

Managing Resources Through Chemistry: Wealth not Waste

University of Nairobi, Chiromo Campus, Nairobi, Kenya 6-8th November 2018

Tuesday 6th November 2018

9.00 Registration open (Coffee available from 9.30 am) Opening Ceremony Chair: Jacob Midiwo, PACN Chair, Kenya 10.30 - David Rees, Astex Pharmaceuticals and Royal Society of Chemistry, UK 10.40 - Susie Kitchens, British Deputy High Commissioner for Kenya 10.50 - Catherine Lukhoba, NAPRECA 11.00 - Leonard Gitu, Kenya Chemical Society, Kenya 11.10 - John Onyari, Chairman, Department of Chemistry, University of Nairobi, Kenya 11.20 - Christopher Nyamai, Dean, School of Physical Sciences, University of Nairobi 11.30 - Bernard Aduda, Principal, College of Biological and Physical Sciences, Uni of Nairobi, Kenya 11.45 Conference photograph for all delegates SESSION 1: Green Chemistry: Environmentally Sustainable Practices Chair: Ducie Mulholland University of Surrey, UK Green Chemistry and Sustainable Development Goals: Exploiting Unvoidable Food Supply Wastes for Re-nutrition Avtar Mathuru University of York, UK New Bioplastics from Iron Weed (Vernonia Galamensis): A supercritical approach Yonas Chebude Addis Ababa University, Ethiopia Biochemical catalyst in anaerobes: Untapped Novel energy conserving mechanisms for enhancing Biofuels and biogas productions in anaerobic reactors Samuel Muturi University of Eldoret, Kenya 13.20 LUNCH Transformation of waste biomass into platform chemicals and bio-fuels: The role of catalysts and green approaches to the chemicals transformations Gershon Amenuvor University of Johannesburg, South Africa Potential of Green Nanotechnology in Kenya Naumih M. Noah United States International University Africa, Kenya Cashew nut shell in the production of value-added eco-friendly products and sustainable energy applications Sixberth Milowe University of Dar es Salaam, Tanzania	1 2 2 2 2 4 7	November 2018
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15.30	COFFEE BREAK
	Anthocyanins as green indicators of end points in acid – base titrations
16.00	Robert Byamukama
	Makere University, Uganda
	The Pan Africa Chemistry Network
16.30	Aneesa Ahmed
	Royal Society of Chemistry, UK
	Flash Presentations:
	Greener approaches to remediation of food contamination
	Alemayehu Washe
	Hawassa University, Ehiopia
	Environmentally Benign Extraction Processes in Analytical Separation of Essential Oils
17.00	John Kiratu
	University of Embu, Kenya
	Biosynthesis of gold and silver nanoparticles using Kenyan medicinal plants and their
	antibacterial activity
	Jackson Kilonzo
	Kenyatta University, Kenya
17.30	PANEL DISCUSSION – all speakers from this session
17.30	TAIVEL DISCOSSION — all speakers from this session
18.00	Poster Session and Drinks Reception for all delegates
19.45	Speakers Dinner (for speakers and invited guests only)

Wednesday 7th November 2018

	SESSION 2: <u>Waste Reduction, Capturing and Recycling</u> Chair: David Rees, Astex Pharmaceuticals and Royal Society of Chemistry
9.00	Potential for Chitosan Recovery from Crustaceans Wastes in East African Coast Agatha Wagutu Mwenge Catholic University, Tanzania
9.20	The challenges of managing plastic waste in Zambia Kenneth Maseka Copperbelt University, Zambia
9.50	The three fates of air pollution: Tales of organic and black carbon Delphine Farmer Colorado State University, USA
10.20	Synergising International Research Studies into the Environmental Fate and Behaviour of Toxic Organic Chemicals in the Waste Stream (INTERWASTE) Stuart Harrad University of Birmingham, UK
10.50	COFFEE BREAK
11.20	Distribution of activity of carbonic anhydrase in typical basins and its significance in carbon sinks



	Sila Onesmus Nzung'a
	Technical University of Kenya, Kenya
11.40	Electronic Waste Recycling in Ghana and Interventions to Reduce its Impact on Human Health and Environment Kwadwo Ansong Asante
	CSIR Water Research Institute, Ghana
12.00	Towards a Cleaner Environment in Nigeria: An Assessment of the Status of Use, Regulation and Management of Chemicals and Waste in Nigeria Chukwuemeka Isanbor University of Lagos, Nigeria
12.20	Flash Presentations: Application of microbial fuel cells in the degradation of 2,4,5,6-tetrachloroisophthalonitrile (Chlorothalonil) James Kamau University of Nairobi, Kenya Electricity Generation From Septic Waste Water Using Septic Tank As Microbial Fuel Cell Ihesinachi Kalagbor Ken Saro-Wiwa Polytechnic, Nigeria
	Polyethylene and Polyvinylchloride Wastes as Adsorbents for the Sorption of Pb ²⁺ from Aqueous solution Ikechukwu Ejidike Vaal University of Technology, South Africa
12.50	PANEL DISCUSSION – all speakers from this session
13.20	LUNCH
	SESSION 3: <u>Sustainable Management of Plastic Waste</u> : The Case of Kenya Chair: Dr Geoffrey Otieno, Kenya Chemical Society
14.20	Management of plastic waste in urban Kenya – Niche innovations in production and recycling. Leah Oyake-Ombis University of Nairobi, Kenya
15.10	Catalytic conversion of post-consumer polyethene wastes and fractionation to substitute petrol and diesel fuels for automobile use in Kenya Jane Mburu Jomo Kenyatta University of Agriculture and Technology, Kenya
15.30	Managing Plastic Waste at the Kingtom dumpsite in Freetown and elsewhere in Sierra Leone Ronnie Frazer-Williams University of Sierra Leone, Sierra Leone
15.50	COFFEE BREAK
16.20	Sustainable recycling of waste plastics into Plastic Composite Materials for construction industry applications in developing countries Alex Kumi-Larbi Jnr Imperial College, UK



	Title TBC
16.50	Francis Kihumba
	Ministry of Environment, Government of Kenya, Kenya
	Africa's role in the Global 100 Plastic Rivers Network
17.20	Holly Nel
	University of Birmingham, UK
	Chemistry for Drug Discovery
17.50	David Rees
	Astex Pharmaceuticals and Royal Society of Chemistry, UK
	The Royal Society of Chemistry's Local Section in Nigeria
18.20	Chukwuemeka Isanbor
	University of Lagos, Nigeria
18.30	PANEL DISCUSSION – all speakers from this session
19.00	Congress dinner for all delegates who registered online in advance (Venue: University of Nairobi)

Thursday 8th November 2018

THUISUA	y 8 November 2018
	SESSION 4: Biomaterials and Natural Products
	Chair: Prof John Onyari, University of Nairobi, Kenya
9.00	(2R,5S)-Theaspirane Identified from Banana Leaves and Palm wine Extract for Integrated Pest Management of Banana Weevil, Cosmopolites s., on Smallholder farms Samson Abagale University for Development Studies, Ghana
	Rotenoids from East African Plants-Structure, Stereochemistry and Biological Activity
9.20	Abiy Yenesew
	University of Nairobi, Kenya
	Compounds from Wild Mushrooms with Anti-tumor Potential
9.50	Alice Njue
	Egerton University, Kenya
10.10	COFFEE BREAK
	Extraction & Characterisation of Volatile Compounds from the Essential Oils of Sida
10.40	Acuta Burm. f. Leaves & their Larvicidal Activity against Malaria Vectors
10.40	Isaac Njoku
	University of Lagos, Nigeria
	Lead Compounds from African and European Plants: From Discovery to
11.00	Commercialization
	Dulcie Mulholland
	University of Surrey, UK
11.30	Flash Presentations:
	Anti-inflammatory and Cytotoxic Phytochemicals from Lannea rivae and Lannea
	Schweinfurthii Savaihau Yasuha
	Souaibou Yaouba
	University of Nairobi, Kenya



	A novel anthocyanidin with C-ring methoxylation from pink-mauve flowers of Erlangea tomentosa (Asteraceae) as a potential functional food and nutraceutical Christopher Adaku Mbarara University of Science and Technology, Uganda From waste to wealth: Switenia mycrophylla gum, a new gum, for commercial explorations (synthesis, purification, characterazation and utilization) Olusola Adeyanju University of Jos, Nigeria
12.00	Research4Life Training Angeline Djampou United Nations Environment Programme, Kenya
12.30	PANEL DISCUSSION – all speakers from this session
13.00	Lunch
14.00	TBC
14.30	Closing Ceremony and Poster Prize Awards
	CLOSE

Research4Life Training Session:

15.00	Led by Angeline Djampou,
	United Nations Environment Programme, Kenya
	Research4Life provides access to up to 85,000 peer-reviewed international scientific journals, books, and databases from up to 175 world's leading science publishers, and counts more than more than 8700 registered institutions in over 115 countries and territories.
	This now includes the entire journal portfolio from the Royal Society of Chemistry.
	During the Pan Africa Chemistry Network Congress 2018, participants will have an overview of the scientific resources available on the five programmes' portals. They will learn how to browse, search, download and save/print the resources. They will also learn about the eligibility criteria and process that they can begin to use the resources as soon as their institution's registration is processed.