

## ESACC-TCCA CONFERENCE PRESENTATION SCHEDULE

DAY WEDNESDAY 15<sup>TH</sup> JUNE 2016

TIME PLAN	REF		
08:30-09:00 am		REGISTRATION	SECRETARIAT
		Opening session	
09:00-10:00 am		Opening Ceremony	Mr. Charles Mirikau
10:00-10:30 am	Key note	Vision 2030 Scientific – Industrial pillar: Building a healthy Economy	<b>Geoffrey N. Kamau</b> , University of Nairobi, Nairobi, Kenya
10:30-11:00 am		HEALTH BREAK	All
		<b>Session 1: Chair, Dr. John Wasswa</b>	<b>Presenter</b>
11:00-11:20 am	SL1	Persistence, Microbial Bioaccessibility and Microbial Bioavailability of Pesticides in the Aquatic Environment: Characterization in terms of Pseudo Zero Order Kinetics.	<b>Mark F. Zaranyika</b> , University of Zimbabwe, Harare, Zimbabwe
11:20-11:40 am	SL2	Environmental and Health Impacts of Lead Acid Battery Recycling in Kenya	<b>Faridah H. Were</b> , University of Nairobi, Nairobi, Kenya
11:40-12:00 pm	SL3	Preparation, Characterization and Property Evaluation of ‘Antibody Like’ Nanoparticles for Recognition of Organic Pollutants	<b>Onesmus Muniyati</b> , University of Zambia, Lusaka, Zambia
12:00-12:20 pm	SL4	Pollution Load Monitoring- An Effluent Discharge Management Tool for Municipalities in Kenya	<b>David K. Kariuki</b> , University of Nairobi, Nairobi, Kenya
12:20-12:40 pm	SL5	Cytotoxicity of 91 Kenyan indigenous medicinal plants towards human CCRF-CEM leukemia cells.	<b>Leonidah K. Omosa</b> , University of Nairobi, Nairobi, Kenya
12:40-13:00 pm	SL6	Assessment of Heavy Metal Pollution in Selected Urban Farms in Nairobi County, Kenya	<b>John. O. Onyatta</b> , University of Nairobi, Nairobi, Kenya
13:00-14:00 pm		LUNCH BREAK	
		<b>Session 2: Chair, Prof. Mark F. Zaranyika</b>	<b>Presenter</b>
14:00-14:20 pm	SL 7	Collision Induced Dissociation Studies (CID) of 1,10-Phenanthroline Complexes: Competition Between Simple Cid and Coulomb Fission Processes	<b>Holliness Nose</b> , Technical University of Kenya, Nairobi, Kenya
14:20-14:40 pm	SL 8	Green Synthesis of Silver Nanoparticles using Citrullus Lanatus (Water Melon) rind extract and their antimicrobial Applications	<b>Naumih M. Noah</b> , United States International University-Africa, Nairobi, Kenya
14:40-15:00 pm	SL 9	Chlorpyrifos Interactions with Sediments from Lake Victoria: Sorption on Container Walls and Concentration, Sorption and Degradation in Sediments	<b>John Wasswa</b> , Makerere University, Kampala Uganda
15:00-15:20 pm	SL10	A Database of Natural Products of Kenya for Drug Discovery	<b>Albert Ndakala</b> , University of Nairobi, Kenya.
15:20-15:40 pm	SL11	Removal of Cu <sup>2+</sup> Ions from Aqueous Solution Using a Naturally Occurring Kenyan Micaceous Mineral.	<b>John N. Wabomba</b> , University of Nairobi, Kenya
15:40-16:00 pm	SL12	Waste Tyres in the Environment: Management	<b>Fredrick Oduor</b> ,

		and Opportunities for Value addition	University of Nairobi, Nairobi, Kenya
16:00-16:30		HEALTH BREAK	
		<b>Session 3: Chair, Prof. Geoffrey Kamau</b>	<b>Presenter</b>
16:30-16:50 pm	SL13	Derivatization Reactions and Reagents for Gas Chromatography Analysis	<b>Francis O. Omoto,</b> Masinde Muliro University of Science and Technology, Kakamega, Kenya
16:50-17:10 pm	SL14	Role of Electrochemistry in Water Quality Management: Kenya in Perspective	<b>Peterson Momanyi Guto,</b> University of Nairobi, Kenya
17:10-17:30 pm	SL15	GC-MS Analysis of volatile constituents in <i>Pleurotus ostreatus</i> (oyster mushrooms) nurtured on industrial waste, bagasse substrate	<b>Lilechi D Baraza,</b> Masinde Muliro University of Science and Technology, Kakamega, Kenya.
17:30-17:50 pm	SL16	Opportunities of Reducing Carbon Footprint in the Building Industry: Case Study of Changing from the Use of Solid Blocks to Hollow Blocks in Dar Es Salaam	<b>Mbogo S.A.,</b> Open University of Tanzania , Dar Es Salaam, Tanzania
17:40-18:10 pm		<b>Key Note 2:</b>	
18:10-18:30		<b>Award Ceremony</b>	

End of day 1 presentations

**DAY 2 THURSDAY 16<sup>TH</sup> JUNE 2016**

<b>TIME PLAN</b>	<b>REF</b>	<b>TITLE</b>	
08:00-08:20 am		REGISTRATION	
		<b>Session 4: Chair, Sreekantha B. Jonnalagadda</b>	<b>Presenter</b>
08:20-08:50 am	Key note	Indoor Air pollution from Biomass Stoves in Kenyan Homes	<b>Jacob Kithinji</b> , Department of Chemistry, University of Nairobi, Kenya
08:50-09:10 am	SL 17	Air Quality Assessment Through Enhanced and Low-Cost Monitoring – A Pilot Study in Nairobi	<b>Victor Nthusi</b> , Thematic Assessments Unit, Division of Early Warning and Assessments, UNEP.
09:10-09:30 am	SL18	Impact of Modern Technology on Lignocellulosic Material from Physic Nut Shell as Strategy for Climate Change	<b>Onifade T. Bola</b> . Ladoke Akintola University of Technology, Ogbomoso, Nigeria.
09:30-09:50 am	SL 19	EADN Passive Sampling of Selected Atmospheric Gaseous Compounds in Ambient Air Across the Sub-Saharan African Great Lakes	<b>Vincent O. Madadi</b> , University of Nairobi, Kenya.
09:50-10:10 am	SL 20	Dissipation Kinetics of 14C-Hexachlorobenzene in two Tropical Clay Soils under aerobic conditions	<b>Fredrick Orori Kengara</b> , Maseno University, Maseno, Kenya
10:10-10:30 am	SL 21	Dissipation Studies of Selected Acaricides used in Cattle Dips in Bureti and Assessment of their Residue Levels in Water, Soil and Sediments	<b>Kipnetich Bernard</b> , University of Nairobi, Nairobi, Kenya.
10:30-11:00 am		HEALTH BREAK	
		<b>Session 5: Chair, Prof. Shaban Mbogo</b>	<b>Presenter</b>
11:00-11:20 pm	SL22	Structural, Kinetic and DFT Studies of the Transfer Hydrogenation of Ketones Mediated by (Pyrazole) pyridine Iron(II) and Nickel(II) Complexes	<b>Stephen O. Ojwach</b> , University of KwaZulu-Natal, Johannesburg, South Africa
11:20-11:40 pm	SL23	Qualitative Study of Electrode Process and the “Following” Non-Electrode-Dependent Rate Constant $k_{ec}$ of Cyanocobalamin under Different Experimental Conditions.	<b>Tabitha Wangui Wanjau</b> , Kisii University, Kenya
11:40-12:00 pm	SL24	Removal of Malachite Green Dye from Aqueous Solutions by Rice Husk	<b>V.M. Muinde</b> , University of Nairobi, Kenya
11:40-12:00 pm	SL 25	Wheat husk as an adsorbent for dye removal from water	Sharon Komindany, University of Eldoret, Kenya
12:00-12:20 pm	SL26	Electrocatalytic Decomposition of (3AR,7AS)-2-[(Trichloromethyl)Sulfanyl]-3A,4,7,7A-Tetrahydro-1H-Isoindole-1,3(2H)-Dione (Captan) Pesticide Residue Using Cyanocobalamin on Glassy Carbon Electrode	<b>Catherine Muya</b> , Technical University of Kenya, Nairobi, Kenya.
12:20-12:40 pm	SL27	Assessment of Nutrient Levels and Trophic Status of Lake Naivasha Basin, Kenya	<b>Jason Mzuga</b> , Egerton University, PO Box 536, Egerton, Kenya
12:40-13:00 pm	SL28	Efficiency of two Simple Low-Cost Soil Decontamination Methods for Pesticide Contaminated Soils Taken from Elgourashi Pesticide Stores and Burial Site, The Sudan	<b>Nabil H.H. Bashir</b> , University of Gezira, wad Medani, Sudan.
13:00-14:00 pm		LUNCH BREAK	
		<b>Session 6: Chair, Dr. Stephen O. Ojwach</b>	<b>Presenter</b>
14:00-14:20 pm	SL 29	Hyperconjugation-Flattened Trialkylamines	<b>David S. Makhanu</b> , Karatina University,

			Karatina, Kenya.
14:20-14:40 pm	SL 30	<i>Eucalyptus corymbia</i> Template Assisted Silver Nanoparticles (AgNPs): Characterization, Electrochemistry and Antimicrobial Activity	<b>Imaculate Michira,</b> University of Nairobi, Nairobi Kenya
14:40-14:40 pm	SL 31	Synthesis and characterisation of modified tungsten oxide (WO <sub>3</sub> ) nanoparticles for degradation of parabens in water	<b>Eric M. Ngigia,</b> University of Johannesburg, South Africa.
14:40-15:00 pm	SL 32	Green Route Synthesis Of Zno Nanoparticles, Characterization And Application In Ethanol Sensing	<b>Ochieng Phillis Emelda'</b> Department of Chemistry, University of Nairobi, Kenya
15:00-15:20 pm	SL 33	Assessment of Organochlorine Pesticides Residue Levels in Water, Sediments and Soil from Rice Irrigation Schemes-Case Study of Ahero and Bunyala Irrigation Schemes, Kenya	<b>Dickens Ouma Omondi,</b> University of Nairobi, Kenya.
15:20-15:40 pm	SL 34	Enhancement of Degradation of Persistent Agricultural Chemicals in Soils: Strategy for Decontamination of Polluted Environments	<b>Zachary Getenga1,</b> Chuka University, Chuka, Kenya.
15:40-16:00 pm	SL 35	Determination of Levels of Phthalic Acid Esters (PAEs) in Solar Disinfected (SODIS) Water Stored in Plastic Bottles	<b>Annah Kerandi,</b> University of Nairobi, Kenya
16:00-16:30 pm		HEALTH BREAK	
		<b>Session 7: Chair, Dr. Albert Ndakala</b>	<b>Presenter</b>
16:30-16:50 pm	SL 36	Organochlorine Pesticide Residue levels in Soil from Rusinga Island, Kenya	<b>Enock M. Osoro,</b> University of Nairobi, Kenya
16:50-17:10 pm	SL 37	Solvent Micro-Extraction: A Potent Tool for Analytical and Environmental Chemists Towards Fighting the Environmental Dilemma in African States	<b>Mosotho J. George,</b> National University of Lesotho, Lesotho – Southern Africa.
17:10-17:30 pm	SL 38	Assessment of Pesticides and Heavy Metals Contamination in Lake Elementaita Drainage Basin	<b>Vane Bonareri Ondiere,</b> University of Nairobi, Kenya.
17:30-17:50 pm	SL 39	Modeling of Experimental Adsorption Isotherm Data for chlorothalonil by Nairobi River sediment	<b>James Kamau,</b> University of Nairobi, Kenya.
17:50-18:10 pm	SL 40	Aluminum Salts as Alternative Catalysts for Preparation of Biodiesel from Trap Grease (High Free Fatty Acid Feedstocks)	Solomon B Simiyu, Karatina University, Kenya.
18:10-18:30 pm	SL 41	Facile Approach towards Increasing the Nitrogen-Content in Nitrogen-Doped Carbon Nanotubes via Oxidizing Agents	<b>Lucy M. Ombaka,</b> Dedan Kimathi University of Technology, Nyeri, Kenya

End of day 2 presentations

**DAY 3 FRIDAY 17<sup>TH</sup> JUNE 2016**

<b>TIME PLAN</b>	<b>REF</b>	<b>TITLE</b>	
08:00-08:20 am		REGISTRATION	
		<b>Session 8: Chair, Prof. D.K. Kariuki</b>	<b>Presenter</b>
08:20-08:50 am	Key note	Mixed oxides and AOPs in water treatment and Value added conversions	<b>Sreekantha B. Jonnalagadda</b> , School of Chemistry & Physics, University of KwaZulu-Natal, South Africa.
08:50-09:10 am	SL 42	Copper levels in soils obtained from coffee farms along Ruiru River and Rutui River in Central Kenya	<b>John M. Wanjohi</b> , University of Nairobi, Kenya
09:10-09:30 am	SL 43	Undescended Testes (Cryptorchidism) in Boys Below 10 Years in Thigio Ndeiya Ward Kiambu County	<b>James Kamau Mbugua</b> , University of Nairobi, Kenya.
09:30-09:50 am	SL 44	Assessment of the Fate of Selected Pesticides Applied on Vegetables in Naivasha Area	<b>Emily Okworo</b> , University of Nairobi, Kenya.
09:50-10:10 am	SL 45	Preparation of polyacrylonitrile nanofibers modified with EDTA for adsorption of ionic dyes	<b>Cháuque E. F. C.</b> , University of Johannesburg, South Africa.
10:10-10:30 am	SL 46	Determination of Physico-Chemical Characteristics and Biological Contamination of Water Drawn from selected Water Sources in Kenya	<b>Florence A. Masese</b> , University of Nairobi, Kenya
10:30-11:00 am		HEALTH BREAK	
		<b>Session 9: Chair, Prof. Bashir Nabir</b>	<b>Presenter</b>
11:00-11:20 pm	SL 47	Dioxin and Furans Sources in the Kenyan Environment	<b>Charles W. Mirkau</b> , University of Nairobi, Nairobi, Kenya
11:20-11:40 pm	SL 48	Anilino-functionalized reduced graphene oxide intercalated with Pt metal nanoparticles for application as supercapacitor electrode material.	<b>Njagi Njomo</b> , University of Nairobi, Kenya.
11:40-12:00 pm	SL 49	Development of an Electrochemical Sensor based on Polyacrylic Acid/Glassy Carbon Electrode for Detection of Selected Heavy Metals in Water	<b>Moses O. Oyagi</b> , University of Nairobi, Kenya.
11:40-12:00 pm	SL 50	Reference material development- a case study in inorganic chemical metrology	<b>Kang'iri Njeri Jacqueline</b> , Kenya Bureau of Standards, Nairobi, Kenya.
12:00-12:20 pm	SL 51	Importance of Quality Assurance of Reinforced Steel Bars for Structural Purposes	<b>Tabitha Orwa</b> , Kenya Bureau of Standards, Nairobi, Kenya.
12:20-12:40 pm	SL 52	OCP and PCB residue levels in Fish from Nandi-Lower Nyando sub-catchment	<b>Ntusi V K.</b> , University of Nairobi, Nairobi
12:40-13:00 pm	SL 53	Assessment of Selected Antibiotics in Ngong River and their Removal Using Activated Carbon	<b>Michael Opanga</b> , University of Nairobi, Kenya.
13:00-14:00 pm		LUNCH BREAK	
		<b>Session 10: Chair, Onesmus Munyati</b>	<b>Presenter</b>
14:00-14:15 pm	SL 54	Determination of Selected Mycotoxins Associated with Sun Dried Rastrineobola Argentea in Nairobi County, Kenya	<b>Lawrence Odhiambo Aloo</b> , University of Nairobi, Kenya.
14:15-14:30 pm	SL 55	Assessment of Pesticide Residue Levels in Khat, Water, Sediment And Soil, in Khat Growing Areas A case Study of Igembe South, Meru County, Kenya	<b>Vivian Gacheri</b> , University of Nairobi, Kenya
14:30-14:45 pm	SL 56	Investigation of Mutagenicity of Solar Disinfected (SODIS) Water Stored in Plastic Bottles	<b>Annah Kerandi</b> , University of Nairobi, Kenya
14:45-15:00 pm	SL 57	Assessment of Total Petroleum Hydrocarbons, Oil and Grease in Water and Sediments of Ngong' and Mathare Rivers	<b>Edna Masenge</b> , Kenya Industrial Research and Development Institute, Nairobi, Kenya.
15:00-15:15 pm	SL 58	Analysis of Toxic Heavy Metals in Glass Beads and Thermoplastic Road Markings Using X-Ray Fluorescence Spectroscopy	<b>Karanja Emily W.</b> , University of Nairobi, Kenya

15:15-15:30 pm	SL 59	Dissipation Studies of RidomilGold and Actara 25WG Pesticides on Potatoes and Snow Peas in Nyandarua County	<b>Boniface N. Kamau,</b> University of Nairobi, Nairobi Kenya.
15:30-15:45 pm	SL 60	Microcystins' Biodegradation in Surface Waters via Biomolecular Approach: Case of Hulupi Lake (Taiwan)	<b>KANSOLE M. M. Regina</b> Taiwan
15:45-16:00 pm	SL 61	Graphene decorated Silica coated magnetic nanocomposite as an adsorbent for extraction of Organophosphorus pesticides from water	<b>Wayayi V.W.O,</b> University of Johannesburg, South Africa
16:00-16:15 pm	SL 62	Mathematical Modelling For Biogas Production	<b>Antony N. Matheri,</b> University of Johannesburg; Doornfontein, Johannesburg 2028 South Africa
16:15-16:30 pm	SL 63	Electrochemical treatment of azo- dye textile wastewater: Case study of Rivatex, Eldoret, Kenya.	<b>Maghanga J.K.,</b> Taita Taveta University College, Voi, Kenya
16:30-16:45 pm	SL64	The Influence of Particle Size and efficiency of pretreated Moringa oleifera in removal of bimetallic cations Cd <sup>2+</sup> , Pb <sup>2+</sup> , Cu <sup>2+</sup> and Zn <sup>2+</sup> ions from waste waters	<b>John L. Kituyi</b> -University of Eldoret, Kenya.
16:45-17:00 pm	SL65	Synthesis and Characterization of Tris-cyclometalated Iridium (III) and Ruthenium (II) complexes and Their Contribution to Industrialization in Africa	<b>Rachael E.N. Njogu,</b> University of Nairobi, Kenya

End of day 3 presentations