

Welcome Note

As we start 2019; it's a time to reflect on progress made towards goals and targets set for 2018 in general and Phase IV in particular. WaterNet wishes to thank all members, partners, and stakeholders who contributed to the success of the network in 2018. The WaterNet Management Board calls on all members to work together in order to ensure the success of Phase IV which will run up to 2021.

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The 19th WaterNet/WARFSA/GWP-SA Symposium was successfully held at the Avani Victoria Falls Resort, Livingstone, Zambia from 31st October – 2nd November 2018. The theme for the Symposium was *“Integrated Water Resources Development and Management: Managing Water for the Future in a Changing Environment in Eastern and Southern Africa”*

The annual Symposia remains a platform for water professionals to share advances in research and education related to Integrated Water Resources Management in the Eastern and Southern African regions and beyond. Water professionals concerned with the wise use of water regard this as a key annual event. To date, 19 Symposia have been organized attracting an average 400 water professionals.

Symposium 18's programme, just like in other years consisted of scientific presentations highlighting the latest research achievements as well as more general conceptual papers and special sessions.

Symposium 19 was officially opened by Dr Edward Chomba, the Permanent Secretary: Ministry of Water Development, Sanitation and Environmental Protection >>>Page 4

WaterNet Trust has a new Chairperson



Dr Hodson Makurira is the new WaterNet Trust Chairperson for the next four years. He takes over from Dr Lapologang Magole who assumed the chairpersonship of the Trust in 2014.

Dr Makurira holds a BSc in Civil Engineering from the University of Zimbabwe, an MSc in Water and Environmental Resources Management from the IHE -Delft and a PhD in Water Management from Delft University of Technology. He worked for the Ministry of Water Resources and the Zimbabwe National Water Authority (ZINWA) before joining the Department of Civil Engineering in 2003. He was Chairman of the Department of Civil Engineering during 2012-2014.

Dr Makurira teaches in the undergraduate and post-graduate water engineering programmes. He has participated in MSc capacity building programmes in the Department of Civil Engineering at UZ since 1998. His active involvement in research has seen him publishing many articles in internationally recognised journals.

Dr Makurira is a Fellow of the Zimbabwe Institution of Engineers and is registered as a Professional Engineer with the Engineering Council of Zimbabwe. He is also the national representative to the International Association of Hydrological Sciences.

Dr Makurira's Vision of WaterNet is highlighted below:

"I wish to see a rejuvenated WaterNet family that will adapt to the new environment where more regional ownership of the programme is exhibited through participation of member countries and partners in creating more relevant programmes, research opportunities, promotion of young scientists' engagement and engagement of society".

The chairperson has several priorities which are as follows:

- Successful completion of Phase 4 and crafting of a more exciting Phase 5 anchored on sustainability
- More regional ownership through local fundraising efforts
- Diversity in research centred on network collaborations
- Creation of a stronger network that brings together more capacity building and research institutions
- Better talent identification and management through involvement of young scientists

Dr Makurira highlighted that the network requires more robust sustainability strategies. Along with global trends, funding channels are shrinking yet demand for capacity building continues to rise in the region. Institutions benefitting from the capacity building efforts should play a more active role in developing strategies to increase the training and research base. The current funding sources cannot sustain the current training mode of core and specialisation institutions resulting in substantial travel of participants. Basically, this means that the current model needs to be reviewed in line with existing and more realistic trends.

He further on highlighted that capacity building efforts of the network have led to numerous research outputs and, yet, the number of these research efforts that have been followed through to real solutions to societal problems are not readily identified. This may suggest that the network is not making itself visible enough from that perspective or there may be a disconnect between our research efforts and adoption of these research efforts by implementing stakeholders. In addition to the tracer surveys to identify where our graduates are, there is also need to follow up on the impact of our research outputs.

Dr Makurira message to the membership is "to continue to work together as a strong and united team. Waternet has grown tremendously from its conceptualisation two decades ago and is now widely recognised in the region and globally as a strong and well-coordinated capacity building and research network. This can only be maintained and improved through active participation of all members. The WaterNet Management Board and the Secretariat will be readily available to consider positive contribution from the entire membership and beyond.

19th Symposium Opening Ceremony

The opening ceremony of the 19th Symposium was attended by over 300 delegates who included participants to the symposium as well as invited guests from various government Ministries and organisations from Zambia.



The Vice Chancellor of the University of Zambia, Prof Luke Mumba gave the welcoming remarks on behalf of his University. He stated by welcoming all the participants to Livingstone and in particular to the **19th WaterNet/WARFSA/GWP-SA Symposium** jointly organised by the University of Zambia (UNZA), the Ministry of Water Development, Sanitation and Environmental Protection and several partners within Zambia. He commended the UNZA's Department of Civil and Environmental Engineering in the School of Engineering for putting up a winning bid for the 19th Symposium.

Prof Mumba highlighted that the 19th Symposium's theme on 'Integrated Water Resources Development and Management: Managing Water for the Future in a Changing Environment in Eastern and Southern Africa' goes without mention that there is a lot of evidence that suggests that our environment is constantly changing. The precise nature of the future that will actually unfold is inherently uncertain.

Prof Mumba noted that a number of drivers of change and challenges that will impact on growth and development have been postulated. Some of the major drivers are climate change, population growth, food crises, energy crises, water scarcity, extreme events, dietary change, urbanization and deforestation. These drivers create challenges and pose threats on the one hand, but also provide some opportunities for accelerated growth, research and development on the other. He highlighted that it was his hope that the conference papers responded to these challenges and threats in a balanced way that sets a call to action. He went on to call upon SADC-WATERNET to ensure that the presentations in the conference are translated for use, by a non-technical audience. This ensures that the common person out there can understand how these drivers of change may impact him or her. In so doing, a buy in from these stakeholders who are often forgotten at such high-level meetings is created.



In her remarks, Dr Lapologang Magole, the then WaterNet Trust Chairperson welcomed all participants to what she termed the annual water pilgrimage. She highlighted that managing for the future mean claiming one's rights without compromising the rights of future generations, otherwise known as sustainability. The changing environment refers to climate change, economic change, socio-political change, technological change and urbanization. The integration part refers to blended, together, corporation, collaboration, co-learning, co-understanding, co-creation. Thus, integration mean bringing all views and ideas on the nature of issues and solutions together to the table!

Dr Magole outlined the programmes that are implemented by WaterNet which are:

- Regional Masters Programme in IWRM
- Short professional training
- Collaborative research projects
- Outreach which involves the annual symposia

Dr Magole expressed satisfaction at the model which has seen some notable successes in all its programmes. Regarding the symposia, she highlighted that this continues to attract high numbers and the event has been held for 19 straight years. She however, expressed fear in that the sustainability of WaterNet's programmes are very much under threat since these are mostly donor funded. The commitment of donor partners has been tested to exhaustion. The Regional Masters Programme in IWRM is largely sponsored and dependent on The Government of the Netherlands to whom the Network is very grateful. However it's sustainability requires the two regions involved to take ownership and start providing fellowships as dependence on donors is a sustainability disaster. The short professional training is paid for by a group of international donors led by GIZ. Again, the region to take ownership of this important targeted development of the capacity of our water managers and give financial support to this important initiatives.

19th Symposium Opening Ceremony



Dr Edward Chomba highlighted that the 19th Symposium brought together stakeholders in the water sector to discuss scientific issues, on-going policy initiatives in order to envision future course of action. He said that without such regular meetings and discussions among stakeholders on relevant issues, neither scientific advancement nor effective policy implementation can really make good progress. We therefore have an opportunity to meet, share knowledge and suggest best practices in the sector.

Dr Chomba urged the participants to seriously consider issues related to water, energy and food which are essential for human well-being and sustainable development in the deliberations. He said a nexus approach will help us to better understand the complex and dynamic relationship between water, energy and food, so that we can manage its limited resources sustainably, taking into account different economic, social and environmental goals.

He ended his speech by officially opening the 19th WaterNet/WARFSA/GWPSA Symposium officially open.

The Bishop said approach helps to identify and manage trade-offs and to build synergies through response options, allowing for more integrated and cost-effective planning, decision-making, implementing, monitoring and evaluating. It needs to be viewed as a critical development agenda. According to the FAO the three sectors - water security, energy security and food security are inextricably linked and that actions in one area more often than not have impacts in one or both of the others.

Bishop Chomba wished the participants fruitful discussions, enlightening scientific presentations and the kind of networking which should glue the water community together as in order to forge ahead with the agenda of integrated water resources management and development in a changing environment.



Water-Net Alum-nus from Zam-bia, Ms. Beauty S. Mbale gave remarks on be-half of

the WaterNet Alumni in Zambia. She started by thanking WaterNet for deciding to host the Symposium 19 in Zambia. She highlighted that “as the WaterNet Alumni who are gracious recipients of the WaterNet Scholarship since its inception and indeed on my own behalf, allow me to firstly extend our heartfelt gratitude to the Organisers for having chosen Zambia to host this important occasion”.

She went on to say the gesture to host the symposium in Zambia is warmly received as it goes to show that water is everyone’s business and we all have an important role to play regarding its sustainability thereof. She also thanked the local organising committee members who worked tirelessly to actualize the 19th Symposium to ensure that participants are comfortable and felt at home away from home. She also appreciated all the sponsorship by different organisations towards the hosting of symposium

Ms Mbale saluted all the speakers and presenters for tapping into their various expertise and sharing the research findings and trends that affect all of us as water is life.

With regards to the Regional Masters Programme in IWRM, Ms Mbale applauded the hosts, i.e. University of Dar es Salaam in Tanzania and University of Zimbabwe, whose highly qualified staff, continue to mentor and provide the kind of capacity building package that is best suited in not just the water sector but other forums such as lobbying and shaping policies through the IWRM Master’s program, research and sharing of best practices of the IWRM approach which are ideal, applicable and relevant to the benefit of not just the water sector in the region but beyond.

Ms Mbale went on to appreciate the sponsor of the Regional Masters Programme in IWRM. She said, as the Alumni of the programme, they are grateful to the support provided by the Government of the Netherlands through WaterNet. She highlighted that, the sponsors sought to invest in what at the time may have seemed insignificant, but what is now known as the future as today, society is realizing that water is the most precious resource.

Ms Mbale expressed gratitude at the regional perspective of the programme which enabled the alumni to network with various experts in the water sector, this having a positive impact on career development. She urged those who would like to join the WaterNet family to be highly motivated in solving the water management challenges and being involved in this will show one the many issues surrounding our vital and most important commodity!

18th Symposium in Pictures



Delegates arriving at the venue of the 19th Symposium



Poster session



Zambia LOC members during the official opening ceremony of the last symposium



Victoria Falls excursion



Delegates follow proceedings during the official opening ceremony



Closing Gala diner

19th Symposium: Summary of Sessions

The symposium had a total of 28 planned sessions, of which 4 were plenaries, 16 thematic sessions and 9 special sessions.

Plenaries included the opening, scientific and closing Special sessions, the following sessions were convened by various institutions:

- **AfriAlliance Roadshow 1- Brokerage Event 3: From data to decisions**
- **HELP-GWP consultation on Draft Principles on Investment and Financing for Water-related Disaster Risk Reduction** **Convenor:** Global Water Partnership (GWP), the HELP and Japanese government
- **Prediction of Hydrological Processes in Data Scarce Environments** **Convenor:** ZAMSECUR Project on Enhancing, Water, Food and Energy Security in the Lower Zambezi
- **Water Security and Climate Adaptation of Arid and Semi-Arid Regions** **Convenor:** UNESCO Chair on Sustainable Water Research for Climate Adaptation in Arid Environments
- **Tools And Information Requirements for Environmental Flows Assessments and Implementation**
- **Application of Research to WASH programming** **Convenor:** World Vision
- **Towards Sustainable Water Management in Mozambique** **Convenor:** IHE Delft Institute for Water Education and Universidade Eduardo Mondlane
- **Development pathways for nature based solutions to increase water availability and access in arid to semi-arid Africa:** Instituto Superior Politécnico de Gaza, University of Namibia, Jomo Kenyatta University of Agriculture and Technology, South-Eastern Kenya University, Mekelle University, National University of Science and Technology, IHE Delft, Acacia Water and Practica
- **Groundwater Resources Management in Southern Africa - The cases of Namibia and Zambia** **Convenor:** Federal Institute for Geosciences and Natural Resources (BGR)

Theme	Planned	Actual
Surface and Groundwater Resources Management and Urbanisation	22	20
Water, Land , Energy and Agriculture	15	13
Devpt & Sustainable Implementation of Resilient Water Infrastructure	9	9
Water, Ecosystems and the Environment	34	22
Water for Health, Livelihoods and Economic Development	24	20
Water Governance and the Human Right to Water	12	12
Scientific Plenary	6	6

Summary of Emerging Issues by oral theme

Water, Land, Energy and Agriculture

- Use of RS and GIS to map and understand the impact of anthropogenic activities.
 - Use existing crop models to assess crop water use.
- Studies to measure water consumption and access to water by farmers
- Studies indicate that a lot needs to be done before the nexus is operational at relevant scales.

Surface and Groundwater Resources Management and Urbanisation

- Environmental tracers have great potential for understanding groundwater recharge and interaction between surface-groundwater
- Use of alternative products for hydrological models e.g. re-analysis and remotely sensed data
- GW decline linked to climate change & over abstraction

Development & Sustainable Implementation of Resilient Water Infrastructure

- Improving efficiency of water supply infrastructure calls for water losses management and use of models to identify and quantify the losses.
- Flood and drought mapping is important for developing efficient and timely responses.

Water, Ecosystems and the Environment

- Synthesized nanoparticles technology work better in the treatment of waste water compared to both the iron chloride and biofloculant
- Remote sensing is useful in mapping spatial and temporal variation of surface areas of water bodies and water quality

Water for Health, Livelihoods and Economic Development

- Phytochemical in plants extracts significantly contributes to the pathogens removal in the wastewater system.
- WDM can significantly reduce high demands.
- Promotion of proper Menstrual Hygiene Management in schools goes beyond provision of ordinary toilets.
- Access to sanitation facilities a challenge for **persons with disabilities**

Water Governance and the Human Right to Water

- Water reforms policies and strategies are important to address inequality and water adequacy
- GRN and policy makers must incorporate customary laws when formulating national laws.

Lewis Jonker Award for the Best Presentation by a Young Water Scientist



The winner of the 2018 Lewis Jonker Award for the Best Presentation by a Young Scientists at the 19th Symposium is Sinqobile Fanele Ndulini a PhD Candidate and an academic student assistant in the Department of Biochemistry and Microbiology at University of Zululand. She is studying for a doctorate in Microbiology specialising in environmental microbiology, focusing on removal of nutrients and heavy metals from sludge using silver infused microbial nanoparticles. Sinqobile also holds an MSc Microbiology (specialising in constructed wetlands for wastewater treatment – hydroponics), a BSc Microbiology (Honours) (constructed wetlands – hydroponics in nutrients and faecal coliforms removal from wastewater) and a in BSc Hydrology and Microbiology.

Sinqobile is a Mentor for Eskom Expo for Young Scientists. She also participates in various community engagements projects in the Department of Biochemistry and Microbiology at University of Zululand.

microbiology at University of Zululand.

The former Chairperson of the WaterNet Trust, Dr Lapologang Magole presented the Lewis Jonker Award for the Best Presentation by a Young Water Scientist to Sinqobile.

Sinqobile presented a paper in the Water, Health, Livelihoods and Economic Development sub-theme entitled: A green technology for pathogens removal from domestic wastewater

Her presentation was based on her study and it focussed on pathogenic contamination which is a major threat to the environment and public health. In South African municipalities that manage wastewater, chlorine is used as at disinfection stage to inactivate or get rid of pathogenic organisms. The use of chlorine causes negative health effects in the long run thus the necessity of this study. The study looks at the alternative biological, environmental friendly and efficient technology for precisely removing pathogenic microbes from wastewater. This is achieved by the use of constructed wetland system that consisted of plants (*Bidens pilosa* and *Amaranthus hybridus*), which proved to have antimicrobial effect towards the pathogenic organisms of interest in the study. This is one of the pathogens removal mechanisms proven to occur and contribute to pathogenic microbe's removal in the system. The system uses was what is referred to as the hydroponic system and it has proven to be the needed biological, efficient and environmental friendly technology.



Young Scientists Winners of Various Categories

Theme	Winner	Picture	Title of Paper
Water Governance and the Human Right to Water	Tinashe Lindel Dirwai		Water Governance variables that Impact Water Adequacy in Selected Smallholder Irrigation Schemes in KwaZulu-Natal Province, South Africa
Water, Ecosystems and the Environment	Mabatho Moreroa		Assessment of contaminants of emerging concern: Distribution study of azole anti-fungal drugs in aquatic environments
Water, Land, Energy and Agriculture	Ofentse Moseki		Crop water and irrigation requirements of jatropha curcas using cropwat model in semi-arid conditions - Botswana
Surface and Groundwater Resources Management and Urbanisation	Bernhard Schacht		Identification and estimation of ecologically relevant flow regime characteristics of non-perennial rivers, South Africa
Water Health, Livelihoods and Economic Development	Sinqobile Fanele Ndulini		A green technology for pathogens removal from domestic wastewater
Development and Sustainable Implementation of Resilient Infrastructure	Gugulethu Moyo		Applications of Water Leakage Assessment Models in Developing Countries
Best Poster	Retang Mokua		Analysis of water flow paths using stable isotopes and hydrochemical tracers in Jonkershoek catchment

Prof Hubert Savenije Appointed WaterNet International Ambassador



Prof Savenije receiving his certificate and shield from the WaterNet Trust Chairperson, Dr Hodson Makurira

The 19th WaterNet Annual General meeting held on 1 November 2019 in Livingstone, Zambia, appointed Prof Hubert Savenije, the WaterNet International Ambassador. This position entails that Prof Hubert Savenije will serve and represent WaterNet as an ambassador at the international level. In his work as an ambassador, he will fully support the mission and policy of WaterNet. He will help to identify opportunities and to expand the community of institutions and people that can support WaterNet in its mission and activities.

Prof Savenije highlighted that the award has made him very happy since throughout his professional career, he found the cooperation with Southern Africa the highlight of his work. He said that, he has, in the SADC region, many friends, former students and colleagues in the region, from the natural and social environment he has enjoyed working with. Regarding WaterNet, he said, “of all the things I have done during my professional life, the setting-up of WaterNet (together with so many people who all have a claim to the success of the network) has been the most valuable and most gratifying accomplishment”.

Prof Savenije looked back and realised that WaterNet awarded him the ambassadorship mainly because of the role he has played in the formation and growth of the network. He highlighted that the idea of WaterNet was born during a brainstorming evening with Prof Pieter van der Zaag in Harare during the 1990s. They were looking for a continuation of the Capacity Building Programme (Collaborative Programme for Capacity Building in the Water Sector) that had run since 1996 at the University of Zimbabwe. They wanted this initiative to expand to the entire region and to cover education, training, research and outreach. The first planning workshop was held in 1998 and in 2000, WaterNet was formally launched in Victoria Falls with the participation of the Prince of Orange, the present King of The Netherlands.

Prof Savenije said that,

“Although WaterNet has many fathers, I am maybe the grandfather of WaterNet, and a grandfather will always support his offspring, unconditionally. As Ambassador, I can continue to serve WaterNet and provide support where needed”.

Prof Savenije said that he will use his many international contacts such as at IAHS, EGU, AGU, SIWI and donor organisations to advance the agenda of WaterNet. He promised to do his best to advertise WaterNet, and try to identify opportunities for support and cooperation. He said “As Past-President of IAHS, I am a member of the Committee on Africa of IAHS, through which I want to strengthen the cooperation with and support to WaterNet and jointly develop initiatives to implement its mandate”.

Regional Masters Programme in IWRM, 2019/20 Intake

The Regional Masters Degree Programme in IWRM remains central in WaterNet's activities. The call for applications for programme continue to attracts more applications than the network can support. High calibre applications are received from across the region. For the 2019/20 intake, 179 applications were received, but only about 5% of these can be funded. This calls for the active involvement of our Southern African Development Community (SADC) governments in actively funding their nationals to undertake this programme. The high number of applications received shows that the programme is on high demand across the region. It is also high time the network engages the private sector within the region regarding possible funding of scholarships for the Regional Masters Programme in IWRM. A strategy for engaging the private sector is required and suggestions from members of the network are welcome.

Results for the 2019/20 intake are out and successful applicants have already been notified. Ten (10) applicants were recommended for the admission into the MSc program within the Departments of Water Resources Engineering at the University of Dar-es-Salaam (UDSM). The 10 candidates were considered from the 26 shortlisted candidates. Successful applicants will be sponsored through the WaterNet Fellowship Fund.

Details of the successful applicants for 2019/20 MSc in IWRM intake are provided in the table below

Surname	Name	Sex	Specialisation	Nationality	Host Institution
Mumba	Urbain	Male	HYD	DRC	UDSM
Mdyogolo	Silindokuhle	Female	HYD	South Africa	UDSM
Muima	Celso C	Male	HYD	Mozambique	UDSM
Sibande	Memory E	Female	WL	Malawi	UDSM
Zishiri	Rutendo	Female	WL	Zimbabwe	UDSM
Rafaralahy	Zaraso M	Female	HYD	Madagascar	UDSM
Dube	Lungile S	Female	WL	Swaziland	UDSM
Motsonkana	Mpho	Female	WSS	Botswana	UDSM
Kimambo	Emmanuel	Male	WSS	Tanzania	UDSM
Nzogi	Janota	Male	WSS	Angola	UDSM

Key for acronyms

HYD: Hydrology (University of Dar-es-Salam)
 W&L Water and Land (University of Botswana)
 WSS: Water Supply and Sanitation (Polytechnic of Namibia)

Short Professional Courses

The second year of Phase IV has seen the continued much needed financial support for our short professional courses programme from the cooperation of the German and British Governments through the delegated authority of Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. A total of 19 courses will be implemented by April 2019. The implementation of these courses commenced in June 2017. The following are the courses which are being implemented under this agreement:

- Negotiation Skills in Transboundary Surface and Ground Water Resources Management
- International Law and Instruments including UN articles on Groundwater;
- Gender Mainstreaming Tools;
- Financing of water infrastructure projects;
- Water Demand Management;
- Monitoring and communicating of river water status;

The unique aspect of these trainings is that some of them have been conducted in other official languages of the region, i.e. French and Portuguese. In 2018 the training on Financing of water infrastructure projects was conducted in all the three languages, i.e. English, French and Portuguese while there were Portuguese trainings in Intergrated Water Resources Management and International Water Law for the Cuveli Basin Commission and Cunene Basin Commission respectively. The anticipated outcomes for these trainings is to ensure changes in behaviour so that those trained can contribute to impact on the ground.

By April 2019, more than 500 participants from SADC Member States would have benefitted from the training. The post-course evaluations which have been done 3-6 months after the trainings show that participants are acquiring skills which are necessary for them to undertake their tasks in the different countries.

The table on page 11 provides more details about the courses which have been held to date.



Participants for the English (left) and French (Right) International Water Law Trainings held in Gaborone, Botswana and Kinshasa, Democratic Republic of Congo.

Each course is attended by an average of 25 participants who are nominated through their Ministry of Water in each of the 15 SADC Member States. Evaluations done so far show that the majority of the participants appreciate the courses as they are building the much needed capacity in the form of skills and knowledge in their day to day work.

Short Professional Courses Details

Course	Dates	Proposed City	Country	Target	Language
International Water Law and Instruments including UN articles on Groundwater	19 - 23 June 2017	Gaborone	Botswana	Member States	English
Droit international de l'eau et les instruments des Nations Unies, y compris des articles sur les eaux souterraines	22-25 Aug 2017	Kinshasa	DR Congo	Member States	French
A lei internacional sobre a água e os instrumentos das Nações Unidas incluindo artigos sobre as águas subterrâneas	19- 22 Sep 2017	Maputo	Mozambique	Member States	Portuguese
Monitoring and communicating of river water status	3-6 Oct 2017	Lilongwe	Malawi	Member States	English
Negotiation skills in transboundary surface and ground water resources management	14 – 17 Nov 2017	Dar es Salaam	Tanzania	Member States	English
Gender Mainstreaming Tools	28 Nov – 1 Dec 2017	Johannesburg	South Africa	Member States	English
International Water Law and Instruments including UN articles on Groundwater	1-3 Dec 2017	Johannesburg	South Africa	ORASECOM	English
International Water Law and Instruments including UN articles on Groundwater	12 – 15 March 2018	Ruacana	Namibia	Kunene	English
Financing of water infrastructure projects	10-13 April 2018	Johannesburg	South Africa	Member States	English
A lei internacional sobre a água e os instrumentos das Nações Unidas incluindo artigos sobre as águas subterrâneas	17-20 April 2018	Luanda	Angola	Kunene	Portuguese
Water Demand Management	5-8 June 2018	Lusaka	Zambia	Member States	English
Financement de projets d'infrastructure d'eau et de RBO	3-6 July 2018	Antananarivo	Madagascar	Member States	French
Negotiation skills in transboundary surface and ground water resources management	23-27 July 2018	Maputo	Mozambique	ZAMCOM	English
Financiamento de projetos de infraestrutura hídrica e RBOs	21-24 Aug 2018	Maputo	Mozambique	Member States	Portuguese
International Water Law and Instruments including UN articles on Groundwater - Cuvelai	12 – 15 September 2018	Ondangwa	Namibia	Cuvelai	English and Portuguese
Monitoring and communicating of river water status	25-28 Sep 2018	Johannesburg	South Africa	Member States	English
Financing of water infrastructure projects and RBOs	13 - 16 Nov 2018	Mbambane	Malawi	Member States	English
Guidelines for the Implementation of the Revised SADC Protocol on Shared Watercourses & OKACOM NCN Guidelines	4-8 Feb 2019	Maun	Botswana	OKACOM	English
Treinamento em Direito de Águas Internacionais: Implementação do Protocolo Revisto da SADC sobre Cursos de Água Compartilhados e Procedimentos da OKACOM sobre as Diretrizes de Notificação, Consulta e Negociação	18 - 22 Feb 2019	Luanda	Angola	OKACOM	Portuguese

Short Professional Courses in Pictures



Participants for the Portuguese International Water Law Training



Participants for the training on Communicating and Monitoring River Water Status



Participants for the Water Negotiations Skills Training



Participants for the Gender Mainstreaming Tools Training



Participants for the Orange-Senque Basin Commission International Water Law Training

Short Professional Courses for the Okavango Basin Commission (OKACOM)



Participants from Botswana and Namibia in Maun,



Participants from Angola in Luanda

WaterNet coordinated two trainings for the Okavango Basin Commission on International Water: Guideline for the Implementation of the Revised SADC Protocol on Shared Watercourses & OKACOM NCN Guidelines. The trainings were held in English (for Botswana and Namibia), 4 - 8 February 2019 in Maun Botswana and Portuguese (for Angola) 18 - 22 February 2019 in Luanda, Angola. The two trainings were attended by 31 participants from Botswana and Namibia and 30 participants from Angola. Specifically, the trainings were attended by the OKACOM secretariat members, basin commissioners, Okavango Basin Steering Committee Members and stakeholders, relevant government officials.

The training focussed on the following issues

- Institutional Background to the Development of the Guideline for the Implementation of the Revised SADC Protocol on Shared Watercourses;
- Process for Development of the Guideline for the Implementation of the Revised SADC Protocol on Shared Watercourses
- Structure & Normative Content of the SADC Protocol & Structure & Normative Content of the Protocol Implementation Guideline;
- Practical Application of Substantive Rules: Equitable and Reasonable Utilisation
- Procedural Cooperation: (Routine) Data and Information Sharing
- Procedural Cooperation: Notification of Emergency Situations
- Institutional Framework for Protocol Implementation
- Duty to Notify under International (Water) Law
- Development, Scope and Legal Status of OKACOM NCN Guidelines
- Notification of Planned Measures
- Assessment of Environmental Flows
- Consultation, Negotiation and Dispute Resolution regarding Planned Measures
- Technical Fact-Finding & Supportive Tools for Cooperation

During the trainings, participants did some exercises related to the following:

- Applying Equitable and Reasonable Utilisation
- Duty to Prevent of Significant Transboundary Harm
- Notification of Planned Measures

At the end of the two trainings, participants received certificates of participation.

Projects: AfriAlliance



Demonstration on the use of the triple sensor approach at the WaterNet AfriAlliance Roadshow event

AfriAlliance is a 5-year project funded by the European Commission under the Framework of Horizon 2020 aiming to facilitate the collaboration of African and European stakeholders in the areas of water and climate innovation, research, policy and capacity development in order to enhance the preparedness of Africa for future Climate Change challenges., human, environment and political challenges.

The main objective of AfriAlliance is for African and European stakeholders to work together in the areas of water innovation, research, policy, and capacity development in order to increase the preparedness of Africa for future Climate Change vulnerabilities.

AfriAlliance is built on the existing networks in both the EU and on the African continent, dealing from different angles with issues related to water and climate. The project consolidates these existing initiatives and networks of scientists, decision makers, practitioners, citizens and other key stakeholders into an effective, problem-focused knowledge sharing mechanism via an overall coordination platform - the Africa-EU Innovation Alliance for Water and Climate.

One of the specific objectives is to facilitate knowledge sharing and technology transfer in online and offline environments and events for African and EU stakeholders in water and climate, and WaterNet is the leading partner for Work Package 3 which deals with this specific objective. It carries out the objective through a series of brokerage events, annual innovation bridge events, trainings, seminars and running Massive Open Online Courses (MOOCs).

In 2018, three brokerage events were held in Ouagadougou-Burkina Faso, Pretoria- South Africa and Livingstone-Zambia led by 2iE, Water Research Council (WRC) and WaterNet respectively. WaterNet as the Work Package 3 lead, jointly with consortium partners convened the first brokerage roadshow events of European Commission funded AfriAlliance project under the Framework of Horizon 2020. This is a five year project whose overall objective is to establish mechanisms for African and European stakeholders to work together in the areas of water innovation, research, policy and capacity development in order to enhance the preparedness of Africa for future Climate Change challenges.

As part of the effort to enhance knowledge sharing and technology transfer, the first AfriAlliance roadshow brokerage event was held at 2iE Campus in Ouagadougou-Burkina Faso for the West African region, organized by 2iE during the Africa Center of Excellence Workshop of World Bank (WB) from 7th to 10th May 2018. The second AfriAlliance roadshow brokerage event was held at the WRC offices, Pretoria, South Africa, organized by WRC on 25 July 2018. The third AfriAlliance roadshow brokerage event was held at Avani Victoria Falls Resort, Livingstone, Zambia, organised by WaterNet during the 19th WaterNet/ WARFSA/GWP-SA Symposium on the 31st of October 2018. The 2iE brokerage event was held under the Focus topic: Social Innovation on Monitoring of Water and Climate Change in Africa. The WRC event was running with the theme of “water monitoring”. The WaterNet event was focusing on “Monitoring of water availability in terms of quantity & quality for food security.” During the introductory session, presentations set the scene in terms of providing more awareness to the overall goal of the AfriAlliance project; the aim of the brokerage event and the expectations at the end of the event. The second session focused on the existing innovations which matched the theme, and this was followed by one on one meetings between the innovators and the potential collaborators/funders. This was followed by an open discussions which focused on knowledge transfers between innovators, industry, funding partners & policy makers, the challenges being faced and the possible solutions to these problems. The group discussions revealed the perceived barriers to social innovations which were categorized into structural and non-structural components. The roadshow brokerage event participants suggested a number of elements in order to overcome the identified barriers to social innovations, funding opportunities and uptake of the solutions.

Upcoming Event...

20TH WATERNET/WARFSA/GWPSA SYMPOSIUM

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

30 October - 1 November 2019

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Congratulations are in order..

Mrs Martha Hondo, the Administrator at the WaterNet Secretariat successfully completed and graduated with a BSc Hon Degree in Management and Entrepreneurial Development Studies, Specialising in Banking and Finance with Women's University in Africa.

