



BOMET UNIVERSITY COLLEGE
(A Constituent College of Moi University)

EVENT PROGRAMME

**THE 4TH BOMET UNIVERSITY COLLEGE ANNUAL INTERNATIONAL
CONFERENCE AND 2ND OPEN DAY & INNOVATION COMPETITION**

**THEME: RESEARCH, INNOVATION AND OUTREACH:
COMMERCIALIZATION FOR SUSTAINABILITY**

13TH AND 14TH MARCH, 2025

VENUE: BOMET UNIVERSITY COLLEGE

MODE: BLENDED

LINK : <https://zoom.us/meeting/register/xLX6NmcmRnCnEB9U9tGmng>



PREAMBLE

Bomet University College (BUC) was established as A Constituent College of Moi University through the Legal Notice No. 145 published in the Kenya Gazette Supplement No.114 of 27th July, 2017. The University College is expected not only to help the Government of Kenya increase access to University education but also to put greater emphasis on hands-on training for skills development and Academic Excellence. Bomet University College is now Kenya's sole University that has carved out a Niche as a "Green Economy for Sustainability" driver. As a result, the Academic Programs and the University's Motto, "Green University for Sustainability," both of which are housed at BUC, all reflect parts of the Green Concept for long-term development. Bomet University College is engaged in research in a wide range of fields, with a particular emphasis on the implementation of its Niche "Green Economy for Sustainability." The University has capacity in terms of staff and facilities. It has qualified staff employed across its four Schools: School of Business and Entrepreneurship, School of Arts and Social Sciences, School of Education and School of Pure and Applied Sciences. The University has a well- established Research, Innovation, Training and Extension Department that is charged with the responsibility of Coordinating Research, Consultancies, Innovations and Extension Services. Furthermore, besides the Research Policy that governs all activities relating to research, the University Management has a reporting structure that ensures smooth monitoring and evaluation and Quality Assurance during the conduct of research and innovation related activities to ensure compliance within the provided framework.



DAY ONE: THURSDAY, 13TH MARCH 2025

| TIME | ACTIVITY & DESCRIPTION | RESPONSIBILITY |
|---|--|--|
| 8.00- 9.00 AM | - Arrival and Registration of Guests and Participants -Ushering in Participants to various competition venues | Event Committee |
| EVENT ONE: INNOVATION COMPETITION Event Chair (Dr. Florence Anyonje) | | |
| 9.00-1.00 PM | - High School Category A (SR 106) | Chair of Session :Dr. Anyonje Rapporteur: Mr. Wycliff Ondiek |
| | - High School Category B (LT 104) | Chair of Session: Dr. David Melly Rapporteur: Mr. Enoch Kimutai |
| | - TVET Category (SR 004) | Chair of Session :Dr. Eliud Nalinya Rapporteur : Ms. Angela Sitonik |
| | - University Category (LT 101) | Chair of Session: Dr. Fredrick Wafula Rapporteur: Dr. Tecla Tuwei |

| 2.00 PM | THE OFFICIAL OPENING CEREMONY AND RECOGNITION OF BEST INNOVATORS VENUE: MULTIPURPOSE HALL | RESPONSIBILITY |
|---------|--|--|
| | - Grand March by St. Mary's Girls Secondary School Band | Ms. Winnie Mutai |
| | - Prayer by Dr. Mrajah and Joint Anthem by BUC Choir and St. Mary's Band | Head of Student Affairs Dr. Waweru Mureithi |
| | - Remarks by Chair of the Event Committee | Dr. Wambongo CS. Recha |



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| <ul style="list-style-type: none"> - Remarks by Head of Research, Innovation, Training and Extension - Head of Research, Innovation, Training and Extension to Invite the Deputy Principal, Academic and Students Affairs to give Remarks | Event Committee Chair |
| <ul style="list-style-type: none"> - Remarks by Deputy Principal, Academic and Students Affairs - Deputy Principal, Academic and Students Affairs to invite Deputy Principal, Administration and Finance to give Remarks - Deputy Principal, Academic and Students Affairs to welcome the Principal to give Remarks | Head of Research, Innovation, Training and Extension |
| <ul style="list-style-type: none"> - Remarks by the Principal, Bomet University College, Prof. Charles Mutai - Principal to introduce Guests, BUC Council and Chief Guest | Deputy Principal, Academic and Students Affairs |
| <ul style="list-style-type: none"> - Remarks by BUC Council Chairperson Prof. Simon Mitema | Principal |
| <ul style="list-style-type: none"> - Speech by the Governor, Bomet County Prof. Hillary Barchok and Other Elected Leaders in Bomet County | Council Chairperson |
| <ul style="list-style-type: none"> - Speech by the PS, State Department for University Education and Research, Ministry of Education Hon. Dr. Beatrice Muganda Inyangala | Council Chairperson |
| <ul style="list-style-type: none"> - Speech by the Cabinet Secretary, Ministry of Education Hon. Julius Ogamba EGH | Council Chairperson |
| <ul style="list-style-type: none"> - Recognition of Staff members dedicated to Research Related activities | Principal assisted by DPAF to invite Chair of Council to award certificates of Recognition to Staff members |
| <ul style="list-style-type: none"> - Recognition of best innovators in each of the categories | Principal assisted by DPASA to invite the chief guest to award the best innovators |
| <ul style="list-style-type: none"> -Vote of Thanks | Chair Person of Council Academic Committee |

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| | Closing Prayer for day one | Dr. Richard Rotich |
| DEPARTURE | | |

DAY TWO: FRIDAY, 14TH MARCH 2025

| TIME | ACTIVITY & DESCRIPTION Venue (Main Boardroom) | RESPONSIBILITY |
|--|--|--|
| 8.00- 9.00 AM | - Arrival and Registration of Guests and Participants -Ushering in Participants to the various Break Away rooms | Dr. David Melly Dr. Tecla Tuwei |
| <i>Conference Zoom Link for Virtual Participants</i> | | |
| PAPER PRESENTATIONS | | |
| 9.00-1.00 PM | - Breakout Room 1 (SBE) Venue SR 003 See Time Schedule in Appendix A | Chair of Session: Dr. Philip Bii Rapporteur: Ms. Brenda Makanda |
| 9.00-1.00 PM | - Breakout Room 2 (SASS) Venue SR 005 See Time Schedule in Appendix A | Chair of Session: Dr. Mohammed Mraja Rapporteur: Ms. Hilda Nafula |
| 9.00-1.00 PM | - Breakout Room 3 (SOE) Venue LT 101 See Time Schedule in Appendix A | Chair of Session: Dr. Tonny Okwach Rapporteur: Ms. Dinah Ayomah |
| 9.00-1.00 PM | - Breakout Room 4 (SPAS) Venue LT 105 See Time Schedule in Appendix A | Chair of Session: Prof. Fredrick Kengara Rapporteur: Ms. Gwendolyn Macharia |
| 1.00-2.00PM | LUNCH BREAK | |



| KEY NOTE ADDRESS AND OFFICIAL CLOSING CEREMONY IN MPH | | RESPONSIBILITY |
|---|---|--|
| 2.00 PM | Prayer by Dr. Clement Nkaabu | MC |
| 2.00-2.40 PM | -Keynote Address by Prof. Dickson Andala, Chief Executive Officer-National Research Fund-Kenya - Questions and Answers Session | Deputy Principal, Academic and Student Affairs |
| 2.40PM | - Remarks by the Principal | Deputy Principal, Academic and Student Affairs |
| | - Official Closing of the Event by the Chairperson of the Council | Principal |
| | Vote of Thanks | Chair, Academic Committee of Council |
| | Closing Prayer by Dr Teclah Tuwei and Anthem by BUC Choir | MC |



MESSAGE FROM THE CHAIRMAN OF COUNCIL



PROF. SIMON MITEMA

It gives me great pleasure to welcome you most cordially at the Official Opening of 4th Bomet University College International Conference, 2nd Open Day & Innovation Competition. This event touches a very important strategic area in academic excellence in Research, Innovation and Extension. Bomet University College (BUC), takes pride in its great strides since its inception as a Moi University Campus and later on gazettelement as a Constituent College of Moi University.

Our obligation to ensure that the University College attains Charter in the next five (5) months is depicted in the rigorous evaluations of the institution's academic programs, governance structure, and adherence to established standards of quality. This therefore, underscores our commitment to serving not just our immediate community but also the wider national and international landscape.

Our vision is rooted in the Philosophy of becoming a Premier Green University, fostering Research Excellence in Science, Technology, and Innovation for sustainability. Our goal is not only to impart knowledge but to instill in our Students, Staff, and Stakeholders a sense of Accountability, Commitment, Integrity, Patriotism, and Respect. Today, as we gather here to deliberate on the ways of navigating an increasingly complex world, the role of university research and innovation extends far beyond the confines of academia. Our endeavors must not only generate new knowledge but foster creation of Patentable Intellectual Properties (IP) that can prosper the National Agenda on Industrialization through IP Commercialization. This indeed resonates well with the carefully chosen theme of the event which is *“Research, Innovation and Outreach: Commercialization for Sustainability”*. Furthermore, the 4th Bomet University College Annual International Conference and 2nd Open Day & Innovation Competition echoes well with our Strategic Goals *“to provide a vibrant intellectual climate for quality scientific research and innovation,”* and *“to conduct community outreach and engagement for the advancement of humanity.”* On behalf of Bomet University fraternity I wish to express our sincere gratitude to Moi University for their invaluable mentorship and support, which has been instrumental in the growth and development of Bomet University College. Their provision of relevant and accredited Academic Programmes, Quality Assurance in Teaching, and Academic leadership have laid a solid foundation for our success. I extend heartfelt appreciation to the Ministry of Education, the State Department for Higher Education and Research, and the County Government of Bomet for their unwavering support and commitment. Your



presence here today underscores the collaborative effort required to nurture and expand the horizons of Bomet University College. As we embark on this intellectual journey together, let us celebrate the diversity of thought, culture, and perspectives that make international conference transformative. May this conference serve as a platform for Allogamy of ideas, radiating innovations that will shape the future of our respective fields. Thank you for being a part of this global scholarly community, and we look forward to the enlightening discussions and discoveries that await us after the conference.

Thank you.

MESSAGE FROM THE PRINCIPAL



PROF. CHARLES MUTAI

It is with great honour to welcome you the 4th Bomet University College Annual International Conference and 2nd Open Day & Innovation Competition. The University College is a Constituent College of Moi University, established by Legal Notice No. 145, gazette on 27th July, 2017.

Currently, the University College has a student population of over 4000 and a staff establishment of 158. Bomet University College admitted its first cohort of Government Sponsored Students Programme (GSSP) students on 31st August, 2016 as a Campus of Moi University. It is indeed, a great pleasure for me to welcome you join the Bomet University College fraternity in marking this day which is the culmination of many days of hard work and dedicated effort by all. Let me at the onset sincerely congratulate all the innovators, scholars and exhibitors for the great effort made in participating in this wonderful event which is a testimony that Bomet University College has come of age as a disseminator of cutting edge research output. It is my sincere hope that the knowledge gained here will go a long way in solving challenges facing our society.

We are all aware that global challenges amongst them the COVID-19 pandemic came along with many challenges to the education sector as a whole. This phenomena propelled matters of sustainability to centre stage. Academic programmes were adversely affected when many universities were closed abruptly as a containment measure. In this regard, I wish to applaud Bomet University College for ensuring continuity of learning during the turbulent period through blended mode. A salutary achievement is that this event is also being held on a blended platform. Indeed, going forward, opportunities abound that you can exploit in the arena of Innovation and Technology. I salute Bomet University College for joining the global conversation on Sustainability with the conference theme of *“Research, Innovation and Outreach: Commercialization for Sustainability”*. Indeed Bomet University College’s Niche *“Green Economy for Sustainable Development”* has positioned you at the heart of the Global needs. Further, I am glad to note that this International Conference promotes Kenya’s efforts to make an impact on with Agenda 2063 for Africa and the



United Nations Sustainable Development Goals (SDGs) 2030. Significantly, Kenya has committed on Nationally Determined Contributions (NDCs), the mechanism for the implementation of the 2021 COP26, the 26th United Nations Climate Change conference the landmark climate change mitigation strategy to limiting global warming by reducing greenhouse gas emissions.

Universities have a mandate to contribute to the National, Regional and Global social-economic development through Research and Development. As universities we are encouraged to form Research and Innovation consortia as a strategic way of enhancing their visibility and synergy. I urge academic experts, researchers and innovators in different fields to come up with innovative products that can greatly contribute national BETA Agenda. I once to bring to your attention that Bomet University College has instituted Business Incubation Committee that is currently at the stage of developing mentorship modules that will go a long way in mentoring and incubating best talents and innovations among researchers and innovators. This endeavour will support BUC endeavour in supporting research and innovation to commercialization.

With the implementation of the Competency-Based Curriculum system of Education now underway, universities are likely to be caught unawares and unprepared unless they move with speed to review their curricula and reorient them from knowledge-based to competency-based. The reorganization of academic schools, faculties and departments will become necessary, before students' who are already following the new curriculum join universities. I am delighted to inform you that BUC has rolled out an aggressive programme to re-tool our staff members to be ready to absorb the CBC class come 2029. BUC is sincerely indebted to the Government through the Ministry of Education, State Department of Higher Education and Research, for the support towards the development and growth we have realized so far as a University College.

The Leadership and entire community of Bomet Country is instrumental in the success of Bomet University College. We sincerely appreciate the support that the university College Management, Staff are Students are receiving from the Stakeholders in the county. We are committed to nurturing harmonious relationships to enables peaceful co-existence and prosperity for all in this County. The University contributes significantly to the steady growth of the economy of Bomet town and the County at large.

I wish you fruitful deliberations.

THANK YOU





PROF. GEORGE OTIENO ORWA

I am pleased to extend a warm welcome to you for our upcoming 4th BUC Annual International Conference, 2nd Open Day, & Innovation Competition. This event, themed "*Research, Innovation, and Outreach: Commercialization for Sustainability*," reflects BUC's Vision of becoming a Premier green University, dedicated to fostering research and excellence in Science, Technology, and Innovation for sustainable development.

The hosting of the event holds significant importance for Bomet University College as it aligns with our Core Mandate and demonstrates our commitment to our Vision, Mission, and Niche. This year's Conference, Open Day and Innovation Competition will serve as a vibrant platform for the exchange of ideas and celebration of innovations within Bomet University College (BUC), Technical and Vocational Education and Training institutions (TVETs), and Secondary Schools in Bomet County, showcasing the regions potential in Science, Technology and Innovation. It will also be an opportunity for Participants to engage with researchers and experts, explore cutting-edge research focused on green solutions for sustainable development, and participate in the Open Day to learn more about BUC's Schools, Departments, and Academic Programmes. This Event presents a valuable opportunity for students and members of faculty to expand their knowledge and perspectives on sustainability, network with peers and professionals from diverse fields, and contribute to the development of green solutions for a better future. I would like extend my heartfelt gratitude to the dedicated planning Committee for their tireless efforts in organizing this exceptional Event. Their commitment, planning, and collaborative spirit have been instrumental in shaping this Event into a platform for groundbreaking ideas and impactful discussions. Your participation will undoubtedly contribute to the success of this Event and reinforce Bomet University College's position as a Champion of Greening and Sustainability.



Thank you.



PROF. LOICE CHEMNGETICH MARU, PhD
*Professor of Entrepreneurship and Sustainability
 Management*

I am honored to welcome you to the 4th Bomet University Annual International Conference and 2nd Open Day & Innovation Competition, centered around the theme "*Research, Innovation, and Outreach: Commercialization for Sustainability.*" As the University College lives its Niche "*Green Economy for Sustainability,*" the Conference, Open Day and Innovation

Competition serve as a catalyst for stakeholders, Researchers and the Community to unit in fostering resilience within Academic, Learning, and Scientific Research, laying the groundwork for Sustainable Development.

Recent research underscores the critical role of support, community, leadership, and planning in both building and hindering capacity for green solutions in research, innovation and outreach. Focus on 'high-impact' greening incentives can address various barriers to capacity-building for research, innovation and outreach. While advancement in technology significant opportunities for capacity-building for green solutions in these areas, we must not overlook the importance of human interactions in the process. Thus, the imperative for research into institutional capacity in offering green solutions for sustainable growth becomes apparent.

In line with its Green Economy Niche, BUC incorporates sustainable practices into its infrastructure, utilizing natural resources like solar energy, natural lighting and rainwater harvested. The University College prioritizes green built designs (such as spacious corridors for natural ventilation/aeration), and has established critical facilities such as the Research Centre and Start-Up Village to expand space for Teaching and Research, all geared towards achieving sustainable operations.

Further, BUC actively contributes to environmental conservation by planting tree and growing towards restoration of forest cover aligned to national and global greening initiatives. This noble greening activity has led to successful engagement



with stakeholders.

Your participation in this conference underscores your commitment to *“Research, Innovation, and Outreach: Commercialization for Sustainability.”* It is our hope that by the conclusion of this Conference, we will have collectively advanced our understanding and practices in fostering resilience within academic (teaching and learning), scientific research, innovation and outreach for Sustainable Development.

Thank you.

CHIEF GUEST



HON. JULIUS MIGOS OGAMBA, EGH CABINET SECRETARY, MINISTRY OF EDUCATION

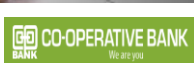
Hon. Julius Migos Ogamba, is an advocate of the High Court of Kenya, who was before his appointment serving as the Chairperson of the Board of Directors of Kenya Electricity Generating Company PLC (KenGen), and Senior Partner at Migos-Ogamba and Waudo

Advocate. Hon. Ogamba is a seasoned, visionary and accomplished legal practitioner of over 30 years' experience. He is a driven advocate with a proven track record of leading teams, forging long-lasting client relationships and influencing organizational productivity by ensuring compliance with legal and regulatory requirements. Hon. Ogamba holds a Bachelor of Laws degree from the University of Nairobi, a postgraduate Diploma in Law from the Kenya School of Law, and a Diploma in Law from the Institute of Advanced Legal Studies, University of London. His professional affiliations include memberships in the Law Society of Kenya and the Institute of Certified Secretaries of Kenya. He has undertaken training on board leadership, corporate governance for directors, board mastery programme, and political leadership development programme



HON. DR. BEATRICE MUGANDA INYANGALA PRINCIPAL SECRETARY HIGHER EDUCATION AND RESEARCH

Inyangala is currently the Principal Secretary, State Education and Research in the Ministry of Education. Dr. Inyangala is an experienced economist. She holds a B.Ed and M. Phil in Planning and Development from Moi University and a PhD from the University of Nairobi. Her PhD was acquired at age 33.



After acquiring the doctorate, Dr. Inyangala taught at Moi and Masinde Muliro universities. Dr Inyangala has served as the Director of Higher Education and Deputy Executive Director of Nairobi-based Partnership for African Social and Governance Research. Her areas of expertise are in public policy, gender inclusivity, quality assurance, teaching methodology, governance and fundraising. She has been on the forefront championing education reforms and demanding equality for women. She played a key role in developing vision 2030 (Education and Training strategy) and served as a regulator with the Commission of University Education.



PROF. HILLARY BARCHOK
GOVERNOR, BOMET COUNTY

Prof. Hillary Kipng'eno Barchok is the current Governor of Bomet County. He started his academic journey in Kapkilomwa Primary School in 1981 before proceeding to Kericho High School for secondary school education. He holds a Bachelor of Education

(Science) degree from Egerton University, Njoro and a Master of Education (Science Education) from the same institution. Prof. Barchok is also an alumnus of Moi University where he obtained a Doctor of Philosophy (PhD) degree in Curriculum Development. He has several years' experience in academia having worked as a lecturer in Chuka University where he taught and supervised students in different fields of education. He is a curriculum development specialist who before joining politics, was serving as the dean of Faculty of Education and Resource Development (FERD) between 2012 and 2017. Before joining Chuka University as a lecturer, Prof. Barchok taught Chemistry and Mathematics in various secondary schools as a Teachers Service Commission (TSC) teacher.





PROF. ANDALA BIO

Prof Dickson Andala is the Chief Executive Officer of the National Research Fund (NRF). He undertook a postdoctoral fellowship at Pennsylvania State University in 2011. Dr Andala is involved in policy development and capacity building in nanotechnology. He chaired the Committee on establishment of nanotechnology in Kenya and is a stakeholder in the 'Development of National Research Agenda: Role of Science, Research and Innovation in stimulating Economic growth (i.e. Vision 2030)' spearheaded by National Commission for Science Innovation and Technology. He is the Editor in Chief for the Kenya Chemical Society. He was also involved in setting up the Pan-African Centre of Excellence in Nanomedicine. He is involved in promotion of Chemical Safety and Security in Kenya and the drafting of the Global Chemists' Code of Ethics (GCCE) spearheaded by American Chemical Society in partnership with OPCW. He is currently supervising 8 PhD students and several masters students and has 14 publications in peer reviewed journals and two books. He has organised, given talks and attended several local and international conferences on nanotechnology and materials science. His research interests include the development of metal nanoparticles, metal and metal oxide nanofibers and nanotubes. He is currently a member of Kenya Academy of Sciences; American Chemical Society, Kenya Chemical Society, Royal Society of Chemistry, African Materials Research Society, ANSOLE and Materials Research Society and an IUPAC-Affiliate.



EVENT COMMITTEE

| | |
|---------------------------|-------------------------|
| 1. Dr. Wambongo Recha | Chairperson |
| 2. Dr. David Melly | Member |
| 3. Dr. Waweri Muriithi | Member |
| 4. Dr. Richard Rotich | Member |
| 5. Dr. Nelly Mutai | Member |
| 6. Dr. Florence Anyonje | Member |
| 7. Dr. Fredrick Wafula | Member |
| 8. Ms. Caroline Onyway | Member |
| 9. Ms. Winnie Chengetich | Member |
| 10. Mr. Jackson Cheruiyot | Member |
| 11. Mr. Elisha Kirui | Member |
| 12. Dr. Eliud Wafula | Member |
| 13. Mr. Mathew Ngeno | Member |
| 14. Mr. Enock Kimutai | Member |
| 15. Ms. Joyce Tirop | Member |
| 16. Ms. Josephine Agadah | Member |
| 17. Angela Sitonik | Member |
| 18. Dr. Johnmark Obura | Incharge of Secretariat |
| 19. Dr. Teclah Tuwei | Secretariat |
| 20. Mr. Benard Mutai | Secretariat |
| 21. Wycliff Ondieki | Secretariat |

CONFERENCE PAPER PRESENTATION SCHEDULE

BUSINESS

| S/NO | TIME | TITLE | AUTHOR |
|------|--------------|--|---|
| 1 | 9.00-9.15 am | Relationship between Attitude and Whistle blowing Intentions among Employees in Public Universities in Kenya | Dr. Teclah Tuwei- Bomet University College Dr. Meshack Katam- University of Kabianga |
| 2 | 9.15-9.30 am | Technological Risk and Financial Performance of Commercial Banks in Kenya | Dr. Teclah Tuwei- Bomet University College Dr. Meshack Katam- University of Kabianga |
| 3 | 9.30-9.45 am | Analysis of Social Media Applications in Learning Enhancement and Information Resource Utilization: A | Chepngetich Winnie Bomet University College, |



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|-------------------------------|-----------------|--|--|
| | | Case Study of Bomet University College | |
| 4 | 9.45-10.00 am | Harnessing Mobile Technology for Sustainable Funding of Green Energy Solutions: A Pathway to Financial Inclusion and Environmental Impact | Zachary Bosire Omariba & Sarah Kemunto Mogaka Egerton University |
| 5 | 10.00-10.15 am | The Role of Control Activities in achieving Internal Control and Financial Accountability of Government Parastatals. A Case of Kenya Medical Supplies Authority. | Kirui Kimutai Victor & Johnmark Obura. Bomet University College |
| 6 | 10.15-10.30 am | The role of individual responses as a stress response on Employee Performance, Ministry of Finance Nairobi Kenya. | Biwott, Geoffrey Bomet University College |
| 10.30-11.00 AM: PANEL SESSION | | | |
| 7 | 11.00-11.15 am | University-industry linkages for sustainable development. | Beatrice Cheptoo Korir University of Kabianga, Kenya |
| 8 | 11.15-11.30 am | The Role of Flexible Work Schedules and Organizational Culture in Enhancing Employee Performance In Non-Governmental Organizations In Kenya | Emily Omolo Otunga Maseno University |
| 9 | 11.30-11.45 am | Moderating Effect of Quality Management System on the Relationship between Inbound Logistic Strategies and Sustainable Procurement Performance among Kenya Tea Development Agency Factories in Kenya | Joyce Cheruto Rotich, Dr. Pauline Keitany, Dr. Penina Langat University of Kabianga |
| 10 | 11.45-12.00 pm | Translating Research into Sustainable Solutions: The Role of Innovation and Outreach in Commercialization | Dr. Collins Otieno ODOYO Masinde Muliro University of Science and Technology |
| 11 | 12.00- 12.15 pm | Innovation of E-recruitment and it's influence on Employee Performance in Public Service Commission, Kenya | Lily Kitur Moi University |



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| 12 | 12.15-12.30 pm | From Lab to Market: Driving Sustainability through Research Commercialization | Dr. Tecla Sum, and Dr. Collins ODOYO Masinde Muliro University of Science and Technology |
| 12.30-1.00 pm | | PANEL SESSION | |
| 1.00-2.00 PM | | LUNCH BREAK | |
| 2.00 PM | | KEY NOTE ADDRESS IN MPH | |

ARTS AND SOCIAL SCIENCES

| S/NO | TIME | TITLE | AUTHOR |
|----------------|----------------|---|---|
| 1 | 9.00-9.15 am | Spatial variation in technologies for strategic minerals and climate change mitigation: A review | Charles W. Recha Bomet University College |
| 2 | 9.15-9.30 am | Constraints and Missed Opportunities for Rural Women Participation in Sustainable Food Security in Kenya | Dr. Anthony Waiganjo & Dr Lucy Ngundo Bomet University College |
| 3 | 9.30-9.45 am | Assessment of Wind Energy Potential in Nyandarua County, Kenya: A case study of Kinangop Wind Park: | Muriithi D.I. Murang'a University of Technology |
| 4 | 9.45-10.00 am | Perceived Influence of User-Household Characteristics and Governance Factors on Environmental Sustainability of Community-Managed Borehole Water Kiosks in Kisumu County, Kenya | Jacktone Akelo, PhD |
| 5 | 10.00-10.15 am | Climate Change and Immovable Cultural Heritage in Kenya: Impact and Response Strategies | Angelah Chemeli, Joseph M. Njoroge & Peace B. Agufana |
| 6 | 10.15-10.30 am | Enhancing Energy Reliability at Bomet University: A Sustainable Approach to Mitigating Power Outages | Gibyegon Rotich Hillary, Dr. Geoffrey Biwott & Dr. Clement Nkaabu Bomet University College |
| 10.30-11.00 am | | PANEL DISCUSSION | |



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| 7 | 11.00-11.15 am | Is climate change affecting sustainable maize production? Insights from Kenya | Vincent Ngeno Moi University |
| 8 | 11.15-11.30 am | Assess Gender Capacity Building Initiatives towards Kenya's External Trade Policy Development Along Kenya Busia Border | ¹ Kiptum, J.J., ¹ Rev. Dr. Odhiambo ² , E.O.S. & Dr. Ungaya, C.G ¹ ¹ Kisii University, ² Bomet University College, |
| 9 | 11.30-11.45 am | Impact of Electronic Cargo Tracking Systems on Cargo Security: A Case of the Inland Container Depot at Embakasi, Nairobi, Kenya | Roy Ochieng' Otieno ¹ Rev. Dr. Elijah O.S. Odhiambo ² ¹ Mount Kenya University, ² Bomet University College, Kenya |
| 10 | 11.45-12.00 am | Tafsiri kwa Udumishaji wa Utamaduni | Hellen Ngetich, Mhadhiri wa muda maalumu, Chuo Kikuu cha Bomet na Mzamifu, Chuo Kikuu cha Kabianga. |
| 11 | 12.00-12.15 pm | Athari za Teknolojia ya Akili Mnemba (AI) Katika Ufunzaji Na Ujifunzaji Wa Lugha Ya Kiswahili. | Dkt. Anyonje Florence Bomet University College |
| 12.15-12.45 pm | | PANEL DISCUSSION | |
| 1.00-2.00 pm | | LUNCH BREAK | |
| 2.00 PM | | KEY NOTE ADDRESS IN MPH | |

PURE AND APPLIED SCIENCES

| S/NO | TIME | TITLE | AUTHOR |
|------|--------------|--|--|
| 1 | 9.00-9.15 am | Controlled Fermentation of African Indigenous Vegetables to Improve Functionality, Lower Postharvest Losses, and Increase Product Safety | Eliud N. Wafula, Paul W. Muyoma, Melanie Huch, Frommherz Lara and Bernhard Trierweiler |
| 2 | 9.15-9.30 am | Characterization of Total Petroleum Hydrocarbon (TPH) in Selected Oil-contaminated soils in Greater Port Harcourt Area, Nigeria | WANJALA, M.P.; ODOKUMA, L.; ETELA I |



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| 3 | 9.30-9.45 am | A survey of on-farm uses of rice (<i>Oryza sativa</i> L.) by-products in Mwea rice irrigation scheme, Kenya | Gideon Kalii Muli 1* , Alex Machio Kange 2 and John Byalebeka 1 1 Faculty of Agriculture Uganda Martyrs University, Uganda 2 Bomet University College |
| 4 | 9.45-10.00 am | Crude petroleum-oil biodegradation efficiency of <i>Bacillus subtilis</i> and <i>Pseudomonas aeruginosa</i> strains isolated from a petroleum-oil contaminated soil from Ngara East at Nairobi, Kenya | Godfrey O. Mauti *1 , David Keno Kowanga 2 1 Bomet University College, Bomet, Kenya; 2 Maseno University |
| 5 | 10.00-10.15 am | Correlation between C and F Electrons in Heavy Fermion Superconductors | Horace Kibe & Everlyne K Amadi (Bomet University College) |
| 6 | 10.15-10.30 am | Emergence of a reversed backward bifurcation, reversed hysteresis effect, and backward bifurcation phenomenon in a COVID-19 mathematical model | Isaac Mwangi Wangari Bomet University College, |
| 10.30-11.00 am | | PANEL DISCUSSION | |
| 7 | 11.00-11.15 am | Microencapsulation of <i>Lactobacillus plantarum</i> subsp. <i>plantarum</i> CICC 6240 for oral delivery of Bovine Serum Albumin | Sabella Jelimo Kiprono ¹ , Muhammad Wajid Ullah ⁴ , Zhijun Shi ² , Guang Yang ^{2,3*} ¹ Masinde Muliro University of Science and Technology, ^{2,3} Huazhong University of Science and Technology, China ⁴ Nanjing forest University, College of Light Industry and Food Engineering |
| 8 | 11.15-11.30 am | Statistical Modeling for Sustainable Economic Growth: Bayesian Approaches in Green Investment Decisions | Dr. Amos Kipkorir Langat, Ph.D. * Dr. David Chepkonga, Ph.D. PAUSTI |



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| 9 | 11.30-11.45 am | Title: Phytochemicals in <i>Mondia whitei</i> Confer Fungistatic Activity Against <i>Alternaria solani</i> and <i>Phytophthora infestans</i> and Improves Tomato (<i>Solanum lycopersicum</i>) Performance | Chitui Maurice Email: MMUST |
| 10 | 11.45-12.00 pm | Numerical Analysis of an Inclined Conductor on Magneto Hydrodynamic Convective Flow within a heated wave chamber | Dr. Simeon Maritim and Juma Odhiambo Bomet University College |
| 12.00-12.30 pm | | PANEL DISCUSSION | |
| 1.00-2.00 PM | | LUNCH BREAK | |
| 2.00 PM | | KEY NOTE ADDRESS IN MPH | |

EDUCATION

| S/NO | TIME | TITLE | AUTHOR |
|------|----------------|---|--|
| 1 | 9.00-9.15 am | Influence of Principals' Classroom Supervision Frequency on Teacher Instructional Practices in Public Secondary Schools in Nakuru County, Kenya | Richard Maite Sigilai (PhD) Bomet University College |
| 2 | 9.15-9.30 am | Psychological Influence of Information Technology in the Family: A Review | Dr. Mettoh Jepchirchir Hellen Bomet University College |
| 3 | 9.30-9.45 am | Assessment of Wind Energy Potential in Nyandarua County, Kenya: A case study of Kinangop Wind Park: | Muriithi D.I. Murang'a University of Technology |
| 4 | 9.45-10.00 am | Adverse Childhood Experiences (ACEs) Link to the Mental Health of Young Women | Lucy Wangechi Ngundo & Anthony Gathambiri Waiganjo Bomet University College |
| 5 | 10.00-10.15 am | Adolescence Developmental Milestone in African Context – A Review Paper | Odira, Naomi & Muchemi, Peter Bomet University College |



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| 6 | 10.15-10.30 am | The Energy Drinks Phenomenon: Patterns of Consumption, Risks and Intervention Strategies amidst Rising Substance Abuse in Kenyan Universities. | Waweru Muriithi Bomet University College |
| 10.30-11.00 am | | PANEL DISCUSSION | |
| 7 | 11.00-11.15 am | Mental Health Disorders Associated with Tiktok Addiction Among University Students: A Case of University of Embu, Kenya | Dr. Lusire Lumumba, PhD The University of Embu, Kenya |
| 8 | 11.15-11.30 am | Effect Assessment of Re-Tooling on Guided Writing Skills in English in Public Junior Schools in Bomet Central Sub-County, Kenya. | Kosgey Kiprono Robert Bomet University College |
| 9 | 11.30-11.45 am | An Assessment of Guidance and Counselling Programmes Equipment Available in Secondary Schools In Bureti Sub-County | Kesui, Hellen C. University of Kabianga Muchemi, Peter Muriithi, Waweru Bomet University College |
| 10 | 11.45-12.00 pm | Relationship Between Physical Child Abuse and Academic Performance among Public Primary School Pupils in Kiambiu Slum, Nairobi | Charles Nyaranga & Elizabeth Kaiyu Musya Africa Nazarene University |
| 11 | 12.00-12.15 am | Public primary school teachers' awareness of the digital content to be integrated in the curriculum; the case of Homa Bay County, Kenya | Ouma Omito Bomet University College |
| | 12.15-12.30 | Teacher Perception of Curriculum Implementation at Junior School Level, Bungoma County, Kenya | Pius Chilia Bomet University College |
| 12.15-12.45 pm | | PANEL DISCUSSION | |
| 1.00-2.00 pm | | LUNCH BREAK | |
| 2.00 pm | | KEY NOTE ADDRESS IN MPH | |

