

Insects for the Green Economy Conference

Theme: **Sustainable Food Systems and Livelihoods in Africa**

Date 28th – 29th February 2024

Venue The African Institute for Capacity Development (AICAD) at Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya.

CONFERENCE PROGRAM

TIME	ACTIVITY/TOPIC	SPEAKER	ORGANIZATION
Day 1: Wed 28th Feb 2024 – Room 1 Chair: Prof. Kinyua; Rapporteur: Dr. Menaga			
08:30 - 09:00	Onsite Registration	Dr. Kinyuru	
09:00 - 09:20	Overview of conference theme	Prof. Nanna Roos	University of Copenhagen, Denmark
09:20 - 09:40	Remarks:	Dr. Abdou Tenkouano	DG, <i>icipe</i> , Kenya
09:40 - 10:00	Remarks	Donor Representative	DANIDA, Denmark
10:00 - 10:20	Remarks	Dr. Dorte Verner	WORLD BANK, USA
10:20 - 10:40	Remarks	Prof. Victoria Ngumi	VC, JKUAT, Kenya
10:40 - 11:00	Remarks	Hon. Franklin Mithika Linturi	Cabinet Secretary, Ministry of Agriculture & Livestock, Kenya
11:00 - 11:30	Chief Guest speech	H.E. Rachel Ruto	First Lady, Kenya
11:30 - 11:50	Group Photo, Tea break & Exhibitions		
Keynote lectures - Room 1; Chair: Prof. Ayieko, Rapporteur: Dr. Ssepuyya			
11:50 - 12:10	Keynote lecture 1: Generate knowledge and learning of insect farming for human food and animal feed for increased food security in Sub-Saharan Africa	Dr. Dorte Verner	WORLD BANK, USA
12:10- 12:30	Keynote lecture 2: Prospects of implementing black soldier fly (BSF) selective breeding in Kenya and Uganda: Status from the FlyGene project	Prof. Grum Gebreyesus	Aarhus University, Denmark
12:30 - 12:50	Keynote lecture 3: Investigating pathways to accelerate insect farming and consumption for health and livelihoods in Africa: The HEALTHYINSECT project	Prof. Nanna	University of Copenhagen, Denmark

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12:50 - 13:10	Questions and Answers		
13:10 - 14:10	Lunch Break, Poster Session, and Exhibitions		
Breakout Sessions			
Session 1: Room 1 - Insect Species – Biology and Ecology; Insect Production Systems; Chair: Dr. Anankware; Rapporteur: Dr. Nyakeri			
14:10 - 14:25	Unraveling Genetic Diversity and Population Structure of Black Soldier Fly (<i>Hermetia illucens</i>) in Kenya and Uganda	Peter Muchina	JKUAT, Kenya
14:25 - 14:40	Insect pathogens and other unwanted organisms in insect production	Jørgen Eilenberg	University of Copenhagen, Denmark
14:40 - 14:55	First account of smallholder farmers' experiences in rearing edible grasshopper, <i>Ruspolia differens</i> (Serville) (Orthoptera: Tettigoniidae), in Uganda	Nyeko Philip	Makerere University, Uganda
14:55 - 15:10	Effects of supplementing agricultural by-product diets on growth and reproductive parameters of the edible grasshopper, <i>Ruspolia differens</i> (Orthoptera: Tettigoniidae)	Acur Amos	Makerere University, Uganda
15:10 - 15:25	Computer-vision based prediction of body traits and larval sex in Black Soldier Fly	Nawoya Sarah	Aarhus University, Denmark
15:25 - 15:40	Influence of compound diets on the growth, quality and feed conversion rates of the yellow mealworm (<i>Tenebrio molitor</i> Linnaeus)	Ssepuuya Geoffrey	Kyambogo University, Uganda
15:40 - 15:55	<i>Rhynchophorus phoenicis</i> Fabricius (Coleoptera: Curculionidae) production: a comparative study of different farming protocols	Shadrack Debrah	University of Energy & Natural Resources, Ghana
15:55 - 16:10	Enhancing Attraction and Aggregation of Desert Locusts for Efficient Harvesting: Push-Pull Approach	Joseph Odhiambo	JOOUST, Kenya
Session 2: Room 2 - Food and non-food applications of insects/Insects in social & economic contexts; Chair: Dr. Konyole; Rapporteur: Dr. Beesigamukama			
14:10 - 14:25	Preserving nutritional integrity and eliminating microbial health risks in edible rhinoceros beetle grubs (<i>Oryctes sp</i>) through appropriate cooking methods.	Marliyn W. Muthee	Icipe, Kenya
14:25 - 14:40	Black soldier fly larvae meal increases profitability in rabbit (<i>Oryctolagus cuniculus</i>) farming.	Mube K. Hervé	University of Dschang, Cameroon
14:40 - 14:55	Exploring consumer acceptability and allergic reactions of cereal-based porridges enriched with edible insects: A multi-country study	Jeremiah Ng'ang'a	JKUAT, Kenya
14:55 - 15:10	Growth performance and food safety concerns associated with edible cricket (<i>Gryllus bimaculatus</i>) raised on diet enriched with heavy metals.	Susan Mwelwa	Copperbelt University, Zambia
15:10 - 15:25	Futuristic nomenclature for edible insect: 'Entoculture' as a practice of farming insects and 'entomeat' as flesh of harvested insect	John Kinyuru	AICAD, Kenya

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15:25 - 15:40	Improving the health, incomes, and nutrition of refugee communities through the rearing of insects. The approach of the RefIPro project in Kyaka II Refugee settlement, Uganda	Violet Gwokyalya	Mothers Against Malnutrition & Hunger, Uganda
15:40 - 15:55	Do cognitive and experiential factors drive the adoption of insect farming among farmers in Africa? Evidence from three countries	Mohammed Hussen Alemu	University of Copenhagen, Denmark
15:55 - 16:10	Antioxidant and antibacterial activity of metabolites of invitro-digestion and fermentation of chitin	Alex Ndiritu	JKUAT, Kenya
16:10 - 17:00	Tea Break, Poster Session, Exhibitions & Social Interactions		
17:00 - 18:00	Cocktail: Coordinator: Prof. Dorothy Nakimbugwe		
END OF DAY 1			
Day 2: Thu 29th Feb 2024 - Room 1			
Chair: Prof. Goutam; Rapporteur: Dr. Chia			
09:10 - 09:30	Keynote lecture 1: From Field to Fork: Edible Insect Product Development and Commercialization in Thailand	Prof. Yupa	Khon Kaen University, Thailand
09:30 - 09:50	Keynote lecture 2: The Global Atlas of Edible Insects: Analysis of Diversity and Commonality Contributing to Food Systems and Sustainability	Dr. Niassy	Africa Union - IAPSC
Session 3: Room 1 - Food and non-food applications of insects/Insects in social & economic contexts; Chair: Prof. Grum; Rapporteur: Dr. Ng'ang'a			
09:50 - 10:05	Total zinc absorption from maize-based meals enriched with edible house crickets in Kenyan pre-school children	Tele Boit	Wageningen University & Research, Netherlands
10:05 - 10:20	Characterization of black soldier fly production systems and traits preferences in Kenya	Rawlynce Bett	UoN, Kenya
10:20 - 10:35	Insect frass fertilizer as circular economy solution for profitable insect farming and improved crop productivity	Dennis Beesigamukama	icipe, Kenya
10:35 - 10:50	Scaling insect farming in sub-Saharan Africa: Implication for circular economy and green growth	Zewdu Abro	icipe, Kenya
10:50 - 11:05	Danish initiatives in selective breeding in insects	Hanne M. Nielsen	Aarhus University, Denmark
Session 4: Room 2 - Food and non-food applications of insects/Insects in social & economic contexts; Chair: Prof. Nyeko; Rapporteur: Dr. Alemu			
09:50 - 10:05	Development of Mealworm-Enriched Snacks and Porridge for Feeding Children in Refugee and Host Communities in Western Uganda	Dorothy Nakimbugwe	Makerere University, Uganda
10:05 - 10:20	Fertigro (BSFF fertilizer) combined with good agricultural practices improves farmer yields on selected crops- a case study of Bomet and Meru counties of Kenya	Mutisya Mary M	InsectiPro Company Limited, Kenya
10:20 - 10:35	Unlocking Soil Enhancement Potential: Black Soldier Fly Frass Amendments in Circular Agriculture	Shaphan Chia	icipe, Kenya

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10:35 - 10:50	Cost-effective aquafeed enriched with <i>Hermetia illucens</i> larvae meal improves growth and fillet quality of Sagana strain of African catfish (<i>Clarias gariepinus</i>)	M. Menaga	icipe, Kenya
10:50 – 11:05	Selective breeding in commercial insects with a house fly model system	Laura S. Hansen	Aarhus University, Denmark
11:05 - 11:35	Tea break		
11:35 - 12:35	Panel discussions – Room 1 Business outlook of the edible insect industry Moderator: Dr. Dorte Verner (World Bank), Rapporteur: Dr. Abro , icipe Panelists: Talash Huijbers (InsectiPro) - Kenya Mugagga (Mamidecot) - Uganda (BSF Association) - Kenya Monica Ayieko (JOUST) - Kenya		
12: 35 - 13:15	Poster Session and Exhibitions.		
13:15 - 14:15	Lunch Break		
Final Session: Closure – Room 1 Chair: Dr. Bett; Rapporteur: Dr. Malinga			
14:15 - 14:25	Student awards		
14:25 - 14:40	Conference overview and resolutions	Dr. Chrysantus Tanga	Head of INSEFF, icipe, Kenya
14:40 - 14:45	Remarks	Prof. Stephen Kiama	VC, UoN, Kenya
14:45 - 14:50	Remarks	Hon. Ann Waiguru	Chair, Council of Governors, Kenya
Fri 1st Mar 2024, 08:00 – 13:00: Field Excursion (JKUAT insect facility & ICIZE)			
END OF THE CONFERENCE!			