

**7<sup>th</sup> JKUAT Scientific Conference 2012**  
**Programme Guide**

**Day One: Thursday 15<sup>th</sup> November 2012**

**OPENING CEREMONY**

**VENUE: AICAD Assembly Hall**

**MC: Prof. M. Obanda**

**Rapporteur: Dr. A. Kihurani**

<b>TIME</b>	<b>EVENT</b>	
08.00 - 09.00	Arrival and registration of participants (Secretariat)	
09.00 - 09.20	Opening remarks and invitation of the VC by the DVC-RPE, Prof. E. Kahangi	
09.20 - 09.40	Welcoming speech and invitation of Keynote speaker by the VC, Prof M. Imbuga	
09.40 - 10.10	Keynote address - Research in African perspective by the VC, Vanda University (SA), Prof. Peter Mbatia	
10.10 - 10.15	Invitation of chief guest by the VC, Prof. M. Imbuga	
10.15 - 10.45	Official opening speech – Minister for Higher Education Science and Technology, Hon Prof. M. Kamar	
10.45 - 11.10	TEA BREAK (photographs)	
11.10 - 11.30	Chief Guest visits and officially opens the exhibitions	
<b>PLENARY SESSION 1</b>		
<b>Chairperson: Dr. F. Wanzala</b>		
<b>Co-chair: Prof. N. Suzuki</b>		
<b>Rapporteur: C. Ngamau</b>		
<b>TIME</b>	<b>LEAD PAPERS</b>	<b>PRESENTERS</b>
11.30 -12.00	Innovative crop stress science for sustainable food production	<b>Prof. W. Sakamoto</b>
12.00 - 12.30	Recent developments in health sciences	<b>Prof. K. Njenga</b>
12.30 - 13.00	<b>DISCUSSION</b>	
13.00 - 14.00	<b>LUNCH BREAK</b>	
<b>PARALLEL SESSION (Sub theme 1)</b>		
<b>Sub theme 1: Basic and Applied Sciences for Advancement of Research and Industrialization</b>		
<b>Venue: Room 1</b>		
<b>Chairperson: Prof. G. Njoroge</b>		
<b>Co-chair: Dr. S. Ueki</b>		
<b>Rapporteur: Dr. R. Karanja</b>		
14.00 - 14.15	Partial nucleotide sequences of sweet potato leaf curl virus occurring in Kenya and its phylogenetic relationship with other members of Begomoviruses	<b>S. Maina</b> D. W Miano S. M Runo P. N Njiruh I. John E. Mbogo Monjero K. Juma
14.15 - 14.30	Molecular and culture based analyses of soil bacteria in Ngere Tea catchment area of	<b>E. N. Wafula</b> J. Kinyua

	Murang'a County, Kenya	D. Kariuki A. Muigai R. Mwirichia
14.30 - 14.45	Identification of soil nematodes in Ngere Tea catchment area of Murang'a County, Kenya	<b>T. K. Kibet</b> J. Kinyua E. G. Mamati J. Onguso D. Kariuki
14.45 - 15.00	Determination of mycotoxin contamination of cereal grains in Juja stores and poshomills	<b>C. K. Yegon</b> R. Waihenya
15.00 - 15.15	Effect of leaf crude extracts of <i>Tarhonianthus camphoratus</i> (Asteraceae), <i>Acalypha fruticosa</i> (Fabacea) and <i>Tagetes minuta</i> (Asteraceae) on fecundity of <i>Phlebotomus duboscqi</i>	<b>S. Mong'are</b> Z. Ng'ang'a R. Maranga Z. Osiemo P. Ngure P. Ngumbi W. Tonui
15.15 - 15.30	Velocity distributions and meander formation of river channels	<b>J. N. Kaguchwa</b> J. K. Kwanza P. W. Gathia
15.30 - 15.45	Phyto-chemical screening of wild types and tissue cultured yellow oleander <i>thevetia peruviana pers.k.schum</i> in Kenya	<b>P. Odhiambo</b> M. Makobe H. Boga A. Muigai M. Schumacher H. Kiesecker
15.45 - 16.00	Evaluation of gas exchange system for online monitoring of plant response	<b>U. N. Mutwiwa</b> H. J. Tantau U. Schmidt J. Max
16.00 - 16.15	<b>DISCUSSION</b>	
16.15 - 16.45	<b>TEA BREAK/POSTERS/EXHIBITIONS</b>	
17.30 - 20.30	<b>COCKTAIL DINNER- Safari Park Hotel</b>	
<b>PARALLEL SESSION (Sub theme 6)</b>		
<b>Sub theme 6: Harnessing Agricultural Potential for Food Security and Industrialization</b>		
<b>Venue: Room 2</b>		
<b>Chairperson: Prof. Y. Kubo</b>		
<b>Rapporteur: Dr. J. B. Njoroge</b>		
14.00 - 14.15	Grain yield response to plant population and nitrogen fertilizer in two maize varieties in the mid-altitude zone of Rwanda	<b>O. Tuyishime</b> B. Murenzi D. Rimenyande P. Y. K. Sallah
14.15 - 14.30	Production, optimization and characterization of mango fruit wine: towards value addition of mango produce	<b>S. M. Musyimi</b> E. M. Okoth D. N. Sila C. A. Onyango
14.30 - 14.45	Influence of nitrogen fertilisation and stage of maturity on iron levels of spider plant ( <i>Cleome gynandra</i> ).	<b>D. Kebwaro</b> C. A. Onyango K. Mutoroh P. W Masinde
14.45 - 15.00	Evaluation and selection of spiderplant ( <i>Cleome gynandra</i> L.) varieties suited for	<b>K. Mutoroh</b> D. Kebwaro

	production in Kenya	C. A. Onyango P. W Masinde
15.00 - 15.15	Comparative study on nutritional composition of the pumpkin ( <i>C. maxima</i> ) varieties in Eastern and Central Kenya	<b>K. J. Karanja</b> J. B. Mugendi M. F. Khamis N. A. Muchugi
15.15 - 15.30	Potential role of cereal-legume intercropping systems in smallholder farming systems of sub-Saharan Africa	<b>J. M. Matusso</b> J. N. Mugwe M. Mucheru-Muna
15.30 - 15.45	Effect of cultivar and stage of ripeness on chemical and nutritional characteristics of six mango cultivars commonly grown in Eastern Province of Kenya	<b>E. M. Okoth</b> D. N. Sila C. A. Onyango W. O. Owino F. M. Mathooko
15.45 - 16.00	Agronomic diversity among rice ( <i>Oryza sativa</i> L.) lines in a germplasm collection from Kenya	<b>J. K. Mwangi</b> M. Hunja E. M., Ateka A. B. Nyende
16.00 - 16.15	<b>DISCUSSION</b>	
16.15 - 16.45	<b>TEA BREAK/POSTERS/EXHIBITIONS</b>	
17.30 - 20.30	<b>COCKTAIL DINNER- Safari Park Hotel</b>	
<b>PARALLEL SESSION (Sub theme 5)</b> <b>Sub theme 5: Policy and Governance, Cultural and socio-economic aspects of Development</b> <b>Venue: Room 3</b> <b>Chairperson: Mr. P. Sichangi</b> <b>Rapporteur: Dr. J. Gathenya</b>		
14.00 - 14.15	Evaluation of safety culture maturity levels of the universities in Kenya	<b>P. M. Njeru</b> J. T. Mailutha E. Gatebe C. Mburu
14.15 - 14.30	The effects of board characteristics on microfinance institutions' social performance in Kenya	<b>S. M. Waithaka</b> R. Gakure K. Wanjau
14.30 - 14.45	Analysis of demand and supply of maize in Kilifi district: A cobweb model approach	<b>R. K. Koech</b> J. Olang'o J. Mwambi
14.45 - 15.00	Assessment of the effects of performance management practices on provision of financial services by savings and credit cooperative societies: a case of Gusii Mwalimu SACCO, Kisii Central District, Kenya	<b>A. Onsase</b> C. Okioga D. K. Okwena A. N. Ondieki
15.00 - 15.15	Change dilemma: A case of structural adjustment through devolution in Kenya	<b>A. O. Omari</b> S. N. Kaburi T. Sewe
15.15 - 15.30	Possible approaches to commercialisable university research in Kenya	<b>S. N Ondimu</b>
15.30 - 15.45	An analysis of the competitiveness of private colleges in Mombasa using Porters Five Forces Model	<b>U. J. M. Mzera</b>
15.45 - 16.15	<b>DISCUSSION</b>	
16.15 - 16.45	<b>TEA BREAK/POSTERS/EXHIBITIONS</b>	

17.30 - 20.30	<b>COCKTAIL DINNER- Safari Park Hotel</b>	
<b>PARALLEL SESSION (Sub theme 7)</b> <b>Sub theme 7: Water, Energy, Environment and Climatic Change</b> <b>Venue: Room 4</b> <b>Chairperson: Dr. R. Kinyua</b> <b>Co-chair: Dr. T. Matsuura</b> <b>Rapporteur: X. Ochieng</b>		
14.00 - 14.15	Comparative studies of crude and defatted <i>Moringa oleifera</i> seeds as natural coagulants in removal of physical, chemical and bacteriological parameters from turbid river water	<b>K. D. Kowanga</b> G. T. Thiong'o E. Gatebe P. Kareru
14.15 - 14.30	Assessment of water quality in three rivers in the catchments of Lake Victoria using diatom ecological indicator values	<b>H. B. O. Lung'ayia</b> L. Triest
14.30 - 14.45	Evaluation of agricultural conservation practices on ecosystem services in Sasumua watershed, Kenya using SWAT model	<b>H. M. Mwangi</b> J. M. Gathenya B. Mati J. K. Mwangi
14.45 - 15.00	Estimating AGB in agricultural landscapes of Nyando Basin: Local versus global allometric equations	<b>M. L. Okore</b>
15.00 - 15.15	Water quality and contamination of groundwater by pit-latrines in Kwale District, Kenya	<b>J. M. Mzuga</b> P. T. Mwakio E. K. Ucakuwun
15.15 - 16.15	<b>DISCUSSION</b>	
16.15 - 16.45	<b>TEA BREAK/POSTERS/EXHIBITIONS</b>	
17.30 - 20.30	<b>COCKTAIL DINNER- Safari Park Hotel</b>	

**DAY TWO: Friday 16<sup>th</sup> November 2012**

<b>PLENARY SESSION 2</b>		
<b>Chairperson: Dr. F. K. Njonge</b>		
<b>Rapporteur: Prof P. Home</b>		
<b>TIME</b>	<b>LEAD PAPER</b>	<b>PRESENTER</b>
09.00 - 09.30	Harnessing agriculture potential for food security and industrialisation	<b>Dr. Baldwin Torto</b>
09.30 - 10.00	Water, energy, environment and climate change	<b>Prof. B. Mati</b>
10.00 - 10.15	<b>DISCUSSION</b>	
10.15 - 10.35	<b>TEA BREAK/POSTERS</b>	
<b>PARALLEL SESSION (Sub theme 8)</b>		
<b>Sub theme 8: Innovative Crop Stress Science for Sustainable Food Production</b>		
<b>Venue: Room 1</b>		
<b>Chairperson: Prof. W. Sakamoto</b>		
<b>Rapporteur: Dr. H. Murage</b>		
10.35 - 10.50	<i>Oryza longistaminata</i> 's chromosome segments are responsible for agronomically important traits for environmentally smart rice	<b>E. Gichuhi</b> E. Himi H. Takahashi M. Maekawa
10.50 - 11.05	Establishing pre-harvest sprouting resistant white-grain wheat	<b>T. Matsuura</b> I. C. Mori T. Hirayama
11.05 - 11.20	Postharvest control of stress-induced fruit ripening in horticultural crops	<b>Y. Kubo</b> E. G. Mworira W. O. Asiche K. Ushijima R. Nakano
11.20 - 11.35	Viruses as biological control (virocontrol) agents of plant fungal pathogens	<b>N. Suzuki</b>
11.35 - 11.50	Molecular mechanism of viral movement in plant; local and systemic transport	<b>S. Ueki</b>
11.50 - 12.05	Screening of bacterial and fungal isolates for their plant growth promoting activities	<b>R. M. Mwashasha</b> M. Hunja A. Tani
12.05 - 13.00	<b>DISCUSSION</b>	
13.00 - 14.00	<b>LUNCH BREAK/POSTERS</b>	
<b>PARALLEL SESSION (Sub theme 6)</b>		
<b>Sub theme 6: Harnessing Agricultural Potential for Food Security and Industrialization</b>		
<b>Venue: Room 2</b>		
<b>Chairperson: Prof. A. Makokha</b>		
<b>Rapporteur: Dr. F. Kyalo</b>		
10.35 - 10.50	Effect of variety and stage of ripeness on physical and sensory quality characteristics of six mango cultivars commonly grown in Eastern province of Kenya	<b>E. M. Okoth</b> D. N. Sila W. O. Owino C. A. Onyango F. M. Mathooko

10.50 - 11.05	Harnessing the potential of constitutive defense in <i>Solanum sarrachoides</i> for management of the tomato red spider mite (Acari: Tetranychidae)	<b>L. K. Murungi</b> S. P. Kuate H. Kirwa B. Torto
11.05 - 11.20	Effects of selected soil and water conservation technologies on soil nutrients and maize yields in Central highlands of Kenya	<b>I. O. Okeyo</b> M. Mucheru-Muna J. Mugwe F. K. Ngetich D. N. Mugendi C. A. Shisanya S. K. Wambugu J. Diels
11.20 - 11.35	Breeding tomato ( <i>Solanum lycopersicum</i> ) for resistance to tomato yellow leaf curl disease and resilience to climate change in Africa	<b>C. Ojiewo</b> P. Hanson
11.35 - 11.50	Micro-grafting of selected Kenyan papaya ( <i>Carica papaya L.</i> ) lines	<b>N. N. Mumo</b> F. K. Rimberia E. G. Mamati A. W. Kihurani
11.50 - 12.05	In vitro meristem culture for rapid regeneration of papaya plantlets in liquid media	<b>E. K. Gatambia</b> A. W. Kihurani F. K. Rimberia M. M. Waiganjo
12.05 - 12.20	Assessing perception on biophysical components of Kit-Mikayi site for cultural landscape conservation	<b>B. Okello</b> J. B. Mukundi A. O. Watako A. O. Adimo
12.20 - 12.35	Effects of phosphorus sources on soybean yield in Central Highlands of Kenya	<b>J. S. Abuli</b> J. N. Mugwe D. N. Mugendi
12.35 - 13.00	<b>DISCUSSION</b>	
13.00 - 14.00	<b>LUNCH BREAK/POSTERS</b>	
<b>PARALLEL SESSION (Sub theme 5)</b> <b>Sub theme 5: Policy and Governance, Cultural and Socio-economic Aspects of Development</b> <b>Venue: Room 3</b> <b>Chairperson: F. Ondieki</b> <b>Rapporteur: G. Wamae</b>		
10.35 - 10.50	Towards a policy frame-work for community based natural resources management in fresh water eco - systems: A case study of Lake Naivasha Basin, Kenya	<b>J. Misati</b> J. Nyangena R.Ndetei
10.50 - 11.05	Determinants of participation in ROSCAs in Kenya's urban informal settlements	<b>W. M. Muturi</b> M. Sakwa P. K. Kimuyu
11.05 - 11.20	Determinants of market choice among tea farmers	<b>B. Chepkulei</b>
11.20 - 11.35	Adoption of democratic elections of student leaders, are secondary schools in Kenya prepared?	<b>D. M. Mureithi</b>
11.35 - 11.50	Effect of technical education policies on technology adoption amongst micro and small enterprises in	<b>P. Kithae</b> K. Karanja

	Kenya	J. Nyaga
11.50 - 12.05	Entrepreneurship challenges in developing economies: a case of Kenyan economy	<b>S. N. Kaburi</b> V. O. Mobegi A. Kombo A. Omari T. Sewe
12.05 - 13.00	<b>DISCUSSION</b>	
13.00 - 14.00	<b>LUNCH BREAK/POSTERS</b>	
<b>PARALLEL SESSION (Sub theme 4)</b>		
<b>Sub theme 4: Advances in Information and Communication Technology</b>		
<b>Venue: Room 4</b>		
<b>Chairperson: Dr. W. Mwangi</b>		
<b>Rapporteur : Dr. A. Kibe</b>		
10.35 - 10.50	Intelligent prediction of agricultural drought using classification algorithms	<b>S. M. Mwanjele</b>
10.50 - 11.05	Information systems outsourcing versus systems development: a comparative study of the preferred choices of the different banks in Nakuru town	<b>B. Langat</b> J. F. Kamuren
11.05 - 11.20	Framework for the implementation of a patient electronic referral system: Case study of Nairobi Province.	<b>F. K. Thiong'o</b>
11.20 - 11.35	Establishment of the levels of automation in institutions: The objective choice of approach	<b>B. M. Kiula</b> J. M. Kihoro C. Wambugu
11.35 - 11.50	A framework for security incidents response management in information systems, (A case study for Kenya's ICT managers)	<b>E. A. Obat</b> S. Kimani Luvanda
11.50 - 12.05	Increasing attachment and commitment of users in online social networks: by applying social science theories of group identity and interpersonal bonds to increase vibrancy	<b>L. Nabuleje</b> S. Kimani W. Mwangi
12.05 - 12.20	An exploratory investigation on the internet based corporate reporting in Kenya	<b>U. A Abdillahi</b> M. M. Mugada
12.50 - 13.00	<b>DISCUSSION</b>	
13.00 - 14.00	<b>LUNCH BREAK/POSTERS</b>	
<b>PARALLEL SESSION (Sub theme 2)</b>		
<b>Sub theme 2: Recent Developments in Health Sciences</b>		
<b>Venue: Room 5</b>		
<b>Chairperson: Dr. Kikuvi</b>		
<b>Rapporteur: Dr. Gikunju</b>		
10.35 - 10.50	Computer assisted drug design against leishmania major	<b>C. N. Mutoro</b> D. Kariuki J. K. Ng'ang'a J. K. Kinyua
10.50 - 11.05	Baseline characteristics of fishermen participating in the study of human papillomavirus infections, in Kisumu Kenya	<b>R. Ondondo</b> C. Cohen Z. Ng'ang'a S. Mpoke Z. Kwena E. Bukusi

11.05 - 11.20	In vivo antibacterial activity and Safety of <i>Vitellaria.paradoxa</i> aqueous extract administration in <i>Salmonella typhimurium</i> infected rats.	<b>S. P. C. Fodouop</b> D. Gatsing J. Wanjiruh P. Lunga
11.20 - 11.35	Factors influencing nutritional status and food consumption patterns of children with cancer: a case of Kenyatta National Hospital, Kenya.	<b>R. Shikuri</b> J. Waudo E. Kuria
11.35 - 11.50	Computer assisted drug design against <i>Plasmodium falciparum</i>	<b>F. A. Ng'ong'a</b> J. K. Ng'ang'a D. Kariuki J. K. Kinyua
11.50 - 13.00	<b>DISCUSSION</b>	
13.00 - 14.00	<b>LUNCH BREAK/POSTERS</b>	
<b>PARALLEL SESSION (Sub theme 4)</b>		
<b>Sub theme : Engineering Technologies, Built Environment and Infrastructure for Development</b>		
<b>Venue: Room 2</b>		
<b>Chairperson: Prof. A. Gariy</b>		
<b>Rapporteur: Dr. Kabubo</b>		
14.00 - 14.15	Professional identity crisis: agricultural engineering in a non-directional flux	<b>P. O. Ajwang</b>
14.15 - 14.30	Design, fabrication and testing of a human machine interface SCADA System for process control	<b>C. K. Mmata</b> P. Karimi G. Nyakoe
14.30 - 14.45	An experimental prototype for low head small hydro power generation using hydram	<b>O. B. Nganga</b>
14.45 - 15.00	Impact of digital technology on urban spaces	<b>W. N. Nyachwaya</b> B. M. Otoki B. N. Mugwima
15.00 - 15.15	A comparative evaluation of irrigation efficiencies for smallholder irrigation schemes in Murang'a South District	<b>H. N. Ngugi</b> P. G. Home
15.15 - 15.30	<b>DISCUSSION</b>	
15.30 - 16.10	<b>CLOSING CEREMONY</b>	
<b>PARALLEL SESSION (Sub theme 5)</b>		
<b>Sub theme 5: Policy and Governance, Cultural and Socio-economic Aspects of Development</b>		
<b>Venue: Room 3</b>		
<b>Chairperson: Dr. H. Mberia</b>		
<b>Rapporteur: Dr. Sakwa</b>		
14.00 - 14.15	Assessment of the effect of external financing on financial performance of savings and credit cooperatives in Kisii Central District, Kenya	<b>A. N. Ondieki</b> C. Okioga D. K. Okwena A. Onsase
14.15 - 14.30	Segmental market risk appraisal of equity investments at the Nairobi Securities Exchange	<b>J. O. Oluoch</b>
14.30 - 14.45	Factors that determine the capital structure among micro-enterprises: a case study of micro-enterprises in Kisii Town, Kenya	<b>S. O. Nyanamba</b> S. M. Omari G. N.



		Nyangweso
14.45 - 15.00	Traceability as a competitive strategy tool in food supply chain	<b>M. K. Wanjiru</b> K. L. Wanjau
15.00 - 15.15	An assessment of the effectiveness of internal audit systems in the management of decentralized funds in Kenya: a study of local authority transfer fund in Kisii Municipal Council	<b>S. N. Onger</b> C. Okioga D. K. Okwena
15.15 - 15.30	<b>DISCUSSION</b>	
15.30 – 16.10	<b>CLOSING CEREMONY</b>	
<b>PARALLEL SESSION (Sub theme 7)</b>		
<b>Sub theme 7: Water, Energy, Environment and Climatic Change</b>		
<b>Venue: Room 4</b>		
<b>Chairperson: Dr. U. Mutwiwa</b>		
<b>Rapporteur: Dr. Sila</b>		
14:00 - 14:15	Application of the PERPEST Model in the prediction of environmental risks of endosulfan pesticide residues on fish. Case Study of Lake Naivasha, Kenya.	<b>P. M. Njogu</b> J. J. Kitetu A. Kraslawski J. M. Keriko
14.15 - 14.30	Benefit-cost analysis of paddy rice under the system of rice intensification in Mwea, Kenya	<b>J. A. Ndiiri</b> B. M. Mati P. G. Home B. Odongo N. Uphoff
14.30 - 14.45	Nano-material enhanced photodegradation of textile wastewater using chitosan beads	<b>K. Y. Pete</b> A. Ochieng
14.45 - 15.00	Assessment of the efficiency of different mixes of macrophytes in removing heavy metals from wastewater using constructed wetland	<b>P.G. Home</b> K. G. Muthigo
15.00 - 15.30	<b>DISCUSSION</b>	
15.30 – 16.10	<b>CLOSING CEREMONY</b>	
<b>PARALLEL SESSION (Sub theme 4)</b>		
<b>Sub theme 4: Advances in Information and Communication Technology</b>		
<b>Venue: Room 5</b>		
<b>Chairperson: Dr. S. Kimani</b>		
<b>Rapporteur : A. Mwirigi</b>		
14.00 – 14.15	ICT penetration and utilization : A Tool for diversity, Inclusion and participation in public service	<b>B. M. Kiula</b> M. M. Sakwa J. M. Kihoro
14.15 – 14.30	Framework to assess software quality in ERP systems	<b>C. Otieno</b> W. Mwangi S. Kimani
14.30 - 14.45	Increasing vibrancy and retention of users in online social networks by implementing the modified reader-to-leader framework	<b>L. Nabuleje</b> S. Kimani W. Mwangi
14.45 - 15.30	<b>DISCUSSION</b>	
15.30 – 16.10	<b>CLOSING CEREMONY</b>	

<b>POSTERS</b>	
<b>Basic and Applied Sciences for Advancement of Research and Industrialization</b>	
Isolation and identification of the staphylococcus species colonizing the baboon vagina ( <i>papio anubis</i> ).	<b>A. K. Busienei</b> S. Maina
Ectopic expression of a <i>Neospora caninum</i> serpin triggers developmental defects in <i>Plasmodium berghei</i> parasites	<b>R. Wakubambanya</b> Z. Tampaki E. Goulielmaki H. Roumpaki A. P. Waters C. Janse T. G. Loukeris
Transmission of sweet potato mild mottle virus	<b>J. N. Ngubia</b> E. M. Ateka A. W. Kihurani R. L. Amata
Conditions for norm-attainability of elementary operators and their applications to quantum mechanics	<b>N. B. Okelo</b> J. O. Agure
<i>In vitro</i> regeneration of <i>Jatropha Curcas</i>	<b>R. Njoki</b> S. Maina
<b>Engineering Technologies, Built Environment and Infrastructure for Industrialization</b>	
Enhancing the built environment to create sustainable public urban open spaces. A Case of Makadara Gardens, Mombasa	<b>C. N. Wanza</b> S. N. Kibue B. N. Mugwima N. O. Onyango
Effects of plastic aggregates on concrete properties	<b>J. M. Karimi</b>
Tracking city green space change as impacted by urban sprawl	<b>M. Ngigi</b> P. N. Kagimbi
<b>Policy, Governance, Cultural and Socio-economic Aspects of Development</b>	
Agency problem in strategy implementation	<b>G. N. Ochoti</b>
Attitude of employees towards counseling and facilities available at the work place: a case study of pollen limited	<b>A. N. Simiyu</b> E. Mukulu
<b>Harnessing Agricultural Potential for Food Security and Industrialization</b>	
Crystallization of sweet sorghum juice into raw sugar	<b>B. Mukabane</b> G. Thiongo B. Gathitu H. Murage W. Owino
Plant growth and performance of linseed ( <i>Linum usitatissimum L.</i> ) as influenced by variety and nitrogen application	<b>L. W. Kariuki</b> P. W. Masinde A. Onyango K. Ogila G. Mwangi
Collection, documentation and morphological characterization of mango germplasm from the Upper Athi River region of Eastern Kenya	<b>M. E. Toili</b> F. K. Rimberia A. B. Nyende U. Mutwiwa

	J. Kaluli D. Sila
Utilization of glivillea robusta –silk oak leaves as a substitute for wheat straw in button mushroom substrate preparation	<b>P. K. Muchiri</b>
Nutrients flows in soils on smallholder farms in Cyabayaga watershed	<b>J. Nabwami</b> M. Kabiligi B. Musana A. B. Mashingaidze N. L. Nabahungu
<b>Information and Communication Technology</b>	
An enhanced least significant bit steganographic method for information hiding	<b>G. Kamau</b> S. Kimani W. Mwangi
E-learning adoption at JKUAT	<b>V. F. Mukiri</b>
<b>Water, Energy, Environment and Climatic Change</b>	
Optimization of solar radiation as a natural resource for Eldoret and Kitale	<b>J. K. Maritim</b> P. K Tanui
Experimental analysis of solar radiation data of shorter-time as compared to hourly data on horizontal surface at Chepkoilel University College	<b>P. K Tanui</b> J. K Maritim J. K Tonui S. K Rotich
Impact of DFIG based Wind Farm on Power System Transient Stability	<b>S. R. Orenge</b> K. K. Kaberere C. M. Muriithi
A comparative of the impacts of coffee effluent on physico-chemical parameters of Komothai River	<b>R. Wambui</b> R. Karanja J. K. Mburu

## CLOSING CEREMONY

**VENUE: AICAD ASSEMBLY HALL**

**Master of Ceremony: C. C. Kamau**

**Rapporteur: Mr. J. M. Nyori**

TIME	EVENT
15.30 - 15.40	Closing remarks and invitation of the chief guest to close the conference by the DVC-RPE, Prof. E. Kahangi
15.40 - 16.10	Official closing speech by the VC, Mt Kenya University, Prof. Waudo
16.10 – 16.45	<b>TEA</b>