



Sustainable Wastewater Resource Recovery and Reuse

WISA Conférence

Venue: Virtual

10 December 2020 (14:00 – 16:00 h)

Rationale

According to the United Nations 2017 World Water Development Report an estimated 80% of wastewater worldwide (over 95% in some developing countries) is globally released into the environment without treatment. On the other hand, target 6.3 of the Sustainable Development Goal 6 aims to halve the proportion of untreated wastewater and substantially increasing recycling, and safe reuse globally by 2030. As part of supporting target 6.3, the South African Water Research Development and Innovation Roadmap seeks to, *inter alia*, utilize 75% of wastewater as an alternative source by 2025. This therefore requires a paradigm shift regarding sustainable wastewater management in South Africa to generate social, environmental and economic benefits for all society, contributing to overall well-being and health, water and food security and sustainable development.

Session focus

This workshop on Wastewater Resource Recovery and Reuse will therefore focus on showcasing current and past research and development (R & D) work that demonstrates resource recovery and reuse within the water sector. The project outcomes to be presented and discussed provide typical examples of sustainable resource recovery and reuse including implemented case studies in South Africa.

Expected outcome

At the end of this session, it is expected that an enhanced and better understanding of some of the sector R & D work on sustainable resource recovery and reuse and a strengthened sector research focus, including identification of current gaps will be achieved, with forging of new partnerships for collaboration in support of the water roadmap and agenda 2030.

Programme

14:00 – 14:10	Welcome and Introduction of Session	WRC – John Ngoni Zvimba
14:10 – 14:30	System Wide Modelling - Understanding Sustainable Resource Recovery	David Ikumi, University of Cape Town
14:30 – 15:50	Sludge as a Resource and its Beneficial Utilization in support of Sustainability	Eyob Tesfamariam, University of Pretoria
15:50 – 15:10	National Learning Platform for Direct Potable Reuse in South Africa	Megan Schalkwyk, Umgeni Water
15:10 – 15:30	The role of Innovation in promoting Circular Economy in the water sector	Eustina Musvoto, TruSense Process Engineering
15:30 – 15:50	Q & A / DISCUSSION	Facilitated by WRC
15:50 – 16:00	Closing Remarks	WRC