




MEMBER PROFILE

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Study areas	
Countries / Regions	Swaziland, Zimbabwe, Lesotho and RSA / Southern Africa

Topics of last three projects	
1	Wetlands & climate change (WRC)
2	Soil erosion & rehabilitation
3	Land degradation, LDN and rehabilitation

	<u>Topics of last 10 publications</u>	<u>Publication links</u>
1	Land degradation and the management of Community Forest Resources in Swaziland (with S. Singwane)	
2	Environmental Sustainability of cultivation systems in wetlands in Zimbabwe (with T. Marambanyika)	
3	Soil conditions and the rehabilitation of soil erosion	
4	Methane and NOx fluxes in SA wetlands (with J-P Krueger et al.)	
5	The environmental context of severe erosion in the Ulundi District	
6	Greenhouse gas emission peaks following wetland rewetting (with J-P Krueger et al.)	
7	Gully erosion along major roads in South Africa (with K. Seutloali)	
8	Wetland utilization and conservation in communal areas (with T. Marambanyika)	
9	Water supply and demand in Gweru, Zimbabwe (with W. Kusena)	
10		

Research interests in water										
Climate & Water	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
Hydrological extreme events	Floods	Droughts	Ice phenomena							
Water flow	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
Surface water	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
Ground water	Soil water	Karst water	Hydrogeology	Recharge	Granite karst					
Marine Environment	Coastal waters	Estuarian waters								
Aquatic habitats/ Ecosystems	Wetlands	Lakes	Peatlands	Rivers						
Water availability	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
Modelling and GIS	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
Water quality	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
Water & Health	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
Water & Energy	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
Water management/ policy	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
Water use	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
Water Law & Economics	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
Socio-political aspects	Water history	Water wars	Water & Poverty	Access to water						