



Provisional Seminar Programme
Water Africa & East Africa Building and Construction 2022
Serena Hotel, Kigali
13 -15 September 2022

Water and Sanitation Seminar
Tuesday 13 September 2022

Theme: "Meeting Africa's Water, Sanitation and Environmental Challenges in the 21st Century"

Chairman for Opening Ceremony and Water Seminar: **TBC**,

- 09.00 Registration
- 10.00 Welcome Address – ACE Event Management Ltd.
Introduction of Guest of Honour:
- 10.10 Official Opening and Keynote address by the Guest of Honour:
- 10.30 Official Tour around the exhibition with the Guest of Honour: **TBC and Tracey Nolan-Shaw, Managing Director of ACE Event Management.**

Delegates are invited to join the Guest of Honour to meet the exhibitors.

Seminar Programme begins:

- 11.10 ***Water: The Essence of Life and Key to Sustainable Development***
Organisation: Liverpool John Moores University, UK
Presenter: Prof. Robert Andoh
- 11.35 ***Water the New Currency of Scarcity. Water Reuse Lessons Learned***
Organisation: Bigen Africa Services (Pty) Ltd, South Africa
Presenter: Jeremia Jesaja Van der Walt.
- 12.00 ***Recognise the Natural Resource of Water for Sustainable Development***
Organisation: RO-IRC Musanze, Rwanda
Presenter: Jean de Dieu Kamali
- 12.25 ***Effective Mechanisms to Support Young Social Wash Entrepreneurs from Sub-Saharan Africa***
Organization: Leeds University, UK
Presenter: Sengoga Desire

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- 12.50 Questions and Answers Session
- 13.15 ***Lunch and chance to meet the exhibitors***
- 14.15 ***From Dams to Water Distribution Systems: Requirements and Suitable Solutions***
Organisation: Valvotubi Ind. S.r.l., Italy
Presenter: Elisa Reggiani
- 14.40 ***Trenchless Installation Methods for Small Diameter Pipeline Installations***
Organisation: Herrenknecht, Germany
Presenter: Dr Gerhard Lang
- 15.05 ***Design of Appropriate Hydraulic Structures for Sustainable Runoff Control***
Organisation: RP – IPRC Musanze, Rwanda
Presenter: Tharcisse Twizeyimana.
- 15.30 Questions and Answers Session
- 15.45 ***Sewerage, Drainage, and Water Storage Solutions using WEHOLITE Technology***
Organisation: Plasco, Tanzania
Presenter: Ali Gulam Hussein
- 16.10 ***Innovative Wastewater Treatment – Constructed Wetland Case Study***
Organisation: MASS Design Group, Rwanda
Presenter: Harriet Kirk
- 16.35 Questions and Answers: Wrap-up of the day
- 16.50 **Coffee break and another chance to go and see the exhibitions.**

The presentations will be uploaded on the ACE Event Management website www.ace-events.com from 31st October 2022

***All attendees will receive a Certificate of Attendance on Thursday 15th September 2022**

Remember to come back tomorrow for:

“Infrastructural Challenges Facing Africa in the 21st Century”



Building and Construction Seminar **Wednesday 14th September 2022**

Theme: “Infrastructural Challenges Facing Africa in the 21st Century”

Chairman for Opening Ceremony and Building and Construction Seminar: **TBC.**

09.00 Registration

Delegates are invited to meet the exhibitors.

9.30 Welcome Address – ACE Event Management Ltd.

Seminar Programme begins:

- 9.45 ***The Future of Sustainable Building Construction in Rwanda***
Organisation: MASS Design Group, Rwanda
Presenter(s): Eng Nelson Habintwari and Obed Sekamana
- 10.10 ***Tool to implement Rwanda Green Building Minimum Compliance System***
Organisation: Rwanda Housing Authority and Global Green Growth Institute (GGGI). Rwanda
Presenter(s): Dheeraj Arrabothu and Harouna Nshimiyimana
- 10.35 ***Engineering Practices and Ethics for Sustainable Infrastructure Development in Rwanda.***
Organisation: Institution of Engineers Rwanda (IER) and The World Federation of Engineering Organizations (WFEO), Rwanda
Presenter: Kazawadi Papias Dedeki
- 11.00 ***Design Decisions Challenges with Pandemic Protocols Implementation in Mass Housing Schemes***
Organisation: Department of Architecture, Joseph Ayo Babalola University, Ikeji, Arakeji, Nigeria
Presenter(s): Olatunde F. Adedayo
- 11.25 Questions and Answers Session
- 12.00 Lunch and a chance to walk around the exhibition upstairs
- 13.00 ***Affordable and Sustainable Housing in Urban and Rural Areas***
Organisation: Dept. of Architecture, University of Rwanda, Rwanda
Presenter: Clemet C. Egenti
- 13.25 ***Materiality in Architecture as an Expression of Local Identity***
Organisation. University of Rwanda, Rwanda
Presenters: Danny M Girineza and Ndibwami

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- 13.50 ***Creating a Safety Culture on Construction Sites***
Organisation: MASS Design Group, Rwanda
Presenter(s): Nolaste DUSHIMERUREMA, Harriet KIRK, Jean Damascene
SEKAMANA
- 14.15 Questions and Answers Session
- 14.30 ***Rwanda Institute of Architects AGM – Part I***
- 16.00 Coffee Break and another chance to see the
Exhibitors
- 16.30 ***Rwanda Institute of Architects AGM – Part II***
- 18.30 End of AGM



All attendees will receive a Certificate of Attendance on Thursday 15th September

Remember to come back tomorrow for CPD Course and Workshop:

***“Paradigm Shifts in Urban Water Management:
Innovative Technologies and Green Solutions”***

All presentations will be uploaded on the ACE Event Management website www.ace-events.com from
31st October



CPD Course and Workshop @ Serena Hotel, Kigali Rwanda

from 9:30 am to 13:30 pm on Thursday 15th September 2022

Topic:

**“Paradigm Shifts in Urban Water Management:
Innovative Technologies and Green Solutions”**

Instructor:

Prof Bob Andoh



ABSTRACT

CPD Course/Workshop on developments in Integrated Urban Water Management (IUWM) to address 21st-century flooding, pollution, and environmental degradation challenges, resulting from rapid urbanization globally. Participants will gain more experiential-based and practically oriented knowledge and insights into newer paradigms, innovative technologies, and the leveraging of these as Blue Infrastructure in the confluence between the conventional Gray and the emerging Green Infrastructure solutions. The need for the evolution of appropriate Policies and related Regulatory Frameworks that promote these newer paradigms and facilitate the development and leveraging of innovative Environmental Technologies that provide improved scope for the promotion of Climate Change resilient Infrastructure and the evolution of Environmental Technologies based industries with associated Jobs creation and heightened Environmental Stewardship is underscored.

- Do you want to understand the true nature of water and implications of the Half-Hydrological Cycle in the increasing prevalence of flooding and droughts and how this may be amplifying climate change impacts in urban environments globally?
- Learn about the evolution of conventional urban water drainage systems, how these have contributed to public health gains in the 20th Century but now; how these conventional systems have limitations in dealing with 21st-century urban water management challenges.
- Obtain knowledge of emerging paradigms and an understanding of the need for shifts from conventional approaches; providing insights into how these newer paradigms are leading to more sustainable approaches to urban water management; leveraging Blue, Gray, and Green Infrastructure with distributed systems controls that mimic natural systems.
- Gain insights into Innovative Technologies that are being combined with the newer paradigms, supported by appropriate and enabling regulatory regimes, to deliver more cost-effective, sustainable, adaptable, and resilient urban water management systems that address 21st century needs and challenges whilst resulting in the evolution of Environmental Technologies industries, providing opportunities for jobs creation at the local level.
- Find out what you can do individually and as part of a “collective” community; to effect changes and adopt measures that improve Urban Water Management in the 21st Century; beginning with the **5-Rs** of Urban Water Management (Reverence/Respect, Reduce, Reclaim, Re-Use, Recycle) as an integral part of heightened awareness for good Environmental Stewardship.



“Paradigm Shifts in Urban Water Management: Innovative Technologies and Green Solutions”

Provisional Workshop Programme

Thursday 15th September 2022

9.00 Registration

9:30 -10:00 am Introduction and Preamble (nature of water):

- What is the true nature of Water?
- A new paradigm for Water
- Making Space for Water in our Environment.

10:00 -10:45 am Hydrological Cycle and Drainage Concepts:

- Impacts of Urbanization on Catchments
- Evolution of Conventional Systems
- Paradigm Shifts and Emergence of Alternative Drainage Concepts

10:45 – 11:00 am *Questions and Answers*

11:00 – 11:40 am Coffee *Break and Chance to visit Exhibition Stands*

11:40 – 12:25 pm Source Control and Distributed Storage

- Flood Mitigation with Source Systems
- Examples of Innovations and Technologies
- Regulatory Regimes and Frameworks

12:25 – 12:40 pm *Questions and Answers*

12:40 – 13:10 pm Applications and Case Studies

- A Review of Flooding in Local Catchments.
- State of Catchments, Rainfall Patterns, and Impacts of Developments.
- Challenges with Vulnerable Environs – Peri-Urban Areas

13:10 – 13:30 pm Recap and Bringing it all together

- The need for Policy Changes –
 - 1. Post Development Runoff Control**
 - 2. Rainwater Harvesting**
 - 3. Adopting Water Sensitive Urban Designs and Systems**
- Attitudinal Changes, Individual, and Collective Responsibilities
- Institutional Reforms and Embracing Innovation to Create Jobs

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Professor Bob Andoh

Bob Andoh is a visiting professor at Liverpool John Moores University and Technology Consultant at AWD Consult Inc. He is an editor for Elsevier's Scientific African Journal and was formerly the Director of Innovation and CTO at Hydro International plc, overseeing and championing the development, and commercialization of a range of award-winning water and environmental technologies. He received a SMART award for innovation given by the UK Government Department of Trade and Industry (DTI) and is a named inventor on several patents. Bob is the inaugural recipient of the "Outstanding Individual Contribution to the Water Industry" IWEX Innovations (now "UK Water Industry Achievement") award.

Attendees will receive a certificate of attendance showing Institution of Engineers, Rwanda, CPD Credits