

Mount Kenya



University

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**OF ABSTRACTS
& PROGRAMME**

**Interdisciplinary Conference
and Innovations Fair 2025**

Sponsor:

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In Partnership with



MOUNT KENYA UNIVERSITY INTERDISCIPLINARY CONFERENCE AND INNOVATIONS FAIR 2025

25TH & 26TH September 2025

Conference Theme:

“Emerging Technologies and Sustainable Practices: Innovation in Agriculture, Health, Renewable Energy, and Business Practices”

Venue:

Mount Kenya University, Nakuru Campus

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MEMBERS OF THE CONFERENCE (2025)

ORGANIZING COMMITTEE

1	Dr. Jacqueline Omuya	Member and Host
2	Dr. Allan Mweke	Chair
3	Mr. Amos Monoi	Member
4	Mr. Alphonse Chepsat	Member
5	Dr. Patrick Juma	Member
6	Ms. Anne Muturi	Member
7	Mr. Charles Mitaki	Member
8	Ms. Dorcas Mungai	Member
9	Ms. Elsie Wambugu	Member
10	Dr. Emily Kirwok	Member
11	Mr. Francis Barasa	Member
12	Mr. Henry Mathews	Member
13	Mr. Alfred Langat	Member
14	Mr. Jackson Mbugua	Member
15	Mr. John Kago	Member
16	Dr. John Muturi	Member
17	Dr. Joyce Chebet	Member
18	Mr. Kipyegon Cheruiyot	Member
19	Mr. Khayumbi Ayub	Member
20	Ms. Magdalene Njagi	Member
21	Ms. Mary Wanjiru	Member
22	Dr. Michael Muhoro	Member
23	Ms. Millicent Makokha	Member
24	Mr. Moses Kinyua	Member
26	Dr. Robert Obuba	Member
27	Mr. Patrick Otieno	Member
28	Dr. Ronald Kikechi	Member
29	Ms. Rona Nyambane	Member
30	Mr. Rusell Ouma	Member
31	Dr. Ruth Njoroge	Member
33	Dr. Ruth Winnie Munene	Member
34	Dr. Simon Migwi	Member
35	Ms. Suzanne Standa	Member



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1.

Messages from Organizers and Guests



INTRODUCTION AND WELCOME

DR. DAVID N. WATENE

Director of Education, State Department for University Education, Ministry of Education.

Profile of Conference Chief Guest:

Director of Education, State Department for University Education, Ministry of Education. He holds a PhD in Education Administration and

Management from Maasai Mara University, Master in education in Education Administration & Planning and Bachelors of education Arts (Accounting & Economics) from University of Nairobi. Has vast experience of over 32 years at various levels of Education sector as an Education administrator and manager/supervisor, Senior Education Officer, Assistant Director, Senior Assistant Director and currently Director in Higher Education.

Speech

Distinguished Guests, Esteemed Scholars, Innovators, Students, Ladies, and Gentlemen, It is a great honor to address you at the Mount Kenya University Interdisciplinary Conference and Innovations Fair 2025. I thank the organizers for bringing us together to explore how technology and innovation can drive a sustainable future.

We meet at a time of immense challenge climate change, food insecurity, health risks, and rising energy demands. Yet, advances in science and technology offer us powerful tools to respond with resilience and creativity.

Agriculture remains the backbone of our economy, but it is under pressure. The theme “Agri-Tech Innovations: Cultivating the Future of Food” reminds us that the farmer of tomorrow will not only plant seeds but also plant data into systems powered by drones, sensors, AI, and biotechnology. This transition is no longer optional; it is essential.

Our livestock sector is also transforming. Precision animal health through genomics, biosensors, and mobile platforms enables early disease detection, productivity gains, and food safety. This aligns with the One Health principle: the recognition that human, animal, and environmental health are deeply interconnected.

Innovation must go hand in hand with protection. Sustainable agribusiness models should conserve biodiversity, reduce waste, and lower emissions. Climate-smart practices drought-tolerant crops, regenerative soils, renewable energy, water harvesting are practical pathways to resilience.

Universities like Mount Kenya University are more than learning centers they are incubators of innovation. By linking academia, industry, and communities, they can translate research into real-world impact.

Ladies and Gentlemen, the challenges are great, but our potential is greater. Let this conference inspire not just dialogue but decisive action toward a smarter, sustainable, and innovative future. Thank you. God bless you. God bless Kenya.



MESSAGE FROM THE VICE-CHANCELLOR

Prof. Deogratius Jaganyi,
Vice-Chancellor, Mount Kenya University

It is my great pleasure to welcome you all to Mount Kenya Interdisciplinary Conference and Innovation Fair 2025, hosted here at Mount Kenya University's Nakuru Campus. We are gathered today both in person and virtually with one shared mission:

to spark ideas, build partnerships, and drive solutions that transform lives.

At MKU, we believe research and innovation thrives through collaboration. In the past year, we have forged exciting partnerships—from leading a DAAD-funded consortium of 10 Kenyan universities to strengthen entrepreneurship and service learning, to joining hands with the Chartered Institute of Arbitrators and South Africa's ILI-SACE for cutting-edge training in arbitration and ESG law. We have also expanded opportunities for our students through our MOU with the United Nations Volunteers, opening global platforms for service and experiential learning.

We are honored today by the presence of distinguished leaders, including:

- *Dr. David N. Watene, from the state department for higher education, Ministry of Education, republic of Kenya*
- *Dr. David Ngigi, CEO, NACOSTI*
- *Mr. Geoffrey Monari, CEO, HELB*
- *Hon. Leonard Bor, CEC for Agriculture, Nakuru County*

Our theme this year “Emerging Technologies and Sustainable Practices: Innovation in Agriculture, Health, Renewable Energy, and Business Practices” captures the challenges and opportunities before us. Across these sectors, innovation is not a luxury, it is a necessity. From ensuring food security and better healthcare, to powering our

economies sustainably and rethinking business models, technology and sustainability are the twin drivers of Africa's transformation.

So, as we begin, I invite all of you to contribute boldly. Let's make this conference not just a space for ideas, but a launchpad for action that delivers real solutions for our people and our planet.

Welcome once again to MKU Nakuru Campus, and to the interdisciplinary conference and innovation fair 2025. Together, let's shape a future built on innovation and sustainability.



MESSAGE FROM THE DEPUTY VICE CHANCELLOR ACADEMIC AND RESEARCH AFFAIRS

**Dr. Mercyline Kamande,
Deputy Vice chancellor Academic and
Research Affairs, Mount Kenya University**

Every new dawn ushers in fresh opportunities,
a chance to see the world in a different light.

This conference is that dawn for us an awakening of ideas, technologies, and sustainable practices that promise to redefine agriculture, health, renewable energy, and business across Africa. Hosted here at Mount Kenya University's Nakuru Campus, the Interdisciplinary Conference and Innovation Fair 2025 is not just another gathering; it is a horizon where research and innovation meets action, where the future begins today. For years, research and innovation discourses have been nurtured across institutions and global platforms. But now, this moment marks the true “beginning” where ideas, partnerships, and solutions are translated into impact for our communities.

Our theme, *“Emerging Technologies and Sustainable Practices: Innovation in Agriculture, Health, Renewable Energy, and Business Practices,”* reflects the pillars that can transform Africa's future. Agriculture sustains our people, health secures our societies, renewable energy powers our growth, and business practices connect us to global markets. Together, they form the engines of resilience and progress. Yet with every new arrival comes responsibility. It is not enough to reward and celebrate innovation; we must embed it into our research, our classrooms, our businesses, and our policies. Above all, we must deliberately involve the youth the researchers, innovators, entrepreneurs, and leaders of tomorrow. Their voices, creativity, and courage will define the transformation we seek.

As we launch this conference and innovation fair, let us receive this “milestone” not just with pomp and celebration, but with a shared commitment: to turn ideas into action, to make innovation inclusive, and to ensure that Africa’s transformation is driven by Africans, for Africans.

Welcome to Mount Kenya University’s Nakuru Campus, and welcome to a new era of research and innovation.



MESSAGE FROM THE PRINCIPAL COLLEGE OF GRADUATE STUDIES AND RESEARCH

Dr. Henry Yatich,
Principal, College of Graduate Studies
and Research

It is with great pride that we welcome all guests and participants to the Mount Kenya University Interdisciplinary Conference and Innovations Fair 2025, held by jointly under the auspices of

our Nakuru Campus, Eldoret Campus, Kisii, ODeL, Kisumu ODeL, Kitale ODeL, Kakamega ODeL and Kericho ODeL. This year's theme ***"Emerging Technologies and Sustainable Practices"*** reflects our collective commitment to advancing innovation across agriculture, health, renewable energy, and business. It is a precursor to the one-day research workshop held last year at Nakuru campus.

This conference signals a strategic shift in how we approach research and knowledge dissemination at the University. Mount Kenya University is actively devolving its research and innovation agenda to include all campuses, academic departments, and ODeL Centres. This inclusive model ensures that every faculty regardless of location or discipline has a voice in shaping solutions for our communities, through research and innovation. This year, we are also involving our own student innovators who have shined in numerous international pitches and participations.

This year's research and innovation conference showcases a vibrant mix of physical and virtual presentations, cross-sectoral panels, and student-led innovations. It is a testament to the power of collaboration and the richness of ideas emerging from our diverse academic ecosystem.

As we engage in academic discourse, dialogue, discovery, and co-creation of solutions, let us reaffirm our shared mission: to make research relevant, accessible, and transformative-Thank you Nakuru Campus led by the Committee Chair, Dr. Allan Mweke and Director, Nakuru Campus, Dr. Jackline Omuya for hosting the 1st Inaugural devolved University Research and Innovation Conference 2025.

Together, we build a future where innovation is not centralized, but democratized and driven by all, for all.

Welcome to Nakuru Campus. Welcome to the future of co-creating solutions.



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2.

Programme Outline

Programme outline

Day one - Thursday 25th September 2025 Morning Session			
Time	Activity	Participant	Session Chair
08:00 - 08:30 a.m.	Arrival and Registration	All participants	Gladis Naisiae
Session 1, Venue – Infinite Quest Auditorium			
08:30- 08:40	Housekeeping by organizers,	Dr. Allan Mweke	
08:40 -08:50 a.m.	Welcoming remarks by Director MKU Nakuru campus	Dr. Jacqueline Omuya	
08:50 - 09:00 a.m.	Remarks by principal, College of Graduate Studies and Research	Dr. Henry Yatchi/Prof. Jesse Gitaka	
09:00- 09:10 am	Remarks by DVC, ARA	Dr. Mercyline Kamande,	
09:10- 09:20 am	Remarks by Vice-Chancellor MKU	Prof. Deogratius Jaganyi	
09:20 - 09:40 a.m.	Chief guest, Director of Education, State Department for University Education, Ministry of Education	Dr. David Watene	Moderator: Dr. Samwel Karenga
09:40- 10:25 a.m.	Panel Discussion	Panellists: 1. Dr. David Watene 2. Dr. David Ngigi, CEO NACOSTI 3. Mr. Geoffrey Monari, HELB CEO 4. Hon. Leonard Bor, CEC Agriculture for Nakuru County 5. Prof. Jesse Gitaka – Director, Research and Development	
10:25 - 10:35 a.m.	Universities' role in support of SDGS agenda through the United Nations academic impact hub chairs -the case of Mount Kenya - Principal, Corporate, Communication and Alumni Relations	Prof. Peter Wenderi	
10:35 - 11:15 a.m.	Innovation session and presentations	-Joseph Thuku -Nelson Mwalaghe -Elvis Kipkirui and Daniel Kadurha	
11:15 – 11:45 a.m.	Photo Session & Health Break		Mr. Njoroge Donatus

Breakout Sessions

Day 1 Room A			
Chair: Dr. Allan Mweke Rapporteur: Mr. Kipyegon Cheryuot			
Sub-theme: Agri-Tech innovations: cultivating the future of food			
Time	Presentation Title, Presenter(s) & Affiliation	Mode	
11:45 – 12:00	The role of emerging technologies in enhancing agricultural productivity and business efficiency Robert Obuba School of business and economics, Mount Kenya University	Physical	
12:00 – 12:15	Assessment Of AI-Powered Supply Chain Visibility For Sustainable Development In Migori County, Kenya Robert Omundi Obuba , Kennedy Omondi and Emmanuel Muthembwa Nzuki Mount Kenya University	Physical	
12:15 – 12:30	The Effect Of Climate-Smart Agricultural Practices On Income And Food Security Of Smallholder Farmers In Kenya's Arid And Semi-Arid Lands (ASALS) Ronald Kikechi , Dr. Robert Obuba and Dr. Emily Kirwok Mount Kenya University	Physical	
12:30 – 01:00	Presenters & Audience discussion		
01:00 – 02:00	Lunch Break		
Time	Presentation Title, Presenter(s) & Affiliation	Mode	
02:00 – 02:15	Artificial intelligence model for simulating climate change impacts on agriculture and suggest adaptive. Joseph Kithinji and Isaac Gachanja Department of Business, University of Embu	Physical	
02:15 – 02:30	Enhancing Food Security and Sustainable Fish Farming through the Solar-powered AquaSmart AI System Paul Abuongi KCA University	Virtual	
02:30 – 02:45	Geo-thermal powered for GeoCrickets farming for Sustainable Protein Sources Kipkemoi Chepkwony Samuel , Glaris chepkirui, Job Masaki, Malcolm Rotich, Felix Kiprotich, Dina Gacheri and RuthWinnie Munene	Physical	

	Mount Kenya University,	
02:45 – 03:00	Effect of Seed Pelleting on Germination Percentage and Rate of Cleome Gynandra L. Seeds. Muga Moses University of Eldoret, Kenya	Virtual
03:00 – 03:15	The effect of digital agricultural technologies on sustainable farming practices among smallholder farmers in Kisii county, Kenya CHARLES MOUNDE MITAKI Equip Africa Institute Kisii	Physical
03:15 – 03:30	Evaluation of seasonal variation on phytochemical content of Rosmarinus officinalis grown in different agro-ecological zones of Kiambu County, Kenya Zelipha N. Kabubiji* Evans N. Nyaboga ² , James M. Mbaria ² , John M. Wanjohi ² and Mbaabu P. Mathiu ² ^{1*} Mount Kenya University, ² University of Nairobi	Physical
03:30 – 04:15	Presenters & Audience discussion	
Day 1 Room B		
	Chair: Dr. Simon Migwi Rapporteur: Dr. Ruthwinnie Munene	
Sub-theme: Precision animal health: leveraging technology for proactive and personalized care.		
Time	Presentation Title, Presenter(s) & Affiliation	Mode
11:45 – 12:00	Assessment of knowledge, attitude, and practices on donkey welfare and abuse in Olulunga ward, Narok South Sub-County, Kenya Langat Kipkirui Jefferson, Dr. Michael Muhoro, Dr. Allan Mweke Mount Kenya university	Physical
12:00 – 12:15	Determining the Minimum Self-Monitoring Schedule Needed for Accurate Glucose Prediction Using LSTM Model Annah Ndonoo Pwani University	Physical
12:15 – 12:30	Assessing the factors influencing Foot and Mouth Disease (FMD) vaccination uptake in Issenyen ward, Serengeti District, Tanzania	Physical

	E.Sindoya, and S.Migwi Mount Kenya University.	
12:30 – 01:00	Presenters & Audience discussion	
01:00 – 02:00	Lunch Break	
Time	Presentation Title, Presenter(s) & Affiliation	Mode
02:00 – 02:15	Causes of mortality in pigs presented for postmortem at regional veterinary investigation laboratory F.Kiptoo, and S.Migwi Mount Kenya university	Physical
	Challenges faced by dairy farmers in controlling mastitis in Keringet ward, Kuresoi South Sub County, Nakuru County, Kenya.	
02:15 – 02:30	Brian Cheruiyot Yegon¹ , Elizabeth Mwaura ² , Dr. Allan Mweke ³ ¹ .Mount Kenya University ² .Kenyatta University Department of crop science	Physical
02:30 – 02:45	Factors Influencing Layers Chicken Productivity in Bahati Ward, Bahati Sub-County, Nakuru County Vincent Musyoki, Allan Mweke PhD. Mount Kenya University	Physical
02:45 – 03:00	Factors influencing pig production in Kiabonyoru ward Borabu sub county Nyamira county Peter Nyandisi ¹ and Allan Mweke ¹ ¹ .Mount Kenya University Department of Animal Health and Production	Physical
03:00 – 03:15	Performance and Evaluation of an eco-friendly brooder within small scale commercial farmers in KIAMBU County, Juja Sub County, Weithethie Ward. Teresa Muthoni Maina ¹ , Dr. Elizabeth MWAURA Ph. D.1,2, Dr. Allan Mweke ¹ . Mount Kenya University ² . Kenyatta University Department of Agriculture, Science and Technology	Physical
03:15 – 03:30	Prevalence, Species Diversity, and Composition of Gastrointestinal Nematodes in Sheep Kept Under Pastoral Systems in Njoro Ward, Nakuru County Felix kiprotich, and Patrick Juma Mount Kenya university	Physical

02:30 – 04:15	Presenters & Audience discussion	
Day 1 Room C		
	Chair: Dr. Emily Kirwok Rapporteur: Dr. Ruth Njoroge	
Sub-theme: Sustainable agribusiness: feeding the world protecting the planet.		
02:00 – 02:15	Analysis of Poverty Status and Livelihood Diversification among Women in Agribusiness in Jalingo, Taraba State, Nigeria *T. Adamu and **A. A. Tafida * Modibbo Adama University, ** Modibbo Adama University	Physical
02:15 – 02:30	Insect-Based Feed Efficiency Gains Upregulate the Expression of Growth and Immune Related Genes in Ross 308 Broilers Victor K. Rotich 1,2 , Isaac M. Osuga 2 , Mathew G. Gicheha 2 , Shaphan Y. Chia 1 , Jandouwe Villinger 1 , Anderson N. Maina 3 , Jinhua Xiao 4 , Dennis Beesigamukama 1 and Chrysantus M. Tanga 1* 1 International Centre of Insect Physiology and Ecology (icipe) 2 Department of Animal Sciences, Jomo Kenyatta University of Agriculture and Technology 3, North-West University 4 Nankai University,	Physical
02:30 – 02:45	Significance of Academic Libraries in the Implementation of Competency Based-Education (CBE) in Kenya Henry Kenneth Odhiambo Mount Kenya University, Kenya	Physical
02:45 – 03:00	Factors Causing High Rates of Kuroiler Chick Mortality in Kuresoi North Constituency, Nakuru County Kelvin Kipkoech Yegon 1, Dr. Elizabeth Mwaura Ph.D. 1,2, Dr. Allan Mweke Ph.D. 1 Mount Kenya University, Kenyatta University,	Physical
03:00 – 03:15	Factors influencing pig production in Kiabonyoru ward Borabu sub county Nyamira county Peter Nyandisi Allan Mweke Mount Kenya University	Physical

03:15 – 03:30	Patrick Juma² , Evelyn Okoth ² , Nixon Keya ¹ , James Shituku ¹ , Simon Zebelo ³ , Caleb Nindo ³ , and Turoop Losenge ¹ ¹ School of Pure and Applied Sciences, Mount Kenya University ² College of Agriculture and Natural Resources, Jomo Kenyatta University of Agriculture and Technology ³ University of Maryland Eastern Shore	Physical
03:30 – 04:15	Presenters & Audience discussion	
Day 2 Room A		
Chair: Dr. Ronald Kilechi Rapporteur: Dr. Patrick Juma		
Sub-theme: Climate smart agriculture: building sustainable food systems.		
Time	Presentation Title, Presenter(s) & Affiliation	Mode
09:00 – 09:15	Agroecological-based vegetable push-pull cropping system for sustainable production of healthy vegetables Daniel M. Mutiyambai ^{1,2} , Bretor K. Mutua ^{1,2} , Edward Karanja ¹ , Thomas Dubois ¹ ¹ International Centre of Insect Physiology and Ecology, ² Department of Life Sciences, South Eastern Kenya University	Physical
09:15 – 09:30	Climate-Smart Agriculture: Building Sustainable Food Systems Author: Walubengo Wilberforce Wasike Affiliation: Mount Kenya University, School of Education, Department of Environmental Studies	Physical
09:30 – 09:45	Constraints in adoption of certified seeds among smallholder farmers in kenya and the role of government and private seed sector in availability of certified seeds: A review Kivi Augustus Paul Kenya Plant Health Inspectorate Service (KEPHIS)	Physical
09:45– 10:00	Evaluation of capsicum-desmodium intercrop on false codling moth, Thaumetotibia leucotreta (Meyrick) infestation and damage for sustainable capsicum production Benedict Mathitu ¹ , Allan Mweke ² , Judy Wambua ¹ , Daniel Mutiyambai ^{3,4} ¹ South Eastern Kenya University,	Physical

	² Mount Kenya University ³ International Centre of Insect Physiology and Ecology	
10:00– 10:15	Evaluation of pheromone traps as a mass trapping tool for the management of false codling moth [<i>Thaumatotibia leucotreta</i>] in roses under greenhouse conditions. Emmanuel Onamu ¹ , Allan Mweke ¹ , 5, Daniel Mutiyambai ² , 3, John Nderitu ¹ , and Muo Kasina ⁴ . ¹ University of Nairobi. ² International Centre of Insect Physiology and Ecology ³ South Eastern Kenya University ⁴ Kenya Agricultural and Livestock Research Organization ⁵ Mount Kenya University	Physical
10:15– 10:30	Presenters & Audience discussion	Physical
10:30– 11:00	Harnessing Climate Smart Agriculture for Resilient, Low Emission Food Systems Lillian Kagendo William Bomet university	
11:00– 11:45	TEA BREAK	
Time	Presentation Title, Presenter(s) & Affiliation	Mode
11:45 – 12:00	Climate and Sustainable food system through agriculture Peris Cherotich Kerich Bomet University	Physical
12:00 – 12:15	Strategic Responses to Gender Based Violence in Climate-Affected Agricultural Communities Betty Kanyiri Njoni, Washington Okeyo and Dorothy Tsuma THE MANAGEMENT UNIVERSITY OF AFRICA Current Status of Agrobiologicals Use in Kenya Allan Mweke ¹ , Patrick Juma ¹ , Cecilia Onyango ² ¹ . Mount Kenya University ² . University of Nairobi	Physical
12:15 – 12:30		Physical
12:30 – 01:00	Machine Learning for Monitoring Single Tree Responses to Climate Change in Rwanda's Western Highlands Ndayisaba Joel ^{1,2,3} , Gaspard Rwanyiziriri ¹ , Joseph Tuyishimire ^{1,2} , Maurice Mugabowindekwe ^{1,2} , Theodore	Physical

	Nshimiymuremyi ³ ¹ University of Rwanda, College of Science and Technology, ² Center of Geographical Information System and Remote Sensing (CGIS), ³ Albertine Rift Conservation Society (ARCOS Network),	
01:00 – 02:00	Lunch Break	
Day 2 Room B		
	Chair: Dr. Robert Obuba Rapporteur: Mr. Kipyegon Cheryuot	
Sub-theme: Food security and agricultural resilience: strategies for a changing world.		
Time	Presentation Title, Presenter(s) & Affiliation	Mode
09:00 – 09:15	Soil Erosion and Deposition in Conservation Areas within the Great Rift Valley: The Case for Olduvai-Engaruka (Tanzania) and Baringo (Kenya) Basins George Watene* Thomas Ngigi, Felix Mutua Jomo Kenyatta University of Agriculture and Technology	Physical
09:15 – 09:30	Effect Of Gilgil town urban sprawl on arable agricultural land use on its urban fringe of langalanga in the period 2017- 2021. ¹ Ng'ang'a Peter Njoroge ² Ednah Koskei, ³ Japhet Kipngeno ¹ Mount Kenya University, ² Kabarak university. ³ kampala international University College	Physical
09:30 – 09:45	Assessment of agile procurement strategies and operational performance of animal feed manufacturers IN NAKURU COUNTY, KENYA ¹ Abdulrahman Hussein Kasai ² Dr Ruthwinnie Munene- Mount Kenya University	Physical
09:45– 10:00	Compatibility of Entomopathogenic Fungi and Insecticides for Integrated Management of Schistocerca gregaria Kimani Anne ¹ *, Mweke Allant ¹ , Nderitu Huria ² , Shiqian Feng ³ , Gacheri Purity ¹ , Kamau John ¹ ¹ . Mount Kenya University ² . National Potato Council of Kenya ³ Chinese Academy of Agricultural Sciences	Physical

10:00– 10:15	Effect of interactions of maize chlorotic mottle virus and sugarcane mosaic virus on maize lethal necrosis disease development in infected maize. Joyce Waithera,^{1,2} Douglas Milano², Muiru W.M,² Eunice Mutitu² & Isaac Macharia¹ ¹. Kenya Plant Health Inspectorate Service ². University of Nairobi	Physical
10:15– 11:00	Presenters & Audience discussion	
11:00– 11:45	TEA BREAK	
11:45 – 12:00	Evaluation of Biofertilizer and Pesticide performance of Black soldier fly larvae (Hermetia illucens) frass on farming of kales (Brassica oleracea). Ochieng, C, Nyakeri, EM and 1Nyunja R, Jaramogi Oginga Odinga University of Science and Technology	Physical
12:00 – 12:15	Investigation of factors leading to organ and carcass condemnation in ruminants in the slaughter house at Nakuru east sub county from January to December 2023 MUREU SAMUEL SIMITIA Mount Kenya university	Physical
12:15 – 12:30	Role of women in food security and agricultural resilience: strategies for a changing world. A case of Nyamira County Some Josephine Chemutai Bomet University College	Physical
12:30 – 01:00	Presenters & Audience discussion	
01:00 – 02:00	Lunch Break	
DAY 2 ROOM C		
	Chair: Mr. Russel Ouma Rapporteur: Mr. Henry Odhiambo	
Sub-theme: One health in action: addressing the interconnectedness of animal, human, and environmental health.		
Time	Presentation Title, Presenter(s) & Affiliation	Mode

09:00 – 09:15	The effect of environmental sanitation on maternal and neonatal health outcomes in Kisii County, Kenya Lornah Moraa Nyambane Equip Africa Institute Kisii	Physical
09:15 – 09:30	A Review of morden skin lightening practices: lessons for contemporary female users in Nakuru Town, Kenya Dr. Ruth Nyambura, PhD Mount Kenya University, School of Social Sciences	Physical
09:30 – 09:45	Influence of health and safety practices on employee performance: a case study of golden tulip farms limited in Nyandarua County, Kenya. Ruthwinnie Munene, and Jacqueline Omuya, Mount Kenya university	Physical
09:45– 10:00	Environmental pollution by pharmaceutical waste handling and disposal among medical facilities in Nakuru, Kenya Orina Clare Mount Kenya University	Physical
10:00– 10:15	The effect of a deep learning model for early-stage diabetic retinopathy detection on patient visual acuity outcomes and healthcare resource utilization in Kisii county, Kenya Robert Obuba , Alfred Langat, Ronald Kikechi and Russell Ouma MOUNT KENYA UNIVERSITY	Physical
10:15– 10:30	Influence of safety awareness practices on employee performance: A case of golden tulip farms limited in Nyandarua county, Kenya. Jacqueline Omuya, and Ruthwinnie Munene Mount Kenya university	Physical
10:30– 11:00	Presenters & Audience discussion	
11:00– 11:45	TEA BREAK	
11:45 – 12:00	Causes of organ and organ condemnation in pork and beef in Mavuria ward in Mbeere South subcounty, Embu County Vivian Njeri, and John Muturi Mount Kenya University	Physical
12:00 – 12:15	Effect of Seed Polleting on Germination Percentage and Rate of Cleome gynandra L. Seeds.	Physical

	Jared Misonge Onyancha ^{1*} , Denis Mingate Menge ¹ , Elias Nelson Mandela ¹ , Sengera Ogeto Geoffrey ² , George Mulahi Andasi ³ ¹ Mount Kenya University, ² Kisii University, ³ Multimedia University	
12:15 – 12:30	Police brutality and human rights during the 2024 – 2025 protests in Kenya Frankline Mogendi Kisii University, Kisii, Kenya	Physical
12:30 – 01:00	Relapse in Drug and Substance Abuse among Reformed Drug Users at Karuri Level 4 Hospital in Kiambu County, Kenya Paul Mugambi, Shadrack Mbisi & Magdalene Kioko Mount Kenya University	Physical
01:00 – 02:00	Lunch Break	
Time	Activity	
2:00 – 2:30	Final Panel Reflections (Cross-cutting Insights)	
3:00 – 3:30	Certificate of participation Awards Ceremony	
3:30 – 4:00	Closing Remarks – DVC, Academics, Research & Innovation	

Mount Kenya University

Contact Us:

Mount Kenya University Interdisciplinary Conference
and Innovations Fair 2025

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