



MACHAKOS UNIVERSITY

3RD ANNUAL INTERNATIONAL CONFERENCE

DATES:

22ND - 25TH JUNE 2021

CONFERENCE PROGRAMME

THEME:

*Responding to Emerging Global Challenges
through Research, Innovation and Technology
for Sustainable Development*

Supported by:



Soaring Heights in Transforming Industry and Economy

ISO 9001:2015 CERTIFIED

MACHAKOS UNIVERSITY PRESS



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3RD ANNUAL INTERNATIONAL CONFERENCE PROGRAMME

DATE

22nd ~25th JUNE 2021

VENUE

MACHAKOS UNIVERSITY VIRTUAL PLATFORM

THEME

***Responding to Emerging Global Challenges through Research,
Innovation and Technology for Sustainable Development.***

FUNDAMENTAL STATEMENTS

Our Vision

A Preferred University of Excellence in Scholarship and Service Delivery.

Our Mission

Provide Scholarly Education through Training, Research and Innovation for Industrial and Socio-economic Transformation of our Communities.

Our Identity

Machakos University is an Academic Institution Committed in Transmitting Knowledge, Skills and Attitude through Science, Technology and Innovation for the Benefit of Humanity.

Our Philosophy

The Philosophy of Machakos University is to Provide Transformative Leadership in Teaching, Training, Research, Innovation, Industrial and Technology Transfer for Wealth Creation.

Core Values

Integrity
Accountability
Professionalism
Inclusivity
Creativity
Teamwork
Equity

CONFERENCE COMMITTEE

- 1) Prof. Peter N. Mwita - Chairman
- 2) Prof. Mugendi K. M'Rithaa - Alternate Chair
- 3) Dr. Wycliffe Amukowa - Secretary
- 4) Prof. Fredrick Ogola - Alternate Secretary
- 5) Prof. Geoffrey Maroko
- 6) Prof. Henry Embeywa
- 7) Prof. Jones Agwata
- 8) Prof. Zachary Getenga
- 9) Dr. Eng. Charles Mwaniki
- 10) Dr. Richard Kimiti
- 11) Dr. Christabel Muhonja
- 12) Dr. Julius Nzeve
- 13) Dr. Cornelius Okello
- 14) Dr. Marther Ngigi
- 15) Dr. Larry Ndivo
- 16) Dr. Patricia Muendo
- 17) Dr. Mark Kimathi
- 18) Dr. Elijah Muange
- 19) Dr. Tindih Heshborne
- 20) Dr. Stanley Makindi
- 21) Dr. Peter Kibet Koech
- 22) Mr. Watson Kanuku
- 23) Mr. Daniel Mulinge
- 24) Ms. Consolate Awuor
- 25) Ms. Nancy Ingoshe
- 26) Ms. Elizabeth Mbatha
- 27) Ms. Linet Messo

MESSAGE FROM THE VICE-CHANCELLOR



Machakos University has taken a frontline position in the dissemination of knowledge and technology transfer towards the achievement of sustainable development and the socio-economic transformation of our societies. This is the underlying goal of our series of Annual International Conferences. Against this backdrop, it is my pleasure to, once again, welcome you to another Machakos University Conference which is the 3rd Annual International Conference, having previously welcomed you to the 1st and 2nd conferences, respectively.

This 3rd Annual International Conference, under the theme: “**Responding to Emerging Global Challenges through Research, Innovation and Technology for Sustainable Development**”; comes at a time when the world is still reflecting on how to ensure the set socio-political, economic and technological development goals can be sustained in the wake of Covid-19 Pandemic.

The Conference will focus on research, innovation and technology-based solutions in responding to emerging challenges relating to pandemics (such as COVID-19). It will take a closer look on strategies for sustainable agriculture and food security; economic survival; inclusion and access to education, climate change and natural resources management; social and technological disruptions as well as enhancing Post COVID-19 recovery measures in health, hospitality and quality of life.

It is my belief that the researchers and scholars participating from various Universities, Industries and other high-end organizations will use this event as an opportune time to share ideas and experiences to provide solutions to existing global challenges, that will be of benefit not only to Kenya, but also to the entire globe in general so as to come up with development goals that are sustainable all through.

Finally, I wish to thank our Chief Guests, Keynote Speakers, Guest Speakers and all participants for finding time to be with us during this important occasion. I welcome you all to interact freely not only amongst yourselves, but also with the Machakos University fraternity and build collaborations that will outlive the Conference period.

Thank you and God bless you.

Prof. Lucy W. Irungu, PhD
VICE-CHANCELLOR & PROFESSOR OF ENTOMOLOGY

MESSAGE FROM THE CHAIRMAN, CONFERENCE COMMITTEE



The quest for sustainable development is mired with challenges with the latest being the COVID-19 pandemic. Amidst these challenges, Universities play a key role in unravelling new knowledge, innovation, inventions and technologies that when transferred to our communities become a panacea to improved livelihoods. It is with this in focus that our 3rd Annual International Conference was conceived to drive the theme: **“Responding to Emerging Global Challenges through Research, Innovation and Technology for Sustainable Development”**. To achieve our goals, the Conference theme was sliced into the following sub-themes:

1. Strategies for Promoting Sustainable Agriculture and Food Security During a Pandemic;
2. Economic Survival Through Responsive Entrepreneurship in the Era of Global Disruption;
3. Catalyzing Change for Inclusion and Access to Education During Pandemics;
4. Implications of Climate Change on Sustainable Environmental & Natural Resources Management;
5. Mitigating the Impact of Social and Technological Disruptions in a Global Pandemic;
6. Enhancing Post COVID-19 Recovery Measures in Health, Hospitality and Quality of Life for Sustainable Livelihoods through Science and Technology.

In strict compliance with the COVID-19 protocols, this Conference is taking place virtually and has attracted a wide range of participants from across the globe. Please do accept my heartfelt appreciations for finding time to research, write papers and presentations around our Conference theme. Your participation is indeed a confirmation of your commitment towards making the world a better place to live.

As it has become our tradition, one of the key post-conference activities will be to have papers presented during this Conference, peer reviewed and published in our Machakos University Journal of Science and Technology, besides being published in the Book of Conference Proceedings. I urge you to observe the timelines that will be provided by editor-in-chief.

Lastly, I thank all our sponsors: Konza Technopolis Development Authority, National Bank of Kenya and KCB Bank for their generous support. I also thank fellow Conference Committee members for working around the clock during the preparatory stage. Together we have made this 3rd Annual International Conference a success.

I wish you all a happy and exciting conference.

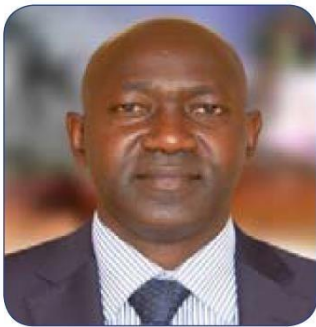
Thank you.

Prof. Peter N. Mwita, PhD
DEPUTY VICE-CHANCELLOR (RESAECHE, INNOVATION AND LINKAGES) &
CHAIRMAN, CONFERENCE COMMITTEE

MEMBERS OF UNIVERSITY MANAGEMENT BOARD



Prof. Lucy Irungu
Vice-Chancellor



Prof. Peter N. Mwita
Deputy Vice Chancellor
(Research, Innovation & Linkages)



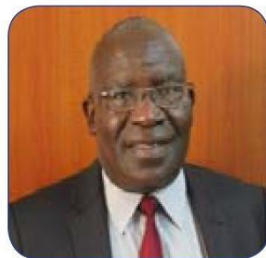
Prof. Joyce Agalo
Deputy Vice-Chancellor
(Academic & Students' Affairs)



Prof. Douglas Shitanda
Deputy Vice-Chancellor
(Administration, Finance & Planning)



Dr. Wycliffe Amukowa
Registrar
(Research, Innovation
& Linkages)



Prof. Ezara Ondari-Okemwa
Registrar
(Academic & Students' Affairs)



Dr. Susan Nzioki
Registrar
(Administration & Planning)



Ms. Aileen Nyatuga
Chief,
Finance Officer

CHIEF GUEST~OFFICIAL OPENING



AMB. SIMON NABUKWESI

Amb. Simon Nabukwesi is the Principal Secretary, State Department of University Education and Research. He holds a B.Ed, M. Ed. in Education Planning and Management and MA in International Project Management. He is a PhD Candidate in International Project Management. In addition to this, he has a Diploma Level training in Institutional Management from Hiroshima University, Japan and a Pre-university Training from the National Youth Service (1986).

With this training, Simon has had a successful career as a High School Teacher, as a Deputy Principal and Principal in a span of twenty years (1989-2009). He has also served as Kenya's High Commissioner to Canada and Ambassador Plenipotentiary and Extra-ordinary to Cuba. His eleven (11) years of service as a diplomat included being the Director of Foreign Service Institute which he worked to transform into the Foreign Service Academy for training Junior Diplomats, Middle level Diplomats, Senior Diplomats and eight (8) Cohorts of Ambassadors whom he took through induction courses. The Foreign Service Academy served as a soft power tool for the government by training diplomats and ambassadors from the Eastern, Central and Southern Africa in addition to coordination of scholarships from friendly nations. This made members of the Association of Directors of Foreign Service Academies from the IGAD Region to vote Nabukwesi to be their Chairperson, from 2016 to 2019 when he left the Academy to head Europe and Commonwealth Directorate in the Ministry of Foreign Affairs.

Amb. Nabukwesi was appointed to the position of Principal Secretary, State Department of University Education and Research with effect from 28th February, 2020. He is optimistic about working with all stakeholders to improve University Education and Research.

CHIEF GUEST~OFFICIAL CLOSING



PROF. WALTER O. OYAWA

Prof. Walter Oyawa is a Professor of Civil Engineering, and currently the Director General, National Commission for Science, Technology and Innovation (NACOSTI). He is a holder of a PhD in Civil Engineering, and a holder of Executive MBA. He is a Registered Professional Engineer, a Lead EIA Expert with NEMA and a reviewer of several international journals.

In addition to his current position as Director General of NACOSTI, Prof. Oyawa has served in various senior leadership/management positions including having been the Principal/CEO of Multimedia University College, Deputy Commission Secretary at the Commission for University Education (CUE), pioneering Ag. Principal of the College of Engineering & Technology at Jomo Kenyatta University of Agriculture and Technology (JKUAT), Director of a Research Centre-SMARTEC at JKUAT, Chairman of the Department of Civil Engineering at JKUAT, Board member of several boards, among others. He is endowed with vast experience in research/scholarly work, as evidenced by extensive publications in peer reviewed journals, several awards and research grants, keynote lectures and conference papers, and supervision of numerous postgraduate students. His research interest is in the area of sustainable construction materials and technologies.

KEYNOTE SPEAKERS



AMB. DR. KIPYEGO CHELUGET

Assistant Secretary General, Common Market for Eastern and Southern Africa (COMESA)

Ambassador Dr Kipyego Cheluget was appointed COMESA Assistant Secretary General (Programmes) in November 2012. He has a wide experience in regional organisations, having served as IGAD' Chief Conflict Prevention, Management and Resolution officer in the late 90s before joining the East African Community as Deputy Secretary-General for Projects and Programmes from 2001-2007. Dr Cheluget was formerly Kenya's High Commissioner to Zambia and Malawi and Permanent Representative to COMESA. He is a long serving diplomat. He also served in various capacities at Kenya's Ministry of Foreign Affairs, including as Director, Foreign Service Institute, Asia and Australasia, Middle East, Research and as Deputy Chief of Protocol. He holds a PhD in Political Science and formerly lectured at Moi University. He will speak on: **"The Role of Science, Technology and Innovation in Sustainable Development of Africa"**



PROF. GRACE NJOROGE

(Deputy Chief Executive Officer- Accreditation, Commission for University Education)

Professor Grace Njoroge is a Professor of Applied Plant Sciences and currently Deputy Chief Executive, Accreditation at the Commission for University Education. She has over 15 years of senior organizational leadership, providing direction in organizational policy development and implementation. Her vast research work spans from health and food security, nutrition empowerment to utilization of natural resources for communities. Her qualifications include a Ph.D. in Applied Botany from Jomo Kenyatta University of Science and Technology, an MSC from Kenyatta University and Bachelors of Education Degree (Botany& Zoology) from Kenyatta University. She will speak on: **"Responding to Global Educational Challenges and the Quest for Access to Higher Education by Leveraging on Technology in On-line and Blended Learning."**



PROF. GERALD WANGENGE OUMA

Senior Director: Institutional Planning, Monitoring and Evaluation-University of Pretoria

Gerald Wangenge Ouma is a Professor of Higher Education and Senior Director: Institutional Planning, Monitoring and Evaluation at the University of Pretoria (UP). Prior to joining UP, he was an Associate Professor of Higher Education at the University of the Western Cape. Prof. Ouma has an extensive publications record, has participated in many higher education initiatives in Africa and internationally, and has served on various ministerial task teams and steering committees on various aspects of financing post-school education in South Africa. He holds a PhD in Higher Education Studies from the University of Cape Town, a Master of Education from Kenyatta University and a Bachelor of Education (First Class Honours) from Kenyatta University. Prof. Ouma will speak on: **"Towards Post-corona Futures: COVID-19, Rapid Digital Transformation and University Responsiveness."**

GUEST SPEAKERS



Prof. Bitange Ndemo: Is an ICT Champion, academician and newspaper columnist. He currently serves as an associate Professor of Entrepreneurship at the University of Nairobi's Business School. He teaches and researches entrepreneurship and research methods, with most of his research work being focused on ICT within small and medium enterprises, and their influence on economic development in Kenya. He is the Guest Speaker for Sub-theme: **Economic Survival Through Responsive Entrepreneurship in the Era of Global Disruption.**



Prof. Samson Gunga

Prof. Gunga is a professor of Education and currently the Dean, School of Education, University of Nairobi. Presently, he is a Professor of Philosophy of Education at the University of Nairobi having specialized in the Philosophy of Mathematics Education at Master and Doctor of Philosophy levels through scholarships from Kenyatta University, University of Nairobi and the German Academic Exchange Programme (DAAD). is the Guest Speaker for Sub-theme: **Catalyzing Change for Inclusion and Access to Education During Pandemics**



Prof. Richie Moalosi

Richie Moalosi is a Professor in the Department of Industrial Design and Technology at the University of Botswana. He has over 20 years of teaching experience at the university level. He works with small micro-enterprises, community-based organisations and creative communities to uplift their brands and product or service innovation capabilities as these are considered to be the next engine of economic growth in Botswana and Africa. He is the Guest Speaker for Sub-theme: **Mitigating the Impact of Social Disruptions in a Global Pandemic.**



Dr. Oliver K. Kirui

Dr. Oliver Kirui is a Senior Researcher and a Post Doc. fellow at the Centre for Development Research (ZEF) in University of Bonn, Germany. He holds a PhD in Development Economics. Oliver is currently carrying out research that would contribute to sustainable agricultural growth and food and nutrition security in developing and emerging economies. He is the Guest Speaker for Sub-theme: **Strategies for Promoting Sustainable Agriculture and Food Security during a Pandemic.**



Dr. Pacifica Ogola

Dr. Pacifica Ogola, is the Ag. Secretary, Climate Change Directorate, Ministry of Environment and Forestry, Republic of Kenya. She is also a PhD Fellow at the UNU Geothermal Training Programme and the University of Iceland She is the Guest Speaker for Sub-theme: **Implications of Climate Change on Sustainable Environmental & Natural Resources Management**



Dr. Esther Munyiri

Dr. Munyiri is the Director, Global Tourism Resilience and Crisis Management (GTRCM) at Kenyatta University. She holds First Class Honours in Tourism Management as well as Masters and PhD in Tourism Management. She is the Guest Speaker for Sub-theme: **Enhancing Post-Covid-19 Recovery Measures in Health, Hospitality and Quality of Life for Sustainable Livelihoods through Science and Technology.**

OFFICIAL OPENING AND KEYNOTE ADDRESSES

TIME	DAY 1: TUESDAY 22 ND JUNE 2021	RESPONSIBILITY
8:00-9.00	Log in and Registration	Secretariat and Committee Members
9.00-10.30	OFFICIAL OPENING CEREMONY	
	Opening Prayer	Dr. Julius Nzeve
	Welcoming Remarks by Prof. Peter Mwita, Deputy Vice-Chancellor (Research, Innovation and Linkages, Machakos University) who invites the Vice-Chancellor Machakos University.	Dr. Wycliffe Amukowa/ Prof. Jones Agwata
	Opening Address by Prof. Lucy Irungu, Vice-Chancellor, Machakos University. The Vice-Chancellor invites Chief Executive Officer, Konza Technopolis Development Authority, Eng. John Tanui to address the Conference	Prof. Peter Mwita, Deputy Vice Chancellor (RIL)
	The Vice-Chancellor invites Chairman Machakos University Council, to address the Conference	Prof. Lucy Irungu, Vice-Chancellor
	The Vice-Chancellor invites the Principal Secretary to address and officially 3 rd Machakos University Annual Conference.	Prof. Lucy Irungu, Vice-Chancellor
	SPEECH AND OFFICIAL OPENING OF THE CONFERENCE BY THE CHIEF GUEST, AMB. SIMON NABUKWESI	Prof. Lucy Irungu, Vice-Chancellor
10.30-11.00	PHOTO SESSION & HEALTH BREAK	Dan Mulinge/ Secretariat
11.00-11.30	“The Role of Science, Technology and Innovation in Sustainable Development of Africa” Keynote Address by AMB. DR. KIPYEGO CHELUGET <i>(Assistant Secretary General, Common Market for Eastern and Southern Africa - COMESA)</i>	Prof. Douglas Shitanda Deputy Vice-Chancellor- Administration, Planning and Finance, Machakos University
11.30-12.00	“Responding to Global Educational Challenges and the Quest for Access to Higher Education by Leveraging on Technology in On-line and Blended Learning.” Keynote Address by PROF. GRACE NJOROGE <i>(Deputy Chief Executive Officer- Accreditation, Commission for University Education)</i>	Prof. Joyce Agalo, Deputy Vice-Chancellor-Academics and Student Affairs, , Machakos University
12.00-12.30	“Towards Post-corona Futures: COVID-19, Rapid Digital Transformation and University Responsiveness” Keynote Address by PROF. GERALD WANGENGE OUMA	Prof. Peter Mwita, Deputy Vice-Chancellor (Research, Innovation and Linkages, Machakos University)
12.30-1.00	Plenary (Key Note Speakers)	Prof. Mugendi M'Rithaa/ Prof. Fredrick Ogola
1.00-2.00	LUNCH BREAK	

SUB-THEME 1: STRATEGIES FOR PROMOTING SUSTAINABLE AGRICULTURE AND FOOD SECURITY DURING A PANDEMIC

DAY 2: WEDNESDAY, 23 RD JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Dr. Elijah Muange		SESSION CHAIR: Dr. Marther Ngigi
GUEST SPEAKER: Dr. Oliver Kirui, Senior Researcher Center for Development Research (ZEF), University of Bonn, Germany		RESPONSIBILITY
TIME	PRESENTER	Session Chair
8:00- 8.30	Log in and Registration	Session Chair
8.30-9.20	Guest Speaker Address and Plenary	Dr. Marther Ngigi
9.20-9.40	Philip Sitienei, Paul Kimurto, Isabel Wagara & Meshack Obonyo: <i>Occurrence of Aflatoxins in Groundnuts (Arachis hypogaea L.): A Case Study of Four Counties in Kenya.</i>	
9.40-10.00	Tomno Rose, Nzeve Julius, Mailu Stephen, Shitanda Douglas and Waswa Fuchaka: <i>Heavy Metal Contamination in Water, Soil and Vegetables in Urban Streams in Machakos Municipality, Kenya</i>	
10.00-10.20	Angelica M. Kimwele, Sophie A. Ochola, Mary N. Mugambi: <i>Implementation and Strategies for Nutritional Improvement of Home-Grown School Feeding Programme in Makueni County, Kenya.</i>	
10.20-10.40	Elijah N. Muange & Marther W. Ngigi: <i>Mixed Farming and its Impact on Food Insecurity and Dietary Quality in the Context of Varying Aridity in Rural Areas of Kenya.</i>	
10.40-11.00	Asige Mmaiti Lawrence & Obushe Dennis Omuse: <i>Effect of Land Utilization Patterns on Food Security in Narok East Sub-County, Narok County, Kenya.</i>	
11.00-11.30	HEALTH BREAK	
11.30-11.50	John Kennedy Musyoka, Hezron Nyarindo Isaboke & Samuel Njiri Ndirangu: <i>Analysis of the Factors Affecting Farm-Level Output of Mangoes among Small-Scale Farmers in Machakos County, Kenya</i>	Dr. Alice Kosgei
11.50-12.10	John Kennedy Musyoka, Hezron Nyarindo Isaboke & Samuel Njiri Ndirangu: <i>Determinants of quantity of Mango supply among small-scale farmers in Machakos County, Kenya.</i>	
12.10-12.30	Judy Wachira, Simon Nguluu and Josphert N. Kimatu: <i>Comparative Growth and Productivity Evaluation of Phoenix Oyster Mushroom (Pleurotus Spp.) on Residual Agro-Waste Substrates in Semi-Arid Lands of Kenya.</i>	

12.30-12.50	Martin Musembi Kasina, Marther Ngigi, Elijah Muange, Alice Kosgei, Julius K. Nzeve, Kioko Hellen Ndinda: <i>Modeling Production of Oyster Mushroom (Pleurotus ostreatus) for Food and Nutritional Security in Machakos County, Kenya.</i>	
12.50-1.10	Patrick Andati, Eucabeth Majiwa, Marther Ngigi, Robert Mbeche, Josiah Ateka: <i>Determinants of Adoption of Climate-Smart Agricultural Technologies among Smallholder Potato Farmers in Kenya.</i>	
1.10-2.00	LUNCH BREAK	
<p>DAY 3: THURSDAY, 24TH JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM MODERATOR: Dr. Julius Nzeve SESSION CHAIR: Dr. Elijah Muange</p>		
8.30-8.50	Log in and Registration	Session Chair
8.50-9.10	Samuel O. Okeyo, Hezron N. Isaboke & Samuel N. Ndirangu: <i>Smallholder Farmers' Participation in Groundnuts Production in Siaya County, Kenya: A Socio-Economic Perspective.</i>	Dr. Elijah Muange
9.10-9.30	Ogolla O. Fredrick, Muraya M. Moses, Onyango O. Benson: <i>Tomato Foliar Fungal Disease Prevalence in Agro-ecological Zones of Kirinyaga County, Kenya.</i>	
9.30-9.50	Mogaka M. Onyambu, Muraya M. Moses, Onyango O. Benson, Ong'au, M. Peterson, Ogolla O. Fredrick: <i>Prevalence of Banana Xanthomonas Wilt in Nithi, Tharaka-Nithi County in Kenya.</i>	
9.50-10.05	Paulson Letsholo & Botumile Matake: <i>Sustainable Animal Feeding Production System: A Case Study for a Stand-Alone Animal Feed-Mixer for Rural Subsistence Pastoral Farmers during COVID-19 Pandemic.</i>	
10.05-10.20	Ong'au, M. Peterson, Muraya M. Moses, Onyango O. Benson, Mogaka M. Onyambu, Ogolla O. Fredrick: <i>Occurrence of Bacterial Wilt Pathogen in Soils and Potato Tubers in Runyenjes in Embu County, Kenya.</i>	
<p>DAY 4: FRIDAY, 25TH JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM MODERATOR: Dr. Elijah Muange SESSION CHAIR: Mr. Martin Kasina</p>		
8:00-8.30	Log in and Registration	Session Chair
8.30-9.20	Thomas Mbogo Mwangi, Samuel Njiri Ndirangu & Hezron Nyarindo Isaboke: <i>Analysis of Tomato Market Diversity among Rural Smallholder Farmers in Kirinyaga County, Kenya.</i>	Mr. Martin Kasina
9.20-9.40	Thomas Mbogo Mwangi, Samuel Njiri Ndirangu & Hezron Nyarindo Isaboke: <i>Profitability of Tomato Production Systems among Smallholder Farmers in Kirinyaga County, Kenya.</i>	

9.40-10.00	Karing’u Kelvin Njuguna, Hezron Nyarindo Isaboke & Samuel Njiri Ndirangu: <i>Smallholders’ Choice of Avocado Marketing Channels in Murang’a County, Kenya</i>	
10.00-10.20	Asige Mmaiti Lawrence & Obushe Dennis Omuse: <i>Patterns on Food Security in Narok East Sub-County, Narok County, Kenya.</i>	
10.20-10.40	Christabel N. Muhonja, Eliud N. Wafula, Josiah Kuja, Eddy E. Owaga, Huxley M. Makonde and Julius M. Mathara: <i>Lactic Acid Bacteria from African Fermented Foods: Potential Biological Control Agents for Mycotoxins in Kenya</i>	
10.40-11.00	Kasyula Patrick: <i>Devolution Framework for Sustainable Agriculture and Food Security in Kenya: The Case of Lower Eastern Counties.</i>	

SUB-THEME 2: ECONOMIC SURVIVAL THROUGH RESPONSIVE ENTREPRENEURSHIP IN THE ERA OF GLOBAL DISRUPTION

DAY 1: TUESDAY, 22ND JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM MODERATOR: Dr. John Achuora SESSION CHAIR: Prof. Robert Arasa		
TIME	PRESENTATION/ACTIVITY	RESPONSIBILITY
2.00-2.20	Thomas Muli Kilonzo, Ruth Wayua Kimanthy & Winnifred Nduta: <i>Influence of Performance Contracting Strategies on Examination Performance in Technical Training Institutes in Eastern Region, Kenya.</i>	Prof. Robert Arasa
2.20-2.40	Ruth Wayua Kimanthy, Thomas Muli Kilonzo & Winnifred Nduta: <i>Organizational Factors Influencing Strategic Plan Development among SMES in Machakos Town.</i>	
2.40-3.00	Richard Osoro Keroti: <i>Sustainable Entrepreneurship Factors Influencing Performance of Clearing and Forwarding Firms in Kenya.</i>	
3.00-3.20	Esther Kerubo Nyaribo, Wario Guyo, Romanus Odhiambo, Francis Kangure: <i>Effect of Employee Compensation on Turnover among Nursing Employees at National Referral Hospitals in Kenya.</i>	
3.20-3.40	Benta G. A. Oguda, Coleta R. Matayo & Mugendi K. M’Rithaa: <i>Integrating Novel Technologies into Leather Product Development within Kenya’s Informal Sector.</i>	
3.40-4.00	Daniel Mwasia Ishmail, Florence Memba & Jane Muriithi: <i>Firm Size, Credit Risk on Financial Performance of Microfinance Banks in Kenya.</i>	

DAY 2: WEDNESDAY, 23RD JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM

MODERATOR: Dr. John Achuora

SESSION CHAIR: Prof. Robert Arasa

TIME	PRESENTER	RESPONSIBILITY
8:00-8.30	Log in and Registration	Session Chair
8.30-9.20	GUEST SPEAKER: Prof. Bitange Ndemo, Associate Professor of Entrepreneurship, University of Nairobi	Prof. Robert Arasa
9.00-9.20	Guest Speaker and Plenary	
9:20-9:40	Florence Jane Wangui Kamau, Gladys Rotich & Kennedy O. Ogollah: <i>Multiple Delivery Channels and Service Delivery in Huduma Centers in Kenya.</i>	
9:40-10:00	Jackline Akoth Odero & Ezekiel Wechuli Wanyama: <i>The Role of Knowledge Sharing in Enhancing Innovation Performance amongst Commercial Banks in Kenya.</i>	
10:00-10:20	Joshua Abunda: <i>Influence of Regulatory Capital on Financial Performance of Deposit Taking Microfinance Banks in Kenya.</i>	
10:20-10:40	Annfavor Kalei, Robert Arasa & John Achuora: <i>Green Human Resource Management Practices and Environment Sustainability within Chartered Public Universities in Kenya.</i>	
10:40-11:00	Headmound Okari Isoe: <i>Multiple Sophistication Strategy: Flying Beyond Competition Amid Global Disruptions and Radicalised Business Players</i>	
11:00-11:20	Joseph Omondi Oketch, Woshington Okeyo & Timothy Kiruhi: <i>Economic Survival through Responsive Entrepreneurship in the Era of Global Disruption.</i>	
11:20-11:30	HEALTHBREAK	
11:30-11.50	Nyile Erastus Kiswili, Ismail Noor Shale & Anthony Osoro: <i>Supply Chain Leagility and Performance of Humanitarian Aid Organizations in Kenya: Efficient, Effective and Quick Response to Disasters</i>	Dr. Margaret Nganu
11.50-12.10	Evelyn Bosire, Gregory Namusonge & Samson Nyang'au Paul: <i>Influence of Innovativeness on the Performance of Youth-Led Micro and Small Enterprises in Nyanza Region, Kenya</i>	
12.10-12.30	Denish Ateto Matunga, Patrick Karanja Ngugi & Romanus Odhiambo: <i>Relationship between Procurement Audit Practices and Implementation Level of Public Procurement Regulatory Framework in the Devolved Governments in Kenya.</i>	

12.30-12.50	Masaga Barante, Robert Arasa & Susan Nzioki: <i>Risk Management Practices and Performance of Commercial Banks in Kenya</i>	
12:50-1:10	Simon Kamuri: <i>Understanding Pursuing as An Entrepreneurial Competence and The Relationship with Performance of Value-System Actors in Kenya's Leather Industry</i>	
1:10-2.00	LUNCH BREAK	
2.00-2.20	Benedict Mutinda Kimwaki, Patrick K. Ngugi & Romanus Odhiambo: <i>Relational Behaviour and Performance of Manufacturing Firms in Kenya.</i>	Dr. Ann Kalei
2.20-2.40	Angelyne Muthoni Mwabu & Justus Munyoki: <i>A Critical Review of Literature on Product Differentiation Strategy and Brand Loyalty.</i>	
2.40-3.00	Gatari Catherine Njoki, Noor Ismail & Anthony Osoro: <i>Preferences and Reservations Groups and Performance of State Corporations in Kenya</i>	
DAY 3: THURSDAY, 24TH JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Dr. Susan Nzioki SESSION CHAIR: Dr. John Achuora		
TIME	PRESENTER	RESPONSIBILITY
8:00-8.30	Log in and Registration	Session Chair
8.30-9.00	Nderui Ndung'u & Susan Were: <i>Influence of Top Management Support on Procurement Regulatory Compliance Level in Public Universities in Kenya.</i>	Dr. John Achuora
9.00-9.20	Fatuma Ali Rajab, Patrick Karanja Ngugi & David Mburu Kiarie: <i>Influence of Customer Relationship Management on Performance of Manufacturing Firms in Kenya.</i>	
9:20-9:40	Francis Mukatia Asakania: <i>Liquidity and Adoption of Public Private Partnerships in Kenyan Public Universities.</i>	
9:40-10:00	Jackson Barngetuny: <i>Re-Thinking Public Sector Budget Formulation Reforms in the Three East African Countries towards the Participatory Approach of Budgeting</i>	
10:00-10:20	Kirabo Joyce, Gregory Namusonge & Mike A Iravo: <i>Strategic Planning as a Modern Management Tool for Performance of Telecommunication Companies in Rwanda.</i>	
10:20-10:40	Karing'u Kelvin Njuguna, Hezron Nyarindo Isaboke & Samuel Njiri Ndirangu: <i>Smallholders' Choice of Avocado Marketing Channels in Murang'a County, Kenya.</i>	
10:40-11:00	Naomy Jepchumba, Patrick Karanja Ngugi, Noor Ismail Shale & Romanus Odhiambo: <i>Influence of Logistics Information System Management on Performance of Food and Beverage Manufacturing Firms in Kenya.</i>	
11:00-11:30	HEALTH BREAK	

11:30-11.50	Benedict Mutinda Kimwaki, Patrick K. Ngugi & Romanus Odhiambo: <i>Relational Behavior and Performance of Manufacturing Firms in Kenya.</i>	Margaret Musyoka
11.50-12.10	Faith Mwendu Mutegi: <i>Organisational Culture and Public Service Delivery of Huduma Centres in Kenya</i>	
12:10-12:30	Faith Mwendu Mutegi, Susan Nzioki & George King'oriah: <i>Employee Training and Public Service Delivery of Huduma Centres in Kenya</i>	
12.30-12.50	Jane Ileri Muriuki, Wario Guyo, Romanus Odhiambo & Justus Kinoti: <i>Effect of Information and Communication Technology on Procurement Performance in Energy Sector State Corporations in Kenya.</i>	
12:50-1:10	Grace Adhiambo Okello, Patrick Karanja Ngugi & Romanus Odhiambo: <i>Influence of Entrepreneurial Management on the Growth of Micro and Small Furniture Manufacturing Enterprises in Kenya</i>	
1:10-2.00	LUNCH BREAK	
2.00-2.20	Grace Adhiambo Okello, Patrick Karanja Ngugi & Romanus Odhiambo: <i>Influence of Strategic Orientation on the Growth of Micro and Small Furniture Manufacturing Enterprises in Kenya.</i>	Prof. Robert Arasa
2.20-2.40	Kanuku Musyoka, Shitanda Douglas & Nganu Margaret: <i>Factors Determining Adoption of Block Chain in the Insurance Industry: A Case of Kenya</i>	
2.40-3.00	Kenneth Otieno Gor, Agnes Njeru & Esther Muoria: <i>Breadth of Strategic Performance Measurement System and Performance of Medium Sized Service Firms in Kenya.</i>	
3.00-3.20	Christine Nyawira Njogu: <i>Influence of Project Technical Skills on Performance of Community based Human Immuno Deficiency Virus Projects in Kiambu, Kenya.</i>	
DAY 4: FRIDAY, 25TH JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Ruth Kimanzi SESSION CHAIR: Dr. Ann Kalei		
TIME	PRESENTER	RESPONSIBILITY
8:00-8.30	Log in and Registration	Session Chair
8.30-9.00	Margaret Nganu, Margaret Musyoka & Benedict Mutuku: <i>Entrepreneurial Competencies and Performance of Dairy Cooperatives in Machakos County.</i>	Dr. Ann Kalei
9.00-9.20	John Achuora, Robert Arasa & Annfavour Kalei: <i>SMEs' Supply Chain Resilience Reactive Strategies for Sustainable Food Supply during Pandemic Situations: Lessons for Kenya.</i>	
9:20-9:40	Lillian K Nkoroi, Rose Njoroge & Caroline Mutwiri: <i>Knowledge acquisition through business support services and use among tenants to create businesses in selected University Incubation Centres in Kenya.</i>	

9:40-10:00	Emmaboles Rubunda, Gregory S. Namusonge, Oluoch Oluoch: <i>Influence of Trade credit on the Growth of Small and Medium Size Manufacturing Enterprises in Rwanda.</i>	
10:00-10:20	Billiah Maende, Wario Guyo, Romanus Odhiambo: <i>Influence of Communities of Practice on Employee Performance in Public Universities in Kenya.</i>	
10:20-10:40	Polycarp Koome Kubai, Hazel Gachunga, Romanus Odhiambo: <i>Transactional Leadership and Organizational Performance of Private Universities in Kenya.</i>	
10.40-11.00	Dr. Margaret Nganu & Kenneth Gor: <i>Competitive Marketing Competencies of Dairy Cooperatives in Machakos County, Kenya.</i>	

SUB-THEME 3: CATALYSING CHANGE FOR INCLUSION AND ACCESS TO EDUCATION DURING PANDEMICS

DAY 1: TUESDAY 22 ND JUNE 2021: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Dr. Peter Kibet Koech		SESSION CHAIR: Dr. Richard Kimiti
TIME	PRESENTATION	RESPONSIBILITY
2.00-2.20	Areba George Ngwacho: <i>Reimagining of Basic Education as A Remedy for Catalyzing Change for Inclusion and Access During Pandemics.</i>	Session Chair Dr. Richard Kimiti
2.20-2.40	Billiah Gisore: <i>Catalyzing Change for Inclusion and Access to Education during Pandemics.</i>	
2.40-3.00	Daniel Oduor Onyango & Michaela Mhagama: <i>Contribution of Education Technology to Continuation of Teaching and Learning during Covid-19 Disruption.</i>	
3.00-3.20	Michaela Mhagama & Daniel Oduor Onyango: <i>Covid-19 Pandemic and Implementation of World Bank Supported Education Initiatives in East Africa.</i>	
3:20-3:40	Ariyo Ayodele Oluwakayode: <i>Enhancing Health and Quality of Life: Teenage Pregnancy among Secondary School Students During Covid-19 Pandemic in Akure South Local Government Area Ondo State, Nigeria</i>	
DAY 2: WEDNESDAY, 23 RD JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Dr. Peter Kibet Koech		SESSION CHAIR: Prof. Henry Embeywa
8:00-8.30	Log in and Registration	Session Chair
GUEST SPEAKER: Guest Speaker: Prof. Samson Gunga, Dean, School of Education and Professor of Education, University of Nairobi:		
TIME	PRESENTATION	RESPONSIBILITY
8.30-9.20	Guest Speaker: Prof. Samson Gunga, Dean, School of Education and Professor of Education, University of Nairobi: <i>Resource mobilization through research in Kenya:</i>	Prof. Henry Embeywa

	<i>Identification of online opportunities in higher education during and beyond Covid-19 pandemic</i>	
9.00-9.20	<i>Guest Speaker, Plenary</i>	
9.20-9.40	Kanyi Christopher Munene: <i>Use of Animation in Simplifying the Learning of Abstract Concepts of History and Government in Secondary Schools in Kenya.</i>	
9.40-10.00	Ntimi Mtawa: <i>Re-imagining higher education for social change and inclusion during post Covid-19 pandemic: Lessons from the Human Development and Capability Approach.</i>	
10.00-10.20	Ezekiel Nyambega Omwenga: <i>Problems and Prospects Emanating from Catalyzing Change for Inclusion and Access to Higher Education Institutions in Kenya During Covid-19.</i>	
10.20-10.40	Florence Mmbwanga, Evelyn Etakwa-Simiyu & Geoffrey Maroko: <i>Challenges University Students Face in E-Learning as a Result of the Covid-19 Pandemic</i>	
10.40-11.00	Monica Njeri Gachunga, Patrick Ngugi Karanja, Allan Njogu Kihara: <i>Adoption of Information Communication Technology and Competiveness of TVET Institutions In Kenya.</i>	
11.00-11.30	HEALTH BREAK	
11.30-11.50	Wycliffe Amukowa: <i>Professors in Need of Education</i>	Dr. Pamela Muriungi
11.50-12.10	Lornah C.N. Sirima: <i>Effect of Covid-19 on SN Learners' Access to Training in TVETs.</i>	
12.10-12.30	Peter Kibet Koech & Kang'ara Hannah Wanjiku: <i>Using E-Learning as a Tool of Enhancing Teaching and Learning in University Education: Lessons from Machakos and Chuka Universities.</i>	
12.30-12.50	Bernard K. Rop and Wycliffe H. Namwiba: <i>Evaluation Based Teaching as a Confidence Builder in Good Teaching Practice.</i>	
12:50-1:10	Ezra Ondari Okemwa: <i>Open Access Publishing and Knowledge Production in Sub-Saharan Africa: Opportunities and Challenges</i>	
1:10-2.00	BREAK	
DAY 3: THURSDAY, 24TH JUNE, 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Dr. Peter Kibet Koech SESSION CHAIR: Dr. David Mulwa		
8.00-8.30	Log in and Registration	Session Chair
8.30-8.50	Orucho Justine Amadi, Onyiko Kennedy Karani & Joseph Misati: <i>Awareness Level of Pupils on CSA in EMESA Sub Location, Kisii County.</i>	Dr. David Mulwa

8.50-9.10	Elphas Luvaso Aliva: <i>The Effectiveness of Closed-Circuit Television Camera in Management of Discipline in Public Secondary Schools in Kenya.</i>	
9.10-9.30	Pamela K. Muriungi & Mugendi K. M'Rithaa: <i>Universal Design for Learning: Promoting Inclusive Education in An Empathic Manner.</i>	
9.30-9.50	David M. Mulwa & Stephen Munguti: <i>Is Re-Admission Policy of Girls After Teenage Pregnancy in Schools Implementable Without Infringing on the Fundamental Rights of Children in Kenya?</i>	
9.50-10.05	Rose Achieng, Nicholas Anyuor & Joyce Agalo: <i>Taking the Blended Teaching and Learning Journey: Implementation in Higher Education Institutions in Kenya.</i>	
10.05-10.20	Ralitsa D. Debrah, Mugendi K. M'Rithaa & Dick Ng'ambi: <i>Design Courses and the 'New Normal': ePortfolios as a Pedagogic Innovation in Advancing University Education.</i>	
10.20-10.35	Elphas Luvaso Aliva: <i>Education in Emergency: Strategies for Access, Equity and Inclusion During Covid-19 Pandemic in Kenya.</i>	
10.35-10.50	Elphas Luvaso Aliva: <i>School Violence as a Social Problem in Kenya.</i>	
10.50-11.05	Francis Kiriimi, Jesca Muthee & Zipporah Gichuhi: <i>Innovative approaches for promoting resilience, inclusion and access to education amidst COVID-19 Pandemics in Kenya.</i>	
11.00-11.30	HEALTH BREAK	
11.30-11.50	Kihara Daniel Wambugu: <i>Appraisal of Education Systems Supporting Vulnerable Children during Covid-19 Disruptions in Public Secondary Schools in Kenya: A Case of Nakuru County.</i>	Dr. David Mulwa
11.50-12.10	Damaris Mwikali Muasa, Fredrick Ogola & Susan Nzioki: <i>Influence of Principal Management Practices of Academic Progress Records on Students' Academic Performance in KCSE in Public Schools in Mashuru Sub-County.</i>	
12.10-12.30	Ariyo Ayodele Oluwakayode, Adelusi Joseph Olusegun & Kareem Sheida Itunu: <i>Enhancing Health and Quality of Life: Teenage Pregnancy among Secondary School Students during Covid-19 Pandemic in Akure South Local Government Area Ondo State, Nigeria.</i>	

12.30-12.50	Henry Etende Embeywa: <i>Mentoring Postgraduate Students on the Use of Meta-Analysis Strategy for Research in Pandemic Times.</i>	
1.00-2.00	BREAK	
DAY 4: FRIDAY, 25TH JUNE, 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Dr. David Mulwa SESSION CHAIR: Dr. Peter Kibet Koech		
8.30-8.50	<i>Log in and Registration</i>	Session Chair
8.50-9.10	Jacob Kyengo Muthoka: <i>Influence of Government-Initiated Strategies on Inclusion of Vulnerable Children in Education During Covid-19 Pandemic in Public Secondary Schools in Nzau Sub-County of Makueni County, Kenya.</i>	Dr. Peter Kibet Koech
9.10-9.30	Jeremiah Osida Onunga: <i>Towards a Virtual Environment for Sharing Curriculum and Research Collaboration among Universities in Kenya during Covid-19 Pandemic.</i>	
9.30-9.50	Kisilu Kombo & Joshua M. Itumo: <i>Covid-19 Pandemic and its Impact on the Lecturers' and Students' Performance at Kenyatta University, Kenya.</i>	
9.50-10.05	Monica Njeri Gachunga, Patrick Ngugi Karanja, Allan Njogu Kihara: <i>Influence of Resource Mobilization on Competitiveness of TVET Institutions in Kenya.</i>	
10.05-10.20	Kunga Gathage John, Henry Embeywa & Peter Kibet Koech: <i>The Effects of Inquiry-Based Science Teaching Approach on Task Competence of Secondary School Physics Students in Kitui County, Kenya</i>	
10.20-10.35	Fellis Nthambi Mutune, Geoffrey Maroko & Alice Kiai: <i>Reflection on English Textbook in the Kenyan Classroom.</i>	
10.35-10.50	H.E. Embeywa: <i>Analogies, Scientific Visualization and Scientific Revolution: Implications for a New Pedagogy in Science.</i>	
10.50-11.05	Kimiti Richard Peter: <i>The Impact of Covid-19 Pandemic on the Implementation of the University Curriculum: A Case of Public Universities in South Eastern Kenya.</i>	
SUB-THEME 4: IMPLICATIONS OF CLIMATE CHANGE ON SUSTAINABLE ENVIRONMENTAL & NATURAL RESOURCES MANAGEMENT		
DAY 2: WEDNESDAY, 23RD JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		RESPONSIBILITY
MODERATOR: Dr. Julius Nzeve SESSION CHAIR: Prof. Jones Agwata		
GUEST SPEAKER: Dr. Pacifica Ogola, Director and Head of Climate Change Directorate, Ministry of Environment & Forestry		
TIME	PRESENTATION	Session Chair
8.00-8.30	Log in and Registration	

8.30-9.20	<i>Guest Speaker and Plenary:</i>	Prof. Jones Agwata
9.20-9.40	Kipkiror Jepkemboi Loice, Kipsang Bernard Rop & Wycliffe Habel Namwiba: <i>The Recurrent Landslides of Lagam Escarpment, Kaben Location, Marakwet East, Kenya.</i>	
9.40-10.00	Nancy Wanjala Barasa, Jones F. Agwata and Robert Kibugi: <i>Influence of Climate Variability on the Livelihoods of Rural Women in Bungoma County, Kenya.</i>	
10.00-10.20	Steve N. Machan, Jones F. Agwata & Nicholas O. Oguge: <i>Environmental Factors Influencing the Sustenance of Camel Milk Value Chain in Isiolo County, Kenya.</i>	
10.20-10.40	Ezekiel Kemboi, Stephen Anyango, Jones Agwata, Collins Odote: <i>Factors Influencing Resilience of Pastoralists to Drought in Kajiado County, Kenya.</i>	Prof. Jones Agwata
10.40-11.00	Erick Oluoch Opondo, & Obadia Kyetuza Bishoge: <i>Implications of Climate Change on Sustainable Environmental and Natural Resources Management in Kenya.</i>	
11.00-11.30	HEALTH BREAK	
11.30-11.50	Kinikonda Okemasisi: <i>Implication of Climatic Change on Sustainable Environmental and Natural Resource Management: Individual and Collective Responsibility.</i>	
11.50-12.10	Jones F. Agwata: <i>Reflections on Policies and Institutional Mechanisms for Climate Change Management in Kenya</i>	
12.10-12.30	Josphat M. Gikonyo, Stephen O. Anyango and Jones F. Agwata: <i>Influence of Environmental Programmes on Students' Attitudes and Behavior in Addressing Environmental Issues in Murang'a County, Kenya.</i>	
12.30-12.50	Jones F. Agwata: <i>Potential Challenges of Drought Coping Strategies in Machakos County, Kenya.</i>	
DAY 3: THURSDAY, 24TH JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM MODERATOR: Dr. Veronica Okello SESSION CHAIR: Dr. Stephen Mailu		
8:30-8.40	Log in and Registration	
TIME	PRESENTATION	
8.40-9.00	Moses M. Mwanza, Elizabeth N. Ndunda, Geoffrey O. Bosire, Vincent O. Nyamori & Bice S. Martincigh: <i>Fabrication of Molecularly Imprinted Polymers Based Sensor for Determination of Polychlorinated Biphenyls in the Environment.</i>	Dr. Stephen Mailu
9.00-9.20	Bessy Eva Kathambi & Linda Maryanne Obiero: <i>Implications of Covid-19 on Waste Management and Natural Resources Management in Urban Areas</i>	
9.20-9.40	Bernard Kipsang Rop: <i>Petroleum Synopsis of the North West-Kenya Rifts: Evidence and Issues.</i>	

9.40-10.00	Bonface K. Maweu, Kithaka Samson Chabari & James Kyalo Nguku: <i>Assessment of Selected Physico-Chemical Parameters of Groundwater in Chuka Igambang'ombe Constituency, Kenya.</i>	
10.00-10.20	Elizabeth N. Ndunda & Moses M. Mwanza: <i>Advances in Sensor Technology in Determination of Polychlorinated Biphenyls in the Environment.</i>	
10.20-10.40	A.W. Muia, A. Kimisto & O.O. Donde: <i>Sludge Management Technologies for Sustainable Development: An Overview.</i>	
10.40-11.00	Ndiritu James, Isaac W. Mwangi, and Jane I. Murungi ³ & Ruth Wanjau: <i>Equilibrium and Kinetics of Adsorption Of P-Nitrophenol (Pnp) From Model Aqueous Solution Using Raw and Quarternised Afromomum Melegueta Peels</i>	Dr. Elizabeth Ndunda
11.00-11.30	HEALTH BREAK	
11.30-11.50	Kitulu Linge, Nzeve Julius, Waswa Fuchaka, Kitur Esther & Shitanda Douglas: <i>Heavy Metals and Bacteriological Contamination of Mitheu Stream in Machakos Municipality, Kenya.</i>	
11.50-12.10	Mwalimu K. Musau, Douglas Shitanda, Michael Githinji & Caroline Mwende: <i>Use of PET Flakes as Coarse Aggregates Replacement in Concrete Paving Blocks.</i>	
12.10-12.30	Patrick Owiny, Jones Agwata & Kariuki Muguia: <i>Factors Influencing Public Participation in Environmental Impact Assessment of Nairobi-Thika Superhighway Improvement in Nairobi City County, Kenya.</i>	
12.30-12:50	Mwalimu K. Musau, Douglas Shitanda, Michael Githinji & Caroline Mwende: <i>Use of PET Flakes as Coarse Aggregates Replacement in Concrete Paving Blocks.</i>	
DAY 4: FRIDAY, 25TH JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM MODERATOR: Dr. Mark Kimathi SESSION CHAIR: Dr. Veronica Okello		
TIME	PRESENTATION	RESPONSIBILITY
8:00-8.30	Benson Wangombe Nganga: <i>Solar Water Desalination in a Vacuum of Infinite Volume.</i>	Session Chair Dr. Veronica Okello
8.30-9.20	Japheth M. Nzangya, Elizabeth N. Ndunda, Geoffrey O. Bosire, Bice S. Martincigh & Vincent O. Nyamori: <i>Synthesis of Molecularly Imprinted Polymers and their Application as Adsorbents in the Preconcentration of Polybrominated Diphenyl Ethers.</i>	
9.20-9.40	Gilbert K. Bett, Daniel Olago, Daniel Ichangi ³ and Bernard K. Rop: <i>Geochemical Evaluation for the Hydrocarbon Potential of Source Rocks in the Anza Basin, Kenya</i>	
9.40-10.00	A. Jean-Luc Ayitou : <i>Tailoring Non-linear Light-Initiated Processes for Solar Energy Conversion and Bio-Medical Applications</i>	

10:00-10:20	Michael Musembi: <i>The Effect of Various Fuels on the Yield and Photophysical Properties Zinc Zirconate Perovskite</i>	
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SUB-THEME 5: MITIGATING THE IMPACT OF SOCIAL DISRUPTIONS IN A GLOBAL PANDEMIC

DAY 1: TUESDAY 22ND JUNE 2021: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Prof. Geoffrey Maroko SESSION CHAIR: Dr. Larry Ndivo		
TIME	PRESENTATION	RESPONSIBILITY
2.00-2.20	Abraham Kiprotich Murgor: & Bernard Kipsang Rop: <i>Origin, Spread and Impact of Islam on Nandi Traditional Religion and Culture: A case of Nandi County, Kenya.</i>	Dr. Larry Ndivo
2.20-2.40	Joyce Akinyi Akach, Lilac Osanjo & Samuel Maina: <i>Co-Design: Catalyst for Inclusion in the Design Process.</i>	
2.40-3.00	Patrick Kasyula: <i>The contribution of Leadership and Governance in Managing Global Pandemic.</i>	
DAY 2: WEDNESDAY, 23RD JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM		
MODERATOR: Dr. Evelyn Etakwa-Simiyu SESSION CHAIR: Prof. Geoffrey Maroko		
GUEST SPEAKER: Prof. Richie Moalosi, Professor of Industrial Design, Dept. of Industrial Design & Technology, University of Botswana		
TIME	PRESENTATION	RESPONSIBILITY
8:00-8.30	Arrival, Registration and Entertainment	Session Chair
8.30-9.20	Guest Speaker Address and Plenary	
9.20-9.40	Wanyama Ogutu: <i>Proposed Workshop to Investigate the Effect of COVID-19 Pandemic on Children playing with Painting and Clay Modeling.</i>	Prof. Geoffrey Maroko
9.40-10.00	Wanyama Ogutu: <i>Play with Painting and Clay: A Re-Booth of Psychoanalysis Healing on a Child Affected by Covid-19.</i>	
10.00-10.20	Josephine Obonyo: <i>Mitigating the Impact of Social Disruptions in a Global Pandemic.</i>	
10.20-10.40	Wanjiru J. J. Mugai: <i>Benefits of Psychosocial Interventions on Traumatized Children Living in Difficult Environments in Mbeere North Sub-County.</i>	
10.40-11.00	Geoffrey M. Maroko: <i>Covid-19 is a War: Framing the Pandemic in an Evolving “New Normal.”</i>	
11.00-11.30	HEALTH BREAK	

11.30-11.50	Coletta Ruth Matayo· Lilac A. Osanjo: <i>Craft Design for Improved Livelihoods among Maasai Women in Kenya: A Case of the 'Love Is' Project in Kenya</i>	Dr. Larry Ndivo
11.50-12.10	Fellis Nthambi Mutune, Geoffrey Maroko ² & Alice Kiai: <i>Reflection on English Textbook in the Kenyan classroom.</i>	
12.10-12.30	Geoffrey M. Maroko, Gladys N. Mokuu, Meshack O. Ondora & Augustus O. Nyakundi: <i>Managing HIV/AIDS Amid COVID-19: How to Un-do Things with Words.</i>	
DAY 3: THURSDAY, 24TH JUNE, 2021 VENUE: SUB-THEME VIRTUAL PLATFORM MODERATOR: Dr. Evelyn Etakwa-Simiyu SESSION CHAIR: Prof. Geoffrey Maroko		
8.30-8.50	Log in and Registration	Secretariat
8.50-9.10	Orucho Justine Amadi: <i>The Role of a Social Worker in the Mitigation of Child Sexual Abuse in Kisii County</i>	Prof. Geoffrey Maroko
9.10-9.30	Larry Ndivo & Teresia Kaberia: <i>Transgressing Maxims of Politeness: Effects of Combative Language Used During Covid-19 Televised Updates in Kenya.</i>	
9.30-9.50	Justine Amadi Orucho & Orucho Mark Rodgers: <i>Attitudes, Perception and Effects of Euthanasia on Families in Wetlands in Kenya.</i>	
9.50-10.10	Orucho Justine Amadi, Onyiko Kennedy Karani & Joseph Misati: <i>A Awareness Level of Pupils on CSA in EMESA Sub-Location, Kisii County.</i>	

SUB-THEME 6: ENHANCING POST-COVID-19 RECOVERY MEASURES IN HEALTH, HOSPITALITY AND QUALITY OF LIFE FOR SUSTAINABLE LIVELIHOODS THROUGH SCIENCE AND TECHNOLOGY		
DAY 2: WEDNESDAY, 23RD JUNE 2021 VENUE: SUB-THEME VIRTUAL PLATFORM MODERATOR: Consolate Awuor SESSION CHAIR: Dr. Alice Nzioka		
8:00-8.20	Log in and Registration	Session Chair
GUEST SPEAKER: Dr. Esther Kagure Munyiri, Director, Global Tourism Resilience and Crisis Management Centre- East Africa, Kenyatta University		
TIME	PRESENTATION	
8.20-8:50	Guest Speaker and Plenary	Dr. Alice Nzioka
8:50-9.10	Rose Achieng & Nicholas Anyuor: <i>Digital Media Strategies and Promotion of Domestic Tourism Post Covid-19: A Case of Western Circuit.</i>	

9.10-9.30	Antoneta Njeri Kariru & David Mwangi Ndungu: <i>Strategies to Overcome Damages Caused by Covid-19 in the Hotel Industry.</i>	
9.30-9.50	Winnifred Nduta, Ruth Kimanzi & Thomas Kilonzo.: <i>Covid-19 Recovery Strategies in the Hospitality & Tourism Sector.</i>	
9.50-10.10	Janet K. Malla, Sophie Ochola, Irene A. Ogada & Ann Munyaka: <i>A Review of Dietary Intake and Nutritional Status of Children with Cerebral Palsy in Nairobi County.</i>	
10.10-10.30	Ginn Assibey Bonsu: <i>Cooking During the Covid-19 Pandemic in Africa: a Reverse Design Thinking Assessment.</i>	
10.30-10:50	Maré and Mugendi K. M’rithaa: <i>The Influence of Behaviour Centred Design Approaches on The Flame-Based Cookstove-Related Health and Wellbeing of Indigent South African Households</i>	
10:50-11:10	Mbaabu Silas Muguna, Tarsila Kibaara and Paul Maku Gichohi: <i>Effectiveness of NHIF in addressing Students’ Healthcare in Public Secondary Schools in Meru County, Kenya</i>	
11:10-11:30	L. Rotich & S. Boit: <i>Effect of Mission Culture on Performance of Selected 5-Star Chain Affiliated Hotels in Kenya</i>	

CLOSING CEREMONY: VENUE: VIRTUAL PLATFORM

TIME	DAY 3: FRIDAY, 25 TH JUNE 2021	RESPONSIBILITY
11:30-12:00	Assembling	Dr. Wycliffe Amukowa
12:00-1:00	OFFICIAL CLOSING PROGRAMME	
	Conference Recap and Ways Forward: Prof. Mugendi K. M'Rithaa	Prof. Henry Embeywa
	Closing Remarks by Prof. Peter Mwita (DVC- Research, Innovation and Linkages, Machakos University)	Prof. Peter Mwita, DVC-RIL, MksU
	Closing Address, Prof. Lucy Irungu (Vice-Chancellor, Machakos University)	Prof. Lucy Irungu, VC, MksU
	SPEECH AND OFFICIAL CLOSING OF THE CONFERENCE BY THE CHIEF GUEST, PROF. WALTER OYAWA	
1.00	PHOTO SESSION	