



IAH-SA SYMPOSIUM

26 - 28 AUGUST 2026

Groundwater Quality



PROGRAMME - IAH-SYMPOSIUM 2026 - GROUNDWATER QUALITY

TUESDAY 25 AUGUST 2026	
10:00 - 16:00	PRE-SYMPOSIUM COURSE PHREEQ-C Modelling Course presented by Dr Meris Mills - <i>PhD Geology, Environmental Geochemist</i> Presentation.
	Pre registration and payment of the Course is required. For more information visit the website: https://iah.org.za/symposium-2026/
WEDNESDAY 26 AUGUST 2026 - PLENARY VENUE	
	SESSION ONE
8:00 - 9:00	REGISTRATION Coffee + Viewing of exhibits + posters
9:00 - 9:10	SESSION SPONSORED BY GEOSS OPENING ADDRESS Dr Roger Parsons (<i>IAH-SA Chapter Chairman</i>) and Julian Conrad (<i>IAH-SA Chapter Member</i>)
9:10 - 10:00	OPENING AND KEYNOTE ADDRESS Dr. Feifei Cao - <i>Senior Groundwater Specialist</i> - Netherlands Presentation: Advancing Groundwater Quality Assessment: Data Challenges, Global Collaboration And Emerging Ai Solutions
10:00 - 10:30	Refreshment break sponsored by GCS -SA and Viewing of the Posters
	SESSION TWO
10:30 - 11:10	INVITED SPEAKER Liesl Koch - <i>Manager: SHE Environment at Sasol</i> Presentation: Industrial Contamination and Groundwater Quality in Africa: Lessons, Risks and Pathways to Recovery
11:10 - 11:30	Erin Haricombe - Integrating Groundwater Monitoring and Numerical Modelling for Early detection and monitoring network optimization in South African mining Environments
11:30 - 11:50	Nicolette Vermaak - MAR and Water Quality Concerns
11:50 - 12:10	Amy Allwright - AQUICIRC: Optimising managed aquifer recharge for a circular water future
12:10 - 12:30	Kwazikwakhe Majola - Determining the Groundwater Quality Component of the Reserve For Resource Protection
12:30 - 13:30	Lunch

	SESSION THREE
13:30 - 14:10	INVITED SPEAKER Prof Surina Esterhuyse - <i>Researcher at the Centre for Environmental Management, University of the Free State</i> Presentation: From baselines to regulation: Advancing groundwater protection during unconventional oil and gas development in South Africa
14:10 - 14:30	Roger Diamond - Stable isotopes of water and dissolved nitrate trace groundwater-surface water interaction and nutrient dynamics in the Crocodile River and Hartbeespoort Reservoir
14:30 - 14:50	Danita Hohne - Evaluating groundwater recharge in the Western Karoo using isotopic and chemical analyses to secure municipal water supplies
14:50 - 15:05	Thobeka Mpungose - Investigating Groundwater – Surface Water Interactions in the Eastern Karoo Basin, Kwazulu-Natal, South Africa
15:05 - 15:40	Tea/Coffee Break and Viewing of the Posters
	SESSION FOUR
15:40 - 16:20	INVITED SPEAKER Dr Roger Parsons - From Benchmarks to Burdens - The Case for Revising South Africa's Drinking Water Standards
16:20 - 16:40	Derek Whitfield - How to Better Protect & Manage our Aquifers
16:40 - 16:55	Maposhli Mokhethi - Impacts of Managed Aquifer Recharge on Groundwater Quality: Evaluating Contaminants of Emerging Concern in the Atlantis Aquifer
16:55 - 17:10	Minenhle Ndlovu - Occurrence and Distribution of Microplastics in Surface Water and Groundwater of the Greater Durban Area, Eastern South Africa
17:10 - 17:30	Jordyn Young - Understanding Geological Controls on Groundwater Contamination
19:00 - 22:00	IAH-SA Symposium Dinner at La Pineta Restaurant in Stellenbosch Prior booking and payment essential. Transport available from Stias Conference Venue and return.
THURSDAY 27 AUGUST 2026	
8:00 - 8:30	Coffee + Viewing of exhibits + posters
	SESSION FIVE
8:30 - 9:10	SESSION SPONSORED BY EDRS INVITED SPEAKER Nicholas Smith - <i>Attorney And Environmental Law Specialist South Africa</i>
9:10 - 9:30	Camille Kraak - Groundwater Quality Under Pressure: Assessing Impacts of Underground Mining Expansion in a Water-Scarce Setting
9:30 - 9:50	Aqeela Parker - Nine Years of Managed Aquifer Recharge and Associated Groundwater Quality Impacts at a Phosphate Mine on the West Coast of South Africa
9:50 - 10:30	Leshanto Moshakga & Dr Jani van Gend - A Case Study: Design and installation of a groundwater level, flow and quality monitoring network for a managed aquifer recharge site in Botswana
10:30 - 10:50	Deejaysingh Jogee - Natural Baseline Levels of Nutrients and Trace Elements in a Pristine Watershed in a Volcanic Setting
10:50 - 11:10	Manta Devi Nowbuth - Application of Geophysical Techniques to Seawater Intrusio
11:10 - 11:30	Tea/Coffee Break and Viewing of the Posters
Half day field excursions	
11:30 - 16:00	Tour to the Cape Flats (packed lunch included)
16:00	Drinks and Snacks to be enjoyed on-board the coach returning to STIAS.

FRIDAY | 28 AUGUST 2026

SESSION SIX

8:30 - 9:10	SESSION SPONSORED BY MNE OAK INVITED SPEAKER Dr. Meris Mills - <i>PhD Geology, Environmental Geochemist</i> Presentation: Avoiding analysis paralysis: getting the most from your water quality data
9:10 - 9:30	Portia Fuku - Groundwater Quality Assessment Under Emerging Pressures: Data-Driven Challenges And Adaptive Thresholds For Sustainable Management
9:30 - 9:50	Feifei Cao - Global assessment of groundwater level changes from in-situ monitoring and a review of impacts on groundwater quality
9:50 - 10:10	Keanan Woolf - Using Hydrochemistry To Identify Shallow Access To Peninsula Aquifer Groundwater Across The Diepkloof Fault, Oudtshoorn
10:10 - 10:25	Johannes van der Walt - Hydrogeochemical Characterisation of a Deep Fractured Groundwater System: Integrating Isotope Hydrology, Geophysics, And Drilling Fluid Dynamics
10:25 - 10:45	Andrew Johnstone - Water Quality in South African Pit Lakes
10:45 - 11:15	Tea/Coffee Break and Viewing of the Posters

SESSION SEVEN

11:15 - 11:35	INVITED SPEAKER Gert Meiring - <i>Pr Tech Eng FWISA – Director Professional Engineering Technologist Civil Service Group, Upington</i> Presentation: Addressing the challenges of utilizing groundwater sources for municipal use in the Northern Cape province
11:35 - 11:55	Reuben Lazarus - Effect of long-term mismanagement on iron remediation effectiveness in boreholes
11:55 - 12:15	Dr Roger Parsons - Stofbergfontein's Coastal Freshwater Lens
12:15 - 12:30	Makosha Morakaladi - Modelling Contaminant Transport and Groundwater Quality Risks Associated With High-Density Burials in South Africa
12:30 - 12:50	Lucky Baloyi - Tracing groundwater recharge sources and controls on groundwater quality in delineated aquifer to support groundwater allocation, De Aar, South Africa
12:50 - 13:00	Symposium Closing - IAH-SA
13:00	Lunch to go

The preliminary programme is subject to change without prior notice.

Session Sponsors



POSTER PRESENTATIONS - IAH-SYMPOSIUM 2026

Kaine	Andrews	Using Hydrogeochemistry and Isotopic techniques to assess groundwater recharge in the Southern main Karoo Basin, South Africa
Carlton	Aron	Groundwater flux assessment: Aquifer-Wetland interaction case study, West Coast, South Africa
Kaydee	Jantjies	Assessing groundwater vulnerability to climate change using Hydrogeochemical modeling and GIS-based risk mapping in the main Karoo Basin, South Africa
Olma	Makonto	Assessment of Effectiveness of MAR Scheme Based on Source and Abstracted Groundwater Quality: Case Study MAR Schemes, Polokwane, South Africa
George	Manga	Ecohydrogeological dynamics of groundwater-dependent ecosystems under groundwater-surface water interactions in the lower Orange River Basin, South Africa
Hans	Mbah	The Caprock transmission number: a dimensionless screening criterion for groundwater vulnerability to CO ₂ storage pressure transmission
Rebaone	Mofokeng	Opportunistic yeasts in private borehole water from rural communities in Mahikeng, South Africa
Lemogang	Mokhosi	Groundwater storage assessment in Lenasia South, City of Johannesburg, South Africa: a multi-source data approach
Minenhle	Ndlovu	Occurrence of contaminants of emerging concern in groundwater of the greater Durban region, Eastern South Africa: a non-targeted and targeted compound screening approach
Thakhani	Rambuda	Modelling groundwater flow/connection to surface water in the upper Umgeni catchment
Sascha	Roopa	Exploring the connectivity, and subsequent mine contamination of Dolomitic compartments in far West Rand, South Africa
Abongile	Xaza	Source apportionment and public health risks of Nitrate and Microbial contamination in groundwater supplies: semi-arid region of South Africa
Wian	De Klerk	Water treatment: interpreting groundwater quality for fit-for-purpose water use

Sponsors & Exhibitors

