

PACN Congress on Biodiversity  
and Global Challenges:  
A Chemical Sciences Approach



30 November -  
2 December 2014  
Addis Ababa, Ethiopia

**Jupiter Hotel, Addis Ababa**  
**Sunday 30<sup>th</sup> November**

18:30	Registration
19:00	Welcome Dinner

**United Nations Conference Centre**  
**Monday 1<sup>st</sup> December**

08.30	Registration	
09:00	<b>Opening session and welcome</b>	
<b>Biodiversity and Healthcare</b>		
10.10	<b>Fantastic nanofibre colours for analytical diagnosis in health</b> Nelson Torto*, S. Chigome, M. Mohale, B. Mudabuka, D. Ondigo, B. Pule, B. Pletschke, Z. Tshentu <i>Rhodes University, South Africa</i>	<b>Chair:</b> Nigist Asfaw, <i>University of Addis Ababa</i>
10.40	<b>Harnessing the potentials of fungi endophytes from Africa medicinal plants as sustainable sources of novel bioactive molecules</b> Festus Okoye <i>Nnamdi Azikiwe University, Nigeria</i>	
11.00	<b>Isolation of phloroglucinol derivatives and a sterol from a brown alga <i>Ecklonia maxima</i>, potential candidates for the effective treatment of cancer cells</b> Henry Mwangi <i>University of the Western Cape, South Africa</i>	
11.20	<b>Coffee break</b>	
11.50	<b>Africa 2020: GSK's strategy for driving capability, enabling growth and enhancing quality of life</b> Peter Blenkiron <i>GSK, UK</i>	
12.20	<b>High-performance counter-current chromatographic (HPCCC) based large scale isolation procedure for cathine and norpehadrine from khat (<i>Catha edulis</i> Forsk) leaves</b> Minaleshewa Atlabachew Gebretsadik <i>Tshwane University of Technology, South Africa</i>	
12.40	Flash presentations  <b>Discovery of potent antidiabetic agents from the Mauritian floral biodiversity</b> M. Fawzi Mahomoodally <i>University of Mauritius, Mauritius</i>	

	<p><b>Anti-Vancomycin-resistant <i>Enterococcus faecium</i> and <i>E. faecalis</i> activities of polyphenolic triterpenoids from <i>Thespesia garckaena</i></b> Veronica M. Masila <i>University of Nairobi, Kenya</i></p> <p><b>Phytoremediation potentials of <i>Dieffenbachia bownanii</i> and <i>Eleusine indica</i> for cadmium, lead and cobalt</b> Anarado, C.J.O <i>Nnamdi Azikiwe University, Nigeria</i></p>	
13.00	Lunch	
	Biodiversity and Water	
14.00	<p><b>Water quality monitoring and management in North Central Nigeria: The journey so far</b> Yilkur Lohdip <i>University of Jos, Nigeria</i></p>	Chair: Shem Wandiga, <i>University of Nairobi</i>
14.30	<p><b>Synthesis and application of gold and silver nanoparticles as metal-ion contaminant removal media in groundwater samples</b> Francis Nsiah <i>University of Cape Coast, Ghana</i></p>	
14.50	<p><b>Synthesis and application of bio-surfactants for the treatment of water contaminated with insecticides and hydrocarbons</b> Om Prakash Yadav <i>CCS Haryana Agricultural University, India</i></p>	
15.10	Coffee break	
15.40	<p><b>Nanoporous filter membrane from rice husk silica and clay composite for point-of-use water purification in Nigeria homes</b> Enock Dare <i>Federal University Lafia, Nigeria</i></p>	Chair: Yilkur Lohdip, <i>University of Jos</i>
	<p>Flash presentations</p> <p><b>Inclusion of waterbirds-fisheries interactions in conservation policy - case of Sakumo II Lagoon, Ghana</b> Angela M. Lamptey <i>University of Ghana, Ghana</i></p> <p><b>Waste dumps, water pollution and its impact on biodiversity</b> Prof. Joseph N. Egila <i>University of Jos, Nigeria</i></p> <p><b>Removal of Pb<sup>2+</sup> from wastewaters using <i>Diceriocaryum Eriocarpum</i> plant</b> Joshua N. Edokpayi <i>University of Venda, South Africa</i></p>	
16.20	Closing comments	
16.40	Poster session and reception	
19:00	Dinner	

**Tuesday 2<sup>nd</sup> Dec**

09.30	Welcome	
	<b>Biodiversity and Food</b>	
09.40	<b>Speciation, persistence and bioavailability of organic pesticides in the aquatic environment: characterization and definition in terms of a steady state kinetic model that takes into account microbial degradation and adsorption by colloidal and sediment particles</b> Mark Fungayi Zaranyika* and Pamhidzai Dzomba <i>University of Zimbabwe, Zimbabwe</i>	<b>Session Chair:</b> Jacob Midiwo, <i>University of Nairobi</i>
10.10	<b>Potential of indigenous fruit trees for enhancing household food and nutritional security</b> Francis Omujal <i>Makerere University, Uganda</i>	
10.30	<b>Coffee break</b>	
10.50	<b>Insects as a source of diversifying food for nutritional security in Africa</b> Baldwyn Torto <i>International Centre of Insect Physiology and Ecology (icipe), Kenya</i>	
11.20	<b>Orchids of Makete district the southern highlands of Tanzania: diversity, edibility, conservation and implications</b> Lourance Mapunda <i>National Plant Genetic Resources Center. Tanzania</i>	
11.50	<b>The potential of <i>Parinari curatellifolia</i> fruit as raw material for food products</b> Chakare Benhura <i>University of Zimbabwe, Zimbabwe</i>	
12.10	Flash presentations  <b>Declining commercial fish catches in Lake Victoria's Winam Gulf: The importance of restructuring Kenya's aquaculture programme</b> Solomon Omwoma <i>Beijing University of Chemical Technology, Beijing, China</i>  <b>New anthocyanin with potential beneficial nutraceutical and colorant properties isolated from <i>Cyphostemma adenocaula</i> (Vitaceae)</b> Christopher Adaku <i>Makerere University, Uganda</i>  <b>Effect of Zimbabwean herbal tea extracts on cardiac cycle</b> Michael Bhebhe <i>University of Zimbabwe, Zimbabwe</i>	
12.30	<b>Lunch</b>	
	<b>Biodiversity and Energy</b>	
13.30	<b>Progress and challenges facing the production of biofuels around the world. How could the global community work together?</b> Telma Franco <i>Interdisciplinary Center for Energy Planning (NIPE), Brazil</i>	<b>Session Chair:</b> Yonas Chebude, <i>University of Addis Ababa</i>
14.00	<b>Biofuel impacts on ecosystem services, biodiversity and human well-being – the contribution of modelling to integrated land use</b>	

	<b>governance</b> Lorenzo Di Lucia <i>Imperial College London, UK</i>	
14.20	<b>Microwave-assisted ionic liquid extraction of n-alkanes and isoprenoid hydrocarbons from petroleum source rock</b> Akinsehinwa Akinlua <i>Obafemi Awolowo University, Nigeria</i>	
14.40	<b>Coffee break</b>	
15.10	<b>Biofuels supply chains</b> Pat Harvey <i>University of Greenwich, UK</i>	
15.40	<b>Benign methods in the synthesis of Metal - Organic Frameworks (MOFs)</b> Megash Getachew <i>University of Addis Ababa, Ethiopia</i>	
16.00	Flash presentations  <b>Fabrication and characterization of dye sensitized solar cell (DSSC) from <i>Alstonia boonei</i> leaves</b> U.E. Ekpunobi <i>Nnamdi Azikiwe University, Nigeria</i>  <b>Porous 3D carbons based on graphene foam-PVA/phenol-formaldehyde resin composite as electrode material for supercapacitors</b> Bello Abdulhakeem <i>SARChI Chair in Carbon Technology and Materials, University of Pretoria, South Africa</i>  <b><i>Calondendrun Capense</i> and <i>Croton Megalocarpus</i> Perennial Oil Seed Plants: Linking Bioenergy and Biodiversity</b> Agatha W. Wagutu <i>Jomo Kenyatta University of Agriculture and Technology, Kenya</i>	
16.20	<b>Closing summary and next steps</b>	
16.50	<b>Announcement of poster awards</b>	
17.00	<b>Meeting close</b>	