



You are cordially invited to the  
DSI-NRF CIMERA Annual  
**COLLOQUIUM**

DATE: 7-8 November 2019

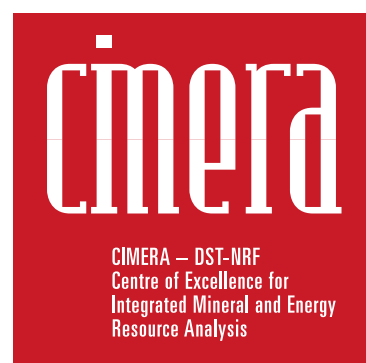
VENUE: School of Tourism and Hospitality (STH)  
University of Johannesburg  
Auckland Park Bunting Road Campus

The colloquium is free of charge but registration is required.

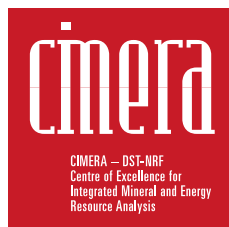
Please register by 31 October 2019 for catering purposes.  
(Draft programme and registration form attached.)

Parking with access control available at venue.

Please contact Viwe Koti on 011 559 4728  
with any enquiries.



UNIVERSITY OF THE  
WITWATERSRAND,  
JOHANNESBURG



# DSI-NRF CIMERA ANNUAL COLLOQUIUM

7-8 November 2019

School of Tourism and Hospitality, Auckland Park Bunting Road Campus, University of Johannesburg

## (Draft) PROGRAMME



UNIVERSITY OF THE WITWATERSRAND  
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University of Venda



UNIVERSITY OF THE WESTERN CAPE

### DAY 1: THURSDAY 7 NOVEMBER

08h00-08h50	REGISTRATION & TEA	
08h50-09h00	NJW	WELCOME
TIME	PRESENTER	TOPIC
09h00-09h20	Godfrey Chagodah (UJ)	Li-Cs-Ta pegmatites and gem quality emerald mineralization along the southern margin of the Zimbabwe Craton.
09h20-09h40	Phumelele Mashele (Wits)	The geology of selected sites along the northern margin of the Barberton Greenstone Belt.
09h40-10h00	Dora Paprika (UJ)	Alteration patterns in the Syferfontein Formation, Dominion Group.
10h00-10h40	<b>KEY NOTE SPEAKER:</b> <b>Henk Langenhoven</b> Chief Economist Mineral Council	<b>The Economics of Mining</b>
10h40-11h00	TEA	
11h00-11h20	Lebogang Sehoole (Wits)	Application of 3D seismics to enhance mapping of potholes in the western Bushveld Complex, South Africa.
11h20-11h40	Ben Hayes (UJ)	Trace element evidence for melt percolation and crystal-melt disequilibrium in the UG2 anorthosites in the Bushveld Complex.
11h40-12h00	Grant Bybee (Wits)	Archean sediment contamination in the plume source of the Bushveld Magmatic Province.
12h00-12h20	Siyasanga Dyan (RU)	Constraining the role carbonate assimilation has on the stability of Cr-spinel of the Bushveld Northern Limb Chromite: A case of the Upper Critical Zone (Flatreef).
12h20-12h40	Cole Kingsbury (UP)	U-Pb geochronology of the NW-trending Cedarberg dyke swarm: Karoo, or Parana-Etendeka?
12h40-13h30	FINGER LUNCH	
13h30-13h50	Fiona Clark (UCT)	New constraints on the Mesozoic thermal history of the Kaapvaal Craton and surrounding lithosphere from REE-based thermobarometry.
13h50-14h10	Michael Westgate (Wits)	The value of reprocessing legacy seismic reflection data: Example from the western Kaapvaal Craton, South Africa.
14h30-14h50	Graham Brown (UJ)	A geochemical and petrographic characterisation of the iron formations of the Hotazel Formation, Kalahari Manganese Field, South Africa.
14h50-15h20	Poster presentations	Single slide per presenter to introduce poster (20 posters).
15h20-16h00	TEA & POSTER SESSION	
16h00-16h20	Siyanda Mngadi (Wits)	Effect of gouge generation on rupture propagation along underground brittle shear fractures.
16h20-16h40	Kirsten Youlton (Wits)	A comparison of thiourea and chloride-hypochlorite leaching techniques on South African ores.

DISCLAIMER: This event may be photographed and video recorded for marketing, social media and media purposes. By attending this event, you grant DSI-NRF CIMERA, University of Johannesburg and the University of the Witwatersrand permission to use and publish any recorded material.

# CIMERA

CIMERA – DST-NRF  
Centre of Excellence for  
Integrated Mineral and Energy  
Resource Analysis



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Heinrich Institute Freiberg for Resource Technology



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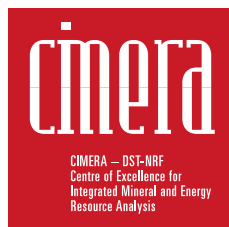
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## PROGRAMME (Cont.)

16h40-17h00	Stelvio Sidre (UCT)	The stratigraphy and structural controls on copper-gold mineralisation at Cassenha Hill, South Western Angola.
17h00-17h20	Christoph Ballouard (UJ)	Magmatic-hydrothermal evolution of rare metal pegmatites from the Mesoproterozoic Orange River pegmatite belt (Namaqualand, South Africa).
17h20-17h40	Thomas Jones (Wits)	Mid-crustal shear zones and uranium mineralisation in the Damara Orogenic Belt.
17h40-20h30	Networking Function for DSI-NRF CIMERA collaborators	

### DAY 2: FRIDAY 8 NOVEMBER

08h00-08h20	REGISTRATION & TEA	
08h20-08h30	WELCOME	
08h30-08h50	Tshipeng Mwenze (UWC)	Geochemical control on the distribution of PGE mineralisation in skarns formed during the emplacement of the Platreef in the Northern Limb of the Bushveld Complex, South Africa.
08h50-09h10	Loic Le Bras (Wits)	Copper sulphide-forming processes in Phalaborwa: A new insight by platinum-group and trace element analysis.
09h10-09h30	Rene Booysen (Wits)	The potential of multi-sensor Remotely Piloted Aircraft Systems (RPAS) in multi-source, multi-scale remote sensing mineral exploration: Examples from Southern Africa.
09h30-09h50	Thomas Stapley (Wits)	Micro-focus X-ray computed tomography as a gold locating and analytical technique in drill-core samples: A case study from a hydrothermal, polymetallic gold deposit.
09h50-10h10	Christina Comuso (SU)	Fluid inclusion analysis and isotopic investigation of two structurally constrained gold mineralizations in the Fairview mining complex, Barberton, South Africa.
10h10-10h30	Juliet Akoh (UJ)	Mineralogy and geochemistry of dykes of the Pilanesberg Complex, South Africa.
10h30-10h50	TEA	
10h50-11h10	Haajierah Mosavel (UWC)	Palaeo-environmental conditions during deposition of shales from Early Permian Prince Albert Formation in the Karoo Basin, South Africa.
11h10-11h30	Ayuba Danmangu Mangs (UJ)	Mineralogical and geochemical investigation of coal within the Benue Trough, Nigeria.
11h30-11h50	Phumudzo Gift Munyai (Univen)	Investigation of environmental and socio economic impacts of coal mining at Tshikondeni Exxaro Mine, Limpopo Province, South Africa.
11h50-12h10	Mpofu Mthulisi (UFH)	Geological and geophysical investigation of groundwater research in the Ndlambe Municipality, Eastern Cape, South Africa.
12h10-12h30	Wesley Harrison (Wits)	Geophysical investigation of groundwater control in the semi-arid Swartland Terrane, South Africa.
12h30-12h50	Nelia Mudowaya (UFH)	Study on the geochemistry of regoliths associated with kaolins and silcretes.
12h50-13h00	NJW	CLOSING / PRIZES
	No lunch	Departure
13h00 onwards	Possible focus area workshops	



# DSI-NRF CIMERA ANNUAL COLLOQUIUM

7-8 November 2019

School of Tourism and Hospitality, Auckland Park Bunting Road Campus, University of Johannesburg

## POSTERS

14h50-16h00: **THURSDAY 7 NOVEMBER**

	NAME	AFFILIATION	POSTER TITLE
1	Mphanama Thangeni	University of Venda	Investigation of coal quality at the Mushithe coal occurrence, Limpopo Province, South Africa.
2	Bridgette Murathi	University of Johannesburg	The effect of a dolerite intrusion on the mineralogy and geochemistry of coals from the Witbank Coalfield, South Africa.
3	Itumeleng Matlala	University of Johannesburg	Effect of dolerite intrusion on coal structure: insights from XRD and Raman Spectroscopy.
4	Temitope Love Baiyegunhi	University of Fort Hare	Geochemical evaluation of the Cretaceous shale and sandstone of the Bredasdorp Basin, offshore area, in the Western Cape Province, South Africa: Implications for hydrocarbon potential.
5	Caitlin Stewart	University of the Witwatersrand	The Distribution of Germanium (Ge) Within Sulphide Mineral Assemblages from the Kipushi Mine, DRC: Tales from the TIMA.
6	Mbili Tshiningayamwe	University of the Witwatersrand	Distribution, petrology and chemistry of apatite from the Epembe carbonatite dyke, NW Namibia.
7	Mphanama Thangeni	University of Venda	Investigation of coal quality at the Mushithe coal occurrence, Limpopo Province, South Africa.
8	Ntseka Masoabi	Rhodes University	Chemostratigraphy of the lower part of the Hotazel Formation, and implications for its primary depositional environment.
9	Maponya Julia Mapula	University of Venda	Evaluation of antimony within the Stibium Mopani mine tailings, Limpopo Province, South Africa.
10	Ravele R.S.	University of Venda	Economic potential of gold mine waste: a case study of Consolidated Murchison mine waste.
11	Busiswa Moloji	University of Fort Hare	Geological and geophysical investigation to assess the hydrocarbon potential of the Pletmos Basin in South Africa.
12	Lwandisa Mthintweni	University of Fort Hare	Application of geophysical and geological methods to investigate the subsurface geology of Kuruman and Kathu areas in Griqualand West Basin, South Africa.
13	Sean McQuillan	Rhodes University	A field, petrological and geochemical study of the Keikamspoort Carbonatite.
14	Thandeka Khumalo	University of the Witwatersrand	3D seismic analysis of Black Reef Formation: implications for the source of gold in the Transvaal Supergroup, South Africa.
15	Buhle Donga	University of the Witwatersrand	Structural interpretation using seismic attributes: A case study from the offshore Orange Basin, South Africa.
16	Mpofana Sihoyiya	University of the Witwatersrand	Re-appraisal of the legacy seismic data using today's technology: Examples from gold fields, South Africa.
17	Haajierah Mosavel	University of the Western Cape	Shale gas potential of the Prince Albert Formation.
18	Ngwenya Ntando	University of Johannesburg	The nature and origin of diamondiferous lamproites in eastern Zambia.
19	Uzayr Mahomed	Rhodes University	The Characterisation of the Phoscorite-Pyroxenite-Carbonatite Components of the Schiel Alkaline Complex.
20	Maponya Julia Mapula	University of Venda	Evaluation of metals within Stibium Mopani mine tailings, Limpopo Province, South Africa.



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