

Sustainable Agriculture; How the Chemical Sciences Can Contribute to Food Security for a Growing Population

AICC, Accra, Ghana, 7th-9th November 2017

Tuesday 7th November 2017

9.00	Registration open (Coffee available from 9.30 am)
10.30	Opening Ceremony Dr Owusu Afriyie Akoto, Honourable Minister Ministry of Food and Agriculture Prof Kwabena Frimpong – Boateng, Honourable Minister, Ministry of Environment, Science, Technology and Innovation Representative of the Vice Chancellor, University of Ghana Representative of the Vice Chancellor, KNUST David Phillips, Past-President, Royal Society of Chemistry Jerome Gallin, Agilent Technologies David Kofi Essumang, Ghanaian Chemical Society
11.45	Conference photograph
	SESSION 1: Chemistry for Crop Protection Chair: David Kofi Essumang, University of Cape Coast, Ghana
12.00	Using natural products to invent new chemicals for crop protection John M Clough, Syngenta, UK
12.30	LUNCH
13.30	Agilent Technologies in Africa Jerome Gallin, Agilent Technologies, France
14.00	Semiochemicals released from Cowpea [Vigna unguiculata (L.) Walp.] upon Herbivory feeding and their potentials in integrated pest management Samuel Osafo Acquaah, KNUST, Ghana
14.20	Levels of some organochlorine pesticides in Cowpea (Vigna Unguiculata (L.) Walp) from South-South and South-West Nigeria Emmanuel Odion, University of Benin, Nigeria
14.40	TBC
15.10	COFFEE BREAK











15.40	Enhancing African Science through Partnership Helen Driver, Royal Society of Chemistry, UK
16.00	Anti-microbial secondary metabolites from Kenyan plants with crop protection potential Jacob Midiwo, University of Nairobi, Kenya
16.30	 Identification of host plant attractants for mango stone weevil management in Ghana Dorcas Osei-Safo, University of Ghana, Ghana Bioassay-guided isolation of active phytochemicals against Tuta absoluta (Meyrick) from Caesalpinia species (Leguminosae)
17.00	PANEL DISCUSSION – all speakers from this session
17.30	Poster Session and Drinks Reception for all delegates
19.30	Speakers Dinner at Tomreik Hotel (for speakers and invited guests only)

Wednesday 8th November 2017

	SESSION 2: Sustainable Agriculture for Economic Development: The Case of Cocoa Chair: John Clough, Syngenta, UK
9.00	Spectrophotometeric analysis of caffeine in five different dried Cocoa (Theobroma cacao) beans and Cocoa powder samples found in Ido markets, Ibadan, Nigeria Dupe Abiona, The Polytechnic, Ibadan, Nigeria
9.20	Pesticide use in cocoa farming in Ghana: Implications for sustainability, food and environmental safety Enock Dankyi, University of Ghana, Ghana
9.50	Role of chemical science in cocoa industry in Nigeria: Successes, challenges and the way forward Paul E Aikpokpodion, Cocoa Research Institute of Nigeria, Nigeria
10.20	COFFEE BREAK
10.50	The Role of Chemistry in the Development of the Cocoa Industry in Ghana Samuel Tetteh Lowor, Cocoa Research Institute of Ghana, Ghana
11.20	Aiding the development of a sustainable cocoa production system in West Africa Fiona Lahive, University of Reading, UK













11.50	Flash Presentations: 1. Effect of sources of N - fortified organic based potassium fertilizer on soil, seedling growth and stem nutrient uptake of TC - 4 hybrid Cocoa in Nigeria Olorunfemi Sunday Ojo Akanbi, Cocoa Research Institute of Nigeria, Ibadan
12.10	Human exposure assessment of Ochratoxin a through the consumption of cocoa beans from four cocoa regions of Ghana and the potential public health risk Ray Voegborlo, KNUST, Ghana
12.30	Technologies for managing major crop protection issues in cocoa and other African crops Adrian Arnold, International Pesticide Application Research Consortium (IPARC) and ACIS R&D Ltd, UK
13.00	PANEL DISCUSSION – all speakers from this session
13:30	LUNCH
	SESSION 3: Future Farming Chair: David Phillips, Past-President, Royal Society of Chemistry
14.30	The practical application of science & technology to boost Cocoa productivity; community & family income Kingsley Adade, Syngenta Agro Ag, Ghana
15.00	An integrated approach to siting grain storage facilities to reduce transportation cost in developing countries Emmanuel Essien, University of Ghana, Ghana
15.20	Agricultural mechanization as a means of making agriculture more sustainable Mahama Aliu Aduna, University of Ghana, Ghana
15.50	COFFEE BREAK
16.20	Improving your research communication skills through AuthorAID Ravi Murugesan, INASP, India
16.50	Effect of storage on lutein levels in smooth cayenne (Ananas comosus) grown in Kenya Hudson Nyambaka, Kenyatta University, Kenya











	Flash Presentations: 1. Cultivation vs. wild harvesting of Cryptolepis sanguinolenta, a medicinal plant
17.10	 used in the treatment of malaria Naalamle Amissah, University of Ghana, Ghana 2. Emerging technologies in food production: Edible insects as food and feed John Masani Nduko, Egerton University, Kenya 3. Land use conflict between farmers and herdsmen – implication for agricultural and rural development in Nigeria Michael Adedotun, Michael Adedotun Oke Foundation, Nigeria
17.40	Optimized production of selected indigenous fruit trees for food and nutrition security in the Lake Victoria Basin, Eastern Africa Francis Omujal, Natural Chemotherapeutics Research Institute, Uganda
18.00	PANEL DISCUSSION – all speakers from this session
18.45	Buses depart AICC for all delegates
19.00	Congress Dinner at the National Theatre of Ghana - For all registered attendees
	Buses return from the National Theatre

Thursday 9th November 2017

	SESSION 4: Crop and Soil Nutrition Chair: Johannes Awudza, KNUST, Ghana
9.00	Optimizing site specific fertilizer recommendations for maize production in transition zone of Ghana Olufisayo Onawumi, Forestry Research Institute of Nigeria, Nigeria
9.20	Putting nitrogen fixation to work for smallholder farmers in northern Ghana: Progress and achievements Samuel Adjei-Nsiah, International Institute of Tropical Agriculture, Ghana
9.50	Food security for a growing population in Ghana – the role of The Soil Research Institute Emmanuel Dugan, CSIR, Soil Research Institute, Ghana
10.10	COFFEE BREAK
10.40	The British Council in Ghana Enyonam Sedode, British Council, Ghana













11.00	TBC
11.30	 Plash Presentations Quantification of copper sorption in soils as influenced by soil characteristics using a laboratory column leaching technique Mandela Alema, CSIR Soil Research Institute, Ghana Preparation of organic fertiliser from malted sorghum mash and pig manure for sustainable agriculture in northern Ghana Emmanuel Oyelude, University for Development Studies, Ghana Synergistic use of arbuscular mycorrhiza fungi and organic fertilizer for improving amaranthus cruentus cultivated under different soil moisture regimes Adebisi Adekanmbi, Obafemi Awolowo University, Nigeria
12.00	AGORA and Research4life: reducing the knowledge gap by providing access to critical scientific research Kristin Kolshus, Food and Agriculture Organization of the United Nations, Africa
12.20	TBC
12.50	PANEL DISCUSSION – all speakers from this session
13.20	Lunch
14.20	Analytical Skills Training – in partnership with GSK Ray Voegborlo, KNUST, Ghana
14.40	Farming for the Future: the role of smart agriculture Prof Hans Adu-Dapaah, CSIR-Crops Research Institute
15.10	Closing Ceremony and Poster Prize Awards
15.40	Coffee available
	CLOSE







