

July 15-21, 2023

Institute holds a Workshop on Public Health and Sanitation Expertise



A group photo of KEWI research team during the training workshop at Chiakariga Campus.

BY KORIR KIPKIRUI

The quest by Kenya Water Institute (KEWI) to empower women and youth in Kenya by enhancing public health and technical skills in the country's sanitation sector is taking shape following a KEWI research team training workshop held at KEWI Chiakariga Campus.

KEWI is seeking to enhance

Public Health and Sanitation Technology Transfer through a program funded by African Development Bank (AFDB).

The program which will see training and development of curriculum and materials for community sensitization for Low Cost improved and Safe pit Toilets (SATO) and Green Toilet System (GTS) has training of 20 KEWI lecturers as one of its deliverables.

HIGHLIGHTS

- 2 Institute holds a workshop on public health and sanitation expertise.
- 4 Research Director lauds students
- 6 KEWI research team undergoes ToT training
- 8 Call for Application

Institute holds a Workshop on Public Health and Sanitation Expertise



The researchers team capturing the essence of teamwork and scientific exploration.

The four-day workshop that was presided by The African Development Bank (AfDB) projects Coordinator and Head of Department Research and Consultancy at KEWI Ms Beatrice Langat saw members of KEWI Research team trained in research concepts and proposal development, with a specific focus on Green Toilet Systems (GTS) and Safe Toilets (SATO). The workshop also highlighted the positive impact on knowledge management and public health initiatives supported by the African Development Bank (AfDB) funded project.

The participants singled out 2 key primary objectives of the workshop which included crafting of projects that seek to

foster sanitation technology skills transfer, among women and youth.

The workshop provided comprehensive training on research proposal development, covering topics such as research team formation, problem identification, objective formulation, methodology development, data collection tools, data analysis, literature review writing, and research document compilation.

These, they agreed, would equip women and youth with the necessary skills to contribute effectively to sanitation technology transfer, fostering their participation and leadership in the sector.

The participants also

sought to develop knowledge products from the proposals with a focus on GTS and SATO.

The workshop managed to have an overview of the research component of the AfDB-funded project by reviewing the concept notes submitted to the KEWI-Science-Ethics and Research Committee (KEWI-SERC).

Ms. Langat led the team in identifying key areas of interest to the project and which the team built on to come up with a concrete direction that would pave way for the implementation of the project.

Key among the areas that the team discussed were understanding the importance of assembling a diverse and inclusive research team comprising of individuals with various backgrounds and expertise, developing appropriate research methodologies and approaches to address each research objective effectively, techniques for analyzing collected data using appropriate statistical and qualitative analysis methods and understanding the financial aspects of research and developing a comprehensive budget to support the proposed activities.

The participants also managed to train on strategies

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for conducting thorough literature reviews to provide a comprehensive understanding of the existing research and knowledge gaps, understanding the importance of proper citation and referencing in academic and research documents and ensuring consistency and coherence in research documents, aligning sections, and compiling the final output.

The comprehensive training also equipped participants with the necessary tools to identify research problems, formulate objectives, develop methodologies, and create realistic budgets.

By promoting gender and generational diversity in research, participants noted that KEWI is well-positioned to contribute significantly to the Knowledge Management and Publicity Objectives of the AfDB-funded project.

Continued capacity building, collaboration, dissemination of research findings, and mentorship programs were recommended to further empower women and youth, advancing public health and sanitation practices in Kenya.

The workshop exemplified the institute's commitment to sustainable development and knowledge transfer in sanitation technology, paving the way for a brighter future in the sector.

Based on the outcomes and key observations of the workshop, the KEWI team recommended continued

Capacity Building for KEWI researchers be prioritized to further enhance the research skills of the community, particularly among women and youth. This, it was noted, can be achieved through regular workshops, training

sessions, and knowledge-sharing platforms that focus on emerging trends and advancements in sanitation technology transfer.

The team noted that KEWI's active collaboration with relevant stakeholders including government agencies, NGOs, communities, and private sector entities was instrumental in advancing the research agenda.

By forging partnerships and synergizing efforts, it was also noted that KEWI can leverage additional resources, expertise, and networks to implement impactful research projects and ensure the effective transfer of sanitation technologies.

The participants also highlighted that by promoting a culture of collaborations and peer review, fostering of gender and generational diversity, dissemination and sharing of knowledge, conducting long-term research projects and mentorship and knowledge transfer, KEWI can create a sustainable framework for empowering women and youth in Kenya, while advancing public health and technical skills in the field of sanitation technology transfer.



The researchers team capturing the essence of teamwork and scientific exploration.

Research Director lauds KEWI Students on Award-winning Innovations



Mr. Leonard Makokha and his team during a tour at KEWI Chiakariga Campus workshop.

BY PIUS KIMANI

Kenya Water Institute's (KEWI), Deputy Director, Research, Consultancy and Technical Services, Mr. Leonard Makokha, has hinted that KEWI is poised to stamp a strong dominance in water sector and retain her position as an indeed true center of research and innovation following an award winning outing at the recently concluded Kenya Water & Sanitation International Conference & Exhibition 2023 that was held in Mombasa.

While taking a guided tour around KEWI Chiakariga

Campus projects, classrooms, and workshops accompanied by other KEWI staff, Mr. Makokha was impressed by the students' practical prowess and emphasized KEWI's commitment to improving learning conditions and increasing the number of practical sessions.

Fresh from impressively stealing the show in national competitions, he highlighted the institute's dedication to producing skilled and competitive professionals in the water and sanitation sector. The tour and its outcomes exemplified KEWI's efforts to stay at the forefront

of technological advancements, empower students, and contribute to the overall development of the water and sanitation industry in Kenya.

Mr. Makokha highlighted and applauded the achievements of 2 KEWI Chiakariga students who participated in a United Nation Development Program project on collaborative mapping.

Additionally, he hailed and heaped praises to students from KEWI who competed nationally against renown universities and other tertiary

Research Director lauds KEWI Students on Award-winning Innovations

and vocational training centers and emerged victorious, winning the first and second prizes in the recently concluded Kenya Water & Sanitation International Conference & Exhibition 2023.

KEWI gallantly scooped awards after showcasing their innovations in SMART Irrigation Systems Installation and Biogas Digester technologies.

During the tour, the Deputy Director and his entourage were shown around the Green House and open-field Green House Drip irrigation systems. These innovative systems demonstrated the application of advanced agricultural practices and efficient water management techniques.

The discussions that followed, highlighted the potential synergies between KEWI projects and SMART

Agriculture project being undertaken at KEWI Chiakariga. The idea of linking these initiatives was met with enthusiasm as it aligned with national agendas such as the government's ambitious target of attaining 15 billion trees and fostering collaborations across different sectors.

The team came face to face with students who were actively engaged in a practical session on Electrical Principles, specifically wiring a circuit. This hands-on experience showcased the students' practical skills, which are crucial in line with the Competency-Based Curriculum and the current needs of industries.

The students emphasized the importance of practical sessions and academic trips, as they provide valuable

exposure to new water engineering technologies and their basic operations and maintenance.

These practical experiences are particularly significant for technical students, as they bridge the gap between theory and real-world applications.

Mr. Makokha encouraged the students to actively participate not only in theoretical classes, but also in innovative idea-sharing forums such as symposiums and other active project involvements. He further challenged them not to shy away from research opportunities and competitions.

The tour provided valuable insights and sparked discussions on how to further improve the existing projects and create a wider impact in Kenya.

He was talking after concluding a 2 day Training of Trainers workshop for a AfDB funded project at the campus.



Institute's team touring the Green House in Chiakariga Campus.

KEWI Research Team undergoes ToT Training for AfDB Project

BY KORIR KIPKIRUI

Kenya Water Institute (KEWI) has successfully organized and concluded a two day workshop at KEWI Chiakariga Campus meant to address the critical need for improving public health and enhancing the technical skills of youth in Kenya through sanitation technology transfer.

Led by Deputy Director of Research and Consultancy Services (DDRCTS) Mr. Leonard Makokha and attended by among others Mr. Jacob Gitonga, Mr. Matara Kaburi and Mr. Paul Rarieya, Principals for Chiakariga, Kitui and Kisumu KEWI Campus respectively, the workshop focused on reviewing and approving curricular and training materials under Component 1 of the deliverables for the African

Development Bank (AfDB) Green Toilet Systems (GTS) and Safe Toilets (SATO) funded project, which entails the Training of Trainers and the Development of Training Materials.

During the workshop, the matter experts reviewed and approved the curricular and training materials developed under the project which included Safe Toilets (SATO) and Green Toilets (GTS) Curricula, a Facilitators guide, and a Learners handbook.

The workshop ensured that the structure, content, and layout of the presented materials were of high quality, effectively addressing the training needs of women and youth in sanitation technology transfer. The exercise created a pathway for the effective implementation in training programs across all four KEWI

Campuses. The participants who include representative staff members, from all four KEWI Campuses and who served as subject matter experts brought their diverse perspectives and expertise to the review process ensuring that the materials were comprehensive, accurate, and relevant to the specific needs of different regions.

Participants also deeply reviewed the submitted documents which encompassed an examination of the structure, content, and layout of the curricula, facilitators guide, and learners' handbook.

This was to assess the effectiveness and suitability of the training materials for delivering comprehensive training on SATO and GTS to the targeted women and youth audience. Through a collaborative and interactive process, workshop participants provided feedback, identified areas for improvement, and suggested modifications to enhance the overall quality and effectiveness of the materials.

Mr. Makokha lauded the team and noted that by approving these materials, the workshop played a crucial role in ensuring the successful implementation of the Training



Deputy Director Mr. Makokha (2nd left) pose for a group photo with his team.

KEWI Research Team undergoes ToT Training for AFDB Project

of Trainers program.

He further said that the approved curricula, facilitators guide, and learners' handbook will serve as valuable resources for trainers, equipping them with the necessary tools and knowledge to effectively transfer sanitation technology skills to the women and youth.

This will enable the youth to contribute actively to public health improvement efforts and gain technical expertise in the sanitation sector, ultimately leading to positive societal impacts and sustainable development.

WATER FACT

Thousands have lived without love, not one without water.

-W.H Auden

Quote of the Week

“Hire people who are better than you are, then leave them to get on with it. Look for people who will aim for the remarkable, who will not settle for the routine.”

-David Ogilvy

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CALL FOR APPLICATION



MINISTRY OF WATER, SANITATION & IRRIGATION
KENYA WATER INSTITUTE



Certificate in Wastewater and Sanitation Engineering Technology **REQUIREMENTS**

KCSE Mean Grade D(plain) OR Artisan Course qualification from KEWI or any equivalent National Qualification OR As determined by an Academic Board

TUTION FEE PER SEMESTER

Ksh. 21,800

DURATION

2 Academic years

CAMPUS

Nairobi Main Campus

APPLY NOW

Pick the application form from our Nairobi, Chiakariga, Kitui or Kisumu Campuses
OR

Apply via the application form from our website
www.kewi.go.ke

All application letters to be addressed to:

The Director, Kenya Water Institute,
P.O. BOX 60013-00200 Nairobi, not later than 18th August 2023.

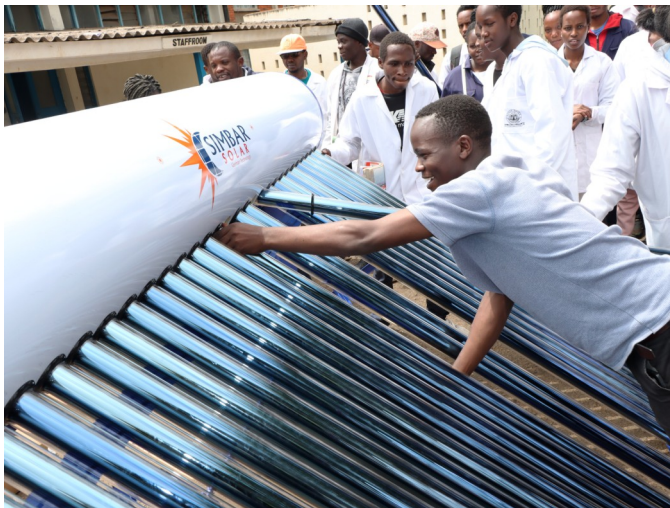
Round Up of the Week's Events



Plumbing and Pipefitting students at Nairobi Campus during installation of drip irrigation system demonstration .



Mr. Aristopher Karisa, a Senior Instructor in the Hydraulics section of Water and Waste Water Engineering department guides and demonstrates to student how to set and operate a biogas production unit.



Nairobi Campus students demonstrating on how to fix a Solar Water Heating system.

Long - Term Programmes

Diploma in Water Engineering Technology (DWET) Diploma in Wastewater
 Diploma in Water, Sanitation Engineering Technology (DWSET)
 Diploma in Water Resources Management Technology (DWRMT)
 Diploma in Irrigation and Drainage Engineering Technology (DIDET)
 Diploma in Information Communication Technology (DICT)-KNEC
 Diploma in Water Laboratory Technology (DWLT)
 Certificate in Wastewater and Sanitation Engineering Technology (CWSET)
 Certificate in Water Resources Management Technology (CWRMT)
 Certificate in Information Communication Technology (CICT)- KNEC
 Certificate in Water Laboratory Technology (CWLTL)
 Certificate in Water Engineering Technology (CWET)
 Drilling Operations and Management (DOM)
 Plumbing and Pipe Fitting (PPF)
 Water Operators Course (WOC) in:

- Water Supply
- Meter Reading
- Sewerage Operations

Short - Term Programmes

Use of Earth Observation Tools and GIS for Water Resources Management
 Entrepreneurship and Financial Management for Water Managers
 Operation and Maintenance of Water Supply Networks
 Metering and Installation of Water Supply Networks
 Leak Detection & Repair techniques
 Drilling Operations and Management (DOM)
 Operation & Maintenance of Pumping Stations
 Pump Selection, Installation and Maintenance
 Plumbing, Pipe Fitting and Solar Water Heating
 Instrumentation for Water and Wastewater Systems
 Water Governance, Management and Technology
 Application of GIS for Water Utilities Mapping
 Drilling Operations and Management
 Water Quality Sampling and Testing
 Microbiological Water Quality Assessment
 Integrated Water Resources Management
 Non-Revenue water
 Water Management
 Customer Care

Vision

A Technical Centre of Excellence in Training, Research, Innovation and Consultancy in the water, Sanitation and Irrigation Sector.

Mission

To offer Competency-Based Training, Research, Innovation, Consultancy and Outreach Services in the Water, Sanitation and Irrigation Sector for sustainable development.

Core Values

Good Corporate Governance
Professionalism
Customer Focus
Innovativeness
Inclusivity
Patriotism
Integrity

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