

Session Program

8-11 Sept 2026



10th U6+ Consortium of African Universities International Conference

Science, Technology, Engineering & Innovation

University of Eldoret, Main Campus
P.O. Box 1125-30100 Eldoret, Kenya. (East Africa Time)

Times shown in Africa/Nairobi

Wednesday 9 September

14:00

(Africa/Nairobi)

Science, Technology, Engineering & Innovation

Session | **Location:** EKA Hotel, Kerio 2, Eldoret Town | **Convener:** Chairperson

14:00–14:12

Predicting the Environmental Impact of Star Rated Hotels using Machine Learning in Nairobi City, Kenya.

Speaker

Otieno R. Argwings

14:12–14:24

Design and performance simulation of a pyrethrum (*Tanacetum cinerariifolium*) harvester using artificial neural network and fuzzy logic optimization

Speaker

Mwamba, A.,

14:24–14:36

Yellow Nutsedge (*Cyperus esculentus* L.): A Promising Crop for Food and Nutritional Security in Kenya and East Africa

Speaker

Emily J. Too

14:36–14:48

CO₂ Electrocatalytic Reduction to Formaldehyde and Formic acid on Nanostructured Cu₂ O/TiO₂ Anatase (101) System

Speaker

Maliatso, L

14:48–15:00

A mathematical model of Artificial Intelligence (AI) integration in university education

Speaker

Mercy Jemutai Kimutai

15:00–15:12

Formation of Conjugated Polyenes, Malondialdehyde and Methylglyoxal in French Fries Produced with Four Different Types of Oils

Speaker

Kevin O. Aduol

15:12–15:24

Mechanistic Elucidation of Chromium Rhizofiltration in *Colocasia esculenta* and *Xanthosoma sagittifolium*: A Review on Speciation Dynamics, Biochemical Detoxification, and Rhizosphere Microbiome Responses

Speaker

Nyambura Janerose

15:24-15:36

KOHA-ERP integration for automated library user management and service delivery: A case study of the University of Eldoret, Kenya**Speaker**

Titus K.R. Too

15:36-15:48

Darwins tree of life - Is it dying or is it dead?**Speaker**

Donald F. Otieno

15:48-16:00

Design and Simulation of a Compact Thin-Film Lithium Niobate-on-Insulator (TFLNOI) Waveguide for Second-Harmonic Generation**Speaker**

Jackson Okwemba

16:00-16:12

In silico Identification of Multi-Target Phytochemicals from Artemisia annua and Aloe barbadensis Against Methicillin-Resistant Staphylococcus aureus**Speaker**

Loice Naswa Wechuli

16:30

16:45

(Africa/Nairobi)

Science, Technology, Engineering & Innovation**Session** | **Location:** EKA Hotel, Kerio 2, Eldoret Town | **Convener:** Adebisi - Chairperson

16:45-16:57

Lexical Semantics-Aware Recurrent Neural Network for Efficient Spam Detection and Classification**Speaker**

James Gitongori Ombogo

16:57-17:09

On the solution of confined aquifer flow equations: Approach of finite differences**Speaker**

Julius Maremwa

17:09-17:21

Investigating the Reasons Why Construction in Kenya is Becoming Programmatic and the Challenges People Face in Building Homes**Speaker**

Siringi Daniel Ogwoka

17:21-17:33

Integrating Random Forests and Bayesian Additive Regression Trees into Bayesian Propensity Score Matching**Speaker**

N. Kollongei

17:33-17:45

Translating Selected Artificial Intelligence Terminologies into Yoruba for Sustainable Transformation in Indigenous Science

Speaker

Aliy Abdulwahid Adebisi

17:45–17:57

Productivity of *Anopheles gambiae* breeding habitats in Chwele in Western Kenya Highlands

Speaker

Okumu N. A.

18:00

Thursday 10 September

10:20
(Africa/Nairobi)

Science, Technology, Engineering & Innovation

Session | **Location:** EKA Hotel, Kerio 2, Eldoret Town | **Convener:** Dr. Julius Maremwa - Chairperson

10:20–10:32

Using Pozzolan Materials to Improve Mechanical Properties of Lime-Based Mortar

Speaker

Odiwuor Vincent Onyango

10:32–10:44

Evaluation of polynuclear aromatic hydrocarbons and acrylamide formations by heat treatments in foods: Impacts on the human environment

Speaker

A. C. Etonihu

10:44–10:56

Advancing Collaboration across borders through Genomic Innovation: The University of Eldoret Genetics and Genomics Research and Training Laboratory

Speaker

Emily J. Chemoiwa

10:56–11:08

Numerical Investigation of Flow and Heat Transfer in a Two-Dimensional Channel with Obstacle Configurations: Effects of Different Arrangements on Fluid Dynamics and Thermal Performance

Speaker

Bai Mbye Cham

11:08–11:20

The Innovation Gap: Repositioning African Tertiary Institutions in a Competitive Global Order

Speaker

Muhtar Adeiza Etudaiye

11:20–11:32

Evaluation of anti-diabetic and antioxidant potential of Vernonia auriculifera bark extract in Streptozocin-induced diabetic Wistar rats

Speaker

Lucky Abdirizak

11:56–12:08

Cytogenetic Diversity of Wild and Cultivated Yellow Nutsedge (*Cyperus esculentus* L.) Accessions

Speaker

Rosbella Jemurgor

13:00

Friday 11 September

10:15
(Africa/Nairobi)

Science, Technology, Engineering & Innovation

Session | **Location:** EKA Hotel, Moiben, Eldoret Town | **Convener:** Dr. Bilqis Lawal - Chairperson

12:39-12:51

Mathematical modelling for optimal bio-methane renewable energy using two-dimensional Navier - Stokes equation

Speaker

Ruth Akumu Obande

12:51-13:03

Monitoring and evaluation practices and performances of Kenya National Highways Authority road construction projects in North Rift region, Kenya

Speaker

Duncan Oduor Miyere

13:03