



KABARAK UNIVERSITY

Education in Biblical Perspective

SCHOOL OF SCIENCE, ENGINEERING AND TECHNOLOGY

INTERNATIONAL CONFERENCES ON
MATHEMATICAL, PURE & APPLIED SCIENCES
AND ENVIRONMENT & ENERGY, 2023

Themes:

- 1. Bridging Research Gap Through Basic and Applied Sciences*
- 2. Sustaining Resource Utilization and Energy Efficiency*

PROGRAM



10TH - 11TH JULY 2023



Kabarak University is ISO 9001:2015 certified.

PROGRAM

DAY ONE: MONDAY 10TH JULY 2023

SESSION CHAIR: PROF. C.M. MAGHANGA

Link: <https://kabarak-ac-ke.zoom.us/j/88579192553?pwd=U1Fpakt4YmpmaDhjRTFES042dG1wQT09>

TIME	ACTIVITY	FACILITATOR
8.00 – 8.30 AM	REGISTRATION	Ms. Sharon Cherotich
8.30 – 8.40 AM	MEDITATION	Rev. Prof. Jacob Kibor, Provost
8.40 – 8.50 AM	WELCOMING REMARKS	Prof. Maghanga Christopher
8.50 – 9.00 AM (FLEXIBLE)	OPENING REMARKS	Dr. Peter Rugiri, Dean SSET
9.00 – 9.05 AM	DVC (A&R) WELCOMES THE VICE CHANCELLOR	Prof. John Ochola
9.05 – 9.20 AM (FLEXIBLE)	WELCOME REMARKS BY THE VICE CHANCELLOR	PROF. HENRY K. KIPLANGAT
9.20 – 10.00 AM	KEY NOTE ADDRESS	Prof. Mghendi Mwamburi
10.00 – 10.40 AM	GUEST SPEAKER	Dr. Paul Njogu
10.40 – 11.20 AM	GUEST SPEAKER	Prof. K.M. Khanna
11.20 – 11.25 AM	VOTE OF THANKS	Dr. Moses Thiga
11.25 – 11.55 AM	TEA BREAK AND MOVE TO BREAK OUT ROOMS	

CHAIRMAN: DR. PETER TANUI

REPORTEUR: MS GLADYS KWEMOI

PAPER PRESENTATIONS

	PAPER	PRESENTER	TIME
01	Piezo – Photocatalytic Performance of Fe- Doped BaTiO ₃ Compounds	Wycliffe M. Isoe, Maxwell J. Mageto, Benjamin V. Odari, Onesmus M. Munyati, Maurice M. Mwamburi, Christopher M. Maghanga, Sylvester Hatwaambo	12.00 – 12.20
02	Influence of WO ₃ doping on Optical Properties of SnO ₂ Thin Films Synthesized by Sol-gel Spin Coating Technique	Victor Isahi, Christopher Maghanga, Mghendi Mwamburi, Onesmus Munyati, Sylvester Hatwaambo, Emmanuel Akoto, Wycliffe Isoe, Mir Waqas Alam	12.20 – 12.40
	LUNCH BREAK		12.40 – 2.00 PM

CHAIRMAN: MR. MURILA MUSUNGU

REPORTEUR: MS SHARON

03	Electronic Structure, Mechanical and Dynamical Properties Study of Strontium Doped Barium titanate; $Ba_{1-x}Sr_xTiO_3$ Perovskite; A First Principle Study	P.W.O. Nyawere	2.00 – 2.20 PM
04	Thermodynamic parameters for hydrogen storage in metal organic frameworks	Hezekiah K. Cherop and Jason B. Kanule	2.20 – 2.40 PM
PARTNERS TIME			2.40 – 2.50 PM

MODERATOR: DR. WANGILA

05	Structure and properties of superconducting Magic Angle Twisted Bilayer Graphene	Peter TANUI and Dismas KIBOI	2.50 – 3.15 PM
06	Bayesian methods in Medical Research: The case of Survival Models	Henry Ondicho Nyambega	3.15 – 3.35 PM
07	On Mutual class (Q) operators	Wanjala Victor , John Wanyonyi Matuya and Edward Njuguna	3.35 – 3.55 PM
TEA BREAK			3.55 – 4.15 PM
08	<i>Ab initio</i> high pressure study of semiconductor-metal phase transition of the chalcogenide compound KPS_{e6}	Ogwoka P. J, Otieno C. O and P.W.O. Nyawere	4.15 – 4.35 PM
09	Development of an automated hall effect experimentation method for the electrical characterization of thin films	A.Orega, M. Mwamburi, C. Maghanga	4.35 – 4.55 PM

DAY TWO: TUESDAY 11TH JULY 2023

CHAIRMAN: MR. ROBERT ROTICH

REPORTEUR: MR. CHEPKOK

	PAPER	PRESENTER	TIME
	DEVOTION	DR NYAWERE	8.30 – 8.40 AM
10	Tungsten doped TiO_2 for organic dye removal from wastewater	Gloria I.Murila, Maxwell Mageto, Mghendi Mwamburi, Samiji Magrate	8.40 – 9.00 AM
11	Mechanical Properties of Al-Mg-Si Alloys (6xxx Series): A DFT-Based Study	Pius Kipkorir, Nicholas Ongwen, Maxwell Mageto, Victor Odari, Francis Gaitho	9.00 – 9.20 AM
12	Expanding the Scope of Computational Alchemy for Efficient Screening of Non-Noble Transition Metal-Doped Pt Catalysts for CO_2 Reduction	Cecil Ouma	9.20 – 9.40 AM
13	Chi Square Modeling on challenges facing Kenyan university Students	Monari	9.40 – 10.00 AM
	TEA BREAK		10.00 – 10.30 AM
14	Influence of the Substrate Temperature and Ag Incorporation on the Properties of Reactively DC Co-Sputtered $Ag:TiO_2$ Thin Films	Hezekiah Buay Sawa, Margaret Emanuel Samiji, Nuru Ramadhani Mlyuka	10.30 – 10.50 AM



CONTACT

SSET CONFERENCE COORDINATOR

Dr. Phillip Otieno Nyawere

potieno@kabarak.ac.ke,

+254728342054, +254736342054

KABARAK UNIVERSITY MAIN CAMPUS

Private Bag-20157, KABARAK | Tel. 020 2114658, 0729 223 370

info@kabarak.ac.ke / feedback@kabarak.ac.ke / admissions@kabarak.ac.ke

NAKURU CITY CAMPUS

Nakuru-Kabarak Road | Tel. 0720 511 838 | 0774 488 864 | nakurutowncampus@kabarak.ac.ke



www.kabarak.ac.ke



info@kabarak.ac.ke



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