

5th National Global Change Conference



Research and Innovation Accelerating Transformations to Global Sustainability



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



National
Research
Foundation

UNIVERSITY OF THE
FREE STATE
UNIVERSITEIT VAN DIE
VRYSTAAT
YUNIVESITHI YA
FREISTATA



DAY 1 : 30 January 2023

OPENING PLENARY SESSION

Wynand Mouton Theatre

08:00	Registration						
09:00	Announcements and Housekeeping		Mr Herkulaas Combrink , Co-Chair, UFS Local Organising Committee				
09:15	Introductions		Dr Phil Mjwara , Director-General, Department of Science and Innovation				
09:25	Welcome by Host Institution		Prof Francis Petersen , Rector & Vice-Chancellor, University of the Free State Province				
09:40	Welcoming Remarks		Ms Sisi Ntombela , Premier of the Free State				
09:55	Message from NRF		Prof Fulufhelo Nelwamondo , President & CEO: NRF				
10:00	Message from DFFE		Ms Barbara Creecy , Minister of Forestry, Fisheries and the Environment				
10:30	Keynote Address		Dr Blade Nzimande , Minister of Higher Education, Science and Innovation				
11:00	Performance by the Odeion String Quartet						
11:10	REFRESHMENTS						
11:45	Scientific Address		Prof Tshilidzi Marwala , Former Vice-Chancellor of the University of Johannesburg and incoming Rector of the United Nations University <i>Technology for Leadership</i>				
12:30	Tree Planting		In honour of the late Prof Bob Scholes and Prof Maarten de Wit				
	Photographs and Interviews						
13:00	LUNCH						
	EBW COMPLEX						
EBW	EBW Auditorium (Lower Ground)	LG 8 (Lower Ground)	G2 (Ground Floor)	G4 (Ground Floor)	101 (First Floor)	103 (First Floor)	G3 (Ground Floor)
	CLIMATE CHANGE & BIODIVERSITY	ALTERNATIVE ENERGY	OCEAN MONITORING	CLIMATE-SMART AGRICULTURE	RESILIENT CITIES & COMMUNITIES	SAEON SESSION	SIDE EVENT
14:00	Guest Speaker: Prof Guy Midgley	Guest Speaker: TBC	Thomalla SJ	Guest Speaker: Dr Mark Tadross	Guest Speaker: Ms Liteboho Makhele	Innovative opportunities in science	Understand Venture Capital in South Africa
14:20			Mtshali, T				
14:40	Payne, S	Erasmus, L	Edworthy, C	Bam, S	Makhanya, TB		
15:00	Khuzwayo, LM	Jenkin, NP	Nicholson, S	Zwane, PSM	Niyobuhungiro, R		
15:20	Fitchett, JM	Mathebula, N	Monteiro, P	Diniso, YS	Modise, TR		
15:40	Sidla, S	Serfontein, D	Thomalla, SJ	Nyambo, P	Ramataboe, L		

16:00	REFRESHMENTS						
16:30	Archibald, S	Adebula, A	Pillay, K	Nocezo, Y	Bosman, G		
16:50	Maluleke, AM:	POSTER SESSION Alternative Energy	POSTER SESSION Ocean monitoring (4)	Makungo, R:	Latlhang, CA:		
17:10	Nkhase, T				Alimi, SA:		
18:30	Meet @ Greet Function @ UFS						

DAY 2 : 31 January 2023

PLENARY SESSION

EBW Auditorium, EBW Complex (Lower Ground Floor)

09:00	Welcome & Announcements	Dr Wisemen Chingombe , University of Limpopo and Chair of Global Change Scientific Committee				
09:10	Plenary Address	Prof Francois Engelbrecht , Professor of Climatology and Director of the Global Change Institute , University of the Witwatersrand				
10:10	POSTER SESSION: 10:10-11:10 (EBW Auditorium) Biodiversity (Vegetation and invasives)			POSTER SESSION: 10:10-11:20 (Room 103) Water Quality		
11:00	REFRESHMENTS					
	EBW Auditorium (Lower Ground Floor)	LG 8 (Lower Ground Floor)	G2 (Ground Floor)	G4 (Ground Floor)	101 (First Floor)	103 (First Floor)
	CLIMATE CHANGE & BIODIVERSITY	SMART GRIDS	KNOWLEDGE FOR GLOBAL CHANGE	CLIMATE-SMART AGRICULTURE & FORESTRY	ACCESS SESSION Extreme Climate Events	FUTURE AFRICA SESSION
11:20	Clark, VR	<i>Guest Speaker:</i> DR Leonardo Gorjao	<i>Guest speaker:</i> Dr Rajesh Tandon	Leaver, J	SAWS presentation on Extreme Events	A Public Conversation – Leadership for Sustainability Transformation
11:40	Hlongwane, JS			Dovey, SB		
12:00	Jombo, S	Maritz, J	Sanjigadu,S	Khoza, B	Adegoke, J	
12:20	Mokoka, V	Meintjes, P	Coetzee, NN	Sekhurwane, M	Pinto, IP	
12:40	Gordijn, P	Maritz, E	De Sousa, L	Moloi, MJ		

13:00 LUNCH						
	CLIMATE CHANGE & BIODIVERSITY	SMART GRIDS	KNOWLEDGE FOR GLOBAL CHANGE	CLIMATE-SMART AGRICULTURE	ACCESS SESSION Extreme climate events	ASSAf SESSION
14:00	Gwate, O	Guest Speaker: Dr Leonardo Gorjao	Sanjigadu, S	Phehla, M	Guest Speaker: Dr Mary-Jane Bopape, SAEON	Transformative futures for water security
14:20	Makaota, K		Krishna, SBN	Sibuyi, R		
14:40	Mapaura, A	Nel, W	Mnisi, K	Molobela, MT	Maboyi, RG	
15:00	Maphanga, T	Maritz, J & Esterhuysen, N	Jimu, T	Masipa, NK	Johnson, K	
15:20	Moabi, TG	Erasmus, SJ	Abrahams, E	Mnisi, P	Thoitl, WT	
15:40	Chidawanyika, F	De Wet, J	Tsakeni, M	Hepplethwaite, VJH	Loader, N	
16:00	REFRESHMENTS					
16:30	Gwate, O:	Braune, M	POSTER SESSION Climate change and health	Daniel, S:	Ndayi,	UFS-QQ RVSC SESSION
16:50	Niba, AS	MINERALS CARBONATION Vele, MD		POSTER SESSION: Climate-smart Agriculture	Group exercise	Sustainable Cities – Phuthaditjhaba Clark,VR Hansen, M Clark, VR
17:10	Raphela, T	Nhlabathi, T			Panel discussion	
17:30	Xolo, S	POSTER SESSION Minerals Carbonation			Open discussion & route ahead	
17:45	Group 1: Visit to Planetarium Group 2: Visit to Boyden					

DAY 3 : 1 February 2023

PLENARY SESSION

EBW Auditorium, EBW Complex (Lower Ground Floor)

09:00	Welcome & Announcements	Mr Barney Kgope, Director: Carbon Sinks Mitigation, Department of Fisheries, Forestry and the Environment
09:10	Plenary Address	Prof Laura Pereira, Xxaro Research Chair, Global Change Institute, University of the Witwatersrand <i>Imagining transformative futures in the Anthropocene</i>
10:10	10:10-11:40 : POSTER SESSION (G3) Waste Management	10:10-11:00 : POSTER SESSION (101) Climate-smart agriculture

11:00	REFRESHMENTS							
	EBW Auditorium (Lower Ground)	LG 8 (Lower Ground)	G2 (Ground Floor)	G4 (Ground Floor)	101 (First Floor)	103 (First Floor)	G3 (Ground Floor)	
	CLIMATE CHANGE & BIODIVERSITY	GAUTENG CITY REGION SESSION	ACCESS SESSION Climate & Health	ARC SESSION Agriculture in a changing Climate	SOIL, LAND & CLIMATE CHANGE	WATER RESOURCES & THE GLOBAL CLIMATE CRISIS	POSTER SESSION: Waste Management	
11:20	Von Maltitz, G	Off-grid Cities: Considerations for sustainability & Justice Brown-Luthango, M Tarh, E Middelmann, T	Guest speaker: Dr Carradee Wright	Guest Speaker: Prof Sue Walker, ARC	Kotze, JJ	Gumede, N	RHODES UNIVERSITY ENVIRONMENTAL LEARNING RESEARCH CENTRE SESSION Education & skills transformations for just transitions, sustainability & the future of Work	
11:40	Taylor, P				Mashao, FM	James, L		
12:00	Mduli, V		Lokotola, CL	Masupha, T	Mbewu, AD	Samuels, A		
12:20	Howard, A:		Le Roux, A:	Mutema, M:	Mbatyoti, S	Itzkin, A		
12:40	Ntloko, P		Martineau, P	Jordaan, FJ	Chari, MM	Schutte, S		
13:00	LUNCH							
	CLIMATE CHANGE & BIODIVERSITY	STELLENBOSCH UNIVERSITY SESSION	ACCESS SESSION Climate & Health	ARC SESSION Agriculture in a changing Climate	SOIL, LAND & CLIMATE CHANGE	WATER RESOURCES & THE GLOBAL CLIMATE CRISIS	RHODES UNIVERSITY ENVIRONMENTAL LEARNING RESEARCH CENTRE SESSION	
14:00	Makwela, M	Carbon Dioxide Removal	Guest Speaker: TBC	Rapolaki, RS	Afuye, GA:	Nsibandde, TN	Education & skills transformations for just transitions, sustainability & the future of Work	
14:20	Muluvhahothe, M			Youth-led discussion on agriculture in a changing climate	Kidson, M	Madonsela, BS		
14:40	Munyai, C			Abdelatif, NA	Scholtz, M	POSTER SESSION: Soil, land and climate change		Owolabi, ST
15:00	Moyo, S			Pillay, M	Myeni, L			Ramulifho, P
15:20	Mbandzi, N			Roffe, S:	Madimabe, KS			POSTER SESSION Water Resource Management
15:40	Gerber, G:			Makunyane, MS	Jiyana, ST			
16:00	REFRESHMENTS							
16:30	Lugongolo, A		Motlogeloa, OM	POSTER SESSION:				

16:50	Nkosi, ACV		John, J	Agriculture in a changing climate			
17:10			Panel discussion				
17:30			Open session & way forward				
18:30	GALA DINNER @ Leopards & Lace						

DAY 4 : 2 February 2023

PLENARY SESSION

EBW Auditorium, EBW Complex (Lower Ground Floor)

09:00	Welcome & Announcements	Mr Leluma Matookane, Director: Earth Systems Science, Department of Science and Innovation					
09:10	Plenary Address	Mr Happy Khambule, Manager: Environment & Energy, BUSA, Delegate to the UNFCCC, and President's Coordinating Commission on Climate Change <i>Just Transitions enablers of climate action or mitigators of impacts of climate action</i>					
10:10	POSTER SESSION 10:10-11:20 (101) Resilient Cities & Communities			POSTER SESSION: 10:10-11:10 (103) Climate Change & Biodiversity/Coastal			
11:00	REFRESHMENTS						
	EBW Auditorium (Lower Ground)	LG 8 (Lower Ground)	G2 (Ground Floor)	G4 (Ground Floor)	101 (First Floor)	103 (First Floor)	G3 (Ground Floor)
	WATER RESOURCES & THE GLOBAL CLIMATE CRISIS	MANAGING GLOBAL CHANGE	SARUA SESSION	BUSINESS ADAPTATION TO GLOBAL CHANGE	TECHNOLOGY FOR GLOBAL CHANGE	WASTE MANAGEMENT	POSTER SESSION Climate-Smart Agriculture
11:20	Guest Speaker: Prof Paul Oberholster	Guest Speaker: Dr Tlou Ramaru	Masters' in Climate Change & Sustainable Development Avenant, M et al Bester, M et al Chicho, N et al Silengo, M et al	Naidoo, V	Guest Speaker: Prof Vukosi Marivate	Schenck, C	
11:40				Muza, C		Mahlamvu, S	
12:00	Mapuka, FN	Mzileni, P		Ngunjiri, N	Assegaai, EL	Selomo, TG	
12:20	Van Tol, J	Seyisi, E		Van Rooyen, D	Muzanenhano, A	Otieno, BO	
12:40	Kamba, E	Majahana, J		POSTER SESSION Business Adaptation to Global Change	POSTER SESSION Technologies for Global Change	Sekwakwa, LM	
13:00	LUNCH						

	WATER RESOURCES & THE GLOBAL CLIMATE CRISIS	MANAGING GLOBAL CHANGE	UFS SESSION	FOOD SECURITY	WASTE MANAGEMENT	ACCESS SESSION	SAEON SESSION	
14:00	Ndou, N	Hansen, M	Drones	Jenkin, NP	Schenck, C	Habitable Plant	The South African Risk and Vulnerability Atlas: A showcase of the Atlas	
14:20	POSTER SESSION Water Resources/Access	Onaolapo, T		Rusere, FR	Eregie, SB			
14:40		Muchaku, S		Goli, Z	Kheswa, N:			
15:00		POSTER SESSION Managing Global Change			POSTER SESSION Food Security			Masvingwe, NP
15:20								Mudzanani, K
15:40								
16:15	CLOSING PLENARY SESSION EBW Auditorium							
	Closing Address	TBC						
	Summing up	Dr Wisemen Chingombe , Chair, Global Change Science Committee						
	Closing Remarks	Prof Corli Witthuhn , Vice-Rector: Research & Internationalisation, UFS						
17:45	Group 1: Visit to Planetarium Group 2: Visit to Boyden							