

International Conference on Phytochemistry, Textile & Renewable Energy for Sustainable Development

Conference Theme: Advancing Science, Technology and Innovation for Industrial Growth.

VENUE: VIRTUAL CONFERENCE

Host: Moi University, Eldoret, Kenya

DAY 1- WENESDAY, 12TH AUGUST 2020

Conference Plenary Opening Session

Time (Nairobi, GMT+03:00)	Speaker	Responsible
09.00-09.05	Introductions: Prof. Simeon Mining, Director Research	Moderator: Prof. Isaac Kimengi, Deputy Vice-Chancellor, Moi University Co Moderator: Prof. Yiping Qiu, Chair of SAISTA, Donghua University Rapporteurs: 1. Dr. Milton M'Arimi 2. Dr. Fredrick Nyamwala ICT Support 3. Ms. Suzzanne Kalume
09.05-09.10	Introductory remarks by: Prof. Ambrose Kiprop, ACEII PTRE Centre leader	
09.10 -09.20	Welcome Remarks by: Prof. Isaac Sanga Kosgey, Vice-Chancellor, Moi University	
09.20 -09.25	Remarks by: - Ms. Ruth Charo, Senior Education Specialist, World Bank, Kenya - Dr. Pam Fredman, President, International Association of Universities (IAU) - Prof. Jianyong Yu, President, Donghua University	
09.25-09.45	Address and Official Opening by: Chief Guests – PS Education	
09.45-10.20	Overview of the Conference by: Dr. Charles Nzila Conference Chair	
10.20–10.50	Tea/Coffee Break	

Symposium Sessions

Symposium 1: Photochemistry - Nano materials, Medicinal chemistry, Natural products, Phytoremediation, Food nutrition, Phyto-economics and phytochemical analysis

Symposium 2: Renewable energy: smart technologies for energy access; energy conversion; hybrid energy systems; energy systems modeling, optimizations and analysis; energy and environmental management; waste to energy; energy systems integration; energy storage, energy economics, policy and regulations.

Symposium 3: Progressive Textiles: Sustainable textile technologies, textile engineering, technical textiles and composites. Textiles of the future.

Symposium 4: Transformative industrialization: Industrial engineering, manufacturing, sustainable production and consumption.

Symposium 5: Sustainable Technology and Innovations: Supporting Science and Social Innovations, Commercialization of Technology, Environment and Innovation for Growth, Policy, Ethics and Governance.

Symposium 6: Cross-cutting: Any other papers in Science, Technology, Engineering, Arts and Mathematics (STEAM)

DAY 1 - CONFERENCE PARALLEL SESSIONS

PARALLEL SESSIONS – 1

Time (Nairobi, GMT+03:00)	Symposium 1 Session 1: Phytochemistry	Symposium 2 Session 1: Renewable energy	Symposium 3 Session 1: Progressive Textiles (A)	Symposium 3 Session 1: Progressive Textiles (B)	Symposium 4 Session 1: Transformative industrialization
10.50 – 12.50 Nairobi 09.50 – 11.50 Paris 15.50 – 17.50 Beijing 01.50 – 03.50 Regina	Chair: Dr. Jackson Cherutoi Co chair: Dr. Mathew Kosgei Rapporteur: Dr. Njira N. Pili IT Support: George Bateta	Chair: Prof. Bhandari Co chair: Prof. Samuel Rotich Rapporteur: Dr. Cleophas Achisa IT Support: Rachel Cheptumo	Chair: Prof. Yiping Qiu Co chair: Prof. John Githaiga Rapporteur: Dr. Stephen Talai IT Support: Sammy Goin	Chair: Prof. Paul Wambua Co chair: Dr. Shengyuan Yang Rapporteur: Dr. Obadiah Maube IT Support: Samuel Shitote	Chair: Juma Simiyu Co chair: Prof. Joel Kibiiy Rapporteur: Dr. I Muchilwa IT Support: Victor Siele
10.50-11.20	<i>Keynote Speaker #1 on Phytochemistry</i> Prof. Philippe Gerardin, Professor of Natural Products Chemistry, Chemistry Université de Lorraine, France	<i>Keynote Speaker on Renewable Energy</i> Prof. Ramchandra Bhandari, Professor of Renewable Energy Systems, University of TH Köln, Germany	<i>Keynote Speaker 1 on Progressive Textiles</i> Chinese Textile Industry: past, present and post COVID-19 Prof. Yiping Qiu, Professor of textile materials, composite materials, nano-materials, and functional textiles, Donghua University, China	<i>Keynote Speaker on Transformative Industrialization</i> Dr. Marcus Perreira Pessoa, Assistant Professor of Product Design and Development, University of Twente, Netherlands	
11.20-11.30	Health Break/Poster Session/Exhibition				
11.30-11.50	Kenyan Antivenin Plants: Ethnobotany and Future Perspectives. <i>By Timothy Omara, Abigael Jepchirchir, Alfayo Maiyo, Betty Jematia Kiptui, Decrah Moraa Nyangena, Papias Nteziyaremye, Lucy Nyambura Karanja</i>	Design of a Portable Parabolic Trough Solar Thermal Collector, <i>By Olive Mutsawashe Mushoriwa</i>	A Study of Coir Fibre Length Tensile Strength and Elongation as a Function of Water and Mechanical Extraction Methods, <i>By John Khafafa</i>	Influence of cotton field soil cultured bacteria on cellulosic substrate properties, <i>By Ann Wairimu Mburu, Joseph Kinyanjui Muiruri, D.G. Njuguna, C. Nzila, E.N. Oyondi</i>	Industrial Engineering and Operation Management in Ready Made Garments Industry, <i>By Ocident Bongomin, Josphat Igadwa Mwasiagi, Eric Oyondi Nganyi, Ildephonse Nibikora</i>
11.50-12.10	Isolation, Characterization and Antioxidant Activity of Phenolic Compounds from Ocimum gratissimum and Rosmarinus officinalis leaves, <i>By Winfred Nassazi</i>	Production of solketal, a fuel additive, through microwave heating and catalysis, <i>By Kenneth K. Shitemi, Kirimi Kiriamiti</i>	A balance between pressure drop and filtration efficiency, how Chinese Manufacturers evolve in face mask technologies <i>By Prof. Chuyang Zhang</i>	Polyethyleneimine Modified CNT Yarn with Improved Strength and Electrical Conductivity <i>By Yanhong Cao</i>	Ergonomic design and optimization of classroom furniture for students at tertiary institutions based on

					anthropometric measurements <i>By Abdalla Elnour Ahmed Esmaeel</i>
12.10-12.30	Tailoring 2D Molybdenum Disulfide for Enhanced Removal of Heavy Metals in Water. An ab initio study. <i>By Kibet T. Philemon, Kiprono K. Korir</i>	Thin water Tube Solar Panel Cooler. <i>By Selamawit Shiferaw Deffer</i>	Comparative analysis of the effect of alkaline and microwave surface modification on calotropis bast fibers for composites, <i>By Enock Kiptoo Langat</i>	Effect of chemical treatments on Mechanical properties of unidirectional Ensete fiber reinforced polypropylene composite. <i>By Esubalew Dessie</i>	Optimization of precipitation technique to control the size of nanoparticles. Introduction. <i>By Nelson Kipkorir</i>
12.30-12.50	UV-Vis, FTIR and GC-MS Analysis of Bioactive Compounds Present in hexane and dichloromethane extracts of leaves, tender stems and root barks of <i>Euclea divinorum</i> , <i>By Immaculate Mbabazi, Dr. Phanice Tsikhungu Wangila, Dr. Isaac Kowino, Prof. Ambrose Kiprop.</i>	Solar PV in western Kenya: study results of a 500 watt peak off-grid system , <i>By Wilkins Kosgei Cheruiyot</i>	Silk Fibroin based Conductive Fiber and its Applications <i>By Dr. Liyun Ma</i>	Development and Characterization of Helical Auxetic Yarn toward Wearable Textiles and Joule Heating Application <i>By Junli Chen</i>	Optimisation of Extraction Conditions of <i>Allium Burdickii</i> Natural Dye and Finger print Assessment of Bioactive Compounds using Raman Spectroscopy. <i>By K. D. Agulei, J. T. Githaiga, N.E. Oyondi</i>
12.50-13.10	Phytochemical Screening, Total phenolic content and Total flavanoid content of acetonc extracts of the heartwood of <i>Prosopis juliflora</i> , <i>By Mark Peter Odera</i>	Optimization of Liquid Fuel From Microwaves Pyrolysis of Used Tyres, <i>By Ronald K. Bett</i>	Programing Performance of Silk Fibroin Superstrong Scaffolds by Mesoscopic Regulation among Hierarchical Structures <i>By Dr. Yifan Zhang</i>	Circular Economy, Sustainability and Recycling of Textiles <i>By Mike Tebyetekerwa</i>	POSTER SESSION
13.10-13.30	POSTER SESSION	Evaluation of low cost biogas upgrading systems, <i>By Dorcas Sombei, Doricah Nyambane, Anceita Jepleting, Cleophas Achisa</i>	High-performance, multifunctional 3D woven composites <i>By Prof. Fujun Xu</i>	The current state and future development trend of apparel industry under COVID-19 <i>By Pingping Xu</i>	POSTER SESSION
13.30-14.00	Lunch Break/Poster Session/Exhibition				
PARALLEL SESSIONS – 1I					
Time (Nairobi, GMT+03:00)	Symposium 1 Session 2: Phytochemistry	Symposium 1 Session 2: Phytochemistry (B)	Symposium 2 Session 2: Renewable energy	Symposium 3 Session 2: Progressive Textile	Symposium 4 Session 2: Transformative industrialization
14.00 – 15.20 Nairobi 13.00 – 14.20 Paris 19.00 – 20.20 Beijing	Chair: Dr. Jackson Cherutoi Co chair: Dr. Fredrick Kengara	Chair: Prof. Samuel Rotich	Chair: Prof. John Githaiga Co chair: Prof. Fujun Xu	Chair: Prof. Xiaohong Qin	Chair: Juma Simiyu

05.00 –06.20 Regina	Rapporteur: Dr. Njira Pili IT Support: George Bateta	Co chair: Mr. Pnenwix Musonye - EPRA/AEPEA Rapporteur: Dr. Cleophas Achisa IT Support: Rachel Cheptumo	Rapporteur: Dr. Stephen Talai IT Support: Sammy Goin	Co chair: Prof. Paul Wambua Rapporteur: Dr. Obadiah Maube IT Support: Samuel Shitote	Co chair: Prof. Joel Kibiiy Rapporteur: Dr. I Muchilwa IT Support: Victor Siele
14.00-14.20	Characterization of Isolated Phenolic compounds from Leaf Extracts of Bidens pilosa Linn Varr Radiata and Antacid Potential in Artificial Stomach Model, <i>By Merab Llian Ndiege.</i>	The significance of modified coulomb potential in determining the nuclear stability of isobars, <i>By Hezekiah Komen Cherop</i>	A content based image retrieval model using color, texture and shape features with k-nearest neighbor algorithm for e-commerce, <i>By Gibson Kimutai, Wilson Cheruiyot, Calvins Otieno, Ambrose Kiprop</i>	Investigation on the potential of Biogas production from Sized Cotton yarn Waste from textile manufacturing process at Rivatex, <i>By Twizerimana Maurice</i>	Thermal properties of sisal/cattail fibre reinforced polyester hybrid composites, <i>By Silas M. Mbeche</i>
14.20-14.40	Identification of phenolic compounds in Prosopis juliflora by liquid chromatography electrospray ionization tandem mass spectrometer, <i>By Sarah Cherono Chepkwony, Ambrose Kiprop Ambrose, Stéphane Dumarçay, Hubert Chapuis, Philippe Gerardin, Christine Charbonnier Gerardin</i>	Microgrids As The Vehicle To Rural Development: The Case Of Uganda, <i>By Gad Reuben Mugagga, Hope Baxter Chamdimba</i>	Studies on Medicinal Potentials of Hannoa undulata Essential Oil, <i>By Anayo Joseph Uraku</i>	Identification of Means of Alleviating Production Related to Problems that Lead to Poor garment Manufacture, <i>By Mqondisi Moyo</i>	Determinants of organizational safety climate towards firm productivity in manufacturing industry”. Case study: tanzania breweries limited-dar es salaam plant. <i>By Veronika Gerald Kimario</i>
14.40-15.00	Phytochemical Screening, Total Phenolic and Total Flavonoid Contents of Senna D. <i>Bernard Otieno Sadia idymobotrya</i>	Evaluation of suitability of Sugar cane vinasse and maize stalks waste for anaerobic Codigestion, <i>By Mohamed Kibet Kiplagat, Cleophas Achisa Mecha</i>	Photovoltaic off grid Solar Home System Sizing using the charging current and total Energy methods: A Comparison of the two sizing methods, <i>By Dr. Sebastian Waita, Solar.</i>	POSTER SESSION	POSTER SESSION
15.00-15.20	Application of Response Surface Methodology for optimized adsorption of crystal violet dye from aqueous solution using Eichhornia crassipes biochar, <i>By Frankline Bwana, Florence Atieno Opondo, Mathew Kosgei</i>	POSTER SESSION	POSTER SESSION	POSTER SESSION	POSTER SESSION
15.20	HEALTH BREAK/ TEA/ COFFEE/POSTER SESSION /EXHIBITION				
	End of Day 1				

DAY 2 – THURSDAY 13TH AUGUST, 2020

PARALLEL SESSIONS – III

Time (Nairobi GMT+03:00)	Symposium 1 Session 3: Phytochemistry (A)	Symposium 1 Session 3: Phytochemistry (B)	Symposium 2 Session 3: Renewable energy	Symposium 3 Session 3: Progressive Textile	Symposium 4 Session 3: Transformative industrialization
09.00 – 11.20 Nairobi 8.00 – 10.20 Paris 14.00 – 16.20 Beijing 00.00 – 2.20 Regina	Chair: Dr. David Njuguna Co chair: Dr. Martha Induli - KIRDI Rapporteur: Dr. Sarah Chepkwony IT Support: George Bateta	Chair: Dr. J. Makatiani Co chair: Dr. Sebastian Waita Rapporteur: Dr. Titus Rotich IT Support: Rachel Cheptumo	Chair: Prof. Zachary Siagi Co chair: Geoffrey Ssebabi Rapporteur: Dr. Jerry Ochola IT Support: Sammy Goin	Chair: Prof. Kun Zhang Co chair: Dr. Eric Oyondi Rapporteur: Dr. Dorcas Lusweti IT Support: Samuel Shitote	Chair: Eng. Prof. Simiyu Sitati Co chair: Brenda Akankunda Rapporteur: Dr. Milton M'Arimi IT Support: Victor Siele
09.00-09.30	<i>Keynote Speaker #2 on Phytochemistry</i> Prof. Christine Gerardin, Professor of Organic Chemistry Université de Lorraine, France			<i>Keynote Speaker 2 on Progressive Textiles</i> Prof. Lieva Van Langehove, Professor of Functional Properties of Materials, Ghent University, Belgium	
9.30 – 9.40	Health Break/Poster Session/Exhibition				
09.40-10.00	Biosynthesis Of Zinc Oxide Nanoparticles Precursor For Development Of Nanocomposite For Degrading Selected Organochlorines, <i>By Calvince Ochieng Ondijo</i>	Phytochemicals and Antioxidant Activity of Garlic Cooked with different Salts under, <i>Varying Conditions</i> <i>By Thandiwe Alide</i>	Evaluation of Kisumu County Clay Soil for Plastic Waste Pyrolysis <i>By Mibei Chirchir Zeddy</i>	Effects of weave structures on water wicking-evaporating behavior of woven fabrics <i>By Prof. Yanxue Ma</i>	Industrial Output In Uganda: Does Electricity access Matter? <i>By Brendah Akankunda, Muiywa S Adaramola and Arild Angelsen</i>
10.00-10.20	Chemical composition and insecticidal activity of Pinus caribaea Morelet var. hondurensis needles against Sitophilus zeamais Motschulsky and Callosobruchus maculatus Fabricius , <i>By John Mary Kirima, Timothy Omara</i>	Extraction of natural dye from euclea divinorium using different solvents for dyeing of cotton substrate. <i>By Manyim Scolastica, Ambrose K. Kiprop, Josphat Mwasiagi Igadwa, Achisa Cleophas</i>	Power System Frequency Stability and Control for increased renewable energy penetration in Kenya, <i>By Fredrick M. Mulei,</i>	Carbon nanotube film/PDMS composite Toward multifunctional actuator <i>By Dr. Mohamed Amine Aouraghe</i>	Prospects of Textile Industry in Sudan: A Technical Vision <i>By Dr. Haroon A.M. Saeed</i>
10.20-10.40	Computational modelling of selected toxic molecular products from the thermal degradation of a selected light cigarette brand, <i>By maiyo alfayo</i>	Colourimetric Study of Natural Dye from Beta vulgaris Peels and Pomace on Cellulosic Substrate <i>By Rotich Vincent, Wangila Phanice, Cherutoi Jackson</i>	A Time Series Analysis of Modern Socio Economic Determinants for Carbon Emission Levels in Emerging Sub-Saharan Economies	Design and Manufacturing of thermoelectric textiles for harvesting thermal energy and powering electronics <i>By Prof. Kun Zhang</i>	The use of solar evacuated tube as an alternative method of drying , <i>By Joan Jepkosgei, Isaiah Muchilwa, Jerry Ochola,</i>

			<i>By Kusasira Samuel</i>		<i>George Omollo Owino, David Tuigong</i>
10.40-11.00	Geochemical Fractionation of Heavy Metals in Chromated Copper Arsenate Contaminated Soil , <i>By Caroline Kiwanuka Nakiguli</i>	Dyeing of cotton fabric with natural dye from flavoparmelia caperata, <i>By Linet Jelagat Kipkulei</i>	Redox Potential advances of Quinone derivatives for energy storage applications. <i>By Cosmas K. Kosgei</i>	Fabrication and acoustic performance of natural cellulose fabric reinforced epoxy composites for musical instruments <i>By Fanxizi Liu</i>	Carbon-based coating fabrics with high conductivity for excellent electromagnetic shielding performance <i>By Dr. Chuntao Lan</i>
11.00-11.20	Evaluation of shading on tea (<i>Camellia sinensis</i> (L.) O. Kuntze) yield component and phenolics in aerated and unaerated products, <i>By Robert Kiplangat Korir</i>	High Performance Bio-Based Epoxy Vitrimer with Closed-Loop Recyclability and Its Application in Carbon Fiber Reinforced Composites <i>By Hafeezullah Memon</i>	Electricity Consumption and Economic growth in Uganda. <i>By Geoffrey Ssebabi Mutumba</i>	Design and development for Polymeric Optical Fiber (POF) Textiles via Jacquard technology <i>By Dr. Lan Ge</i>	<i>POSTER SESSION</i>
11:20 - 11.30	Health Break/Poster Session/Exhibition				

PARALLEL SESSIONS – 1V

Time (Nairobi, GMT+03:00)	Symposium 1 Session 4: Phytochemistry	Symposium 2 Session 4: Renewable energy (A)	Symposium 2 Session 4: Renewable energy (B)	Symposium 4 Session 4: Transformative industrialization	Symposium 6 Session 1: Cross cutting
11.30 – 17.00 Nairobi 10.30 – 16.00 Paris 16.30 – 22.00 Beijing 02.30 – 08.00 Regina	Chair: Dr. David Njuguna Co chair: Dr. Martha Induli - KIRDI Rapporteur: Dr. Sarah Chepkwony IT Support: George Bateta	Chair: Prof. Bhandari Co-Chair: Dr. Korir Kiptiemoi Rapporteur: Dr. Patrick Nziu IT Support: Rachel Cheptumo	Chair: Prof. Zachary Siagi Co chair: Miftah Fekadu Kedir Rapporteur: Dr. Titus Rotich IT Support: Sammy Goin	Chair: Eng. Prof. Simiyu Sitati Co chair: Brenda Akankunda Rapporteur: Dr. Njira Njira IT Support: Samuel Shitote	Chair: Prof. Kirimi Kiriamiti Co chair: Dr. Roger A. Petty Rapporteur: Dr. J. Ochola IT Support: Victor Siele
11.30-11.50	Levels of acrylamide in roasted maize, <i>By Margaret C. Koske, Ongoma P.O</i>	Design, Optimization and Development of An Affordable Hybrid Vertical Axis Wind Turbine for Rooftop Applications in Nationally Weak Grids, <i>By Alice Achieng Kasera</i>	The Impacts of Gross Domestic Product and Energy Consumption on Carbon Dioxide Emission in Uganda. <i>By OTIM, Jacob , PhD Student of Energy Economics and Governance Makerere University</i>	Numerical Modelling and Simulation of Femur Bone Reinforcement using Braided Structures, <i>By Dr. Jerry Ochola and Michael Conti</i>	Building Back Better: The Sustainable Development Fashion Agenda <i>By Michael Stanley-Jones</i>
11.50-12.10	Optimization of water-based drilling mud using leaves from <i>Veronia amygdalina</i> .	A Review of Solar Adsorption Cooling with focus on Modeling and Performance Study of a Solar	Techno-Economic Analysis Of Grid Tie Solar Systems In Kenya. <i>By Bernard Oloo,</i>	Antibacterial efficacy of the aqueous and ethanolic herbal extracts from datura stramonium, racinus	Sustainability in Fashion, is it viable in our consumption-orientated society?

	<i>By Tecla C. Biwott, Ambrose K. Kiprop, Onyewuchi Akaranta, Oriji Boniface,</i>	Adsorption Cooler using Composite Adsorbent, Steatite impregnated with Activated Charcoal, Paired with Methanol as the Adsorbat. <i>By Eric Minda Nyanga'u</i>		communis and galinsoga parviflora plant leaves. <i>By Musunguzi Alex, Josphat Igadwa Mwasiagi, Nzila Charles, Nibikora Ildephonse</i>	<i>By Xin Zhang</i>
12:10-12.30	Evaluation of Antioxidant and Antibacterial Activities Cytotoxicity of Acacia, <i>By Abdirahman Elmi</i>	Assessing the feasibility of introducing solar and biogas energy in Kenyan households and the overall energy cost reduction that would result. <i>By Irene Waruguru</i>	An experimental investigation and thermal efficiency enhancement of gasifier stoves for domestic cooking applications". <i>By Waganesh Admse</i>	Bayesian for Simple and Generalized Linear Models: Comparing INLA and MCMC Techniques, <i>By John Darkwah</i>	Morphology reconstruction of electrospinning nanofibers and its application in electrochemical energy storage <i>By Prof. Xin Xia</i>
12.30-12.50	Bioefficay of chrysanthemum cinerariifolium and allium sativum oil extracts against Sitophilus zeamias. <i>By Samson Lutta1*, Lusweti Kitui1, Stephen Barasa1, and Munene Macharia</i>	POSTER SESSION	POSTER SESSION	Design, fabrication and testing of a hand driven canola/sunflower seed cold press machine, <i>By Juma Simiyu</i>	Miniaturization of the textile wearable antenna and its electromagnetic radiation properties <i>By Prof. Lan Yao</i>
12.50-13.10	Assessment of Ni toxicity to fungi and bacteria in oil tainted soils in Greater Port Harcourt Area, Nigeria. <i>By Wanjala, M.P.; Odokuma, L.; Etela I.; Ramkat, R, Blessing A.O., Karanteng-Ado E.J</i>	POSTER SESSION	POSTER SESSION	POSTER SESSION	Peptides Preloaded Injectable and Self-Healing Hydrogel for Antibacterial Wound Dressing Application <i>By Tingting Ye</i>
13.10-14.00	Lunch Break/Poster Session/Exhibition				
JOINT PLENARY SESSION					
14.00-16.00	KEYNOTE SPEAKERS INTERACTION SESSION - Theme: Embracing Collaborative Research Panelists and topics. 1. Prof. Samson Rwahwire - Director Graduate Studies, Busitema University Contract Researching: Commercialization of university research is a win-win strategy for both industries and academia: industry gets solutions while universities get resources. What is hindering adoption of this strategy? 2. Dr. Simon Githuku - In-charge of Research, KAM Research & Development (R&D): R&D department serves to identify industrial issues that universities can address. Few medium scale companies in the country have this department. With this shortcoming, how can universities be sensitized on researchable industrial issues that they can work on?			Moderator: Eng. Harness Mukhongo - AEPEA Co-Moderator: Dr. Keneth Chelule - KIRDI Researcher Rapporteurs: Dr. Jacqueline Makatiani- Moi University Josephat Chege - Biogas Internnatioal	

	<p>3. Vesa Korhonen - CEO, Nocart Ethical issues in collaborative research: Collaborative research conflicts can arise from issues such as access to data and research (including that which is not publicly available) for academics from industry and for industry from academics, and dealing with controversial results. How can such conflicts be minimized in university-industry collaborations?</p> <p>4. Dominic Wanjihia - CEO, Biogas International Implementing collaborative research: Breaking the Barriers: How Research Ideas can be Implemented by Industrial Players - how to implement research ideas achieved so far by center faculty in various partner industries.</p> <p>5. Prof. David Tuigong - CEO, KIRDI Developing collaborative research: Approaches to Developing Collaborative Research Ideas. What are these approaches and how best can they be utilized?</p> <p>6. TBD (RUFORUM) Resilience and collaborations in pandemic times: How can Academia-Industry research collaborations be sustained during and after the Covid-19 pandemic?</p> <p>7. TBD (Moi University) Intellectual Property issue in collaborative research: Parties in collaborative research sometimes find themselves without a clear sense of who has rights to royalties, or who can make binding decisions regarding publication or commercial exploits. What influence has the Intellectual Property policies had on such issues?</p>	
16.00-17.00	<p><i>KEYNOTE SPEAKERS INTERACTION SESSION</i></p> <p>Sustainable Consumption and Production (SCP) and COVID-19; Responsible Consumption and Production (SDG 12) Team Member Panel of the International Association of Universities (IAU) Higher Education and Research for Sustainable Development (HESD) Custer for the UN SDGs</p> <p>Panelist</p> <ol style="list-style-type: none"> 1. Roger Petry, University of Regina, Luther College (Canada) 2. Jocelyn Crivea, University of Regina, Luther College (Canada) 3. Detlev Lindau-Bank. University of Vechta (Germany) 4. Margit Stein, University of Vechta (Germany) 5. Kenneth Ochoa, El Bosque University (Colombia) 6. Rose Ramkat, Moi University (Kenya) 	<p>Moderator: Zinaida Fadeeva, Universiti Sains Malaysia – USM, Malaysia</p> <p>Co-Moderator: Dr. Jacqueline Makatiani Rapporteur: Dr. Dorcas Lusweti</p>
17.00- 17.10	HEALTH BREAK/ TEA/ COFFEE/ POSTER SESSION /EXHIBITION	
	End of Day two	

PARALLEL SESSIONS - V				
Time	Symposium 2 Session 5: Renewable energy	Symposium 5 Session 1: Sustainable Technology and Innovations and STEAM	Symposium 6 Session 2: Cross cutting (A)	Symposium 6 Session 3: Cross cutting (B)
(Nairobi, GMT+03:00) 09.00 – 12.30 Nairobi 8.00 – 11.30 Paris 14.00 – 17.30 Beijing 00.00 – 03.30 Regina	Chair: Prof. Eng. Augustine Makokha Co chair: Dr. Korir Kiptiemoi Rapporteur: Dr. Stephen Talai IT Support: Rachel Cheptumo	Chair: Dr. Kefa Chepkwony Co chair: Dr. Isaac Kowino Rapporteur: Dr. Jerry Ochola IT Support: George Bateta	Chair: Dr. Roger A. Petty Co chair: Prof. Simeon Mining Rapporteur: Dr. Titus Rotich IT Support: Sammy Goin	Chair: Prof. Julius Kipkemboi Co chair: Prof. Bin Chen Rapporteur: Dr. Dorcas Lusweti IT Support: Victor Siele
09.00-10.00	<p><i>Keynote Speaker #2 on Cross cutting</i> Dr. Beatrice Muganda - Director of Higher Education, Partnership for African Social and Governance Research (PASGR), Kenya</p> <p><i>Keynote Speaker #3 on Progressive Textiles</i> Prof. Bin Shen, Associate Professor of supply chain management, operations-marketing interface, and fashion industry, Donghua University China</p>			
10.00 – 10.10	Health Break/Poster Session/Exhibition			
10.10 – 10.30	Upgrading of biogas using low cost natural materials, <i>By Elshaddai Mulu</i>	Africa's need for a Technological Approach to Monitor Pollution from Mining activities, <i>By Anita Antwiwaa, Joseph Quansah, Richard Damoah</i>	A Survey of the Impact of COVID-19 on Businesses in Uasin Gishu County in Kenya, <i>By Charles Lagat, Benard Nassiuma, Kefa Chepkwony & Stephen Bitock.</i>	Mapping capabilities in RE firms and projects– Insights from an integrated Survey. <i>By Dr. C. Nzila and Prof. M. Korir</i>
10.30-10.50	Optimum conditions for biogas production from abattoir waste. <i>By Saphan Makokha,</i>	The effect of environmental assisted corrosion on crack growth and propagation of Al alloys used in aircraft structures, <i>By Robert Rutto</i>	A Survey of Engineers' and Engineering Students' Ethical Awareness and Conduct <i>By Emmanuel C. Kipkorir</i>	Protection and Development-Intangible Cultural Heritage Project in Donghua <i>By Bin Chen</i>
10.50-11.10	Renewable Energy Policy Implementation Drivers and Barriers in Uganda. <i>By Bosco Amerit</i>	Computational Modelling of Cannabinoid Derivatives from the Thermal Degradation of Cannabis sativa, <i>By Micah Omari Omare, Joshua Kiprotich Kibet, Jackson Cherutoi, Fredrick Orori Kengara</i>	Responsible Consumption and Production for Wholistic Transformation of Universities: Innovating in Scholarly Governance, Methods, and Identities for Broad-scale Sustainability Impact in Industry and Society <i>By Dr. Roger A. Petry, Ms. Jocelyn Crivea</i>	Smart refuse collection bin, <i>By Dr. Phillip Kisembe</i>
11.10- 11.30	POSTER SESSION	Design and evaluation of a mitigation system of long duration power blackouts in Rwanda. <i>By Bonface Ntambara</i>	Research ethics and scientific innovations nexus: Unpacking the essentials <i>By Prof. Julius Kipkemboi Ph.D, Prof. Naanyu</i>	Potentials for a Logistics Learning Factory Laboratory at Moi University, <i>By Charles Lagat and Naomi Koske</i>
11.30 - 11.50	HEALTH BREAK/ TEA/ COFFEE/ POSTER SESSION /EXHIBITION			

CLOSING SESSION

Time	Event	Responsibility
11.50- 12.00	ENTERTAINMENT: MU Anthem / National Anthem	Moderator: Prof. Nathan Ogechi, Deputy Vice-Chancellor, Student Affairs, Moi University Co-Moderator: Dr. Mingwei Zhao, Director, International Cooperation Office, Donghua University
12.00–12.15	Chief Guest Address - Representative from Chinese Embassy in Kenya	
12.15- 12.20	Vote of Thanks – Conference Logistics Chairperson, Prof. C. Lagat	Rapporteurs: Dr. Milton M'Arimi ICT Technician: Steve Mumo
12.20- 12.30	Announcements – Conference Scientific Chairperson, Dr F. Nyamwala	
12.30	POSTER SESSION /EXHIBITION	
	End of Conference	