GROUNDWATER CONFERENCE PROGRAMME

	NDWATER CONFERENCE PROGRAMM		
07:00	·		
08:00	Welcome Diamond 1 Session Chair: F Fourie		
08:30	Kwazikwakhe MAJOLA GWD Gauteng Conference Chair Opening Address Dhesigen NAIDOO*		
09:00	Presidential Climate Change Ambassador Keynote Address David KREAMER		
	International Association of Hydrogeologists (IAH)		
09:30	Guest Speaker Neno KUKURIC International Groundwater Resources Assessment Centre (IGRA	(C)	
10:00	Icebreaker		
10:10	COMFORT BREAK / *Poster Spotlight* Hendrik Botha, Ar	ngelo Johnson, Ritshidze Nenweli	
	Session 1: Resilience 1 Diamond 2 Chair: Y van Wyk	Session 2: Visibility 1 Diamond 1 Chair: N Breedt	
10:30	The application of machine learning for groundwater level prediction in the Steenkoppies compartment of the Gauteng and Northwest dolomite aquifer, South Africa - Kristy GIBSON Umvoto Africa	Diamonds on the soles of their feet: groundwater monitoring in the Hout Catchment, Limpopo Jacqueline GOLDIN University of the Western Cape	
10:50	Managed aquifer recharge in South Africa (MARSA) Jens AAMAND Ramboll	Strengthening South Africa's groundwater regulatory framework: The case of the unprotected dolomitic aquifer of Delmas Carin BOSMAN CBSS	
11:10	Sharing water resources and the complexities around it: Three Case Studies from the Western Cape Christel VAN STAADEN Geoss South Africa	Intraplate tectonic setting of the southwestern Cape, South Africa: Analysis of the TrigNet geodetic record Lechelle GOSLIN Umvoto Africa	
11:30	Conjunctive use of water resources Jan KÜRSTEIN Ramboll	Using geophysics to detect water-hosting fractures in the Vredefort Dome: A training opportunity Stephanie SCHEIBER-ENSLIN University of the Witwatersrand	
11:50	Assessment of the state of potable water supply system in selected communities of Vhembe District Municipality, South Africa Tuwani MALIMA University of Venda	Test pumping Well field analysis of a heterogeneous fractured rock aquifer. Reuben LAZARUS Geoss South Africa	
12:10	LUNCH BREAK ~ Visit our Exhibitors & Network	Hub during all the breaks~	
	Session 3: Research 1 Diamond 2 - Chair: A Johnston	WORKSHOP:(Session 4)	
13:10	Transport and attenuation of microplastics in saturated sands Sebastian STENZL University of the Western Cape	Groundwater Mapping and Assessment Diamond 1 – Chair: JE Larson	
13:30	Test pumping derivative analysis to improve conceptual understanding in a complex aquifer: Steenbras Wellfield. Kevin DE BRUIN Umvoto Africa	What is in a - groundwater - map? Nicolette VERMAAK University of the Free State Jørgen E. LARSEN	
13:50	Hydrocarbon groundwater analyses: a Karoo case study	Al_GEO software platform for regional groundwater potential	
	Danita HOHNE Department Water & Sanitation	mapping Emmanuel SAKALA Council for Geoscience	
14:10		mapping	
14:10 14:30	Danita HOHNE Department Water & Sanitation The presence and concentration of antiretroviral drugs in different water bodies around the Western Cape	mapping Emmanuel SAKALA Council for Geoscience Testing Danish groundwater mapping methodologies in South Africa, Case Ladysmith, South Africa	
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08:00	REGISTRATION DAY 2 – TUESDAY, 19 OCTO	BER 2021
08:30	Diamond 1 Session Chair K Majola Guest Speaker: Relationship between driller and Hydrogeologist Colin Rice	
09:00	Plenary Address: SACNASP and CPD – The Professional's Journey Matthys Dippenaar University of Pretoria, South African Chapter President International Association of Hydrogeologists (IAH)	
09:30	Plenary Address: Practitioners' Code of Practice Nicolette Vermaak University of the Free State, Vice-Chairperson of the Ground Water Division, GSSA	
10:00	COMFORT BREAK / *Poster Spotlight* Kimberley Murra	
	Session 7: Research 2 Diamond 1 - Chair: M Dippenaar	Session 8: Resilience 2 Diamond 2 - Chair: N Breedt
10:30	Water Research Commission and Proposals Yazeed VAN WYK Water Research Commission	Latest approaches and examples illustrating the key role of numerical modelling in sustainable groundwater use in South Africa Analisa VICENTE SRK Consulting (South Africa)
10:50	Groundwater in SADC Research Vision James SAURAMBA SADC-GMI	Assuring supply during a changing environment focusing on drought Danita HOHNE Department of Water and Sanitation
11:10	The Seven Deadly Sins of Numerical Modelling Andries WILKE GCS Water and Environment	The Role of GRACE data in mapping groundwater drought in the Southern African Development Community: Updating the groundwater drought risk map Zaheed GAFFOOR* University of the Western Cape
11:30	Geochemical investigations to improve the prediction of mine water impacts: A case study in the Elandsfontein Aquifer System, West Coast Angelo JOHNSON University of the Western Cape / SANParks	Half Full or Half Empty? Groundwater surface water interactions – An ever-increasing focus for water resource management. Sonia VELTMAN Veltwater Groundwater Specialists
11:50	Towards a conceptual understanding of groundwater-ecosystems	A changing environment focusing on drought
	interactions in the Tuli-Karoo transboundary aquifer Kwazikwakhe MAJOLA Department of Water and Sanitation	Fanus FOURIE Department of Water and Sanitation
12:10	Kwazikwakhe MAJOLA Department of Water and Sanitation	
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13:10	Kwazikwakhe MAJOLA Department of Water and Sanitation LUNCH BREAK ~ Visit our Exhibitors & Netwo	Fanus FOURIE Department of Water and Sanitation Ork Hub during all the breaks~ WORKSHOP:(Session 10) Groundwater Awareness* Diamond 1 – Chair: N Vermaak
	Kwazikwakhe MAJOLA Department of Water and Sanitation LUNCH BREAK ~ Visit our Exhibitors & Netwo Session 9: Management 2 Diamond 2 – Chair: J Nel "But is it 'pollution'?" - determining appropriate site-specific regulatory limit values for groundwater quality.	Fanus FOURIE Department of Water and Sanitation Ork Hub during all the breaks~ WORKSHOP:(Session 10) Groundwater Awareness* Diamond 1 - Chair: N Vermaak Groundwater Project: Release of Wally and Deanna Translation Everton DE OLIVIERA Ground Water Project
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08:00	REGISTRATION DAY 3 – WEDNESDAY, 20 OCTOBER 2021			
08:30	Session 12: Resilience 3 Diamond 2- Chair: J Nel Suitability of drilling techniques for geological interpretation and borehole design within the Cape Flats Aquifer, Western Cape Sasha Dean SINGH Umvoto Africa	Session 13: Management 3 Diamond 1 – Chair: M Dippenaar Sustainable Groundwater Development Perspectives: Differences in sustaining individual abstraction rates based on test pumping data analysis with recharge based firm yield estimations for an aquifer or localised area. Kes MURRAY Geoss South Africa		
08:50	Hydrogeological Characterization of a Methyl-Tertiary-Butyl-Ether (MTBE) Plume Bamanye TAKASHE Nelson Mandela University	Assessment of concentration levels of contaminants in groundwater of Soutpansberg Region, Limpopo Province, South Africa Lindelani LALUBE* Department of Water and Sanitation		
09:10	An investigation of the natural groundwater recharge and discharge of the Saldanha Bay Aquifer Systems, South Africa Aqeela PARKER University of the Western Cape	Development of an Aquifer Management Plan for the Polokwane Urban Complex Sivashni NAICKER Department of Water and Sanitation		
09:30	An innovative approach to dealing with elevated iron concentrations at the Knysna Hospital Roger PARSONS Parsons & Asociates	Science-Policy Nexus: Assessing role of groundwater resource directed measures in water resources protection practice, case of Schoonspruit-Koekemoerspruit River Catchment, South Africa Stanley NZAMA* Department of Water and Sanitation		
09:50	Observation and monitoring of field parameters for springs and rivers of a Swiss alpine valley in relation to seasonality Cedric MEIER Private Consultant	Estimating hydraulic conductivities through the measurement of streaming potentials in Karoo aquifers Jemias Clifford Water Resources Consultants Pty (Ltd)		
10:10	COMFORT BREAK / *Poster Spotlight* Jureya Dildar, S	isipho DLakiya Final Poster Evaluations Close		
10:40	Session 14: Resilience 4 Diamond 2- Chair: Y van Wyk Identifying suitable sites for Managed Aquifer Recharge within the Saldanha Bay Local Municipality, situated in the West Coast of South Africa Ashleigh TOMLINSON University of the Western Cape	WORKSHOP:(Session 15) Regulations* Diamond 1- Chair: K Majola Stakeholder Engagement Unconventional Gas Regulations for Water Use by DWS Lebogang MALEFANE Department of Water and Sanitation		
11:00	Test Pumping: Comparing the Farmer Test, Constant Head Test and SANS 10299-4:2003 methodologies with regards to estimating groundwater abstraction. Data, analyses and recommendations.	Leshego MAFUZA Department of Water and Sanitation *Final Programme to be released		
11:20	Kes MURRAY Geoss South Africa Investigating groundwater and surface water interactions using stable isotopes and hydrochemistry in the Notwane River Catchment, South East Botswana Piet KENABATHO University of Botswana			
11:40	The presence and concentration of antiretroviral drugs in different water bodies around the Western Cape Acrifah WILLIAMS Nelson Mandela University			
12:00	LUNCH ~ Visit our Exhibitors & Network Hub during all the breaks~			
	Open/ Public Session Diamond 1– Chair J van Rooyen			
13:00	BIOGRIP/WRC/GWD SESSION Biogeochemistry Research Infrastructure Platform			
15:00	COMFORT BREAK			
15:30	CONFERENCE CLOSING CEREMONY			
16:00	Diamond 1 – Chair N Vermaak Feedback From Rapporteurs; Awards Closing Remarks Fanus FOURIE GWD National Chairperson Matthys DIPPENAAR IAH 2023 LOC Chairperson - Passing the To	orch!		
	DOCTED DECENTATIONS			

POSTER PRESENTATIONS

Hendrik BOTHA GCS Impact of Engineered Tree Plantations on Water Transfer Through the Upper Vadose Zone and Implications on Vertical Groundwater Recharge

Angelo JOHNSON UWC Aquifer structure and extent based on Airborne Geophysical investigation: A case study based in Saldanha Bay Local Municipality, West Coast.

Ritshidze NENWELI SU Evaluating changes in groundwater storage during the 2015-2018 drought in the Western Cape using GRACE data

Nathasha R. GARIREMO NMU Hydrogeological modeling of a coastal wetland: The development of a steady-state numerical groundwater flow model for Rietvlei Wetland, Cape Town.

Charissa WORTHMANN UFS FrackSA: A tool to aid in the enforcement of groundwater regulations during unconventional oil and gas extraction

Lerize VAN WYK GCS Water Quality Guidelines: Which to use and where applicable?

Mikyle CLOETE UWC The fate and occurrence of pharmaceuticals in Cape Town's water network

Kimberley MURRAY U.J. A redescription of groundwater amphipods (Crangonyctoidea: Sternophysingidae) from karstic aquifers in Gauteng, South Africa

Akhona MAQHUBELA NMU Groundwater monitoring of South Africa through numerical model

Elvis TAMILO Using geophysics to detect water-hosting fractures in the Vredefort Dome

Lesedi SIPUKA NMU Development and testing of a hydrogeological multilevel sampling device and analysis of water chemistry through hydrochemical parameters

James BERKLAND NMU Analysis of groundwater sampling methods used within uranium-rich fractured rock aquifers of the Beaufort West region

Yazeed VAN WYK WRC Combined use of Environmental and Artificial Tracers to Characterise the Vadose Zone

Tarika ISAAC GCS eSymon - An Innovative Solution to Monitoring Data Management

Jared VAN ROOYEN SU Stable isotope techniques for the evaluation of water sources for domestic supply in Stellenbosch, South Africa

Jureya DILDAR WITS Integrated approach to understanding the causes of ground subsidence in the Lyttelton Formation, Jan Smuts House: A potential case study to the greater Centurion Sisipho DLAKIYA NMU Measuring hydraulic conductivity across different scales using varying methods to develop a hydraulic conductivity mode