



NEWSLETTER

ISSUE 3 | DECEMBER 2024



Engineers Board of Kenya visits Moi University

The Engineers Board of Kenya (EBK) board members led by the Registrar /CEO, Eng. Margaret Ogai Visited Moi University on 23rd October 2024 for a mock evaluation in readiness for the international assessment towards accreditation by the International Engineering Alliance (IEA) under the Washington Accord (WA). Moi University was selected to participate in the Washington Accord (WA) process with one flagship program, BEng (Chemical & Process Engineering) being evaluated. Prof. Sylvester Abuodha stressed the Board's vision to raise Kenya's engineering programs to global standards. He highlighted the need for collaborative frameworks to harmonize differing positions regarding the recognition of accredited academic programs by professional bodies.

[Click here for more](#)



CoDs meet 1st year Class Reps - 2024/25 Cohort

The Chairs of departments (CoDs) in the School of Engineering met with the class representatives of 1st years (2024/25 cohort) to discuss the program for lectures and sensitize the class reps on the new engineering curriculum that is outcome based and student centered. Under the new curriculum, the continuous assessment tasks and tests will constitute 40% to the final grade with the end of semester examination taking up 60%.

Workshop on Nature-Positive Engineering



The International Coalition for Sustainable Infrastructure (ICSI) in partnership with the United Nations Office of Project Services (UNOPS), The World Bank, and Global Centre on Adaptation (GCA) held an international workshop on 1st November 2024 at Safari Park Hotel, themed fostering nature-aligned engineering practices in infrastructural development for a resilient future. The participants were drawn from across the globe including UK, Brazil, South Africa, Germany, Ghana, Mauritius and Kenya. The representatives from Kenya included Moi University's School of Engineering (represented by the Dean), University of Nairobi's Department of Geology, Strathmore University, Bandari Maritime Academy and Kenya Ports Authority (KPA). The message to

Engineers was clear, that by rethinking how we engineer our cities and towns, infrastructure, and energy systems, we can transform these sectors into powerful forces for ecological restoration, protection and resilience, whilst also mitigating carbon emissions. This is where Nature-positive Engineering (NPE) becomes essential. NPE practices integrate ecological, human and climate information in the design, construction and maintenance of infrastructures to minimize ecosystem damage, enhance climate resilience, and promote long-term sustainability towards an overall net-gain in nature.

[Click here for more](#)

Partnership Meeting: School of Engineering and NCA

Moi University's School of Engineering on Thursday 28th November 2024 held a collaborative meeting with the National Construction Authority (NCA) - Directorate of Research, Business Development & Capacity Building led by General Manager, Dr. Chrispus Ndinyo and Manager, Training & Capacity Building Arch. Juliet Kabere. The meeting was held at NCA Headquarters, KCB Towers in Nairobi. The discussions focused on modalities for joint research and capacity building activities that will lead to improved capacity and capability for safe and innovative construction practices. The following were noted as priority areas: Building Information Management (BIM) in construction projects, Sustainable Construction materials, new construction technologies, non-destructive testing of structural health of buildings and Integrated Disaster and Risk Management (IDRM) and preparedness on construction sites. The Authority has developed the National Construction Research Agenda (NaCRA) to spearhead research in the construction industry and provide local solutions. NaCRA targets partnership framework to allow and encourage research amongst practitioners in the construction industry. The delegation from Moi University was led by the Dean, School of Engineering, Prof. Eng. Augustine Makokha. Other members were Prof. Eng. Stanley Shitote and Prof. John Githaiga. Representatives from the NCA included QS. Jacqueline Legishon, Eng. Angeline Muthoka and Queenvelly Mayaka. The two institutions agreed to continue with consultative engagements towards developing joint proposals for grant funding.



School of Engineering Alumni (TECHBLOCK) at IEK International Convention

Alumni of Moi University's School of Engineering (TECHBLOCK) held a joint meeting on the side-lines of the 31st IEK international convention hosted at Pride Inn Paradise Beach Resort Convention Centre and Spa, Mombasa. The convention opened on 29th October and closed on 1st November 2024. Approximately 3000 engineers participated in the event comprising professionals, graduates and students. The theme of the convention was "Industrialization for Economic Transformation and Employment Creation"



[Click here for more](#)

School of Engineering holds Collaborative Discussions with NITA



The Dean, School of Engineering, Prof. Eng. Augustine Makokha accompanied by Prof. Eng. Shitote paid a courtesy visit to NITA (National Industrial Training Authority) in Nairobi on Thursday October 31, 2024, where they held collaborative discussions with the Director of Industrial Training & Skills Development, Ms Jane Kamau. The Director for Industrial Training and Skills Management, acknowledged the ongoing partnership with Moi University on safety skills development and outreach in the construction industry, and expressed support for expansion of the collaboration beyond safety training. Other areas of potential partnership included: Short course trainings for skills development, NITA certifications of training curriculums for skills enhancement and Research and Innovation activities. NITA expressed interest to develop an MoU with the School to facilitate joint training and consultancy services, citing the example of the affordable housing projects. Ms. Kamau said there is need to upskill the workers to enable them handle changes in technology advancement and climate change. Other participants present included Mr. Festus Musyoki, Centre Manager for NITA Textile Training Institute (NTTI) and Richard Nyikuri, Senior Industrial Training Officer.

[More info...](#)



School of Engineering initiates partnership with KPA

The School of Engineering, Moi University and Kenya Ports Authority (KPA) held a consultative meeting on 4th November 2024 at KPA offices in Kilindini-Mombasa, with focus on potential areas of research collaboration and consultancy. The Moi University team was represented by Prof. Eng. Augustine B. Makokha (Dean, School of Engineering) and Prof. John Githaiga (Dept. of Manufacturing, Industrial & Textile Engineering). The KPA was represented by the following team: Mr. Daniel Githinji (Manager, Health, Safety and Environment), Mr. Nathan Nyamao (Principal Engineer), Eng. Nixon Oloo (Planning and Maintenance Engineer), Eng. Monicah Atemba (Electrical Engineer) and Mr. Robert Irina (Principal Engineer)

It was noted that the Port of Mombasa covers an area of 5 sq. km, and handles 1.8 million TEUs per year. A total of 2800 trucks, 12000 small vehicles and 1000 special vehicles enter the port per day. Further, approximately 25000 people enter the port daily. It was agreed that there were many areas of common interest and that the two institutions should explore ways to strengthen the current partnership. KPA expressed interest to partner with the School of Engineering in research and skills development/training towards addressing existing challenges at the port relating to efficiency, sustainability and safety as listed:

1. Digitalization of systems
2. Remote inspection of marine vessels
3. Ecological Engineering to protect the coastal biodiversity
4. Technological advancement to reduce hazards at the Port – eg. safe handling and storage of dirty cargo such as clinker, coal, gypsum, iron ore, fertilizer etc)
5. Reduction of maritime pollution including wastewater and fugitive dust (to test the performance of water cannons and eco-hoppers)
6. The port and its relationship with the indigenous community
7. Offshore systems and ocean economy

Dr. Talai Participates in Mini-Grid Training at University of Rwanda



The University of Cape Town in Partnership with University of Rwanda organized for a Mini-grid Training (MGT) workshop for Lecturers involved in delivery of MSc courses in Sustainable Energy in 22 TEA-LP partner Universities across Africa, South Asia and Indo-Pacific. The Training was held at University of Rwanda from September 4-11 2024. Dr. Stephen Talai from the School of Engineering participated in the MGT training. The MGT program was cosponsored by ACE-FUELS



through the World Bank, as well as by ARE-CORE. The training program included the use of modelling softwares such as HomerPro, Xendee and COMET. Through the TEA-LP partnership, the students taking MSc in Sustainable Energy at Moi University will have access to Homer Professional License starting January 2025.

The MGT was facilitated by Mr. Holger Peters of INENSUS, a respected German consulting and engineering firm with over 15 years of experience in decentralized energy services. The workshop brought together 49 participants, including 42 lecturers from 22 partner institutions across 16 countries. Mr. Holger Peters (INENSUS) led a series of engaging sessions that covered essential topics such as AC and DC technology for mini-grids, mini-grid system design, and control mechanisms. Participants delved into practical applications through hands-on activities and projects centered around groupwork and collaboration – an approach that models the TEA-LP teaching philosophy. The integration of advanced software tools, such as Xendee and HomerPro, for the design and development of mini-grids, added significant value to the workshop training.

[More info...](#)

NORSTIP SCHOLARSHIPS ANNOUNCED: MOI UNIVERSITY & NORWEGIAN UNIVERSITY OF LIFE SCIENCES

The Norwegian University of Life Sciences (NMBU) and the Norwegian Directorate for Higher Education and Skills (HK Dir) are pleased to announce a call for applications for the NORSTIP scholarship. The scholarship exclusively intended for students from selected NMBU partner institutions who wish to pursue a master's degree in certain fields of study at NMBU. The scholarship is valid for studies starting in autumn 2025. List of eligible English-taught 2-year master programs:

• Agroecology • Animal Science • Aquaculture • Aquatic Food Production - Safety and Quality • Data Science • Ecology • Genome Science • International Environmental Studies • Intelligent Water Technology • Plant Sciences • Sustainable Food Systems • Urban Agriculture • Applied Economics and Sustainability • Economics and Environmental Governance • Global Development Studies • Global Economy and Politics • International Relations To be eligible for the scholarship, you must fulfil the following criteria:

1. Be an employee or former student of Moi University
2. Have a Bachelor's Degree in Engineering, Economics, Agriculture, Computer Science or Environmental Science.
3. Not possess a master's degree prior to this scholarship
4. Be a Kenyan citizen residing in Kenya and aged between 20-30 years

To be awarded the scholarship, you must also be formally accepted to the Master's program at NMBU. Applicants should apply by e-mail to: norpartmoi@gmail.com and copy to deanengineering@mu.ac.ke. Successful scholarship applicants have to apply for admission before 1 December 2024, at <https://fsweb.no/soknadsweb/login.jsf?inst=nmbu>



Prof. Eng. Augustine Makokha (PE, MIEK, MAEE, CEM, REP)
Project Lead, and Dean- School of Engineering
Email: deanengineering@mu.ac.ke

