



## DRAFT PROGRAMME: 6<sup>TH</sup> SADC GROUNDWATER CONFERENCE

PLEASE NOTE THAT THE PROGRAMME IS NOT FINAL, AND THE SCHEDULE IS SUBJECT TO REVISION.

WEDNESDAY	13 November 2024
Opening session	<b>M Motoho, Director, Department of Water Affairs, Programme Director</b> <b>G Shiinda, Chief Rapporteur</b>
9:00-9:15	<b>J Sauramba, Executive Director, SADC-GMI</b> , Welcome to the SADC Groundwater Conference and conference objectives
9:15-9:30	<b>Southern African Development Community (SADC) Secretariat</b> , Opening remarks
9:30-10:00	<b>Honourable M Moleko (MP), Minister of Natural Resources; Kingdom of Lesotho</b> , <i>Official Opening of the SADC Groundwater Conference, 2024</i>
10:00-10:30	<b>Keynote speaker, World Bank: Promoting peace across borders through conjunctive management</b>
10:30-11:00	<b>A Aureli, Keynote speaker: Surface water and Groundwater Conjunctive Management - Promoting Cooperation for Water Security</b> <b>K Pietersen</b> , Conference modalities and programme
11:00-11:30	<b>COMFORT BREAK</b>
Subtheme	<b>Using advanced technologies</b> <b>B Gwangwawa, Session Chair</b> <b>M Moropane, Rapporteur</b>
11:30-11:45	<b>Gomo, M.</b> , Ngobe, T. <i>On the Telluric Electric Frequency Selection Method for geophysical groundwater exploration</i>
11:45-12:00	<b>Johannes, M.</b> , Muchingami, I., Hamutoko, J. <i>Application of hydrogeophysical methods in characterising Lake Oponona wetland system, Cuvelai-Etoshia Basin, Namibia</i>
12:00-12:15	<b>Angula, T.</b> , Muchingami, I., Hamutoko, J. <i>A Hydrogeophysical Characterization of Typical Karoo and Nama Sedimentary Aquifers with Cases from the   Kharas Region, Namibia</i>
12:15-12:30	<b>Mokhethi, M.</b> , Chow, R., Roychoudhury, A., Towers, T. <i>Assessing the risk of using treated effluent in managed aquifer recharge schemes – a case study in the Atlantis Aquifer.</i>
12:30-12:45	<b>Mulokoshi, G.</b> , Asachi, M. <i>Urban Stormwater Treatment with Biofiltration Systems</i>
12:45-13:00	<b>Wanailonga, L.</b> , Hamutoko, J., Stuurmann, H., Muchingami, I. <i>Hydrochemical characterisation of groundwater in   Kharas Region, Namibia</i>
13:00-14:00	<b>LUNCH</b>
Special session	<b>UNESCO</b> <b>M Munamati, Session Chair</b> <b>B Kitambo, Rapporteur</b>
14:00-15:30	Sustainable groundwater utilisation under changing climatic conditions: Be Resilient Zimbabwe Project
15:30-16:00	<b>COMFORT BREAK</b>
Subtheme	<b>Using advanced technologies</b> <b>B Gwangwawa, Session Chair</b> <b>M Moropane, Rapporteur</b>
16:00-16:15	Ligavha-Mbelengwa, L., <b>Gomo, M.</b> , Madzivire, G. <i>Occurrence and spatial distribution of emerging organic contaminants in surface water, groundwater, and mine shafts in Gauteng, South Africa.</i>
16:15-16:30	<b>Nhandam, I.</b> <i>Avaliação da vulnerabilidade e contaminação das águas subterrâneas no município de Catandica -Moçambique/ Assessment of vulnerability and contamination of groundwater in the municipality of Catandica – Mozambique.</i>



16:30-16:45	<b>David, A.</b> <i>Estimation of groundwater recharge in the Kalahari aquifers of Kavango West and East Regions using the chloride mass balance method and environmental isotopes, Namibia.</i>
16:45-17:00	<b>Ashili, S.,</b> Hamutoko, J., Kambatuku, J. Review on the application of environmental isotopes and hydrochemistry techniques in hydrogeological studies in Namibia
<b>THURSDAY</b>	<b>14 November 2024</b>
<b>Subtheme</b>	<b>Using advanced technologies</b> <b>J Manda, Session Chair</b> <b>A, Kadhila, Rapporteur</b>
8:30-8:45	<b>Salom, N.,</b> Hamutoko, J., Muchingami, I. <i>Application of passive geophysical methods and hydrochemistry analysis in characterising the groundwater occurrence in the sedimentary and crystalline basement aquifers in the lower Orange-Fish basin, Namibia</i>
8:45-9:00	<b>Eino, M.,</b> Uugulu, S., Uahengo, C., Nangula, O., Shuukwanyama, A. <i>A review on groundwater contamination around the Rosh Pinah Zinc mine area, Namibia.</i>
9:00-9:15	<b>Pule, M.</b> <i>The monitoring and analysis of groundwater quality concerning acid mine drainage in Northern KwaZulu Natal.</i>
9:15-9:30	<b>Mofokeng, S.,</b> Gomo, M. <i>The impact of artefacts on the estimation of Darcy Velocity</i>
9:30-9:45	<b>Leketa, K.,</b> Abiye, T. <i>Characterising the isotopic composition of rainfall to construct a local meteoric water line for Maseru Lesotho.</i>
9:45-10:00	<b>Phori, T.</b> <i>Characterisation and assessment of precipitation in Lesotho using oxygen and hydrogen isotopes.</i>
10:00-10:15	<b>Hamutoko, J.,</b> Uugulu, S., Wanke, H., David, A., Muchingami, I. <i>The use of isotope hydrology in understanding hydrogeological processes in Namibia; a plea for environmental tracers</i>
10:15-10:30	<b>Mohale, G.,</b> Tessema, A., Ayisi, K. Hydrogeological characterization of the impact of climate change and anthropogenic factors on groundwater resource in the Klein Letaba River catchment, Mopani District of Limpopo Province.
10:30-10:45	<b>Rammutla, M.,</b> Modreck, G. <i>Investigating the influence of stratification on groundwater chemistry, faecal coliforms and stable isotopes in a typical Karoo Fractured Sandstone Aquifer</i>
10:45-11:00	Poster video presentations <ul style="list-style-type: none"> <li>• <b>de Bruyn, C.,</b> Dennis, R. <i>Exploring the unexplored: Data mining and machine learning of geohydrological datasets</i></li> <li>• <b>Mwateuvi, R.,</b> Muchingami, I., Hamutoko, J. <i>Hydrogeological characterisation of typical Nama and Karoo sedimentary aquifers in the //Kharas Region, Namibia</i></li> <li>• <b>Kakoro, S.,</b> Muchingami, I., Hamutoko, J. <i>An investigation on groundwater occurrence in the Kalahari sand aquifer with case studies from Kavango West region, Namibia</i></li> <li>• <b>Nehale, D.</b> Groundwater quality assessment and monitoring in a karst region affected by mining Operations: A case study of the Tschudi groundwater table in Namibia</li> </ul>
<b>11:00-11:30</b>	<b>COMFORT BREAK</b>
<b>Subtheme</b>	<b>Harnessing data</b> <b>J Manda, Session Chair</b> <b>A, Kadhila, Rapporteur</b>
11:30-11:45	Sonnekus, N., Du Toit, W., <b>Lalumbe, L.,</b> Ramusiya, F. <i>Review and update of hydrogeological map series of Polokwane and information brochure</i>
11:45-12:00	<b>Moropane, M.,</b> Dube, T. <i>Mapping Groundwater-Dependent Invasive Species with Remote Sensing and Machine Learning in Heuningnes Catchment, Western Cape, South Africa</i>
12:00-12:15	<b>Mmese, M.,</b> Ranganai, R., Tafesse, N., Gomo, M. <i>Hydrogeological conceptual model of the dolomitic portion of the Khakhea-Bray transboundary aquifer in Botswana.</i>
12:15-12:30	<b>Nthokwa, K.,</b> Tafesse, N., Alemaw, B., Ranganai, R. <i>Water balance model of the Motloutse sub-basin, Limpopo Basin, Botswana.</i>



12:30-12:45	<b>Kitambo, B.</b> , Papa, F., Wongchuig, S., Tourian, M., Tshimanga, R., Paris, A., Blazquez, A., Frappart, F., Moreira, D., Fleischmann, A., Kileshye, J. <i>The spatiotemporal variability of groundwater storage variation in the Congo Basin from space</i>
12:45-13:00	<b>Thum, T.</b> , De Vriendt, K., Bäuml R., Houben, G. <i>New insights into the hydrogeology of Northern Namibia (to be introduced by <b>Falco Kiowa</b>)</i>
<b>13:00-14:00</b>	<b>LUNCH</b>
<b>Special Session</b>	<b>SADC-GMI Young professionals</b>
14:00-15:30	Leveraging the Potential of Young Professionals: Developing Water Solutions for Regional Peace and Sustainability
<b>15:30-16:00</b>	<b>COMFORT BREAK</b>
<b>Subtheme</b>	<b>Harnessing data</b> <b>J Manda, Session Chair</b> <b>A, Kadhila, Rapporteur</b>
16:00-16:15	<b>Shipanga, M.</b> , Uugulu, S., Hamutoko, J. <i>Geochemical characterisation of water and sediments in Lake Oponona, Northern Namibia</i>
16:15-16:30	<b>Mogatle, K.</b> <i>Harnessing Data to Promote Peace Across Borders Through Conjunctive Water Management</i>
16:30-16:45	
16:45-17:00	
<b>FRIDAY</b>	<b>15 November 2024</b>
<b>Subtheme</b>	<b>Establishing Innovative governance structures</b> <b>A David, Session Chair</b> <b>K Mogatle, Rapporteur</b>
8:30-8:45	<b>Kadhila, A.</b> <i>The evolution of Namibia's water sector's governance and management frameworks</i>
8:45-9:00	<b>Museteka, L.</b> , Rau, S. <i>Groundwater protection in Zambia - a Guideline</i>
9:00-9:15	<b>Lukas, A.</b> <i>The threat of mining to transboundary water resources.</i>
9:15-9:30	<b>Ngobe, T.</b> , Gomo, M. <i>Transboundary issues on groundwater management in rural areas: A case study of Eswatini</i>
9:30-9:45	<b>Nkomo, S.</b> , Mathunjwa, M. <i>Towards improved groundwater management system in transboundary basin.</i>
9:45-10:00	<b>Mlonzi, V.</b> , Odume, N., Murata, C. <i>Analysing the distributive, procedural, and contextual equity dimensions of water security challenges in the Nelson Mandela Bay Metropolitan Municipality</i>
10:00-10:15	<b>Tshingana, R.</b> <i>Adopting innovative governance structures in the Democratic Republic of Congo (DRC).</i>
10:15-10:30	<b>Pietersen, K.</b> , Sauramba, J. <i>Catalysing sub-national institutions in transboundary governance and management</i>
<b>10:30-11:00</b>	<b>COMFORT BREAK</b>
<b>Special session</b>	<b>Member State</b> <b>K Pietersen, Session Chair</b> <b>K Mogatle, Rapporteur</b>
11:00-12:30	Water knows no border: Fostering a multilevel, inclusive approach to water cooperation amongst Member States.
<b>12:30-13:30</b>	<b>LUNCH</b>
<b>Closing session</b>	<b>M Motoho, Director, Department of Water Affairs, Programme Director</b>
13:30-14:00	<b>Aarnos, E.</b> <i>UN Water Convention and Conjunctive Water Management" focusing on the related work and future plans of the Convention</i>
14:00-14:15	<b>G Mulokoshi, Chief rapporteur, Key messages from the conference</b>
14:15-14:30	Conference prizes
14:30-14:45	<b>J Sauramba, Vote of thanks and closure of the conference</b>