



APRIL 08-14, 2023



From Right: Mr. Elkana Kaburi, Ms Rose Nyakwama, Ms Dorice Situma, Mr. James Nduna, Mr Peter Nawiri, Ms Joan Ogolla and Mr Henry Kobia during the Kenya Water Institute Act Review workshop at KEWI Kitui Campus.

The Kenya Water Training & Research Institute Act Review 2023

BY PIUS KIMANI & A. SONGOK

enva Water Institute -**KEWI** quest to transform to Kenya Water Training & Research Institute-KEWATRI received a boost after a 2-day major workshop organized by the Ministry of Water, Sanitation and Irrigation and Kenya Water Institute to review the Kenya Water Institute's proposed Kenya Water Training & Research Institute (KEWTRI) Bill and to prepare stakeholders participation documents and explanatory note to the KEWATRI Bill, was held at KEWI Kitui Campus on 31st march 2023 and 1st April 2023.

The workshop was Spearheaded by a joint team of the Director of Legal Services, Chief State Counsel James

HIGHLIGHTS

- 3 KEWI Chiakariga Students on Field Exposure Exercise
- 4 Addressing Food Security in Kenya via AICAT Program
- 6 Symposium Organizers Call for Competition

7 Decorated Teams Bring Home their Well-Deserved Trophies

The Kenya Water Training & Research Institute Act Review 2023

Nduna, Ms. Rose Nvakwana and Ms Joan Ogolla, all from the Ministry of Water, Sanitation and Irrigation, the Director, Kenya Water Institute and the Institute's technical committee comprising of Mr. Peter Nawiri, .Senior Principal Resource Mobilization Officer, Mr. Henry Kobia, Senior Principal Registrar and Ms. Dorice Situma, Senior Principal Lecturer.

It is a precursor of a meeting held on 27th March 2023 that had resolved that KEWI fast and the preparations track consolidation of all stakeholder workshop documents, reports and attendance registers prior to validation national exercise, the national hosting of validation workshop at KEWI on May Tuesday 16th 2023. preparation of an explanatory note for the Bill and forwarding **KEWATRI** Bill 2023 of to National Assembly for by consideration three committees, namely Blue Economy and Irrigation, Delegated Legislation and Higher Education in a bid to finalize the Bill ahead of submission to the State Law Office.

The team was also mandated whether determine the to intended gains from the proposed act will outweigh the costs imposed on the industry as provided by sections 6 and 7 of the statutory instruments Act, 2013.

The review which stems from an Organizational Study and Capacity Needs Assessment

exercise conducted in 2018 recommended that the Institute be transformed into a more responsive technical center of excellence in training, research, and innovation for water needs.

The review exercise has since its inception in 2020/2021 Financial Year recorded a series of impactful engagements which include but not limited stakeholder internal to engagement with the KEWI Academic Board on 22nd December 2020 and 5th January 2023, Internal workshop held at Kenya Water Institute on 18th-19th February 2021, Engagement with Water Sector Institutions legal teams on 3rd-4th March 2021, Regional stakeholder engagement for all Counties from 20th to 24th September 2021 and Public Participation forum conducted at Kenya Water Institute on 27th January 2022.

For this to be possible, a transition plan covering a wide range of change orientation dimensions became inevitable and required the Institute's legislative and policy review. Apart from reorganizing the governance and management structures, it is expected that the reviewed mandate of the Kenya Water Institute will further be facilitated by establishing more facilities at county government levels.

MAIN

During the workshop, the joint team noted that the Water Act (2016) was under review, with stakeholder engagements conclusion nearing in anticipation for a notice in local newspapers on national validation workshop to the public (Advertisement) in May and subsequently a 2023 national validation workshop to



A joint team comprising of Legal Officers from the Ministry of Water, Sanitation and

Irrigation and Kenya Water Institute during the KEWI Act Review workshop in KEWI

Kitui Campus.



The Kenya Water Training & Research Institute Act Review 2023

be conducted in the same month. This would later lead to submission of KEWATRI Bill to State Law Office for final drafting and preparation of the Memo of Objects and Reasons by Office State Law after Validation. After this stage, the exercise will go through a series of other engagements which include Submission of final Bill and Cabinet Memo to the Cabinet, submission of KEWATRI Bill to the National Assembly with evidence of

stakeholder engagements, prepublication engagement on KEWATRI Bill at National Assembly and Senate. amendments on KEWATRI Bill guided by Parliament, as Gazette Notice for Enactment before it finally receives a Presidential Assent to become an Act.

One of the major reasons for the review of the Kenya Water Institute Act No. 11 of 2001 is to align it with the Kenyan Constitution of 2010, the Water Act of 2016 and other legislation influencing governance, research training, and innovation. The objective is that the institute under the Kenya Water Training and Research Institute Bill 2023 will provide training, human resource development, research, consultancy, outreach, water education and certification directly and in collaboration with the relevant local and international stakeholders in the water sector on a social and commercial basis.

KEWI Chiakariga Campus students engage on a field exposure exercise

BY KORIR KIPKIRUI

EWI Chiakariga Campus students embarked on an exercise of removing a borehole pump that had not been operational for some months.

The team of students, led by the Campus Principal, Technical Lecturers and Instructors be-

gan the removal exercise having been briefed on the procedure and the best practices on how to go about it by Instructor Joshua Kamoche.

The pump was installed at a depth of 158metres below the ground level, taking the team more than 5hrs to complete the exercise.

The Principal informed the students that this was one of the exercises they would encounter once they complete their studies encouraging them to ensure they grasp as much knowledge in such aspect as possible.

This exercise enriched the students with practical lessons on their Course and enhanced their practical skills.



Addressing Food Security in Kenya through The AICAT Program

BY PIUS KIMANI

enya Water Institute-KEWI graduates below the age of 28 years are poised to benefit from an intensive 11 month agricultural program sponsored by the International Arava Center for Agriculture Training (AICAT) and which is set to be held in Arava, Israel from August 2023.

The practical agricultural training will run from August 2023 to June 2024 and seeks to train the successful applicants on Agriculture Business Management, Viticulture and Orchard, Introduction t o agricultural structures, Introduction to Modern Irrigation, Aqua-Culture Farming, Innovation Agriculture a n d Agriculture entrepreneurship among other courses with an aim equip them with to theoretical and practical tools crucial for their countries' food safety and security.

Based on "Learning by Doing" the training will further impact the graduates economically in order to help them establish successful model farms and businesses that integrate professionally in public and private sector in their respective communities.

Once through with the training, the graduates will also become community agricultural leaders and mentors, changing their way of thinking from a traditional to innovative thinking out of the box, an endeavor that will largely



Arava International Center for Agriculture Training

(ISRAEL)

Diploma Program

2023-2024 Call for Applications

contribute to achievement of the Country's Big 4 agenda, Vision 2030 and also contribute to solutions on food security problems Kenya is facing and especially now that the effects of climate change are real and with us.

Data from the office of the Academic Affairs which has

been coordinating the Arava International Centre for Agricultural Training (AICAT) experiential program at KEWI from 2016 indicates that an impressive number of 148 KEWI graduates have benefited before from the Advanced Agricultural Studies offered under the

program.

The Arava International Center Agriculture for (AICAT) which was established in 1994 with the support of the Ministry of Foreign Affairs and the Ministry o f Agriculture, Israel, trains over 1,000 students every year Academic from Institutes in 3 different programs: Diploma program, Masters program in Plant Science in cooperation with Tel-Aviv University and short term course in Advanced Agricultural Studies.

The program is undergraduate intended for students in agricultural institutes mostly in Asia (Vietnam, Myanmar, Nepal, Indonesia, Cambodia, Thailand, Laos, East-Timor) as well as Africa Uganda, Malawi, (Ethiopia, Zimbabwe, Nigeria, Kenya and South Sudan).

(See extra information next page)

The AICAT Program Scholarship eligibility criteria

GUIDANCE TO APPLICATION 2023-2024

1. BACKGROUND

The Arava International Center for Agriculture (AICAT) was established in 1994 with the support of the Ministry of Foreign Affairs and the Ministry of Agriculture, Israel. The center trains over 1,000 students every year from Academic Institutes in 3 different programs: Diploma program, MSc program in Plant Science in cooperation with Tel- Aviv University and short term course in Advanced Agricultural Studies.

AICAT is pleased to invite students to participate in a professional and successful agricultural program based on "Learning by Doing ". The program is intended for undergraduate students in agricultural institutes mostly in Asia (Vietnam, Myanmar, Nepal, Indonesia, Cambodia, Thailand, Laos, East-Timor) as well as Africa (Ethiopia, Uganda, Malawi, Zimbabwe, Nigeria, Kenya and South Sudan).

The program is held over 11 months (the whole agricultural season). Students live on farms in the Arava region where they are exposed to the high technologies and the advanced agriculture.

2. IMPACT

The AICAT program impacts on graduates lives in various aspects:

Social Impact: They become community leaders and agricultural mentors, change their way of thinking from a traditional way to innovative thinking out of the box.

Academic Impact: Students go back to their home countries with theoretical and practical tools crucial for their countries' food safety and security and after pursuing higher academic education in Israel and abroad.

Economic Impact: Graduates establish successful model farm and business. Graduates integrate professionally in the public and private sector.

3. PROGRAM COURSES

- Plant biology and physiology;
- Fertilization;
- Soil and Water;
- Introduction to Modern Irrigation;
- Introduction to agricultural structures;
- Plant Protection;
- Flower Production;
- Viticulture and Orchard;

- Aqua-Culture Farming;
- Animal Husbandry;
- Innovation agriculture;
- The challenges of Food security from the
- ocean origin;
- Food safety and security;
- Agriculture Business Management;
- Financial Analysis;
- Marketing;
- Agriculture entrepreneurship;
- Business Plan;
- Research project Methodology;
- Computer Application;
- Life Skills Workshop;
- Research Project; and
- Field Project.

4. WHO IS ELIGIBLE TO APPY

- Kenya Water Institute graduates. The applicants must fill a consent form to return to Kenya upon completion of the program and surrender the original certificate to the Institute. The certificate will be returned back to the successful applicant at the end of the program and upon return to Kenya.
- The applicant must be 28 years of age and below at the time of application

5. TERMS AND CONDITIONS

- The program's duration is maximum 11 months, during the agricultural season in the Arava, from August 2023 to June 2024;
- Embassy of Israel in Kenya will issue visa once selected for the program;
- Students MUST have a new ePassport;
- Students MUST possess a laptop;
- Students MUST be in good health condition and ability to withstand the harsh hot/desert weather in Israel;
- Students MUST show proof of purchase of air return tickets (approx. Kshs. 120,000)
- All the students MUST leave Israel at the end of the program.

6. HOW TO APPLY

Applications should be sent to: The Director Kenya Water Institute dropped at either main campus or at satellite campuses by 10th May 2023

Symposium Organizers Call for Competitions



Water Quality Management Symposium

Call for Arts, Essays, Poems and Innovations For schools and tertiary institutions

25th May 2023 Nairobi, Kenya

BY PIUS KIMANI

enya Water Institute-**KEWI** has given primary school pupils, junior and senior high school students and college students an opportunity to interact with Water, Sanitation and Irrigation industry and sector players towards choosing their careers, entrepreneurship opportunities and in defining their role and contribution towards protection and care of environment during the upcoming Water Quality Management Symposium slated to take place on 25th and 26th May 2023 at KEWI Main Campus, Nairobi.

This is by exhibiting arts, essays and innovations on water quality thematic areas with the winners getting

Quote of the Week

awarded during an award ceremony on the 1st day of the symposium organize by the Ministry of Water, Sanitation and Irrigation.

The competition which purposes to enhance the awareness and strengthen the knowledge of Water Ouality Management (WQM) to the competitors and also explore talents within the young generation in Kenya and motivate them to pursue careers in Water Quality Management (WQM) will see winners walk away with cash prizes, certificates of participation and trophies.

Primary, Junior and Senior high school students will have their presentations address issues related to water quality, sanitation, hygiene, water conservation and water harvesting while college students will choose thematic areas affecting own locality in line with water quality management.

The participants of the competition will then introduce their views on how they think different challenges as provided for in the thematic areas or research e.g. finance, impact water climate etc. either positively quality or negatively on themselves as individuals, communities or countries through innovation technology and and the positive and negative effects of quality water management techniques.

Interested schools and colleges have up to 15th May 2023 to submit their essays , artworks and innovations with students' names, date of birth, accompanying teacher's name and official title in the school and school's full address.

Those submitting artistic work and innovations which are guided by the provided themes and which should demonstrate understanding of

"Success is not final, failure is not fatal: it's the courage to continue that counts."

- Winston Churchill

Symposium Organizers Call for Competitions

water quality management and its impacts are also required to send pictures of the artworks and innovations and an abstract of a maximum 500 words to the provided e-mail address in Portable Document Format (PDF) or Document (Doc) format.

The organizers have further instructed that any artworks and innovations presented for consideration should combine theoretical and practical content in a creative way and such content be that as scientifically accurate as possible and be original, i.e.

not containing material such as music, images or videos not created by participants.

The shortlisted schools and colleges will then be invited to the final Water quality management Symposium to present their projects for further evaluation and

Decorated Teams Bring Home their Well-Deserved Trophies

BY DORINE EVA

The Kenya Water Institute (KEWI) teams that participated in the recently concluded Kenya Technical Institutes Sports Association-KETISA games in Nakuru presented the 4 trophies they scooped during the sports show to the Director Dr. Leiro Letangule.

In a brief ceremony attended by Deputy Director of Corporate Services Mr. Erick Wamiti , Deputy Director Academic Affairs Mr. James Kihara., Senior Principal Registrar Mr. Henry Kobia and Sports Officer Mr. Byron Omondi, the teams thanked the Institute for the support they were given which helped them register impressive performance despite the stiff competition from other institutions

While receiving the trophies, Dr. Letangule conveyed his gratitude to the entire team responsible for organizing the



Dr. Letangule receiving trophies won during the concluded KETISA Games

KETISA games and commended all the participants for making the institution proud. He affirmed that his administration will continue to provide support for sports so as to ensure that the team consistently achieves excellent results.

Mr. Wamiti lauded the teams for their dedication and effort in the games which resulted in a triumph, a feat that was also noted by Mr. Kihara, a sports enthusiast who also conveyed his hearty congratulations to the team and expressed his regrets of failing to attend the games for moral support due to official commitments.

Mr. Kobia, under whose watch the FloorBall team was declared the new champions, expressed his gratitude towards the

management for their unwavering support in extracurricular activities and also acknowledged the team's contribution to their recent victory.

The sports officer Mr. Byron Omondi expressed his appreciation to the management for their support during the games season and also thanked the students for their teamwork and discipline throughout the entire KETISA games. He then encouraged all athletes to maintain the same spirit of participation in future games.

Water Quality Management Competitions Criteria

Water Quality Management Competition.

Date: 25th-26th May

Venue: Nairobi, Kenya

Call for Art, Essays and Innovations.

Introduction

The Ministry of Water, Sanitation & Irrigation and Kenya Water Institute have organized a two (2) day Water Quality Symposium on 25th-26th May 2023. This will be held at the **Kenya Water Institute headquarters in South C.**

The symposium aims to mobilize stakeholders around the issue of water quality. The stakeholders will benefit from knowledge-sharing and dissemination platform, exhibitions and innovations. The symposium will provide an opportunity for primary school, high school, college students and other youth to interact with industry/ sector players towards choosing their careers, entrepreneurship opportunities and in defining their role/ contribution towards protection and care of environment.

Symposium organizers have incorporated a **Water Quality Management Competition** where students will exhibit art and essays on water quality thematic areas and the winner will be awarded during an award ceremony on the 1st day of the symposium.

Purpose

The purpose of the side event is to:

- To enhance the awareness and strengthen the knowledge of Water Quality Management (WQM).
- Explore talents within young generation in Kenya and motivate them to pursue careers in Water Quality Management (WQM).

Scope and Nature

1. Criteria of participation:

1. a) Primary and Junior high school and Senior high school students.

<u>**Theme:</u>** Water quality, sanitation, hygiene, water conservation and water harvesting.</u>

- Primary Age:- Age of participants maximum 15 years old.
- High school:- Age of participants maximum 19 years old.

b) College students.

<u>**Theme:**</u> Choose thematic area that is affecting own locality in line with water quality management.

• Age of participants maximum 35 years old.

2. Requirements

 Participants of the competition should introduce their views on how they think different chal-



MINISTRY OF WATER, SANITATION & IRRIGATION KENYA WATER INSTITUTE

WATER QUALITY MANAGEMENT SYMPOSIUM

Theme: Accelerating change towards access to good Water Quality for Sustainable Development

Date: 25th - 26th May 2023

Venue: Kenya Water Institute, Main Campus, South C Nairobi

> FOR MORE DETAILS, CONTACT Leonard Makokha - 0722624810 or via WaterQualitySymposium@kewi.or.ki

Water Quality Management Symposium 2023

lenges as provided for in the thematic areas or research e.g. finance, climate etc. impact water quality (positively or negatively).

- On themselves as individuals, communities or countries.
- Through innovation and technology.
- And the Positive and negative effects of water quality management techniques.
- Teams may be composed of up to three students (females and males) from a single school/ institute.
- Teachers can be advisors.

• The participants should submit essays and artistic work guided by the themes.

• The shortlisted schools and colleges will be invited to the Water Quality Management Symposium to present their projects for further evaluation and awarding of winners.

• At the end of the first day of the competition, the winners, runners – up and third prize for the primary, high school and college categories will receive their awards.

How to Apply

Stage 1: Essays or Poems

- Essays or Poems should demonstrate understanding of water quality management.
- Essays or Poems (must be in

English or Kiswahili, maximum 1000 words) should be submitted through the e-mail calls@kewi.or.ke in pdf format.

 Content should be original (material not created by participants should be used)

Stage 2: Art work

- Art Work should demonstrate understanding of water quality management.
- The pictures of the art work and an abstract (maximum 500 words) on the same should be sent to the e-mail calls@kewi.or.ke in pdf format.
- Content needs to be as scientifically accurate as possible.
- Content should be original, i.e. no copyright material (such as music, images or videos not created by participants) should be used.
- Innovation can combine theoretical and practical content in a creative way.

Stage 3: Innovations

- Innovations should demonstrate understanding of water quality management and its impacts
- The pictures of the innovation and an abstract (maximum 500 words) on the innovation should be sent to the e-mail calls@kewi.or.ke in pdf format.
- Innovation can combine theo-

retical and practical content in a creative way.

- Content needs to be as scientifically accurate as possible
- Content should be original, i.e. no copyright material (such as music, images or videos not created by participants) should be used.

Position	Prizes
Winner	Trophy + Certificate + Ksh.15,000/
Runners – up	Trophy + Certificate + Ksh.10,000/
3rd Winner	Trophy + Certificate + Ksh.5,000/

Submission.

The participants will submit the abstracts through the e-mail to the email calls@kewi.or.ke by **15th May 2023**.

Awards.

For each category: Primary, High school and College.

Deadlines.

- Submission of Projects:**15th May 2023.**
- Notification of the shortlisted participants: **18th May 2023.**
- Confirmation of attendance by pre-selected teams:18th May 2023.
- Submission of the final projects: 20th May 2023

PICTORIAL

KEWI Staff in Locally made Attire, Promoting Local Manufacturing Sector













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 (DWRTM) 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 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 (CWLT) Certificate in Water Laboratory Technology (CWLT) 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

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

GET IN TOUCH WITH US

Core Values

Good Corporate Governance Professionalism Customer Focus Innovativeness Inclusivity Patriotism Integrity

The Director, Kenya Water Institute, P.O. Box 60013-00200 Nairobi TEL: +254 722-207757 Email: info@kewi.or.ke Website: www.kewi.or.ke

For enquiries about our TVET programmes

Contact the Registrar, Admissions Office. Phone: 0735339206 Email: admissions@kewi.or.ke

KEWI Nairobi Campus

P.O. BOX 60013 – 00200 Tel: 0722207757 Email: info@kewi.or.ke

KEWI Kitui Campus

P.O. BOX 1514 – 90200 Tel: 0707566395 Email: kitui@kewi.or.ke

KEWI Chiakariga Campus

P.O. BOX 12–60215 Tel: 0729009104 Email: chiakariga@kewi.or.ke

KEWI Kisumu Campus

P.O. BOX 7825 – 40100 Tel: 0722207757 Email: kisumu@kewi.or.ke

OTHER SERVICES OFFERED

Water Quality Laboratory Services Drilling and Test Pumping Services Ground water Assessment Services Conferencing Services Troubleshooting of pumps boreholes and distribution systems Repair of pumps boreholes and distribution systems

Your feedback is crucial for our improvement



communications@kewi.or.ke





Kenya Water Institute







MINISTRY OF WATER, SANITATION & IRRIGATION KENYA WATER INSTITUTE



Certificate in Irrigation and Drainage Engineering Technology

REQUIREMENTS

KCSE Mean Grade D (Plain) OR

Artisan Course qualification from KEWI or any equivalent National Qualification **OR** as determined by the Academic Board

TUITION FEE PER SEMESTER

Ksh. 21,800

DURATION

2 Years

CAMPUS

Chiakariga and Kisumu

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.or.ke

All application letters to be addressed to The Director, Kenya Water Institute, P. O. Box 60013-00200 NAIROBI not later than 14th April 2023.

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