

Welcome Note

This newsletter is a special edition on the 20th anniversary of both WaterNet and the WaterNet/WARFSA/GWP-SA Symposium which will be held in Johannesburg, South Africa, 30 October— 1 November 2019. WaterNet was formed in 1999 and implements 4 main programmes, i.e. education, short professional courses, research and outreach. The Symposia have been held annually in the Eastern and Southern African regions for the past 20 years to promote interaction among policymakers, academics, practitioners from water and related sectors, and cooperating partners. Together, they identify regional issues, gaps and priorities that require further research and support. Great emphasis will be placed on integration of knowledge, particularly involving scholars from the natural and social sciences.

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The 20th WaterNet/WARFSA/GWP-SA Symposium will be held in Johannesburg, South Africa from 30 October – 1 November 2019 under the theme “Integrated Water Resources Development and Management: Leaving No One Behind for Water Security in Eastern and Southern Africa”. The University of Johannesburg is the lead host of the 20th WaterNet/WARFSA/GWP-SA Symposium.

The sub-themes of the Symposium have been aligned to those of the SADC Research Agenda under the Regional Strategic Action Plan on Integrated Water Resources Development and Management Phase IV. The main objective of the SADC Research Agenda, is:

- Promoting evidence-based implementation of SADC water programmes and projects through multi- and inter-disciplinary research, and synthesis of existing and new information, which will lead to a realization of SADC developmental goals.

The sub-themes of the 20th WaterNet/WARFSA/GWP-SA Symposium will be as follows:

- Innovative approaches, practices and technologies for affordable water supply, and sanitation services
- Water governance for sustainable, equitable and affordable water services
- Water security for economic development, job creation, and sustainable livelihood Water, Land, Energy and Agriculture
- Changing hydro-climatic regimes and planning tools for climate resilient development pathways
- Water, Ecosystems and the Environment

The Symposium includes 9 special sessions with a focus on addressing various water related challenges.

Message from the WaterNet Board of Trustees Chairperson on the 20th WaterNet/WARFSA/GWP-SA Symposium



It gives me great joy and satisfaction to welcome the SADC, East Africa and International Water Community at this juncture on the eve of the 20th WaterNet/WARFSA/GWP-SA Symposium which will be held in Johannesburg, South Africa, 30th October—1st November 2019. This year marks the 20th symposium held in Southern and Eastern Africa since the year 2000. The year 2019 also marks the 20th anniversary of WaterNet which was formed in 1999 in Victoria Falls, Zimbabwe. WaterNet has been championing human capacity building in intergraded water resources management through education, short professional courses, research and outreach since its formation. On behalf of the WaterNet Board of Trustees, I would like to sincerely thank those who have contributed in various roles towards the planning and successful delivery of the 20 symposia that have taken place to date.

The symposia have been held in a different Southern and Eastern African countries on a rotational basis. We remember with fond memories, the inaugural symposium which was held in 2000 in Maputo, Mozambique. Since then different institutions and countries have successfully hosted this important platform for sharing water related research and also dialogue with policy maker and development practitioners in order to advance the discipline of integrated water resources management. Many research publications have come out of these symposia.

WaterNet is grateful to the Southern African Development Community (SADC) for adopting WaterNet as one of its subsidiary projects. We are also grateful to the different governments of SADC and Eastern Africa for their support to WaterNet and for hosting the symposia in their countries. So far, the symposia have been held in 13 SADC countries and, also, in Uganda. Countries like Botswana, Malawi, Namibia, South Africa and Zambia have hosted these symposia more than once.

The WaterNet Secretariat continues to play a critical role in the overall coordination of these symposia. Their tireless efforts are highly appreciated. The Secretariat works in close collaboration with the local organizing committees for the different venues.

WaterNet would like to specifically thank our supporting agencies who have sponsored the events in different countries. This also extends to our international cooperating partners who have generously supported WaterNet activities, including the symposia, in the last 20 years. The Netherlands Government, through the Directorate-General for International Cooperation (DGIS), has supported WaterNet business throughout and this is highly acknowledged.

As we celebrate this historic 20th symposium, let us take time to reflect more on the contributions of WaterNet to human capacity building in general and the diverse research outputs that come out of the annual symposia in particular. Efforts have been made to recognize outstanding contributions to water science through awards such as the Lewis Jonker Award for Young Scientists. A number of events have been lined to celebrate the 20th WaterNet/WARFSA/GWP-SA Symposium. These include recognition of WaterNet founding members who have been invited to join us to mark this historic year. Their reflections of the past 20 years will inspire us to look into the next 20 years of WaterNet.

May I also take this opportunity to thank our partners who continue to support the annual symposia. These include the Global Water Partnership, Southern Africa, the International Association of Hydrological Sciences and NEPAD SANWATCE to mention but a few. I hope our partnership will continue into the future.

The WaterNet Management Board wishes you all a fruitful 20th Symposium and the very best of the remainder of 2019.

Welcome Message from the Local Organising Committee Chairperson of the 20th WaterNet/WARFSA/GWP-SA Symposium

Dear Participates



It is summertime in Southern Africa and the temperatures are now averaging 30⁰C and rising but we are still waiting for the rains. Under these uncertain climatic conditions, I would like to take this opportunity to welcome you to the City of Johannesburg. The University of Johannesburg (UJ) in collaboration with the Tourism Bureau an entity of the Government of South Africa is hosting the 20th WaterNet/WARFSA/GWP-SA Symposium. This is a special year for Waternet as we celebrate its 20th birthday. With this added dimension, we hope that esteemed delegates and participates will have fruitful business and leisure stay in the City of Gold, Egoli. The 13th WaterNet/WARFSA/GWP-SA Symposium, seven years ago, was successfully hosted by UJ and we hope that with this 20th edition, we will give you a second chance to have some exhilarating experiences in the Gauteng City as part of your post-conference excursions. It is a fact that worldwide, financial markets and economies are showing signs of weaker performance but with determina-

tion as shown by the significantly large number of delegates and participants registered for the WaterNet/WARFSA/GWP-SA Symposium@20, there is hope for a better future. The Local Organising Committee (LOC) is thrilled that this conference will be a festival of ideas to solve water issues induced by climate change, poor governance (historical and current), unsustainable practices which in our region include deforestation, mining, industrial and domestic pollution. It is our esteemed view that it is this generation of delegates, who are researchers, activists and participates who will be gathering at Indaba Conference Centre in Johannesburg to share world class information which will make us better equipped to come up with solutions to these challenges

We look forward to the active participation of researchers, policymakers, academia, practitioners, the private and public sectors and partners from water and related sectors attending 20th Symposium. Let us use this opportunity to share cutting edge and positive research outcomes and have rigorous debate as critical input for evidence-based policies that decision makers can use to direct investments and implementation along sustainable pathways.

Dr Caliphs Zvinowanda
Chairperson: 20th WaterNet/WARFSA/GWP-SA Symposium LOC

Institutions Behind the 20th Waternet/WARFSA/GWP-SA Symposium

The organisation of the 20th Symposium has been an institutional team effort. Deepest appreciation goes to the annual symposia organisers and funders, i.e. WaterNet, the Government of the Netherlands through the Directorate-General for International Cooperation (DGIS), the IHE Delft Institute for Water Education, the Global Water Partnership Southern Africa and the International Association of Hydrological Sciences.

WaterNet



WaterNet is a regional network for capacity building in Integrated Water Resources Management (IWRM) in Eastern and Southern Africa, with a

membership of 79 university departments and research institutions in fifteen countries. WaterNet is a Southern Africa Development Community (SADC) subsidiary institution for human capacity development and its major aims are to build institutional and human capacity in IWRM through training, education, research and outreach by harnessing the complementary strengths of member institutions in the region and elsewhere.

The Vision of WaterNet is:

- “Ensuring a future in which the SADC and East African Community (EAC) regions have the institutional and human capacity to educate their own water managers, both new graduates and lifelong learners, capable of contributing to the equitable sharing and sustainable utilisation of water resources for poverty alleviation, economic development, human wellbeing and environmental security.”

The Mission of WaterNet is:

- “to achieve a sustainable and deep impact upon institutional and human capacity in Eastern and Southern Africa in the field of IWRM through training, education, and research, by harnessing the complementary strengths of institutions in the region”.

Directorate-General for International Cooperation (DGIS) – The Government of the Netherlands

WaterNet has received much financial support from DGIS for all its programmes including the annual symposia. All the Phases of WaterNet, i.e. I, II, III and IV (the current one) have been supported by DGIS. DGIS is responsible for development cooperation policy and for its coordination, implementation and funding. An important DGIS focus is coherence between Dutch and EU policy on developing countries. In order to formulate and carry out development policy, the Netherlands works with the governments of other countries and with international organisations such as the UN, the World Bank and the EU. Civil society is another important source of partners, which include non-governmental organisations and interest groups such as the employers' confederation, VNO/NCW, and the small and medium-sized enterprise lobby group, MKB-Nederland. >>>

DGIS themes include gender, AIDS, education, sustainable economic development and the environment.

IHE Delft Institute for Water Education



WaterNet has partnered and received technical support from IHE Delft Institute for Water Education. IHE has actively taken part in the annual symposia since its inception in 2000.

IHE Delft Institute for Water Education is the largest international graduate water education facility in the world and is based in Delft, Netherlands. The Institute confers fully accredited MSc degrees, and PhD degrees in collaboration with partners in the Netherlands. Since 1957 the Institute has provided graduate education to more than 15,000 water professionals from over 160 countries.

IHE Delft is instrumental in the strengthening of efforts by other universities and research centres in increasing knowledge and skills of professionals working in the water sector. The knowledge and services of IHE Delft in human and institutional capacity-building are vital to the achievement of Sustainable Development Goals, especially SDG 6 (providing access to clean water and sanitation).

IHE Delft carries out three types of activities that complement and reinforce each other in the broad field of water engineering, water management, environment, sanitation, and governance. Its core activities are education, research, and capacity building, with additional functions including: Offering education, training, and research;

- Providing capacity development services, particularly for developing countries;
- Setting up and managing international networks of educational and water sector institutions and organizations;
- Serving as a policy forum for UNESCO Member States and other stakeholders;
- Providing professional expertise and advice on water education; and
- Playing a leadership role in international standard setting for postgraduate water education programmes and continuing professional education.

Since its inception in 1957, the Institute has provided postgraduate education to numerous professionals (engineers and scientists) almost entirely from developing/transitional countries, from over 160 countries. It has also graduated over 100 PhD candidates and executed numerous research and capacity development projects throughout the world. Many of the alumni have reached senior positions in their home countries upon return and remain key links in the global water network.

Institutions Behind the 19th WaterNet/WARFSA/GWP-SA

Global Water Partnership Southern Africa (GWPSA)



The Global Water Partnership (GWP) is a global action network with over 3,000 Partner organisations in 183 countries. The network has 86 Country Water Partnerships and 13 Regional Water Partnerships.

The network is open to all organisations involved in water resources management: developed and developing country government institutions, agencies of the United Nations, bi- and multi-lateral development banks, professional associations, research institutions, non-governmental organisations, and the private sector.

GWP's action network provides knowledge and builds capacity to improve water management at all levels: global, regional, national and local. GWP does not operate alone. Its networking approach provides a mechanism for coordinated action and adds value to the work of many other key development partners.

GWPSA is an 'on-the-ground' network that mobilises government, civil society, and the commercial sector to engage with each other to solve water problems.

Usually those problems stem from the demands of competing water users so it's about how to manage, or govern, the resource itself. The focus is on improving the way water is managed across sectors by promoting an integrated approach.

GWP's comparative advantage is a large and diverse multi-stakeholder network that can deploy 20 years of knowledge and experience in applying the cross-sectoral integrated water resources management approach to sustainable development.

International Association of Hydrological Sciences (IAHS)



IAHS promotes the study of all aspects of hydrology through discussion, comparison, and publication of research results and through the initiation of research that requires international cooperation. IAHS publishes the monthly Hydrological Sciences Journal, the Red Book Series that includes proceedings of between eight and 12 symposia per year, and other more specialised publications.

IAHS maintains strong connections with the International Hydrological Programme of UNESCO and with the Hydrology and Water Resources Programme of the World Meteorological Organisation (WMO). >>>

GWP-SA is a key partner in the organisation of the annual symposia alongside WaterNet and the IAHS.

The following International Commissions of IAHS initiate and conduct conferences, symposia, workshops, courses, and research programmes:

- International Commission on Continental Erosion (ICCE)
- International Commission on the Coupled Land-Atmosphere System (ICCLAS)
- International Commission on Groundwater (ICGW)
- International Commission on Remote Sensing (ICRS)
- International Commission on Snow and Ice Hydrology (ICSIH)
- International Commission on Statistical Hydrology (ICSH)
- International Commission on Surface Water (ICSW)
- International Commission on Tracers (ICT)
- International Commission on Water Quality (ICWQ)
- International Commission on Water Resources Systems (ICWRS)

The University of Johannesburg: Host for the 20th WaterNet/WARFSA/GWP-SA Symposium



The 20th WaterNet/WARFSA/GWP-SA Symposium is being hosted by the University of Zambia (UNZA). The University of Johannesburg (known colloquially as "UJ") is a public university located in Johannesburg, South Africa. The University of Johannesburg came into existence on 1 January 2005 as the result of a merger between the Rand Afrikaans University (RAU), the Technikon Witwatersrand (TWR) and the Soweto and East Rand campuses of Vista University.

The vision of the UJ is to be "an international University of choice, anchored in Africa, dynamically shaping the future". The mission can be described as follows: "inspiring its community to transform and serve humanity through innovation and the collaborative pursuit of knowledge". These are underpinned by four values, namely: imagination, conversation, regeneration and ethical foundation. The six strategic objectives provide a focused means for realising the Vision, Mission and Values of the University as set out above. They further represent a re-working of the original UJ Strategic Thrusts for 2020 in the context of a wider positioning of the University as "The Pan-African" Centre for Critical Intellectual Inquiry, with the primary goal of achieving global excellence and stature.

The six strategic objectives are:

- i) Excellence in Research and Innovation.
- ii) Excellence in Teaching and Learning.
- iii) An International Profile for Global Excellence and Stature.
- iv) Enriching Student-Friendly Learning and Living Experience.
- v) Active National and Global Reputation Management, and
- vi) Fitness for Global Excellence and Stature (GES).

LOCAL SPONSORS FOR THE 20TH WATERNET/WARFSA/GWP

The LOC has received financial and material support for the hosting of the 20th WaterNet/WARFSA/GWP-SA Symposium from a number of organisations in South Africa and beyond. The following is the list of Sponsors for the 20th WaterNet/WARFSA/GWP-SA Symposium:

The AU/ NEPAD AFRICAN NETWORKS OF WATER CENTRES OF EXCELLENCE



Inspiring new ways

www.southafrica.net

SOUTH AFRICA TOURISM

GAUTENG TOURISM









THE ENERGY & WATER SECTOR EDUCATION TRAINING AUTHORITY (EWSETA)



Meet the LOC Members for Symposium 20 and their Roles

Name	Picture	Institution and Position	Role in LOC
Dr Calipfs Zvinowanda		Senior Lecturer Chemical Sciences - University of Johannesburg	LOC Conference Co-Chair
Dr. Washington Nyabeze		University of Johannesburg – Senior Research Associate/ WR Nyabeze and associates - Director	LOC Conference Co-Chair
Mrs. Lebohang Mokhomatha		University of Johannesburg Coordinator: Government and Stakeholder Relations	LOC Coordinator
Mrs. Nokuthula Hlabahlaba		Marketing Coordinator Faculty of Health Sciences University of Johannesburg	Marketing & Sponsorship Coordinator
Mr. Sifiso Tshabalala		Administrative Officer Applied Chemistry - University of Johannesburg	LOC Admin & Logistic Coordinator
Ms. Julienne Ndjiki		Programme Officer M&E at GPWSA	LOC Member
Dr. Soraya Malinga		Senior Lecturer Chemical Sciences - University of Johannesburg	LOC Scientific Committee Member

Meet the LOC Members for Symposium 20 and their Roles

Name	Picture	Institution and Position	Role in LOC
Miss. Precious Maputle		Marketing Coordinator Faculty of Engineering and Built Environment University of Johannesburg	LOC Logistics Coordinator
Prof. Richard Moutloali		Associate Professor Chemical Sciences – University of Johannesburg	LOC Scientific Chair
Prof. James Ramontja		Associate Professor Chemical Sciences – University of Johannesburg	LOC Scientific Committee Member
Prof. Philiswa Nomngongo		Associate Professor Chemical Sciences – University of Johannesburg	LOC Scientific Committee Member
Prof. Tobias Barnard		Associate Professor Environmental Health	LOC Admin & Logistic Coordinator
Prof. Megersa Dinka		Associate Professor Civil Engineering Science	LOC Scientific Committee Member

LEWIS JONKER 2018 WINNER ATTENDS INTERNATIONAL CONFERENCE



The WaterNet/WARFSA/GWP-SA Symposium Lewis Jonker Award for the Best Young Water Scientist is a regional award presented annually to a young researcher (under 35 years of age) for outstanding research in Integrated Water Resources Management. The accolade aims to reward youthful excellence and to encourage young researchers to be innovative and provide solutions in the water sector and broader developmental goals in Southern and East Africa. The award was previously known as the Best Young Water Scientist Award until 2015 when it was changed to the Lewis Jonker Award for the Best Young Water Scientist in honour of the late Mr Lewis Jonker who passed on in May the same year. Lewis was a dedicated member of WaterNet and former manager of the WaterNet secretariat.

The winner of the 2018, Lewis Jonker Award for the Best Young Water Scientist was Sinqobile Fanele Ndulini, a PhD candidate in the Dept. Biochemistry & Microbiology at the University of Zululand in South Africa. Her presentation at the 19th Symposium was titled “A green technology for pathogens removal from domestic wastewater”.

As part of her award, Sinqobile was partially funded to attend an international conference of her choice. She attended the Water, Waste and Energy 5TH International Congress, Paris, France, 22-24 July 2019. Her presentation during the Paris conference was on the synthesis of nanoparticles from microbial origin (bacteria) for bioremediation the heavy metals contamination from sludge for safe utilization and disposal.

This is part of her ongoing PhD study aimed at aiding the limiting of environmental pollution and will improve public health. It is one of the major preventative majors towards water resources contamination.

Sinqobile’s main interest in the conference was on waste management, since poor waste management is the major source or cause of water sources contamination. It appeared that heavy metals from wastes like sludge are one of major pollutants in surface as well as ground water. However, bioremediation technologies were also discussed. They included the use of nanomaterials, mushrooms and worms as tools for bioremediation of heavy metals from wastes. The presentation done by Sinqobile was based on the utilization of bacteria synthesized nanoparticles for removal of heavy metals from sludge.

The congress was attended by participants from 26 different countries which include France, Portugal, United kingdom, United Arab Emirates, China, Jordan, Spain, Turkey, India, Hungary, Iran, Tunisia, South Africa etc. It was noted that water is the driving force of all nature. The congress participants noted that it was crucial to create an international forum of academics, researchers and scientists from worldwide to discuss worldwide results and proposals regarding the soundest issues related to water, waste and energy.

The following are some of the highlights from the congress:

- ◆ Applications of magnetism and nanomagnetism in wastewater and solid waste remediation
- ◆ Biotechnological applications of magnetism
 - Nanomaterials
 - Adsorption
 - Catalysts
 - Sensing and detection analysis
 - Magnetic separation
- ◆ Encouragement of the applications of microbial nanoparticles
- ◆ Heavy metals bioremediation by mushrooms
- ◆ Heavy metals bioremediation using worms
- ◆ Saving water through development of a smart prototype for smart irrigation
- ◆ Using water invoices to foster consumer awareness

Sinqobile thanked WaterNet for providing the award funds which enabled her to attend the congress in France. She said “My attendance to the 5th international congress Water, Waste and Energy gave me a platform to share views with international academics and come up with solutions to problems our countries are facing. Even though we all came from different parts of the world, I noted that most of our problems are similar. For an example the water scarcity, management of vast amounts of waste generated daily and energy problems”

HISTORY OF THE SYMPOSIA

The Symposia have been held annually in the Eastern and Southern African regions since the year 2000 to promote interaction among policymakers, academics, practitioners from water and related sectors, and cooperating partners. Together, they identify regional issues, gaps and priorities that require further research and support. Great emphasis is placed on integration of knowledge, particularly involving scholars from the natural and social sciences. We list here the venues of the symposia since 2000.

- 1st WaterNet/WARFSA Symposium, held in Maputo, Mozambique, 2000
- 2nd WaterNet/WARFSA Symposium, held in, Cape Town, South Africa, 2001
- 3rd WaterNet/WARFSA Symposium, held in Dar es Salaam, Tanzania, 2002
- 4th WaterNet/WARFSA Symposium, held in Gaborone, Botswana 2003
- 5th WaterNet/WARFSA Symposium, held in Windhoek, Namibia, 2004
- 6th WaterNet/WARFSA Symposium, held in Ezulwini, eSwatini, 2005
- 7th WaterNet/WARFSA/GWPSA Symposium, held in Lilongwe, Malawi, 2006
- 8th WaterNet/WARFSA/GWPSA Symposium, held in Lusaka, Zambia, 2007
- 9th WaterNet/WARFSA/GWPSA Symposium, held in Johannesburg, South Africa 2008,
- 10th WaterNet/WARFSA/GWPSA Symposium, held in Entebbe, Uganda 2009
- 11th WaterNet/WARFSA/GWPSA Symposium, held in Victoria Falls, Zimbabwe, 2010
- 12th WaterNet/WARFSA/GWPSA Symposium, held in, Maputo, Mozambique, 2011
- 13th WaterNet/WARFSA/GWPSA Symposium, held in Johannesburg, South Africa, 2012
- 14th WaterNet/WARFSA/GWPSA Symposium, held in Dar es Salaam, Tanzania, 2013
- 15th WaterNet/WARFSA/GWPSA Symposium, held in, Lilongwe, Malawi, 2014
- 16th WaterNet/WARFSA/GWPSA Symposium, held in, Mauritius, 2015
- 17th WaterNet/WARFSA/GWPSA Symposium, held in Gaborone, Botswana, 2016
- 18th WaterNet/WARFSA/GWPSA Symposium, held in Swakopmund, Namibia, 2018
- 19th WaterNet/WARFSA/GWPSA Symposium, held in, Livingstone, Zambia, 31 Oct—2 Nov 2018
- 20th WaterNet/WARFSA/GWPSA Symposium, to be held in Johannesburg, South Africa, 30 Oct—1 Nov 2019

THE SYMPOSIA IN PICTURES



13th Symposium, Dar es Salaam, Tanzania



15th Symposium, Lilongwe, Malawi



16th Symposium, Port Louis, Mauritius



18th Symposium, Swakopmund, Namibia



17th Symposium, Gaborone, Botswana

WaterNet Celebrating 20th Anniversary

The year 2019 marks 20 years since WaterNet was formed during the founding workshop held, 1-4 March 1999 in Victoria Falls, Zimbabwe. This article takes a look at the formation of WaterNet. The founding workshop was graced by the presence of HRH the Prince of Orange. The Founding Workshop affirmed the following:

- Consensus was reached over the meaning of the concept of Integrated Water Resources Management.
- The Southern Africa Vision for Water was endorsed and adopted by WaterNet.
- The Mission of WaterNet, in terms of WaterNet's contribution to the Vision, was defined.
- Agreement was reached over the organisational structure of WaterNet.
- Membership of WaterNet was defined, the Founding Members committing themselves to the principles of IWRM, and to making available and sharing their expertise under the umbrella of WaterNet.
- A Steering Committee was elected.
- Some needs of the region in terms of expertise for IWRM were identified.
- The capacities (available expertise) of the member institutions were noted.
- The capacities and needs were matched, resulting in the identification of a large number of topics for education and training to be made available to the region.
- It was agreed to develop a Regional Master Degree Programme in Integrated Water Resources Management, based on a modular structure, with the course modules to be offered by various members forming the building blocks of the Programme.
- Informed by the foregoing, topics for 28 course modules were identified that will have to be strengthened and/or developed. For each module, the partner institutions were identified, as well as the coordinating institution.
- Consensus over a Plan of Activities was reached, with specific reference to the modules that will be developed by the members: 22 course modules will be developed within a period of one year. The remaining 6 modules will require two years for their development.
- The first Steering Committee Meeting was held.

Below is the picture taken in Victoria Falls in 1999 during the WaterNet Founding Workshop



WaterNet Celebrating 20th Anniversary

The WaterNet founding members who were present in Victoria Falls during the founding workshop crafted the vision and mission of the organisation. They appended their original signatures below the vision and mission which they agreed on. Below is a copy of the document which they signed.



Building Capacity for Water Resources Management in Southern Africa

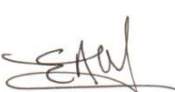
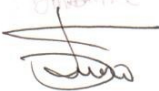
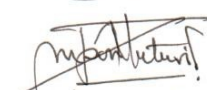
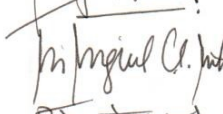
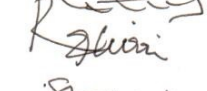




Vision

Equitable and sustainable utilization of water for social, environmental justice, regional integration and economic benefit for present and future generations in Southern Africa.

Mission

To enable the people of Southern Africa to efficiently and effectively manage their water resources, WaterNet seeks to enhance regional capacity in Integrated Water Resources Management through training, education, research and outreach by harnessing the complementary strengths of the region.

Victoria Falls, Zimbabwe, 4 March 2000

 UZ Faculty of Engineering.
 UNIVERSIDADE EDUARDO MONDLANE, DECI, FE
 INSTITUTE FOR METEOROLOGICAL TRAINING & RESEARCH
 FACULDADE AGRONOMIA e ENGENHARIA FLORESTAL, UNIV. E. MONDLANE
 UNIVERSITY OF THE WESTERN CAPE
 Dept. of Civil and Env. Eng, UNIVERSITY OF ZAMBIA
 Dept Geology, Univ of Botswana -
 Africa University, Mutema, Zimbabwe.
 Dept of Civil & Water Eng, U.S.T., Bulawayo Zimbabwe

CUP SOUTHERN AFRICA
 Water Sector
 Africa
 Unit.

Upcoming...

20TH WATERNET/WARFSA/GWPSA SYMPOSIUM

Integrated Water Resources Development and Management: Leaving No One Behind for Water Security in Eastern and Southern Africa

Jointly convened with the International Association of Hydrological Sciences (IAHS) and the Local Organizing Committee led by the University of Johannesburg

With support from the Government of South Africa

**Indaba Hotel, Spa & Conference Centre, Fourways, Johannesburg, South Africa
30th October – 1st November 2019**



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