

DETAILED LECTURE PROGRAM: THE ROLE OF MINERAL WEALTH IN THE ENERGY TRANSITION - SOUTHERN AFRICA

8th SGA-IUGS-SEG-UNESCO SHORT COURSE ON AFRICAN METALLOGENY

Monday 9th October

	Time	Speaker	Chair	Program item
DAY 1	08H00	REGISTRATION		JBS Foyer, JBS Park, Kingsway. Please bring ID / passport for access.
	08H50	Organising Committee		Opening ceremony commences
	09H30	Douglas Silver, Denver, USA	Nikki Wagner	Keynote Address: Being First on Planet Earth
	10H15			Q&A and Discussion (15 mins)
	10H30 - 11H00			TEA BREAK
	11H00	Judith Kinnaird, DSI-NRF CIMERA (South Africa)	Ismahane Chaouche	Keynote Address: Energy transition in southern Africa
	11H45	Stefanie Weise, Shango Solutions (South Africa)		Mineral commodities of southern Africa: review of resource and reserves, specific focus on minerals required
	12H15	Sarah Gordon (online), SATARLA (United Kingdom)		Environmental social governance (ESG) in the context of the low carbon economy: what does it mean?
	12H45			Q&A and Discussion (15 mins)
	13H00 - 13H45			LUNCH
	13H45	Sumaya Khan, CSIR (South Africa)	Malick Faye	Placing the South African mining sector in the context of a circular economy transition
	14H15	Sue Webb, Wits (South Africa)		Advances in exploration geophysics and role in the energy transition
	14H45	Jerry Ahadjie (online), ADBG (Cote d'Ivoire)		Strengthening Africa's role in the battery and electric vehicle value chain.
	15H15			Q&A and Discussion (15 mins)
	15H30 - 15H45			BREAK
	15H45	Rokhaya Samba Diene, Geological Survey (Senegal)	Beate Orberger	Mineral resources in West-Africa: potentialities and opportunities for energy transition
	16H15	Melba Wasunna, Base Titanium (Kenya)		Energy Transition in East Africa: Opportunities for the Mining Industry
	16H45	Nikki Wagner, UJ (South Africa)		Coal and the Energy Transition in South Africa
	17H15 - 17H30			Q&A and Discussion; close of Day 1. Transfer to course dinner

Tuesday 10th October

	Time	Speaker	Chair	Program item
DAY 2	08H00	REGISTRATION		JBS Foyer, JBS Park, Kingsway. Please bring ID / passport for access.
	08H50	Lizzie Tau, DSI-NRF CIMERA (South Africa)	Lizzie Tau	Welcome; announcements
	09H00	Gavin Mudd (online), RMIT (Australia)		Use of mine wastes in the energy transition
	09H30	Beate Orberger, Géosciences Conseils (France)		Titanium dioxide-and Aluminium production residues: Important resources for Scandium, Gallium, Vanadium and Niobium
	10H00	Daniel Franks (online), University of Queensland (Australia)		The development minerals and materials of development
	10H30			Q&A and Discussion (15 mins)
	10H45 - 11H15			TEA BREAK
	11H15	Karen Hanghoj (online), British Geological Survey (United Kingdom)	Filadelphia Mbingeneeko	Critical minerals for the energy transition: why critical minerals are different and why they are not
	11H45	Jock Harmer, Rhodes University (South Africa)		REE in permanent magnets: from source to use
	12H15	Judith Kinnaird, Wits (South Africa)		PGE and their role in clean energy
	12H45			Q&A and Discussion (15 mins)
	13H00 - 14H00			LUNCH
	14H00	Desh Chetty, Mintek (South Africa)	Doro Niang	Extraction of Li, Cu, Co, Mn, phosphates for the energy transition
	14H30	Bertus Smith, UJ (South Africa)		Manganese and South Africa – A match made in history, a relationship for the future
	15H00	Markus Reichardt, Sustainability for NextSource Materials Inc (global)		The need for graphite in the energy transition and occurrence in Africa
	15H30			Q&A and Discussion (15 mins)
	15H45 - 16H00			BREAK
	16H00	Mikhail Nikomarov (online), Bushveld Energy (South Africa)	Rokhaya Samba	Vanadium, uses now and in the future.
	16H30	Mmilili M. Mapolelo (online), BITRI (Botswana)		Mineral Beneficiation: Towards Value Addition to the Mining Industry in Botswana
	17H00- 17H45			Q&A and Discussion; close of Day 2. Explanation of field excursion groups. Transfer to Geoquizz (JBS Park)

Wednesday 11th October				
	Time	Speaker	Chair	Program item
DAY 3	07H45	REGISTRATON		JBS Foyer, JBS Park, Kingsway. Please bring ID / passport for access.
	08H20	Nikki Wagner, DSI-NRF CIMERA (South Africa)		Welcome; announcements
	08H30	Peter Venn (online), Seriti Green (South Africa)	Nikki Wagner	Coal company & the energy transition
	09H00	Tafeeq Dhansay, Council for Geoscience (South Africa)		Geothermal energy and its potential role in the energy supply of southern Africa
	09H30	Kgothatso Nhlengetwa, Imbokodo Mining Services (South Africa)		Artisanal and Small Scale Mining in Africa and its Potential Role in the Energy Transition
	10H00			Q&A and Discussion (15 mins)
	10H15 - 10H45			TEA BREAK
	10H45	Joel Gill (online), Cardiff University (United Kingdom)	Melba Wasunna	The UN Sustainable Development Goals: Driver and Beneficiary of a Just Energy Transition
	11H15	Norton Titus (online), Ministry (Namibia)		Repurposing Thermal Power Plants from Coal to Nuclear. A case for SMRs or Traditional Reactors
	11H45			Q&A and Discussion (15 mins)
	12H00 - 12H30	Organising Committee		Closing; information regarding 2024
FIELD EXCURSIONS BEGIN				

FIELD EXCURSION 1 Wednesday 11th October (Afternoon)				
Wits Mining Institute - ADVANCES IN MINING TECHNOLOGY FOR THE LOW CARBON ECONOMY (max 60 people)				
Date	Time	Speaker	Affiliation	Program item
Wednesday 11th Day 3 (Afternoon)	12H45			Transfer from the JBS to the Wits Mining Institute
	13H15	Glen Nwaila	Director - WMI	Presentation on the 3rd floor of the Chamber of Mines
				Group 1 (your group will be indicated on registration)
	13H45			Lunch (Sponsored by the Wits Mining Institute)
	14H15			Digimine
	14H45			Simulated tunnel visit
	15H30			End of WMI visit
				Group 2 (your group will be indicated on registration)
	13H45			Simulated tunnel visit
	14H30			Lunch (Sponsored by the Wits Mining Institute)
	15H00			Digimine
	15H30			End of WMI visit
	15H45			Transfer back to the JBS Park, and Garden Court, end of day
				EVENING IS FREE

FIELD EXCURSION 2 Thursday 12th October				
Brits Vametco Mine, Bushveld Minerals and Elikhulu Operation, Pan African Resources (max 20 people per group)				
Visitors to wear safety shoes, high visibility vest, safety glasses, and hard hat - items provided by CIMERA and mine				
Thursday 12th Day 4	07H00			Transfer from Garden Court, Milpark, collect other delegates at JBS Park
				Group 1 Elikhulu Operation, Pan African Resources (your group will be indicated on registration); Lead by Nikki Wagner
	07H30 - 09H30			Travel to Elikhulu Operation, Evander (approx 120 km)
	09H30 - 10H30			Overview presentation of Evander Underground and Elikhulu by the EGM teams.
	10H30 - 12H00			Visit to Leslie/ Bracken TSF remining site – Elikhulu tailings deposition site
	12H00 - 12H45			Visit through the Elikhulu plant
	12H45			Lunch (Sponsored by Pan African Resources)
	13H30 - 14H30			Visit to Solar plant
	14H30 - 16H30			Travel back to JBS Park and The Garden Court
				Group 2 Vametco Mine, Bushveld Minerals (your group will be indicated on registration); lead by Paul Nex and Judith Kinnaird
	08H00 - 10H00			Travel to Vametco Mine, Brits (approx 70 km)
	10H00 - 10H10		General Manager	Open and welcome
	10H10 - 10H15			Introductions
	10H15 - 10H20		Judith Kinnaird	Purpose of the visit
	10H20 - 12H15			Mining and Plant Visit
	12H15 - 12H20		Simon Nethononda	Closure
	12H30 - 17H30			Depart for lunch and cutural visit, return to JBS Park, Garden Court

FIELD EXCURSION 3 Friday 13th October			
Brits Vametto Mine, Bushveld Minerals and Elikhulu Operation, Pan African Resources (max 20 people per group)			
Visitors to wear safety shoes, high visibility vest, safety glasses, and hard hat - items provided by CIMERA and mine			
Friday 13th Day 5	07H00		Transfer from Garden Court, Milpark, collect other delegates at JBS Park
	Group 2 Elikhulu Operation, Pan African Resources (your group will be indicated on registration); Lead by Nikki Wagner		
	07H30 - 09H30		Travel to Elikhulu Operation, Evander (approx 120 km)
	09H30 - 10H30		Overview presentation of Evander Underground and Elikhulu by the EGM teams.
	10H30 - 12H00		Visit to Leslie/ Bracken TSF remining site – Elikhulu tailings deposition site
	12H00 - 12H45		Visit through the Elikhulu plant
	12H45	Lunch (Sponsored by Pan African Resources)	
	13H30 - 14H30		Visit to Solar plant
	14H30 - 16H30		Travel back to JBS Park and The Garden Court
	Group 3 Vametto Mine, Bushveld Minerals (your group will be indicated on registration); lead by Paul Nex and Judith Kinnaird		
	08H00 - 10H00		Travel to Vametto Mine, Brits (approx 70 km)
	10H00 - 10H10	General Manager	Open and welcome
	10H10 - 10H15		Introductions
	10H15 - 10H20	Judith Kinnaird	Purpose of the visit
	10H20 - 12H15		Mining and Plant Visit
	12H15 - 12H20	Simon Nethononda	Closure
	12H30 - 17H30		Depart for lunch and cutural visit, return to JBS Park, Garden Court

DETAILED SOCIAL PROGRAM: THE ROLE OF MINERAL WEALTH IN THE ENERGY TRANSITION - SOUTHERN AFRICA			
8th SGA-IUGS-SEG-UNESCO SHORT COURSE ON AFRICAN METALLOGENY			
Date (October 2023)	Time	Venue	Program item
Sunday 8th Welcome Function	17H00	JBS Park University of	Transfer shuttle available for delegates staying at The Garden Court. Please bring ID / passport for access.
	17H00	Johannesburg, Kingsway Road,	Registration. Please bring ID / passport for access.
	17H30	Auckland Park (old Media24	Welcome reception - cocktail dinner, drinks, and entertainment from Diphala Traditional Group
	20H00	campus)	End of evening; transfer shuttle available for delegates staying at The Garden Court.
Monday 9th Course Dinner	17H45	School of Tourism and	Transfer shuttle available for delegates from JBS Park (for Garden Court delegates).
	18H00	Hospitality, Bunting Road	Arrival at course dinner
	20H30	Campus, University of Johannesburg (opposite the Egoli Gas works)	End of evening; transfer shuttle available for delegates staying at The Garden Court.
Tuesday 10th Geoquizz Evening	18H00	JBS Park University of	Geoquizz Evening at JBS
	20H30	Johannesburg, Kingsway Road, Auckland Park (old Media24 campus)	End of evening; transfer shuttle available for delegates staying at The Garden Court.