



PRELIMINARY PROGRAMME - IAH-SA VIRTUAL CONFERENCE - 13 TO 15 SEPTEMBER 2022



DAY 1	TIME	TITLE	THEME
<b>Tues, 13 Sept 2022</b>	09:00-09:20	<b>OPENING:</b> Matthys Dippenaar, Fanus Fourie & Ashleigh Tomlinson	
Session 1	09:20-09:40	Groundwater Modelling of Lake Sibaya under various landcover and climate scenarios advised by plant water source partitioning using isotopes	
<b>sponsored by : UKZN</b>	09:40 - 10:00	Rainfall-Groundwater relationship, Groundwater-Surface water relationship, and groundwater dynamics in the Maputaland Coastal Plain	Aquifer parameters & characterisation
Moderator: Reynold Chow (rchow@sun.ac.za)	10:00 - 10:20	Evaluating Groundwater storage changes in the Western Cape using GRACE and groundwater data	
	10:20-10:40	Regional hydrochemistry and hydrogeology of the Greater Timbavati area, Mpumalanga	
	<b>10:40 - 11:10</b>	<b>BREAK</b>	
Session 2	11:10 - 11:30	Delineation of Groundwater Protection Zones: Towards a groundwater management plan in the Sutherland town area	
<b>sponsored by : Steyns Drilling</b>	11:30 - 11:50	Appraisal of geophysical methods used for groundwater exploration in South Africa	Geophysics and drilling
Moderator: Francois Fourie (FourieFD@ufs.ac.za)	11:50 - 12:10	Using forward and inverse modelling to investigate the capability of two-dimensional electrical resistivity tomography to detect water bearing zones in the subsurface	
	12:10 - 12:30	Evaluating the results of geophysical surveys conducted in the Main Karoo Basin from a hydrogeological perspective	
	12:30 - 12:40	<b>CLOSING</b>	

DAY 2	TIME	TITLE	THEME
<b>Wed, 14 Sept 2022</b>	09:00-09:20	<b>OPENING:</b> Water Research Commission - the status of groundwater research in Southern Africa - a WRC perspective (tbc)	
Session 3	09:20-09:40	Surface water-Groundwater interaction in an urbanized catchment – Johannesburg, South Africa	
	09:40 - 10:00	Vertical anisotropy and hydromechanical properties of the unsaturated saprolite in the complex intermediate vadose	Aquifer parameters & characterisation
Moderator: Kym Morton (kmorton@klmcs.co.za)	10:00 - 10:20	An investigation of the natural groundwater recharge of the Saldanha Bay Aquifer systems, South Africa	
	10:20-10:40	The determination of in-situ hydraulic conductivity in core boreholes intersecting fractured rock at mine sites	
	<b>10:40 - 11:10</b>	<b>BREAK</b>	
Session 4	11:10 - 11:30	Research-based deep drilling in the Bushveld Igneous complex	
<b>sponsored by : IGS</b>	11:30 - 11:50	Application of analytical hierarchy process to design an optimized groundwater monitoring network to detect potential impacts of Managed Aquifer Recharge	Aquifer management
Moderator: Eelco Lukas (LukasE@ufs.ac.za)	11:50 - 12:10	A review of slug tests analysis on South African aquifers in potential yield and transmissivity estimations	
	12:10 - 12:30	Machine learning applied to pumping test analysis: Breaking the data barrier	
	12:30 - 12:40	<b>CLOSING</b>	

DAY 3	TIME	TITLE	THEME
<b>Thurs, 15 Sept 2022</b>	09:00-09:20	<b>OPENING:</b> Stable isotopes as a tool for improving rainfall-runoff modelling in South Africa	
Session 5	09:20-09:40	TSF Seepage Interception and Clean Water Spring Diversion at Gold Mine in SA	
	09:40 - 10:00	Using passive sampling to evaluate aquatic pesticide pollution in the Western Cape, South Africa	Contamination
Moderator: Nicolette Vermaak (nokkie.vermaak@gmail.com)	10:00 - 10:20	Physical parameters and trace elements of the BCL Mine Discharge at Selibe Phikwe, Eastern Botswana	
	10:20-10:40	Developing a cost-effective method to delineate wellhead protection areas - a study in the Cape Flats	
	<b>10:40 - 11:10</b>	<b>BREAK</b>	
Session 6	11:10 - 11:30	Identifying potential areas suitable for Managed Aquifer Recharge in Saldanha Bay, Western Cape	
<b>sponsored by : Ultra Drilling</b>	11:30 - 11:50	Using seawater fraction and hydrogeochemistry tools to investigate seawater intrusion, Heuningnes, Cape Agulhas, South Africa	Groundwater sustainability
Moderator: Fanus Fourie (fouriefo@gmail.com)	11:50 - 12:10	Understanding the black box of the MAR infiltration process	
	12:10 - 12:30	Hydrogeological controls & Managed Aquifer Recharge in the Greater Kruger National Park, Limpopo	
Moderator: Kevin Pieterse (kpieterse@mweb.co.za) / Julian Conrad (info@iah.org.za)	12:30 - 13:00	<b>CLOSING:</b> Panel Discussion & Open to the floor	

Contact: Organiser: Confetal - deidre@iafrica.co.za  
 For more information please view the website <https://iah.org.za/iah-sa-virtual-conference-13-to-15-september-2022/>

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