letters of invitation will be sent to preregistered delegates on request.

Number of participants

The lecture sessions can accommodate up to 80 people in person. The field excursion may be limited to 40 people, depending on site-access requirements.

Target Audience

Geoscience students and early-career professionals with an interest in mineral deposits and the energy transition are encouraged to attend. There will be ample opportunity for networking with specialists in this field and industry partners. Speakers will include international experts from academia and industry.

Language

The workshop will be held English.

Organizing Committee

Nicola Wagner

Director: DSI-NRF CIMERA, University of Johannesburg, South Africa

Judith Kinnaird

Co-Director: DSI-NRF CIMERA, University of the Witwatersrand, South Africa

Lizzie Tau

Manager: DSI-NRF CIMERA, University of Johannesburg, South Africa

Khanya Matiwane

Events and Marketing Coordinator, DSI-NRF CIMERA, University of Johannesburg, South Africa

Marlina Elburg

University of Johannesburg, South Africa

Russell Bailie

University of the Western Cape, South Africa

Beate Orberger

SGA Councilor, UPS, Catura Geoprojects, France

Ismahene Chaouche

SGA Metallogeny Short Course Co-coordinator, UTHB, Algeria

Filadelphia Mbingeneeko

Vice-President of SGA sub-Saharan Africa, Geological Survey, Windhoek, Namibia

Edmund Nickless

IUGS Chair: Resourcing Future Generations Initiative, United Kingdom

Kombada Mpohjeni

UNESCO

Samba Rokhaya, Malick Faye and Doro Niang

Geological Survey of Senegal