



# MACHAKOS UNIVERSITY

## 1<sup>ST</sup> ANNUAL INTERNATIONAL CONFERENCE

### *CONFERENCE PROGRAMME*

#### Venue

**MACHAKOS UNIVERSITY HOTEL AND CONFERENCE CENTRE**

**DATE: 17<sup>th</sup> -19<sup>th</sup> APRIL 2018**

*Theme: Harnessing Scientific Research, Innovation and Technology for Sustainable Development*

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*Supported by:*



# CHIEF GUESTS

**HON. AMB. AMINA MOHAMMED**

*CHIEF GUEST-OFFICIAL OPENING*



**Hon. Amb. Amina Mohammed**

*Cabinet Secretary, Ministry of Education*

**Amb. Amina Mohamed** is a lawyer and diplomat, currently the Cabinet Secretary for Education, Republic of Kenya. Amina has previously served as chairperson of the International Organization for Migration and the World Trade Organization's General Council, as well as Assistant Secretary-General and Deputy Executive Director of the United Nations Environment Programme. She also served as the Cabinet Secretary in Ministry for Foreign Affairs in Kenya from May 2013 to February 2018.

For her elementary studies, Amb. Amina attended the Township Primary School in Kakamega and later Butere Girls and Highlands Academy. Amb. Amina then proceeded to Ukraine on a scholarship to study at the University of Kiev. She completed the institution's courses, earning a Master of Laws (LLM) in International Law and later a Postgraduate Diploma (PGDip) in International Relations from the University of Oxford.

**H.E HON. GOVERNOR DR. ALFRED NGANGA MUTUA**  
*CHIEF GUEST-OFFICIAL CLOSING*



**H.E. Hon. Dr. Alfred Mutua, Ph.D**  
*Governor of Machakos County*

**H.E. Dr. Alfred Mutua** is the Governor of Machakos County. He won the 2013 General Election and became the first Governor of Machakos County and re-elected to serve for a second term (current) in the 2017 General Elections. He was the first holder of the Office of Public Communications Secretary, popularly known as Government Spokesman. Prior to his appointment, Dr. Alfred Mutua served as Assistant Professor in the College of Communication and Media Sciences, Zayed University in Dubai where he conducted extensive research on the use of “Media for Democracy and Development.”

H.E. the Governor, Dr. Alfred Mutua, rose from humble beginnings and later attended Dagoretti High School for his O’ levels and proceeded for a Bachelor of Arts Degree in Journalism at Whitworth College, U.S.A, a Master of Science Degree in Communications from Eastern Washington University, U.S.A and a Doctorate in Communication and Media from the University of Western Sydney, Australia.

## KEYNOTE SPEAKERS



### **PROF. HAMADI BOGA**

*Principal Secretary, State Department for Agriculture Research*

Prof. Boga is Professor of Microbiology in the Department of Botany at the Jomo Kenyatta University of Agriculture and Technology. He has been Principal of Taita Taveta University College and acting Vice Chancellor of Taita Taveta University. He is currently the Principal Secretary, State Department for Agriculture Research in the Ministry of Agriculture and Irrigation. **His speech is on Government synergies for Harnessing Scientific Research, Innovation and Technology for Sustainable Development.**



### **PROF. CHACHA NYAIGOTTI-CHACHA**

*Chairman, Commission for University Education*

Professor **Nyaigotti-Chacha** is Swahili language educationalist. He has served as an executive secretary of the Inter-University Council for East Africa (2000–2010), and was the first CEO of the Kenyan Higher Education Loans Board (1995–2000). He is currently serving as the Chairman of the Kenyan Commission for University Education (CUE) and the Kenya Institute of Mass Communication (KIMC). **His speech is on the Role of Universities in Harnessing Scientific Research, Innovation and Technology for Sustainable Development**



### **ENG. JOHN TANUI**

*Chief Executive Officer, Konza Technopolis Development Authority*

Eng. Tanui is the Chief Executive officer of Konza Technopolis Development Authority, a semi-autonomous government agency tasked with building Kenya's first smart techno city. Eng. John Tanui holds a Bachelor's Degree of Technology in Electrical and Communication Engineering from Moi University and MBA in International Business from the University of Nairobi where he is currently pursuing Ph.D. in global business management. He is a member of the Institution of Engineers of Kenya (MIEK), a registered engineer and a member of the Academy of International Business. **His speech is on Innovation and Technology for Sustainable Cities**

## GUEST SPEAKERS



### **Prof. Mary Abukutsa**

**Prof. Abukutsa** is Professor of horticulture and currently the Deputy Vice-Chancellor, Research, Production and Extension at Jomo Kenyatta University of Agricultural Technology. She is famed as a humanitarian and agricultural scientist from Kenya who specializes in olericulture, agronomy, plant physiology and her work focuses on African indigenous food crops. **Her speech is on Harnessing African Indigenous Vegetables for Africa's Sustainable Development.**



### **Prof. Mugendi M'Rithaa**

Prof. M'Rithaa is an industrial designer, educator and researcher at the Cape Peninsula University of Technology in South Africa. He holds postgraduate qualifications in industrial design and higher education, as well as a doctorate in universal design. M'Rithaa is passionate about various expressions of socially responsive and responsible design, including design for sustainability, participatory design, and universal design. **His speech is on an Afrikan Perspective on Socially Conscious Design.**



### **Prof. Birhanu Dejene**

Prof. Dejene is Professor of physics and material science at the University of Free State, South Africa. He has developed collaboration with University of the Western Cape, Nelson Mandela Metropolitan University, University of Nairobi, University of Eldoret, JKUAT, University of Addis Ababa, Tokyo Institute of Science and Technology, ICTP and Tsukuba University. **His speech is on Green Energy Sources as Solutions for Sustainable Energy for The Past, Present and Future through Community Engagement.**



### **Prof. Simmy Marwa**

Prof. Marwa is a Professor and practitioner of Strategic Quality Management at Dedan Kimathi University of Science and Technology. He is also a Certified Manager in Six Sigma Green and Black Belt, Process Excellence and Project Management as well as a Fellow of the Higher Education Academy (UK). **He will speak on Business and Innovative Approaches for Small & Medium Enterprise Development.**



### **Prof. Donald Kisilu Kombo**

Prof. Kombo holds a PhD in Sociology of Education, and currently the Acting Dean, School of Education, Kenyatta University. Some of the significant researches he has done include the Impact of Nairobi-Thika Super Highway on Ruiru Town in Kenya and Cactus Pilot Project on Health Promotion in Selected Primary Schools in Nairobi, Kenya. His areas of interest include Education, Research and Community Development. **His speech is on Innovative Theories and Models of Competency Based Education for Sustainable Development.**

# HOST



## **Prof. Lucy W. Irungu, Ph.D.**

*Vice-Chancellor, Machakos University*

She is Professor of Entomology at the University of Nairobi and holds Ph.D.(Entomology) and Masters (Medical Entomology and Applied Parasitology) both from Liverpool, and Bachelor of science (Entomology) from University of Nairobi. She has served as the chairman of Department of Zoology, Principal College of Biological and Physical Sciences and Deputy Vice-Chancellor (Research, Production and Extension) at the University of Nairobi. She is a fellow of the Royal Society of Tropical Medicine and Hygiene and the Kenya National Academy of Sciences. She is a member of the Kenya Institute of Management(KIM). She also serves as the Chairperson of the Academic and Management Board of the Kenya Wildlife Training Institute. She is a board member of the JRS Biodiversity Foundation(USA). In addition, she belongs to other several professional organizations.



## **Prof. Peter N. Mwita, Ph.D.**

*Deputy Vice-Chancellor (Research, Innovation and Linkages)*

He is Professor of Statistics at Machakos University. Prof. Mwita holds Ph.D (Statistics) from Technical University of Kaiserslautern (Germany), Masters of Applied Statistics from Macquarie University (Australia) and Bachelor of Science from Kenyatta University. He has been Chairman of Department of Statistics and Actuarial Sciences and the founding Dean (elected) of the School of Mathematical Sciences both at Jomo Kenyatta University of Agriculture and Technology. He is the founding Chairman of the Kenya National Bureau of statistics and has been Member of multimedia University of Kenya Council. He is a member of Kenya National Statistical Society, where he also served as elected Chairman for two terms.



## **Prof. Joyce Agalo, Ph.D.**

*Deputy Vice-Chancellor (Academic & Student Affairs)*

She is Professor of Education (Education and Communication Technology) specializing in Distance Education and Instructional Media. She holds a Doctorate from Moi University; a Masters from the University of Wales, a Bachelors from Kenyatta University; a Postgraduate Diploma from the International Women's University, (ifu) from Hamburg University and a fellowship from Shanghai Open University in China. She's been Director, Institute of Open and Distance Learning (IODL) at Moi University, a member of the Technical Committee for the establishment of the National Open University of Kenya and a Council Member for Rongo University



# MACHAKOS UNIVERSITY

## MANDATE

The core mandate of Machakos University is to Teach, Train, conduct Research, Innovate, Collaborate, generate new knowledge and Community Service

## IDENTITY STATEMENT

Machakos University is an academic institution committed in transmitting knowledge, skills and attitude through science, Technology and Innovation for the benefit of humanity

## VISION STATEMENT

A preferred University of Scholarly Excellence

## MISSION STATEMENT

Provide scholarly education through Training, Research and Innovation for Industrial and socio-economic transformation of our communities

## PHILOSOPHY STATEMENT

To provide transformative leadership in Teaching, Training, Research, Innovation, Industrial and Technology transfer for wealth creation

## CORE VALUES

**Integrity:** To honestly deliver on our promises to our stakeholders

**Accountability:** To always be accountable in the assigned duties

**Professionalism:** To be committed to high standards of training and service delivery

**Inclusivity:** Respect for diversity

**Creativity:** Determination to continually improve

**Teamwork:** To actively work together to achieve common goals

**Equity:** To strive to be an equal opportunity university where meritocracy is practiced in all areas



# CONFERENCE PROGRAMME

THEME: HARNESSING SCIENTIFIC RESEARCH, INNOVATION AND  
TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

SUB-THEME	PAGE
AGRICULTURE, FOOD SECURITY, AND AGRIBUSINESS FOR COMMUNITY TRANSFORMATION	10
TRANSFORMATIVE DEVELOPMENT THROUGH LANGUAGE, CULTURE AND COMMUNICATION TECHNOLOGY	14
INNOVATIVE APPROACHES TO EDUCATION AND TRAINING FOR SUSTAINABLE DEVELOPMENT VENUE: VOI HALL	18
BUSINESS AND INNOVATIVE APPROACHES FOR SMALL & MEDIUM ENTERPRISE DEVELOPMENT	22
SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS AND INNOVATION FOR INDUSTRIAL TRANSFORMATION	25



## OFFICIAL OPENING AND KEYNOTE ADDRESSES

Time	DAY 1: TUESDAY 17 <sup>TH</sup> APRIL 2018	In-charge
8:00-9.00	Arrival and Registration and Brief Entertainment	Secretariat
9.00-10.30	<b>OFFICIAL OPENING OF THE CONFERENCE VENUE: KILIMAMBOGO HALL</b>	
	Welcoming Remarks, <b>Prof. Peter Mwita</b> (DVC- Research, Innovation and Linkages, Machakos University)	Secretariat
	Opening Address, <b>Prof. Lucy Irungu</b> (Vice-Chancellor, Machakos University)	<b>Prof. Peter Mwita</b>
	<b>SPEECH AND OFFICIAL OPENING OF THE CONFERENCE BY THE CHIEF GUEST: HON. AMB. AMINA MOHAMMED, CABINET SECRETARY, MINISTRY OF EDUCATION</b>	<b>Prof. Lucy Irungu</b> Vice-Chancellor, Machakos University
10.30-11.00	<b>PHOTO SESSION AND HEALTH BREAK</b>	Secretariat
11.00-11.30	<b>Prof. Hamad Idd Boga (Principal Secretary for Agriculture Research)</b> <i>Government synergies for Harnessing Scientific Research, Innovation and Technology for Sustainable Development.</i>	<b>Prof. Peter Mwita,</b> DVC-RIL, MKsU
11.30-12.00	<b>Prof. Chacha Nyaigotti-Chacha (Chairman, Commission for University Education)</b> <i>The Role of the Universities in Harnessing Scientific Research, Innovation and Technology for Sustainable Development.</i>	<b>Prof. Joyce Agalo,</b> DVC-ASA, MKsU
12.00-12.30	<b>Eng. John Tanui (Chief Executive Officer, Konza Technopolis Development City)</b> <i>Innovation and Technology for Sustainable Cities</i>	<b>Prof. Douglas Shitanda</b> DVC-APF, MKsU
12.30-1.00	<b>Plenary (Key Note Speakers)</b>	<b>Prof. Charles Ombuki-Chairman</b> <b>Dr. Larry Ndivo-Rapporteur</b>
1.00-2.00	<b>LUNCH BREAK</b>	

**SUB-THEME: AGRICULTURE, FOOD SECURITY, AND AGRIBUSINESS FOR  
COMMUNITY TRANSFORMATION**

<b>DAY 1: TUESDAY 17<sup>th</sup> APRIL 2018: CONFERENCE PRESENTATION SESSIONS</b> <b>VENUE: THATHA HALL</b>		
<b>Time</b>	<b>Title</b>	<b>In-Charge</b>
2.00-2.20	<b>Michael Elias, Uwe Richer, Oliver Hensel, Christian Hulsebusch, Oliver Wasonga:</b> <i>Mapping Cultivation Expansion in the Rangeland; Determinants and Implications on Pastoral Land use Systems in Borana Southern Ethiopia</i>	Dr. Jacob Konyango (Chair)  Dr. Alice Kosgei (Rapporteur)
2.20-2.40	<b>Ezekiel Mbitha:</b> <i>Gender, Land Ownership and Food Production Nexus in Mbeere Drylands, Kenya: Implications on Household Food Security</i>	
2.40-3.00	<b>Koima J. Agness:</b> <i>Assessment of Mango Post-harvest Losses in Mwala Sub- County</i>	
3.00-3.20	<b>David Stelamaris Velesi:</b> <i>Assessment of Factors Affecting Maize Yield in Machakos County</i>	
3.20-3.40	<b>Romano Okwi Elingit, Beatrice Kemunto Obaga:</b> <i>Innovating Agri business Sector for Employment Creations in Busia County</i>	
3.40-4.00	<b>Fuchaka Waswa:</b> <i>Investigating in Agricultural Leadership for Sustainable Food Security Planning in Kenya; Historical Insights from Josephonomics</i>	
4.00-4.20	<b>Kinyua M. Wanjohi:</b> <i>Effects of Tillage, Crop Residue and Inorganic Nitrogen on Crop Yield, Soil Carbon and Nitrogen Dynamics in Embu County, Kenya</i>	
4.30-5.00	<b>HEALTH BREAK</b>	

DAY 2: WEDNESDAY, 18 <sup>TH</sup> APRIL 2018 GROUP SESSIONS		
8:00-9.00	Arrival, Registration and Entertainment	Secretariat
<b>GUEST SPEAKER: Prof. Mary Anyango Abukutsa</b> <b>VENUE: THATHA HALL</b>		
Time	Presenter	In-Charge
9.00-9.30	<b>Prof. Mary Anyango Abukutsa</b> (Deputy Vice-Chancellor, Research, Production and Extension, Jomo Kenyatta University of Agricultural Technology) <i>Harnessing African Indigenous Vegetables for Africa's Sustainable Development</i>	Dr. Wycliffe Amukowa (Chair)-Registrar-RIL, Dr. Cornelius Okello (Rapporteur)
9.30-10.00	<b>Plenary</b>	
10.00-10.20	<b>George Kariuki, Jennifer Njaramba, Charles Ombuki:</b> <i>Climate Change and Maize Yield in Kenya: An Econometric Analysis</i>	Dr. Julius Nzeve (Chair)  Dr. Marther Ngigi (Rapporteur)
10.20-10.40	<b>Audu Sani:</b> <i>Analysis of Rural Poverty in Geidam Local Government Area of Yobe State, Nigeria</i>	
10.40-11.00	<b>Olung'ati O. E, Gudu S.O, Ouma E, Ochuodho J:</b> <i>Screening Selected Maize Single Crosses for Tolerance to Low P in Acidic Soils of Bumula and Maseno</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
11.30-11.50	<b>Kosgei, A.J., Gau, P.M., Kimurto, P.K, Danquah, E.Y., Yeboah, M.A., Offei, S.K., Thudi, M and Varshney, R.K:</b> <i>Quantitative trait loci (QTL) for Yield and its Related Traits in Chickpea under Drought Conditions in Kenya</i>	
11.50-12.10	<b>Oimbo L.M, Auma E, NgodeL.:</b> <i>Effects of Weeds in Yield Loss of Beans</i>	
12.10-12.30	<b>Donald Samuel Ijaka Ino:</b> <i>Factors Affecting Adoption of Mobile Phone based Technologies by Women Farmers in Machakos Sub- county, Machakos County, Kenya</i>	

12.30-12.50	<b>Peter Ngugi Kamande:</b> <i>Effect of using Different types of Irrigation Water on the Soil-to-Crop-Transfer Factor in Leafy Vegetables Grown along Peri-Urban Areas of Kiambu County, Kenya</i>	
12.50-1.10	<b>Oyier M. O, Owuoche J.O, Cheruiyot E. and Oyoo M.:</b> <i>Evaluation of Sweet Sorghum (Sorghum bicolor (L.)Moench) Hybrids Using GGE Biplot Analysis in Western Kenya</i>	
1.10-2.00	<b>LUNCH BREAK</b>	
2.00-2.20	<b>Mungai Anne Njeri, Sergio Rustichelli Teixeira:</b> <i>Making Marketing Orientation Decisions: The Case of Smallholder Farmers in Kenya's Kiambu West District</i>	Dr. George Kariuki (Chair)
2.20-2.40	<b>Mohammed Ibrahim Girei, Josephine Bosede Ayoola &amp; Godwin A. Abu:</b> <i>Factors Influencing the Intensity of Market Participation Among the Cattle Farmers in Adamawa State, Nigeria.</i>	Nancy Chege (Rapporteur)
2.40-3.00	<b>Japhet Kiragu, David Rutere &amp; Johnstone Mwatika:</b> <i>Sypertix<sup>r</sup> IS Efficacious for Use in Tsetse Control in Kenya</i>	
3.00-3.20	<b>Peter O. Bolo:</b> <i>Residue Removal and Sole Application of Inorganic Fertilizers Decrease the Abundance of Nitrogen Mineralizing Bacteria in Tropical Soils of Sub-Saharan Africa</i>	
3.20-3.40	<b>Esther N. Muia:</b> <i>Macro and Micronutrient Intakes in Female Kenyan Adolescent Elite Athletes</i>	
3.40-4.00	<b>Romano O. Elingit &amp; Tom Onyango:</b> <i>Employee Training New Trends and Challenges on Agricultural Institutions performance in Busia County</i>	
4.00-4.20	<b>Dr. Linnet Hamasi:</b> <i>Indigenous Strategic Crops and Trees for Water, Food Security and Conservation of Environment as Mitigation against Climate Change in Kenya: Focus on Vihiga County</i>	
4.20-5.00	<b>HEALTH BREAK</b>	

**DAY 3: THURSDAY 19<sup>th</sup> APRIL 2018: CONFERENCE PRESENTATION SESSIONS**  
**VENUE: THATA HALL**

Time	Title	In-Charge
9.00-9.20	<b>Theobald Frank Theodory:</b> <i>Vulnerability, Adaptation to Climate Change Among Smallholders Farmers in Kagera Region, Tanzania</i>	Dr. Theobald Frank Theodory (Chair)  Cornelius Okello (Rapporteur)
9.20-9.40	<b>Nomcebo R. Ubisi, Unathi Kolasini and Obert Jiri:</b> <i>Smallholder farmers' Perceptions Towards Climate Change Interventions in Limpopo Province</i>	
9.40-10.00	<b>Cornelius Okello, Marco Antonellini, Nicolas Greggio, Nina Wambiji:</b> <i>Freshwater Resources Characterization and Vulnerability to Climate Change of the Shela Aquifer in Lamu, Kenya</i>	
10.00-10.20	<b>Peter Kinyae Musyimi:</b> <i>Assessment of Suitability of Adaptation Strategies to Water Scarcity in Makindu Sub-County, Kenya.</i>	
10.20-10.40	<b>Damaris Muthusi, Robert Arasa:</b> <i>Right to Food and Sustainable Livelihoods: A Case of Pastorlist Communities in Isiolo County, Kenya</i>	
10.40-11.00	<b>Paul Otieno Opee, James Obara &amp; Jacob J.J.O Konyang'</b> <i>Influence of Cluster Group Extension Approach on Cotton Production among Smallholder Farmers in Bura Irrigation and Settlement Scheme, Kenya.</i>	
11.00-11.20	<b>Ruth Kundu &amp; Marther Ngigi:</b> <i>Factors Affecting Performance of Agricultural Value Chains: The Case of Small Scale Coffee Marketing in Kangundo</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
11.30-11.50	<b>MG Kariaga, Onamu, R. Wakhungu' J. and Were' K. Hassan:</b> <i>Reaction of Rice Blast Pyriculariaoryzae CAV. Isolates on a set of improved rice varieties in Western Kenya indicator to presence of pathogenic strains</i>	
11.50-12.10	<b>Daniel MaghanjoMwamidi, Joan Gabriel Renom, Álvaro Fernández-Llamazares, Daniel Burgas, Pablo Domínguez &amp; Mar Cabeza:</b> <i>Contemporary Pastoral commons in East Africa: A case study among the Daasanach Community of Ileret in Marsabit County, North Kenya.</i>	

**SUB-THEME: TRANSFORMATIVE DEVELOPMENT THROUGH LANGUAGE, CULTURE AND COMMUNICATION TECHNOLOGY**

<b>DAY 1: TUESDAY 17<sup>th</sup> APRIL 2018: CONFERENCE PRESENTATION SESSIONS</b> <b>VENUE: KOMA HALL</b>		
<b>Time</b>	<b>Title</b>	<b>In-Charge</b>
2.00-2.20	<b>Chipanda Serikal Simon &amp; Hilda Pembe:</b> <i>A complexity of Swahili Pairwise of Verbal Extensions: Algorithmic Approach</i>	Dr. Vifu Makoti (Rapporteur)  Binyanya Ruth (Rapporteur)
2.20-2.40	<b>Binyanya Ruth and M. A Sirengo:</b> <i>Kiswahili na Familia za Mitaani: Nafasi ya kekatika Maendeleo ya Taifa la Kenya</i>	
2.40-3.00	<b>Vifu Makoti:</b> <i>Mchangowa Kiswahili Katika Maendeleo Nchini Kenya</i>	
3.00-3.20	<b>John M. Kobia:</b> <i>Itikadiza Kisiwa Katika Vitabu Teule vya Fasihi ya Watoto ya Kiswahili</i>	
3.20-3.40	<b>John Musyoka, Mutua, Gerald Okioma Mogere, Justus Kyalo Muusya:</b> <i>Taswira Yagereza Katika Riwayaya Hainaya Adam Shafi: Uhakikiwaki- Foucault</i>	
3.40-4.00	<b>Health Break and Departure</b>	
4.00-4.20	<b>Ombito Elizabeth Khalili:</b> <i>Uimarishwaj iwa Umaizi Mseto Kupitia Mikakati Shirikishiya Ufundishajiwa Kiswahili</i>	
4.30-5.00	<b>HEALTH BREAK</b>	
<b>DAY 2: WEDNESDAY, 18<sup>TH</sup> APRIL 2018 CONFERENCE PRESENTATION SESSIONS</b> <b>VENUE: KOMA HALL</b>		
8:00-9.00	Arrival, Registration and Entertainment	Secretariat
<b>GUEST SPEAKER: Prof. Mugendi M'Rithaa</b> (Cape Peninsula University of Technology)		
<b>Time</b>	<b>Presenter</b>	<b>In-Charge</b>
9.00-9.30	<b>Mugendi M'Rithaa:</b> <i>An Afrikan Perspective on Socially Conscious Design</i>	Dr. Larry Ndivo



9.30-10.00	<b>Plenary</b>	(Chair) Ann Mutua (Rapporteur)
10.00-10.20	<b>Nicholas Anyuor:</b> <i>Political Unrest: Cause of Terrorist Radicalization in Kenya</i>	
10.20-10.40	<b>Mmbwanga Florence &amp; Everlyne Simiyu:</b> <i>Effect of Culture on Language used in Communication Technology by University students.</i>	
10.40-11.00	<b>Geoffrey Maroko:</b> <i>The Communication Skills Course: What Skills and For Which Future?</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
11.30-11.50	<b>Omolasoye Adesoye:</b> <i>Ofo Genre: Litmus for Yoruba Science and Technology</i>	Dr. Alex Kamwaria (Chair) Florence Mmbwanga (Rapporteur)
11.50-12.10	<b>Nicholus Anyuor &amp; Barasa Asanta Brigit:</b> <i>Role of Vernacular Radio in the Kenya's Devolved Governments (A case of Radio Ramogi in Nyatike sub County, Migori County)</i>	
12.10-12.30	<b>Juliana Achieng Oswago:</b> <i>Use of Computer Assisted English Language Teaching in Private Intermediate Schools in Borama, Somaliland.</i>	
12.30-12.50	<b>Joseph Hokororo Ismail:</b> <i>An Investigation of English Academic Writing errors encountered by Certificate in Law Students in selected Tanzanian Institutions Offering Law Programme</i>	
12.50-1.10	<b>Larry Ndivo:</b> <i>Indigenous Languages as Cultural Repositories: A Case of The Waata and Munyoyaya Communities</i>	
1.00-2.00	<b>LUNCH BREAK</b>	
2.00-2.20	<b>Jane Kieru &amp; Lucy W. Ngige:</b> <i>Socio-Demographic Characteristics and their Influence on Self-Efficacy in HIV Prevention among PLWHA in Kiambu County, Kenya.</i>	<b>Dr. Geoffrey Maroko</b> (Chair)  <b>Dr. Larry Ndivo</b> (Rapporteur)
2.20-2.40	<b>Wanjiru B.N, Koech &amp; Muthiani:</b> <i>Relationship Between Gender and the use of Indigenous Knowledge Systems in Conservation of Nuu Hill Forest.</i>	
2.40-3.00	<b>Jean Pierre Nikuze:</b> <i>After Negative Ethnicity: The of Voting in Kenya</i>	
3.00-3.20	<b>Daniel NjaneThuo &amp; Veronica Nyaga:</b> <i>Students' Knowledge of HIV/AIDS and their Attitude Towards Sexual Behaviour. A Comparative Study of Form 1 and Form 4 Secondary school students in Coast region.</i>	

3.20-3.40	<b>Anderson Mwito, Jane N. Kieru:</b> <i>Influence of Men's perception on contraceptive uptake in Maua Division, Meru county, Kenya</i>	
3.40-4.00	<b>Emmanuel Mutungi:</b> <i>Indigenous Knowledge and Transformative development: Using proverbs and taboos as development reminders in Africa</i>	
4.00-4.20	<b>Emmah Matheka, Mutune Peter:</b> <i>Quality of life and its determinants among people living with HIV/AIDS from Kangundo subcounty Hospital Comprehensive Care Clinic</i>	
4.30-5.00	<b>HEALTH BREAK</b>	
<b>DAY 3: THURSDAY, 19<sup>TH</sup> APRIL, 2018: GROUP A. VENUE: PL5</b>		
9.00-9.20	<b>Everlyne Etakwa-Simiyu &amp; Florence Mmbwanga:</b> <i>The Role of Culture in Communication</i>	<b>Dr. Jane M. Ombati</b> (Maasai Mara University) (Chair)  Dr. Alex Kamwaria (Rapporteur)
9.20-9.40	<b>Sophia Njeru:</b> <i>Advancing African Indigenous Sustainable Practices for Transformative Development: The case of Mau Ogiek people, Kenya</i>	
9.40-10.00	<b>Fellis Nthambi Mutune:</b> <i>An Evaluation of the Inaugural speech made by His Excellence the Presidency of Kenya on the 28<sup>th</sup> November 2017</i>	
10.00-10.20	<b>Lilac Osanjo:</b> <i>Development of emblems for Longevity for County Governments in Kenya</i>	
10.20-10.40	<b>Mutawalli Alhaji Sule:</b> <i>Assessment of ECOWAS Free Movement Protocol in Promoting Regional Growth and Development in West Africa</i>	
10.40-11.00	<b>Ibrahim Ghide Adamu:</b> <i>Niger-delta crisis: Its causes and Effects on the Socio-economic life of the People of Ogoni, Rivers state, Nigeria</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
<b>DAY 3: THURSDAY, 19<sup>TH</sup> APRIL, 2018: GROUP B. VENUE: PL2</b>		
9.20-9.40	<b>Geoffrey Maroko:</b> <i>Sustainable Development Goals: Windows of Opportunity for Applied Linguists?</i>	Dr. Sophia Njeru (Chair)  Brenda Wambua (Rapporteur)
9.40-10.00	<b>Ann K. Orangi &amp; Millicent Kimemia:</b> <i>Determiners of Demographic Segmentation on Consumer of Choice of Ready to Wear Clothes in Kenya</i>	
10.00-10.20	<b>Brenda M. Wambua:</b> <i>Effects of University Students' Use of Social Media Technologies on their Academic Writing</i>	
10.20-10.40	<b>Colletta Ruth Matayo:</b> <i>Empowering Communities Through Fashion Design; The Case of Ubuntu, MaaiMahiu Kenya</i>	
10.40-11.00	<b>Charles K. Moywaywa:</b> <i>Reconstructing Masculinity through Language, Culture and Communication Technology.</i>	

11.00-11.20	<b>Antony Njeru, Dr. Pamela Muriungi &amp; Dr. John Ngige:</b> <i>Cultural and Religious Factors Hindering Guardians of Children with Clubfoot from Seeking Corrective Services in Embu Clubfoot Care for Kenya Clinic.</i>	
<b>DAY 3: THURSDAY, 19<sup>TH</sup> APRIL, 2018: GROUP C. VENUE:PL3</b>		
9.20-9.40	<b>Jane M. Ombati:</b> <i>A comparison of Descriptive English Compositions of Visually Impaired and Sighted Students in Kenyan Secondary Schools</i>	
9.40-10.00	<b>Ong'eta Wycliffe Mose:</b> <i>Culture, Peace and Development: The Case Study of West Pokot County, Kenya</i>	Dr. Larry Ndivo (Chair)
10.00-10.20	<b>Chipanda Serikal Simon:</b> <i>The Proposition for Morph Ordering Elegance in Bantu Languages: The Case of Polymorphic Verbs</i>	Evelyne Etakwa Simiyu (Rapporteur)
10.20-10.40	<b>Pamela Aliviza Kerre:</b> <i>An Evaluation of the Influence of Culture on Poverty: A Comparative Study of The Bukusu and Kikuyu Communities in Bungoma County, Kenya</i>	
10.40-11.00	<b>Susan Mwangi:</b> <i>The Role of Vernacular Radio Stations in Peace Building and Post-Conflict Reconstruction Initiatives in Kenya</i>	
11.00-11.20	<b>Otieno Millicent Awuor:</b> <i>Gender Information Sources of Communication for Development: A Study of Migori County Government, Kenya.</i>	
<b>DAY 3: THURSDAY, 19<sup>TH</sup> APRIL 2018: GROUP D. VENUE:PL4</b>		
9.20-9.40	<b>Sunday Rhodest Adong and Emmanuel Mutungi:</b> <i>The Old Wine in the New Skin: Integrating Acholi Ritual Pots in Contemporary Space</i>	Dr. Geoffrey Maroko (Chair)
9.40-10.00	<b>Joseph Murithi Jessee:</b> <i>Translated Kiswahili Texts: A Case Study of Kithaka Wamberia's Texts</i>	Muktar Ahmed (Rapporteur)
10.00-10.20	<b>Mutungi Emmanuel and Arinaitwe Nkiziibweki:</b> <i>Rooted in Culture, Manifested in Contemporary Designs: Developing Bridal Adornments with Designs Inspired by Ankole Motifs</i>	
10.20-10.40	<b>Muktar Ahmed:</b> <i>A Study of Maasai Jewelry and Fulani Textile Material Culture Used in Selected Rites of Passage for Sustainable Development</i>	
10.40-11.00	<b>Paul Kombo:</b> <i>An Inquiry into Youth Innovativeness in radicalization and Extremism: The Case of the Recent Manchester City Bombing and Al-Shabaab Activity in Kenya</i>	
11.00-11.20	<b>Dr. Linnet Hamasi, PhD:</b> <i>Women, Entrepreneurial Market Networks and Development in Kenya: Focus on ElgeyoMarakwet County</i>	

**SUB-THEME: INNOVATIVE APPROACHES TO EDUCATION AND TRAINING FOR SUSTAINABLE DEVELOPMENT**

<b>DAY 1: TUESDAY 17<sup>th</sup> APRIL 2018: CONFERENCE PRESENTATION SESSIONS</b> <b>VENUE: VOI HALL</b>		
<b>Time</b>	<b>PRESENTATION</b>	<b>In-Charge</b>
2.00-2.20	<b>Ndiritu Chiuri:</b> <i>Fostering Distributed Leadership Practices in a Teachers College: Innovative Approach for Increasing Teacher Organizational Commitment</i>	Prof. James Muola  (Chair)  Dr. Pamela Muriungi (Rapporteur)
2.20-2.40	<b>Christopher K. Yegon:</b> <i>Innovative Approaches to Education and Training for Sustainable Development</i>	
2.40-3.00	<b>Romano Okwi Elingit:</b> <i>Assessment of Secondary School Students Options Towards Pursuing Agriculture Related Courses at Post-Secondary Institution A Case of Secondary Schools in Teso South Sub County</i>	
3.00-3.20	<b>Dr. Selpher K. Cheloti and Dr. Redempta Maithya:</b> <i>Application of Computer Skills in Teaching and Learning in Kenya; A case of Public Secondary Schools in Machakos Sub-County</i>	
3.20-3.40	<b>Jemimah Muchai:</b> <i>An Investigation into Factors that Contribute to Cheating in Examinations in Technical Institutions in Central Province, Kenya</i>	
3.40-4.00	<b>Malah Kachallah:</b> <i>The Impact of Management Staff Members on Motivation and Student Attainment: A case study of Yobe State Polytechnic, Geidam, Nigeria</i>	
4.00-4.20	<b>Yahya Umar Magaji:</b> <i>Using Path to Determining Parental Involvement on child Academic Performance for Sustainable Development in Nigeria</i>	
4.30-5.00	<b>HEALTH BREAK</b>	

DAY 2: WEDNESDAY, 18 <sup>TH</sup> APRIL, 2018		
8:00-9.00	Arrival, Registration and Entertainment	
GUEST SPEAKER: Prof. Donald Kisilu Kombo. VENUE: VOI HALL		
Time	PRESENTATION	In-Charge
9.00-9.30	Prof. Donald Kisilu Kombo: <i>Innovative Domains in Competency Learning: Theories and Models</i>	Prof. James Muola (Chair) Dr. David Mulwa (Rapporteur)
9.30-10.00	Plenary	
10.00-10.20	Joyce Agalo: <i>Preparing Faculty for Utilization of Innovative Approaches in Digitalized Teaching and Learning Environments</i>	
10.20-10.40	Babagana Ali Dapshima: <i>Impact of Supervision on the Management of Secondary School in Maiduguri Metropolitan Council Borno State</i>	
10.40-11.00	Nur Adam Imam: <i>Strengthening the Standard of Biology Teacher in Secondary Schools</i>	
11.00-11.30	HEALTH BREAK	
11.30-11.50	Joshua Kipkorir Cheruyoit: <i>Influence of School Category on Students' Choice of Agriculture Subject in Secondary Schools in Nakuru County, Kenya</i>	
11.50-12.10	Obondo Gaudence: <i>Effects of Hypermedia on Learning Achievement in Geography for Hearing Impaired Learners in Mixed Secondary Schools in Kenya.</i>	
12.10-12.30	Joseph Hokororo Ismail: <i>Assessment and Relevance of English Communication Skills Syllabus of Diploma in Law Programme in Tanzania: Does it Bring Competency Based Education and Training as Expected?</i>	
12.30-12.50	Omari Hassan Kinyua: <i>Transforming Madrasa Education for Sustainable Development</i>	
12.50-1.00	Rose KaindiMueni, Redempta Maithya: <i>Family Size ndBoy-Child Drop Out Rate In Public Day Secondary Schools In Makueni County, Kenya</i>	Katherine Fulgence, Tanzania (Chair)
1.00-2.00	LUNCH BREAK	
2.00-2.20	Wycliffe Amukowa & Sahaya G. Selvam: <i>Implications of Character Strengths for University Education in the Light of Call for Innovation and Entrepreneurship Domains</i>	
2.20-2.40	Gilbert Nyakundi Okebiro& Irene Moraa Ongwesa: <i>Innovative Approaches to Higher Education and Training for Sustainable Quality and Standardization of University Education for Sustainable Development in Kenya</i>	

2.40-3.00	<b>Muriu Stephen Macharia:</b> <i>Reengineering Mass Careers Through Technical Vocational Education Training in Kenya</i>	Jemimah Muchai  (Rapporteur)
3.00-3.20	<b>Katherine Fulgence:</b> <i>Relevance of Entrepreneurship Education for Teachers and Teacher Curriculum</i>	
3.20-3.40	<b>Oluwasesan Adebusuyi Ojo:</b> <i>Impact of Web-Based Solutions on Student Related Services: Case Study of the University of Maiduguri Borno State, Nigeria.</i>	
3.40-4.00	<b>Titus O. Pacho:</b> <i>Global Citizenship Education and Sustainable Development</i>	
4.30-5.00	<b>HEALTH BREAK</b>	
<b>DAY 3: THURSDAY,19<sup>TH</sup> APRIL, 2018: GROUP A: VENUE: VOI HALL</b>		
9.00-9.20	<b>Areba George Ngwacho:</b> <i>Management of Co-Curricular Activities and Its Implications in Quality Education in Public Secondary Schools in Kisii County, Kenya</i>	Dr. David Mulwa (Chair)
9.20-9.40	<b>Maurice kibet Kimosop:</b> <i>Empirical Assessment of Demographic Factors Influencing Organizational Commitment in Secondary Schools in Kenya</i>	Dr. Maurice Kimosop (Rapporteur)
9.40-10.00	<b>James Muola and Wycliffe Amukowa:</b> <i>The Virtue of Academic Integrity: Prevalence, Antecedents and Intervention Measures</i>	
10.00-10.20	<b>David M. Mulwa:</b> <i>The Journey Towards Enhanced Quality of Basic Education in Kenya: Challenges and Policy Suggestions</i>	
10.20-10.40	<b>Njiiri Joyce:</b> <i>Effects of learners’ Attitude, Gender and School type on English Language Performance: A case study of Thika West District</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
<b>DAY 3: THURSDAY, 19<sup>TH</sup> APRIL 2018: GROUP B: VENUE: MARUBA HALL</b>		
<b>Time</b>	<b>PRESENTATION</b>	<b>In-Charge</b>
9.00-9.20	<b>Mohammed Zannan Malilima:</b> <i>The Impact of Pre-Service Teacher’s Awareness of Bio-Entetreprenurial Skills, as a Pancea for Reducing Unemployment among Biology Graduates in Borno State, Nigeria.</i>	Dr. Richard Kimiti(Chair)
9.20-9.40	<b>Orucho M. Ngala:</b> <i>Higher Education Curriculum Orientation and Performance of University in Kenya: Industry Linkages Strategies</i>	Dr. Francis Mutua (Rapporteur)
9.40-10.00	<b>Onyango Daniel Oduor:</b> <i>The Impact of Parents and Community Support on Primary Schools’ Pupils Academic Achievement in Siayaand Kisumu Counties, Kenya</i>	

10.00-10.20	<b>Beatrice Abisaki Mbune &amp; Wycliffe Amukowa:</b> <i>Innovation Diffusion in Kenya's Online Examination Registration Practices: Implications and Challenges</i>	
10.20-10.40	<b>Andrew Itodo:</b> <i>The Need for ICT in Adult Education for Socio-Economic Development in Maiduguri, Borno State</i>	
10.40-11.00	<b>Yusuf Bakari:</b> <i>Influence of Cultural Practices on Girl-Child Participation in Secondary School Education in Adamawa State, Nigeria</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
<b>DAY 3 THURSDAY, 19<sup>TH</sup> APRIL 2018: GROUP C. VENUE: KOMA HALL</b>		
9.00-9.20	<b>Josphat Mboya Kiweu:</b> <i>The Relationship between Learning Approaches and Students' Academic Performance</i>	Dr. Pamela Muriungi (Chair) Dr. Peter Koech (Rapporteur)
9.20-9.40	<b>Motanya, Jared Ochwangi:</b> <i>Harnessing Innovative Opportunities in Higher Education towards Achieving Sustainable Development in Africa</i>	
9.40-10.00	<b>Veronica Munanie Mutinda:</b> <i>Preparedness and Attitude of Student Teachers Towards Teaching in Mother Tongue in Kenyan Primary School: Affecting Planning and Material Development</i>	
10.00-10.20	<b>Johannes Njagi Njoka &amp; Mr. Perminus Githui:</b> <i>Harnessing Educational Technology to Stimulate Critical Thinking among Secondary School Learners for Sustainable Development in Kenya</i>	
10.20-10.40	<b>Kimiti Richard Peter &amp; Erick O. Muok:</b> <i>The Doomed Future: An Analysis of the Impact of 'Muguka' Abuse on University Students' Academic Performance: A Case of Machakos And Kitui Counties, Kenya</i>	
10.40-11.00	<b>Jacob JJ Konyango:</b> <i>Challenges to Curriculum Reforms: Secondary School Agriculture in Kenya: 1959-2016</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
<b>DAY 3 THURSDAY, 19<sup>TH</sup> APRIL 2018: GROUP D. VENUE: CONFERENCE ROOM 1</b>		
9.00-9.20	<b>Kang'ara Hannah Wanjiku &amp; Peter Kibet Koech:</b> <i>Influence of Teachers' Instructional Practices: Collaborative Activities in Preschool Teaching and Learning in Kiambu West Sub-County; Kenya.</i>	Dr. Francis Mutua (Chair)  Dr. Johannes Njagi. (Rapporteur)
9.20-9.40	<b>Muia L.</b> <i>Towards Sustainable University Education in Kenya</i>	
9.40-10.00	<b>Richard Kimiti &amp; Marieta Mulinge:</b> <i>Moderating the Challenges Faced in the Provision of Laboratory Resources for Science Subjects: A Spotlight Public Secondary Schools in Machakos Sub- County Kenya</i>	

10.00-10.20	<b>OtuloWandera Cyril:</b> <i>Mean Effects of Service-Learning as an Innovative Approach to Education and Societal Development</i>	
10.40-11.00	<b>Kiamba Elizabeth Welu and Dr. Mutua Francis:</b> <i>Effect of Teacher Preparedness on Academic Achievement of Kiswahili Language in Public Secondary Schools in Kathonzweni Sub-County, Makueni, Kenya</i>	
11.00-11.30	<b>HEALTH BREAK</b>	

**SUB-THEME: BUSINESS AND INNOVATIVE APPROACHES FOR SMALL & MEDIUM ENTERPRISE DEVELOPMENT**

DAY 1: TUESDAY 17 <sup>th</sup> APRIL 2018: CONFERENCE PRESENTATION SESSIONS		
VENUE: ILUVYA HALL		
Time	PRESENTATION	In-Charge
2.00-2.20	<b>George Mungiria Muthaa:</b> <i>Effect of Strategic Direction on the Performance of Technical Training Institutions in Meru County, Kenya</i>	PProf. Robert Arasa (Chair)  Margaret Musyoka (Rapporteur)
2.20-2.40	<b>Duncan shirandula and Stella Mwawaza:</b> <i>A Review of Drivers of Technology Adoption and Effects on the Performance of Hospitality Industry in Kenya</i>	
2.40-3.00	<b>Odeny Jane Akinyi and Duncan Shirandula:</b> <i>Role of Supply Chain Management Practices on Environmental in Classified Hotels in Mombasa County, Kenya</i>	
3.20-3.40	<b>Agnes Mutiso:</b> <i>Management Commitment and the Extent of Sustainability Reporting Among Companies Listed on Nairobi Securities Exchange in Kenya</i>	
3.40 -4.00	<b>Sylvia N. Kiamba:</b> <i>Improved and Increased Livelihood Options: A Case Study of Skills and Development Training for Youths in Jubba Land, Somalia.</i>	
4.00-4.20	<b>Marcel Maré &amp; Mugendi M'rithaa:</b> <i>Advancing A Clean Cookstove Culture in Sub-Saharan Africa: The Transformative Power of Afrikan Innovation</i>	
4.30-5.00	<b>TEA BREAK</b>	

DAY 2: WEDNESDAY, 18 <sup>TH</sup> APRIL 2018: VENUE: ILUVYA HALL		
8:00-9.00	Arrival, Registration and Entertainment	Secretariat
GUEST SPEAKER: Prof. SimmyMarwa (Dedan Kimathi University of Technology)		
9.00-9.30	<b>Prof. SimmyMarwa</b> <i>Business and Innovative Approaches for Small &amp;Medium Enterprise Development</i>	Prof. Charles Ombuki Dr.Jacinta Kinyili (Rapporteur)
9.30-10.00	<b>Plenary</b>	
10.00-10.20	<b>Sedina Misango:</b> <i>Does Innovative use of Social Media Training Enhance Business Growth? A Case of Subira Self Help Group, Nairobi</i>	
10.20-10.40	<b>Dominic Njue, Benson Kipkemboi Kenduiywo:</b> <i>Geospatial Technologies for Sustainable Development</i>	
10.40-11.00	<b>Nyalita Angela Mwikali:</b> <i>Family Business Succession Planning, Entrepreneneurial Orientation and Firm Performance among Small and Medium Enterprises</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
11.30-11.50	<b>Hammanjoda, Kabiru:</b> <i>Service Quality Delivery and Customers' Satisfaction in Nigeria Banking Industry</i>	Prof. Robert Arasa (Chair) Margaret Musyoka (Rapporteur)
11.50-12.10	<b>James N Ndegwa:</b> <i>Determinants of Property Prices in Gated Communities in Nairobi City of Kenya</i>	
12.10-12.30	<b>Josephat Mboya Kiweu:</b> <i>Mergers and Acquisitions in the Kenyan Banking Sector: Do Shareholders Stand to Benefit?</i>	
12.30-12.50	<b>Miriti Jane Kinya&amp; Augustine Maswili:</b> <i>Financing Models for Upgrading Mango Value Chain in Kenya. A Case Study of Eastern Province.</i>	
12.50-1.00	<b>Pollyne Mbithe Mutunga:</b> <i>Impact of Women Groups Table Banking Initiative on The Socio-Economic Status of Households in Machakos County.</i>	
1.00-2.00	<b>LUNCH BREAK</b>	
2.00-2.20	<b>Muiya, M. K:</b> <i>Sustainable Design approaches for Handicraft Community Development in Machakos County.</i>	Dr. Nyalita Angela Mwikali (Chair)  Evans Mogeni (Rapporteur)
2.20-2.40	<b>Rahab Karari:</b> <i>Entrepreneurship Education and Eco-Preneurship Innovations as Change Agents for Environmental Problems</i>	
2.40-3.00	<b>Salome Musau, Stephen Muathe&amp; Lucy Mwangi:</b> <i>Financial Inclusion and Stability of Commercial Banks in Kenya: Synergies and Trade-offs</i>	

3.00-3.20	<b>Joy Minyenya:</b> <i>Secrets to Success in Informal Sector Financial Compliance: Utilizing New Technological Applications for Improved Community Health Program Efficiency and Effectiveness</i>	
3.20-3.40	<b>Mercy Wanjiku Wambui:</b> <i>Assessing Factors Influencing Adoption of Livestock Insurance by Dairy Farmers in Githunguri, Kiambu County.</i>	
3.40-4.00	<b>Mosoti Cynthia Kerubo:</b> <i>Factors Affecting Marketing of Broilers by Small Scale Farmers in Nairobi County</i>	
4.00-4.20	<b>Paulson Letsholo, Richie Moalosi &amp; Olefile B. Molwane:</b> <i>Developing the Furniture Design and Manufacture industry in Botswana – A Design Thinking approach</i>	
4.30-5.00	<b>HEALTH BREAK</b>	
<b>DAY 3: THURSDAY 19<sup>TH</sup> APRIL, 2018. VENUE: ILUVYA HALL</b>		
<b>Time</b>	<b>PRESENTATION</b>	<b>In-Charge</b>
9.00-9:20	<b>Falusi Olamide:</b> <i>Nigerian Plant Resources, An Incredible Generosity with an Incredible Responsibility</i>	Prof. Josephat Kiweu (Chair)  Evans Mogeini (Rapporteur)
9.20-9.40	<b>Gichunge C, Mutiso D:</b> <i>Predictors of Social Support, Physical and Mental Health among Food Insecure Internally Displaced Persons in Turkana, Kenya</i>	
9.40-10.00	<b>Jacob Gichimu, Mary Adam, Fanice Nyatigo:</b> <i>A Social; Enterprise for better Maternal Health Services through Mobile Messages Automated-System, A Pilot Study in AIC Kijabe Hospital, Kiambu County</i>	
10.00-10.20	<b>Sangoro Oscar:</b> <i>MFI Financial Sustainability on the Realization of Economic Pillar of Vision 20130: A Case of Kakamega County</i>	
10.20-10.40	<b>Donald Samuel Ijaka:</b> <i>Factors Affecting Adoption of Mobile Phone Based Technologies by Women Farmers in Machakos Sub-county, Machakos County, Kenya</i>	
10.40-11.00	<b>Lydia Nanjala, Muganda Munir Manini and Umulkher Ali Abdillahi:</b> <i>Accounting control Practices and Financial Performance of Small and Medium Enterprises in Eldoret Town, Kenya</i>	
11.00-11.20	<b>Dr. Jacinta M. Kinyili:</b> <i>Role of Remuneration Practices on the Retention of Employees in Public Health Institutions in Machakos County, Kenya</i>	
11.00-11.30	<b>HEALTH BREAK</b>	

**SUB-THEME: SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS AND  
INNOVATION FOR INDUSTRIAL TRANSFORMATION**

<b>DAY 1: TUESDAY 17<sup>th</sup> APRIL 2018: CONFERENCE PRESENTATION SESSIONS</b>		
<b>VENUE: KILIMAMBOGO HALL</b>		
<b>Time</b>	<b>PRESENTATION</b>	<b>In-Charge</b>
2.00-2.20	<b>Stephen Mailu:</b> <i>Electrochemical Determination of Highly Carcinogenic Hydrazine in Waste water</i>	Dr. Veronica Okello (Chair)  Dr. Elizabeth Ndunda (Rapporteur)
2.20-2.40	<b>Otieno Kevin Okoth:</b> <i>Facile Fabrication of an Ultrasensitive PEC Aptasensor for Diclofenac based on Graphene-Doped Cds And Gold Nanoparticles</i>	
2.40-3.00	<b>C.O. Muga, W. Zhang:</b> <i>Effects of Thermos- Mechanical Treatments on Mg-14Li-3Al-3Ce Quarternary Alloy</i>	
3.00-3.20	<b>Mary A. Opiyo, James Jumbe, Charles C. Ngugi, Harrison Charo- Karisa:</b> <i>Effects of Different Levels of Commercial Probiotics on Growth Performance, Survival and Carcass Composition of Nile Tilapia Reared in Cages in Low Input Ponds</i>	
3.20-3.40	<b>Domitila Kyule- Muendo, Simon W. Mburu, Antony Kebira Nyamache, Ezekiel Mugendi Njeru, John Mwangi:</b> <i>Knowledge and Perceptions of Fish Handlers on Risk Factors Associated with Contamination and Spillage of Fish and Fish Products in Kirinyaga County</i>	
3.40- 4.00	<b>Japhet Kiragu, Peter Wagate, David Rutere:</b> <i>Revised Protocol for the Evaluation of the Efficacy of Insect Pest Control Products using Bioassays in Kenya</i>	
4.00-4.20	<b>Julius Kioko Nzeve, Esther Chepkoech Kitur &amp; Steven Gichuki Njuguna:</b> <i>Bioaccumulation of Heavy Metals in Common Carp (Cyprinus Carpio) from Masinga dam, Kenya</i>	
4.30-5.00	<b>HEALTH BREAK</b>	

DAY 2: WEDNESDAY, 18 <sup>TH</sup> APRIL, 2018. VENUE: KILIMAMBOGO HALL		
8:00-9.00	Arrival, Registration and Entertainment	Secretariat
GUEST SPEAKER: Prof. Birhanu. F.Dejene (Free Town State University- South Africa)		
9.00-9.30	Prof. Birhanu F. Dejene: <i>Green Energy Sources as Solutions for Sustainable Energy for The Past, Present and Future through Community Engagement</i>	Dr. Charles Mwaniki (Chair)
9.30-10.00	Plenary	Dr. David Wekesa (Rapporteur)
DAY 2: WEDNESDAY, 19 <sup>TH</sup> APRIL 2018: GROUP A. VENUE: KILIMAMBOGO HALL		
Time	PRESENTATION	In-Charge
10.00-10.20	Suleman Nasiru, Peter N. Mwita, Oscar Ngesa: <i>Exponentiated Generalized Geometric Burr Iii Distribution</i>	Dr. Mark Kimathi (Chair)
10.20-10.40	Martin M. Kasina: <i>Modelling the Plurotusostreatus Optimum Production Using Simplex Centroid Design</i>	Dr.Euna Nyarige (Rapporteur)
10.40-11.00	Chamuchi N.M., Johana K. Sigey, Kang’ethe G.: <i>Mathematical Modelling and Analysis of HIV/AIDS and Transmission Dynamics Influenced by Public Health Education Campaign</i>	
11.00-11.30	HEALTH BREAK	
11.30-11.50	Cyprian Omari, Peter Mwita& Antony Waititu: <i>Estimating Portfolio Risk using GARCH-EVT-Copula Model: An Empirical Study on Currency Exchange Rate Market</i>	Dr. Mark Kimathi (Chair)
11.50-12.10	Euna Gesare Nyarige, Jürgen Franke and Alexander Fischer: <i>On Changepoint Detection in a Series of Stimulus-Response Data</i>	Dr.Euna Nyarige (Rapporteur)
12.10-12.30	Irene W. Irungu, Peter N. Mwita & Antony G. Waititu: <i>Consistency of the Manhattan Distance for Model Order Change-Point Detection in Garch Models</i>	
12.30-12.50	Kenfac Dongmezo Paul Brice, Peter N. Mwita & KamgaTchwaket Ignace Roger: <i>Performance of Imputation Methods towards Increasing Percentage of Missing Values</i>	
12.50-1.10	Victor Kemboi Tomno: <i>The Weakly Sign Symmetric <math>P_0</math> Matrix Completion Problem for Patterns of Digraphs of Order Two and Three</i>	

1.00-2.00	<b>LUNCH BREAK</b>	
2.00-2.20	<b>Ephraim Motaroki Menge, Ezekiel Mugendi Njeru &amp; John Maingi:</b> <i>Does Rhizobial Inoculation Functionality Vary with Host Plant Genotype? A Case Study of Common Bean Phaseolus Vulgaris L. Germplasms Grown by Smallholder Farmers in Eastern Kenya.</i>	Dr. Japhet Kiragu (Chair) Ruth Wanjiru (Rapporteur)
2.20-2.40	<b>Ruth Wanjiru Mwangi &amp; Coletta Ruth Matayo:</b> <i>Ecological Design of Recreation Centres for Environmental Conservation</i>	
2.40-3.00	<b>Alhaji Attahir Hussein:</b> <i>Innovative Approaches for Climate Change Mitigation in Transport institutions in Nigeria</i>	
3.00-3.20	<b>Stephano Adrian Karoza, Dedi Jusadi and Mohammad Agus Suprayudi:</b> <i>Utilization of Duckweed (Lemna minor) Meal for the Replacement of Soybean Meal in the Diet of Nile Tilapia (OreochromisNiloticus)</i>	
3.20-3.40	<b>Francis K. Musyoka and Raphael M. Wambua:</b> <i>Effect of Streamflow on Hydro-power Generation in the Upper Tana River Basin, Kenya</i>	
3.40-4.00	<b>Samuel Namu, Hannah Karuri &amp; Editah Njeri:</b> <i>Population Dynamics and Infestation Level of Root Knot Nematodes in Rainfed Upland and Irrigated Lowland Rice Cropping Systems in Kenya</i>	
<b>DAY 2: WEDNESDAY, 18<sup>TH</sup> APRIL 2018 GROUP B: VENUE: SEMINAR ROOM 2</b>		
<b>Time</b>	<b>PRESENTATION</b>	<b>In-Charge</b>
10.00-10.20	<b>David Wafula Wekesa, Kelvin Lodenyi&amp; Joseph Kamau:</b> <i>An Understanding of Turbulence in the Atmospheric Boundary Layer</i>	Dr. Stephen Mailu (Chair) Dr. Elizabeth Ndunda (Rapporteur)
10.20-10.40	<b>Grandawa M. M:</b> <i>Wastewater Disinfection by Titanium Dioxide (TIO<sub>2</sub>) Solar Photocatalysis</i>	
10.40-11.00	<b>Elizabeth Ndunda:</b> <i>Molecularly Imprinting: Promises and Challenges</i>	

11.00-11.30	<b>HEALTH BREAK</b>	
11.30-11.50	<b>D. A. Tonga:</b> <i>Path Loss Propagation Model Prediction for GSM Mobile Networks in Nigeria</i>	
11.50-12.10	<b>Charles Mwaniki &amp; Robert Joshua:</b> <i>Energy audit: A case study</i>	
12.10-12.30	<b>Mohammed Ahmad Abba Kaka &amp; Abdullateef Baba:</b> <i>Effective Utilization of OcimumTenuiflorumin Tropical Environment for Therapy and Reinforce the Importance of Eno-Botanical Approach as Potential Source of Bioactive Substances.</i>	
12.30-12.50	<b>Zannah Alhaji Ali, Ibrahim Ahmed, Hassan Laminu:</b> <i>Toward Industrialized Building System (IBS) Implementation in the Nigerian Construction Industry</i>	
12.50-1.10	<b>Christine N. Mutoro, Johnson Kinyua, Joseph Ng'ang'a, Daniel Kariuki, Johnson M. Ingonga, &amp; Chris O. Anjili:</b> <i>Combination therapy of Leishmania major infection using crude extracts of Solanum nigrum and Plumbago capensis</i>	
1.00-2.00	<b>LUNCH BREAK</b>	
2.00-2.20	<b>Nozipho Zungu, Dr Annette Vanonselen, Prof Unathi Kolanisi &amp; Muthulisi Siwela:</b> <i>Assessing the Nutritional Quality and Consumer Acceptability of Moringa Oleifera Leaf Powder (MOLP)-Based Snacks for Improved Children's Food and Nutrition Security</i>	Dr. Dr. Esther Nduku (Chair)  Dr. Patricia Mwendo (Rapporteur)
2.20-2.40	<b>Mugira E. K:</b> <i>Impacts of Intellectual Property Rights in Technology Advancements</i>	
3.20-3.40	<b>TP Kheswa, Dr CJ Du Preez:</b> <i>Undergraduate Food Product Innovation at University of Zululand: Shaping the Future</i>	
3.40-4.00	<b>Garba, G.J., Manga, S. S, &amp;Elizabeth, A, D.:</b> <i>Physicochemical and Bacteriological Analyses of Borehole Water in Kebbi State University of Science &amp; Technology Aliero (Ksusta), Kebbi State, North-Western Nigeria</i>	

4.00-4.20	<b>Isah, M. &amp;Manga, S. S.:</b> <i>Determination of Antibacterial Activity of Acacia Nilotica Wild. Acetone Extract Against Selected Multidrug Resistant Bacteria of Clinical</i>	
4.30-5.00	<b>HEALTH BREAK</b>	
<b>DAY 3: THURSDAY, 19<sup>TH</sup> APRIL 2018: GROUP A. VENUE: SEMINAR ROOM 1</b>		
9.00-9.20	<b>Hassan, L., Alhaji Attahir, H. &amp; Zannah Alh, A.:</b> <i>Effect of Fly Ash and Super plasticiser on the Hardening Properties of Self compacting concrete</i>	<b>Dr. George Waswa</b> (Chair) Benson Wangombe (Rapporteur)
9.20-9.40	<b>Adwek George, Shen Boxiong, Jiancheng Yang, Wang Jianqiao &amp; Cicilia Kemunto:</b> <i>Non-thermal plasma catalytic conversion of nitrogen oxide with CeO<sub>2</sub>/TiO<sub>2</sub></i>	
9.40-10.00	<b>Waswa G.W, Makhanu S.K &amp; Lorentz S.A:</b> <i>Hydrological Analyses of Intense-Rainfall Induced Shallow Landslides</i>	
10.00-10.20	<b>Jomy Joseph:</b> <i>For seeing regenerative futures: VR as a future foresight tool for industrial design</i>	
10.20-10.40	<b>William K. Ndungu &amp; Mark Kimathi:</b> <i>Effects of vehicles lane change manoeuvre on traffic breakdown and congestion in highways</i>	
10.40-11.00	<b>Waswa G.W&amp; Lorentz S.A:</b> <i>A Pressure Wave Theory for a Transient Drawdown in an Unconfined Aquifer</i>	
11.00-11.30	<b>HEALTH BREAK</b>	
<b>DAY 3: THURSDAY, 19<sup>TH</sup> APRIL 2018: GROUP B: VENUE: SEMINAR ROOM 2</b>		
<b>Time</b>	<b>PRESENTATION</b>	<b>In-Charge</b>
9.00-9.20	<b>Moses Ong’au Fred, Johana K. Sigey, Jeconiah A. Okelo:</b> <i>Mathematical Modeling of Delayed Pulse Vaccination of Infectious Diseases</i>	Dr. Charles Muli

9.20-9.40	<b>Ngesa Joel Ochola:</b> <i>Heat and Mass Transfer Past a Semi-Infinite Vertical Porous Plate in MHD Flows in Turbulent Boundary layer.</i>	(Chair) Mr. Martin Kasina (Rapporteur)
9.40-10.00	<b>Muthiga Samuel Ng'ang'a, Prof. Kinyanjui M. N., Dr. Roy Kiogora:</b> <i>Hydromagnetic Fluid Flow Past a Rotating Semi-Infinite Vertical Plate Considering Joule Heating</i>	
10.00-10.40	<b>Charles Muli:</b> <i>Signal Processing Via Mathematical Model using Fourier Transforms and Least Square Optimization Function.</i>	
10.40-11.00	<b>Umar Iliyasu, Muzzakkir M. Adamu:</b> <i>Integration of Photovoltaic Energy with Grid Distribution System</i>	
11.00-11.30	<b>HEALTH BREAK</b>	

## CLOSING CEREMONY: VENUE: KILIMAMBOGO HALL

Time	DAY 3: THURSDAY 17 <sup>th</sup> APRIL 2018	In-charge
11:30-12.00	Assembling and Arrival of Chief Guest	
12.00-1.00	<b>OFFICIAL CLOSING PROGRAMME</b>	
	❖ Remarks from Chair of the Conference Dr. Geoffrey Maroko	Secretariat
	❖ Closing Remarks by <b>Prof. Peter Mwita</b> (DVC-Research, Innovation and Linkages, Machakos University)	
	❖ Closing Address, <b>Prof. Lucy Irungu</b> (Vice-Chancellor, Machakos University)	
	<b>SPEECH AND OFFICIAL CLOSING OF THE CONFERENCE BY H.E. HON. GOVERNOR DR. ALFRED MUTUA, GOVERNOR OF MACHAKOS COUNTY</b>	
	<b>PHOTO SESSION</b>	
<b>1.00-2.00</b>	<b>Lunch Break</b>	
<b>2.00-5.00</b>	<b>Optional Trip to Silicon Savannah</b>	Dr. Larry Ndivo