

# *1<sup>st</sup> International Conference on: Water Infrastructure and Sustainable Energy Futures in a Changing Environment.*



**Date:** December 4 – 8, 2017

**Location:** The Nelson Mandela African Institution of Science and Technology Arusha, Tanzania, Tengeru Campus.



**Conference Theme:** Water Infrastructure and Sustainable Energy Futures in a Changing Environment

Achieving water, sanitation, and energy security in the face of a changing environment are the key global challenges today. Many experts agree that the rapidly growing global population particularly in urban areas in less developed countries will be the greatest challenges of the 21<sup>st</sup> century. As cities grow, maintaining equitable access to sufficient quantity of good quality water, food, sanitation, and energy becomes critical. Presently over 50% of urban population in the global south, particularly in Sub-Saharan Africa, lacks access to safely managed drinking water and safe sanitation. Access to energy remains low and erratic due to its strong link to changing climatic variables. Over the next 15 – 30 year, water, sanitation, and energy research will need to address issues of water scarcity management, sustainable sanitation, disaster risk and drought, energy storage and off-grid solutions. This conference serves as a platform for discussions towards achieving water infrastructure and sustainable energy security futures in a shifting environment.

## Organized by:

The conference is organized by the Centre for Water Infrastructure and Sustainable Futures (Wise Futures). WISE - Futures is one of the African Center of Excellences supported by the World Bank. The Centre addresses development priorities related to attaining water, sanitation and energy security for all in East and Southern Africa. WISE - Futures focuses on provision of an excellent learning environment for delivering top-notch Master and PhD graduates specializing in water and energy related fields; on providing a stimulating research environment for early career researchers to enable them contribute to solving pressing problems related to water and energy; on strengthening regional and international research collaboration in order to promote the development of cutting edge solutions to water and energy challenges in the region; and on promoting inclusive socio-economic transformation in the region by turning research findings into usable and accessible products for the benefits of society, industry, and the environment.

WISE - Futures collaborates with a wide range of local, regional and international partners. Partners include Tanzania Atomic Energy Commission, Ministry of Water, Ministry of Energy and Mineral Resources, WaterAid Tanzania, Arusha Technical College, TCCIA, and Mbeya University of Science and Technology, IHE Delft Institute for Water Education, Gulu University, Makerere University, Vaal University of Technology, the Nile Basin Capacity Building Network (NBCBN), the African Women in Agricultural Research and Development (AWARD), and WaterNet.

## Relevant Topics:

### **Water and Sanitation Security:**

1. Urban water and sanitation planning and management
2. Safely managed drinking water sources: towards SDG 6.1
3. Knowledge management for water and sanitation security
4. Water purification technologies

### **Energy Security:**

1. Energy generation and storage systems
2. Energy management in buildings and industries
3. Energy security and sustainable development goals
4. Knowledge management for energy security
5. Energy, water, food, and biodiversity nexus
6. Energy modeling and simulation
7. Smart grid
8. Energy economics and policy

### Water Resources security:

1. Water, food, energy, and conservation nexus
2. Climate change and disaster risk management
3. Optimization of reservoirs, modelling water resources, new technologies in water resources management
4. Water resources security and sustainable development goals
5. Sustainable river basin and groundwater management
6. Agricultural water productivity
7. Knowledge management for water resources
8. Urban water management (floods and supply)
9. Integrated water resources management and governance

### Submission Procedure

The conference language is English. Abstracts of original research or review on the featured topics containing a maximum of **250** words must be submitted through email [wise.admin@nm-aist.ac.tz](mailto:wise.admin@nm-aist.ac.tz) by **4<sup>th</sup> October 2017**. Please ensure that abstracts submitted are meeting a proper level of quality regarding content and language. A panel of referees will decide if an abstract will be accepted, and if yes, as a poster or as an oral presentation. Acceptance of abstracts will be sent by **15<sup>th</sup> October 2017**. Contributors must pay their conference fee before **30<sup>th</sup> October 2017**. Poster contributions will be grouped into thematic clusters and addressed in guided poster sessions. All presented contributions will be contained in the Book of Abstracts, both in print and online.

### Dates and Deadlines

Submission of abstracts	<b>4<sup>th</sup> October 2017</b>
Acceptance of abstracts	<b>15 October 2017</b>
Submission of corrected abstract/full paper	<b>1<sup>st</sup> November 2017</b>
Payment of registration fee	<b>30<sup>th</sup> October 2017</b>
Payment of exhibition fee	<b>30<sup>th</sup> October 2017</b>

### Conference Fees

Type of participant	Before deadline		After deadline	
	TSH	US \$	TSH	US \$
Standard Registration	400,000	200	500,000	250
Student Registration	200,000	100	300,000	150
Exhibition	800,000	400	900,000	450

## Account Details:

Bank: CRDB BANK Tanzania Limited.  
Account number: 0251047604201.  
Account Name: NM AIST WISE FUTURE.  
SWIFT code: CORUTZTZXXX

## Organization and Contacts Details:

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