



## The Sixth African Higher Education Week and RUFORUM Biennial Conference 2018

### PARALLEL TECHNICAL SESSIONS

**WEDNESDAY 24 October, 2018**

**PARALLEL TECHNICAL SESSION 1: STRENGTHENING POLICY ENVIRONMENT, POLICY ANALYSIS AND FORESIGHT**

**HALL: AMPHI THEATRE**

**SESSION MODERATOR:** Davis, Kristin, International Food Policy Research Institute ([K.Davis@cgiar.org](mailto:K.Davis@cgiar.org))

**RAPPORTEUR:** Dr Jane Yatuha Mbarara University of Science and Technology ([iyatuha@must.ac.ug](mailto:iyatuha@must.ac.ug))

<b>Time</b>	<b>Presentation Title</b>
14:00 – 14:10	Introduction of the Session: Moderator
14:10 – 14:40	<b>Key note speaker</b> Dr. Adam Devenish <a href="mailto:a.devenish@imperial.ac.uk">a.devenish@imperial.ac.uk</a> <b>Presentation 1.1:</b> Achieving food and nutrition security, reducing inequality, and preserving terrestrial ecosystems: 100 critical research questions for decision makers in sub-Saharan Africa
14:40 – 14:50	<b>Discussion</b>
14:50 – 15:20	<b>Key note speaker:</b> Dr. Xiaoting Hou Jones <a href="mailto:xiaoting.hou.jones@iied.org">xiaoting.hou.jones@iied.org</a> <b>Presentation 1.2:</b> Social and environmental trade-offs and the importance of interdisciplinary research in African Agriculture
15:20 – 15:35	<b>Presentation 1.3:</b> Quality and dissemination of information on restoration of Awoja watershed in eastern Uganda (Akello Sarah <a href="mailto:sarahakellok@yahoo.com">sarahakellok@yahoo.com</a> ) - Uganda
15:35 – 15:50	<b>Presentation 1.4:</b> The impact of agricultural liberalization on the production and export of gum Arabic in Sudan (Rabah Hatim Abdalgader <a href="mailto:rabah_hatim@yahoo.com">rabah_hatim@yahoo.com</a> ) - Sudan
15:50 – 16:00	<b>Discussion</b>
16:00 – 16:20	<b>Health Break</b>
16:20 – 16:35	<b>Presentation 1.5:</b> A review Article: Fostering inter-disciplinary research to enhance rural smallholder farmer innovation and technology uptake intention using the farmer group approach (Sebuliba-Mutumba Richard <a href="mailto:rsemur@gmail.com">rsemur@gmail.com</a> ) - Uganda
16:35 - 16:50	<b>Presentation 1.6:</b> On regional university integration: Same degree, different universities (Magumba David <a href="mailto:davmagumba@gmail.com">davmagumba@gmail.com</a> )-Uganda
16:50 – 17:05	<b>Presentation 1.7:</b> Breaking barriers: francophone and Anglophone institutions in training future leaders in west and central Africa--lesson learnt from implementation of AGRA PhD programme, University of Ghana (Daniel Bruce Sarpong <a href="mailto:dbsarpong@ug.edu.gh;akwei7@yahoo.com">dbsarpong@ug.edu.gh;akwei7@yahoo.com</a> )-Ghana
17:05 - 17:20	<b>Discussion</b>
17:20 - 17:35	<b>Presentation 1.8:</b> Comparison between Egerton University's outreach teaching methods and farmer-preferred methods – farmer feedback and experiences (Ondiege E. <a href="mailto:mwmlcah@gmail.com">mwmlcah@gmail.com</a> )- Kenya
17:35 – 17:50	<b>Presentation 1.9:</b> Transforming African Agricultural Universities to meaningfully contribute to Africa's growth and development (TAGDev) Program implementation at Egerton University (Mungai Nancy W <a href="mailto:mungai@egerton.ac.ke">mungai@egerton.ac.ke</a> )-Kenya
17:50 – 18:05	<b>Presentation 1.10</b> Land conversion is changing the landscape in the semi-arid Kapir catchment, northeastern Uganda (Osaliya Richard <a href="mailto:osaliya@yahoo.com">osaliya@yahoo.com</a> )-Uganda
18:05 – 18:20	<b>Presentation 1.11:</b> Effect of improved seed system on potato yields in Uganda (Monica Kigambo <a href="mailto:monicakigambo@gmail.com">monicakigambo@gmail.com</a> )-Uganda
18:20 – 18:35	<b>Presentation 1.12:</b> Why do smallholder farmers fail to use certified seed potato? the case of Nakuru county, Kenya (Nkurumwa Agnes O <a href="mailto:akibe@egerton.ac.ke">akibe@egerton.ac.ke</a> )-Kenya
	<b>Discussion and Wrap-Up</b>

Page 1 of 15

CO-ORGANISERS:





**PARALLEL TECHNICAL SESSION 2: ADDRESSING CLIMATE CHANGE AND EXTREME WEATHER EVENTS IN DEVELOPMENT**

**HALL:** IMPALA/LAKE TURKANA

**SESSION MODERATOR:** Prof Vincent O. Onywera, Kenyatta University, Kenya [onywera.vincent@ku.ac.ke](mailto:onywera.vincent@ku.ac.ke)

**RAPORTEUR:** Agoyi, Etchikinto Eric, University of Abomey-calavi (UAC), Benin [ericagoyi@gmail.com](mailto:ericagoyi@gmail.com)

Time	Presentation Title
14:00 – 14:10	Introduction of the Session by Moderator
14:10 – 14:30	<b>Key note speaker</b> Dr Esther Kimani (KEPHIS- Kenya) <a href="mailto:ekimani@kephis.org">ekimani@kephis.org</a> ; <a href="mailto:director@kephis.org">director@kephis.org</a>
	<b>Presentation 2.1:</b> Addressing climate change and extreme weather events in development
14:30 – 14:40	<b>Discussion</b>
14:40 – 14:55	<b>Presentation 2.2:</b> Projected climate change in the different climatologically homogenous rainfall zones of Uganda (Majaliwa Gilbert Jackson Mwanjololo <a href="mailto:majaliwam@gmail.com">majaliwam@gmail.com</a> )- DRC
14:55 – 15: 10	<b>Presentation 2.3:</b> Factors influencing women's decision to adapt to climate change in Haramaya District, Ethiopia (Maysoon A.A. Osman <a href="mailto:osmanmaysoon@gmail.com">osmanmaysoon@gmail.com</a> ) - Sudan
15:10 – 15:25	<b>Presentation 2.4:</b> The impact of climate change on agriculture production and food security situation, in Abuharaz Administration, North Kordofan State- Sudan (Elshima Abdelbagi Osman <a href="mailto:shimashabour@yahoo.com">shimashabour@yahoo.com</a> ) - Sudan
15:25 – 15:40	<b>Presentation 2.5:</b> Climate change and smallholder livestock production: Impacts and adaption strategies in Ethiopia (Habtemariam Assefa <a href="mailto:assefahabtemariam@yahoo.com">assefahabtemariam@yahoo.com</a> ) - Ethiopia
15:40 – 16:00	<b>Discussion</b>
16:00 - 16:20	<b>Health Break</b>
16:20 – 16:35	<b>Presentation 2.6:</b> Identification of heat stress adaptive traits in some bread wheat genotypes under Gezira condition- (Wala M. Abedalla <a href="mailto:wlaaldokmy22500@gmail.com">wlaaldokmy22500@gmail.com</a> ) - Sudan
16:35 - 16:50	<b>Presentation 2.7:</b> Variability of some sorghum ( <i>Sorghum bicolor</i> L. Moench) genotypes under microcatchment and tilled natural land conditions in Gardud soils in Elobeid, Sudan (Yagoub Suliman Abdallah <a href="mailto:yagoubsoleiman@yahoo.com">yagoubsoleiman@yahoo.com</a> ) - Sudan
16:50 – 17:05	<b>Presentation 2.8:</b> Contribution of non-wood forest products in income and livelihood of rural community in dry lands of central Darfur State, Sudan (Alnazeer Abdallah M. Ahmed <a href="mailto:alnazeerashikh8@gmail.com">alnazeerashikh8@gmail.com</a> )- Sudan
17:05 - 17:20	<b>Presentation 2.9:</b> Barriers and opportunities for intensification of the coffee-banana agroecosystem of the Mt. Elgon in Uganda Christopher Sebatta <a href="mailto:sebattac@gmail.com">sebattac@gmail.com</a> )-Uganda
17:20 – 17:35	<b>Discussion</b>
17:35 – 17:50	<b>Presentation 2.10:</b> Agronomic performance of cowpea populations with resistance to <i>Fusarium redolens</i> in three agro-ecological zones in Uganda (Auma Sharon <a href="mailto:asharona24@yahoo.com">asharona24@yahoo.com</a> )-Uganda
17:50 – 18:05	<b>Presentation 2.11:</b> Combining Ability for Seed yield and yield Components of some Sudanese genotypes of sesame ( <i>Sesamum indicum</i> L.) (Wafaa B. Eltayeb <a href="mailto:wafaabadawi90@gmail.com">wafaabadawi90@gmail.com</a> )-Sudan
18:05 – 18:20	<b>Presentation 2.12:</b> Assessment of technical efficacy of bench terraces for soil erosion control in Rwanda Eric (Derrick Bugenimana <a href="mailto:isimbiella@gmail.com">isimbiella@gmail.com</a> )-Rwanda
18:20 – 18:30	<b>Discussion and Wrap-Up</b>

**PARALLEL TECHNICAL SESSION 3: HARNESSING THE TRANSFORMATIVE POTENTIAL OF AGRICULTURAL EDUCATION, ADVISORY SERVICES AND COMMUNITY ENGAGEMENT**

**HALL:** ABERDARES

**SESSION MODERATOR:** Prof. Moses Zinnah, Dean, ([mmzinnah57@yahoo.com](mailto:mmzinnah57@yahoo.com))- University of Liberia

**RAPORTEUR:** Prof. Georges Nyamadzawo [gnyama@yahoo.com](mailto:gnyama@yahoo.com) (Bindura University, Zimbabwe)

Time	Presentation Title
14:00 – 14:10	Introduction of the Session

CO-ORGANISERS:





- 14:10 – 14:30 **Key note speaker:** Minde Isaac [mindeisaac3@gmail.com](mailto:mindeisaac3@gmail.com) -Tanzania  
**Presentation 3.1:** Embracing partnership principles in regional and international research collaboration: theory and practice
- 14:30 – 14:40 **Discussion**
- 14:40 – 14:55 **Presentation 3.2:** Perception of TVET students towards the quality of TVET education in Uganda (Edward Bbaale [eddybbaale@gmail.com](mailto:eddybbaale@gmail.com))- Uganda
- 14:55 – 15: 10 **Presentation 3.3:** Implementing graduate research grant: experience from Kyambogo University (Bua Bosco [boscobua@yahoo.com](mailto:boscobua@yahoo.com))- Uganda
- 15:10 – 15:25 **Presentation 3.4:** Contribution of decentralized clean seed potato multiplication enterprises on availability and access to clean seed potato among smallholder farmers in Nakuru County (Ong'ayo Mercy Jerusa [mercyjerusa@rocketmail.com](mailto:mercyjerusa@rocketmail.com))-Kenya
- 15:25 – 15:40 **Presentation 3.5:** Comparison between Egerton University's outreach teaching methods and farmer-preferred methods – farmer feedback and experiences – (Ondiege E.O. [mwamilcah@gmail.com](mailto:mwamilcah@gmail.com) ) - Kenya
- 15:40 – 16:00 **Discussion**
- 16:00 - 16:20 **Health Break**
- 16:20 – 16:35 **Presentation 3.6:** Actor embeddedness and social mechanisms in agricultural innovation platforms: A case of Kiboga-Kyankwanzi innovation platform (Willy Turyahikayo [wturyahikayo@mubs.ac.ug](mailto:wturyahikayo@mubs.ac.ug) )-Uganda
- 16:35 - 16:50 **Presentation 3.7:** Marketing extension needs for sesame farmers, Sheikan locality - North Kordofan State, Sudan – (Rawia Hammed Eneel Mohamed [Rereelneel@gmail.com](mailto:Rereelneel@gmail.com))-Sudan
- 16:50 – 17:05 **Presentation 3.8:** Types and uses of non-wood forest products in Bahr Alarab locality, East Darfur State, Sudan (Ahmed Younis Ibrahim Younis [ahmedforest1988@gmail.com](mailto:ahmedforest1988@gmail.com))- Sudan
- 17:05 - 17:20 **Discussion**
- 17:20 – 17:35 **Presentation 3.9:** Students' community engagement and experiential learning: A case of TAGDev program at Egerton University (Njuguna, V.W [vwanjiku89yahoo.com](mailto:vwanjiku89yahoo.com))- Kenya
- 17:35 – 17:50 **Presentation 3.10:** Gulu University student-centered outreach model enhanced uptake of research innovations in complementary feeding among rural households in Amuru and Nwoya districts in Northern Uganda (Nassanga P [pnassanga@gmail.com](mailto:pnassanga@gmail.com))-Uganda
- 17:50 – 18:05 **Presentation 3.11:** Unravelling the potential of linking formal and informal seed systems in improving access to quality seed Uganda (Sylvia Nabasumba [snabasumba@ucu.ac.ug](mailto:snabasumba@ucu.ac.ug) )- Uganda
- 18:05 – 18:30 **Discussion and Wrap-Up**

#### PARALLEL TECHNICAL SESSION 4: HARNESSING ICT AND DIGITAL POTENTIAL TO INCREASE AFRICA'S COMPETITIVENESS

HALL: SHIMBA HILLS

**SESSION MODERATOR:** Dr Drake Mirembe - [dpmirembe@gmail.com](mailto:dpmirembe@gmail.com); [dmirembe@hotmail.com](mailto:dmirembe@hotmail.com) (Makerere University , Uganda)

**RAPPORTEUR:** Dr Peter Ochieng Jomo Kenyatta University of Agriculture and Technology (JKIA) ([onexpeters@gmail.com](mailto:onexpeters@gmail.com))

**Time Presentation Title**

- 14:00 – 14:10 Introduction of the Session
- 14:10 – 14:30 **Key note speaker:** Hassan M. Suleiman- [hmsuleiman@yahoo.com](mailto:hmsuleiman@yahoo.com))-Sudan  
**Presentation 4.1:** Pastoral mobility and large –scale agricultueal expansion in eastern Sudan
- 14:30 – 14:40 **Discussion**
- 14:40 – 14:55 **Presentation 4.2:** ICT integration for agricultural extension in Kenya (Kamande, A. W. [annkennedys@gmail.com](mailto:annkennedys@gmail.com))- Kenya
- 14:55 – 15: 10 **Presentation 4.3:** Mobile Application Use and Service Quality in Financial Institutions in Uganda (Lilian Tamale [l.tamale@ruforum.org](mailto:l.tamale@ruforum.org)) - Uganda

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- 15:10 – 15:25 **Presentation 4.4:** Unearthing the potential of participatory, and information and communication technologies' led extension and learning approaches in agricultural and environmental education in Uganda (Karubanga Gabriel [amootigabs@gmail.com](mailto:amootigabs@gmail.com)/[gkarubanga@caes.mak.ac.ug](mailto:gkarubanga@caes.mak.ac.ug)) - Uganda
- 15:25 – 15:40 **Presentation 4.5:** Dynamically Processing Agricultural Data from Controlled Legume Sites (Oteyo Isaac Nyabisa [Isaac.Nyabisa.Oteyo@vub.be](mailto:Isaac.Nyabisa.Oteyo@vub.be))-Kenya
- 15:40 – 16:00 **Discussion**
- 16:00 - 16:20 **Health Break**
- 16:20 – 16:35 **Presentation 4.6:** Kenya Research and Education Network, KENET CEO, University of Nairobi (Dr. Meoli Kashorda [mkashorda@kenet.or.ke](mailto:mkashorda@kenet.or.ke); [info@kenet.or.ke](mailto:info@kenet.or.ke))-Kenya
- 16:35 - 16:50 **Presentation 4.7:** Scalability in ontology matching: state of the art analysis (Ochieng Peter [onexpeters@gmail.com](mailto:onexpeters@gmail.com))-Kenya
- 18:20 – 18:30 **Discussion and Wrap-Up**

**PARALLEL TECHNICAL SESSION 5: INCREASING RESEARCH, INNOVATION AND TECHNOLOGY CAPACITY IN POSTHARVEST**

**HALL:** LENANA

**SESSION MODERATOR:** Prof George Chemining'wa- [umchemin@hotmail.com](mailto:umchemin@hotmail.com); [george.cheminingwa@uonbi.ac.ke](mailto:george.cheminingwa@uonbi.ac.ke)

Dean Faculty of Agriculture University of Nairobi

**RAPORTEUR:** Dr Wales Singini - Mzuzu University ([walesingini@gmail.com](mailto:walesingini@gmail.com))-Malawi

**Time Presentation Title**

- 14:00 – 14:10 **Introduction of the Session**
- 14:10 – 14:30 **Key note speaker:** Prof. Umezuruike Linus Opara, Stellenbosch University, South Africa) [opara@sun.ac.za](mailto:opara@sun.ac.za)  
**Presentation 5.1:** Increasing research, innovation and technology capacity in postharvest
- 14:30 – 14:40 **Discussion**
- 14:40 – 14:55 **Presentation 5.2:** Comparative performance analysis of elite hybrid solar dryer and electric dryer coupled with photovoltaic-thermal backup system, and open sun drying of pineapples and mangoes ( Mohammed Ssemwanga [ssemwangaali@gmail.com](mailto:ssemwangaali@gmail.com))-Uganda
- 14:55 – 15:10 **Presentation 5.3:** From the lab to land: taking postharvest management solutions to horticultural farmers through aggregation centers (Jane Ambuko, [ambuko@yahoo.com](mailto:ambuko@yahoo.com); [jane.ambuko@uonbi.ac.ke](mailto:jane.ambuko@uonbi.ac.ke)) - Kenya
- 15:10 – 15:25 **Presentation 5.4:** Improving the culinary quality of cowpea grains in Nigeria (Odogwu A. Blessing [blessing.odogwu@uniport.edu.ng](mailto:blessing.odogwu@uniport.edu.ng)) - Nigeria
- 15:25 – 15:40 **Presentation 5.5:** Application of X-ray micro-computed tomography to detect bruise damage of pomegranate (cv. Wonderful) fruit (Zaharan Hussein [zedymgina@gmail.com](mailto:zedymgina@gmail.com))- South Africa
- 15:40 – 16:00 **Discussion**
- 16:00 - 16:20 **Health Break**
- 16:20 – 16:35 **Presentation 5.6:** Influence of storage facilities on post-harvest losses of sorghum (*Sorghum bicolor*) in the smallholder farming systems of Buhera South and Mwenezi Districts, Zimbabwe (Mapfeka Rudo Florence [gnyamadzawo@buse.ac.zw](mailto:gnyamadzawo@buse.ac.zw))- Zimbabwe
- 16:35 - 16:50 **Presentation 5.7:** Systematic review of literature on the impact of pre-harvest and postharvest factors on pineapple juice quality (Lamptey Francis [P.lamptey.francispadi@gmail.com](mailto:P.lamptey.francispadi@gmail.com); [francis.lamptey@stu.ucc.edu.gh](mailto:francis.lamptey@stu.ucc.edu.gh)) Ghana
- 16:50 – 17:05 **Presentation 5.8:** Effect of postharvest hot water dipping and Calcium Treatment on the Titratable Acidity and Chilling Injury of Banana and Mango Fruits from Mozambique Dovel Branquinho Ernesto [ernestodovel@hotmail.com](mailto:ernestodovel@hotmail.com))- Mozambique
- 17:05 - 17:20 **Presentation 5.9:** Effectiveness of cold chain management practices to extend shelf life of mango fruit Amwoka Emmanuel M [emmanuelamwoka@gmail.com](mailto:emmanuelamwoka@gmail.com))-Kenya

**CO-ORGANISERS:**





- 17:20 – 17:35 **Discussion**  
 17:35 – 17:50 **Presentation 5.10:** Effect of pre and post-harvest application of calcium chloride on the shelf life of physiologically mature mango fruits Bitange, Naphis Mokaya ([mokayanaphis@gmail.com](mailto:mokayanaphis@gmail.com))-Kenya  
 17:50 – 18:05 **Presentation 5.11:** Botanical fungicide for sustainable production of fresh vegetables (Geraldin M. W. Lengai [lengaig@nm-aist.ac.tz](mailto:lengaig@nm-aist.ac.tz))-Tanzania  
 18:05 – 18:20 **Presentation 5.12:** Fruit characteristics and the postharvest stability of different pumpkin (*Cucurbita* Spp) varieties- (Nansikombi Nulu [ybbyaru@gmail.com](mailto:ybbyaru@gmail.com))-Uganda  
 18:20 – 18:30 **Discussion and Wrap-Up**

#### PARALLEL TECHNICAL SESSION 6: CATALYZING COMPETITIVE AGRIBUSINESS, MARKETS AND TRADE

HALL: TSAVO B

**SESSION MODERATOR:** Prof. George Owuor Egerton University ([g.owuor@egerton.ac.ke](mailto:g.owuor@egerton.ac.ke))

**RAPPORTEUR:** Frank Kumi Makerere University [frankkumifk85@gmail.com](mailto:frankkumifk85@gmail.com)

- | Time          | Presentation Title  |
|---------------|---|
| 14:00 – 14:10 | Introduction of the Session   |
| 14:10 – 14:30 | <b>Key note speaker:</b> An agribusiness incubation hub at Bishop Stuart University for innovative and diversified employment opportunities of young graduates (Kalibwani Rebecca Mutebi <a href="mailto:rmkalibwani@yahoo.com">rmkalibwani@yahoo.com</a> ; <a href="mailto:rmkalibwani@as.bsu.ac.ug">rmkalibwani@as.bsu.ac.ug</a> ) - Uganda |
| 14:30 – 14:40 | <b>Discussion</b>   |
| 14:40 – 14:55 | <b>Presentation 6.2:</b> Enhancing agribusiness rice clusters and market linkages for food security and incomes in northern Uganda (Mugonola Basil <a href="mailto:b.mugonola@gu.ac.ug">b.mugonola@gu.ac.ug</a> ) - Uganda  |
| 14:55 – 15:10 | <b>Presentation 6.3:</b> Farmer cooperatives, agricultural technology and their role in South Korean agriculture (Ms. Yongeun Lee <a href="mailto:yongeun.lee@snu.ac.kr">yongeun.lee@snu.ac.kr</a> )- South Korea   |
| 15:10 – 15:25 | <b>Presentation 6.4:</b> The effects of entrepreneurial orientation on enterprise performance: A review paper (Daniel Munyoki Musyoka- Kenya  |
| 15:25 – 15:40 | <b>Presentation 6.5:</b> Integrated Approach towards the management of the fall armyworm ( <i>Spodoptera frugiperda</i> ) (Nzuve Felister <a href="mailto:fmbute@yahoo.com">fmbute@yahoo.com</a> ) - Kenya  |
| 15:40 – 16:00 | <b>Discussion</b>   |
| 16:00 - 16:20 | <b>Health Break</b>   |
| 16:20 – 16:35 | <b>Presentation 6.6</b> Validation of efficacy of rabbit anticoccidial drugs commonly used in Kenya (Ogolla Kennedy Okoth <a href="mailto:kokothogola2008@gmail.com">kokothogola2008@gmail.com</a> )- Kenya   |
| 16:35 - 16:50 | <b>Presentation 6.7:</b> Strengthening micro financing for rural farmers: Evidence from SACCOs in Soroti District, Uganda (Deborah Alio <a href="mailto:deborah.alio@yahoo.com">deborah.alio@yahoo.com</a> )-Uganda   |
| 16:50 – 17:05 | <b>Presentation 6.8:</b> Contract farming participation and performance: the case of leaf tobacco (Apio Docus <a href="mailto:docusapio22@gmail.com">docusapio22@gmail.com</a> )- Uganda  |
| 17:05 - 17:20 | <b>Presentation 6.9:</b> Meta-synthesis of effects of pineapple value chain system on livelihood of smallholder farmers (Shaibu Z <a href="mailto:zikishaibu@yahoo.com">zikishaibu@yahoo.com</a> )- Ghana   |
| 17:20 – 17:35 | <b>Discussion</b>   |
| 17:35 – 17:50 | <b>Presentation 6.10:</b> Do farmer groups have an Influence on cassava agri-enterprise value chain upgrading and income? The case of Migori County, Kenya (Sambrumo M. G <a href="mailto:gad.matayo@gmail.com">gad.matayo@gmail.com</a> )-Kenya  |
| 17:50 – 18:00 | <b>Discussion and Wrap-Up</b>   |

#### PARALLEL TECHNICAL SESSION 7: INCREASING AGRI-FOODS SYSTEMS PRODUCTIVITY

HALL: TSAVO C

CO-ORGANISERS:





**SESSION MODERATOR:** Joshua Ogendo Egerton University [ogendojoshua@yahoo.co.uk](mailto:ogendojoshua@yahoo.co.uk)  
**RAPPORTEUR:** Dr Agbahoungba Symphorien University of Abomey-calavi (UAC), Benin ([agbahoungbasymphorien@gmail.com](mailto:agbahoungbasymphorien@gmail.com))

<b>Time</b>	<b>Presentation Title</b>
14:00 – 14:10	<b>Introduction of the Session</b>
14:10 – 14:30	<b>Key note speaker:</b> Prof Bernard Njehia (Kenyatta University) <a href="mailto:njehia.bernard@ku.ac.ke">njehia.bernard@ku.ac.ke</a> <b>Presentation 7.1:</b> Increasing agri-foods systems productivity
14:30 – 14:40	<b>Discussion</b>
14:40 – 14:55	<b>Presentation 7.2:</b> Students as the agents of change in achieving food security and reduced unemployment in Sub-Sahara Africa: The case of CESAAM project at Egerton University (Otieno K.O <a href="mailto:informkevo@gmail.com">informkevo@gmail.com</a> - ) Kenya
14:55 – 15: 10	<b>Presentation 7.3 :</b> Native edible tree/shrub species available in Benin for enhancing food security of local populations (Honfo Sewanou H <a href="mailto:honfosewanou@gmail.com">honfosewanou@gmail.com</a> ) - Benin
15:10 – 15:25	<b>Presentation 7.4:</b> Organizational and institutional drivers of smallholder rice marketing systems in Northern Uganda (Akite Irine <a href="mailto:akiteirine5@gmail.com">akiteirine5@gmail.com</a> )-Uganda
15:25 – 15:40	<b>Presentation 7.5:</b> Incorporating genomic markers and weather variables in genotype-by-environment interaction analyses for cassava brown streak disease (Alfred Ozimati <a href="mailto:ozimatiafred@gmail.com">ozimatiafred@gmail.com</a> )-Uganda
15:40 – 16:00	<b>Discussion</b>
16:00 - 16:20	<b>Health Break</b>
16:20 – 16:35	<b>Presentation 7.6:</b> Improvement of Sudanese sorghum for foliar diseases resistance using molecular markers: a review (Mayada M. Beshir <a href="mailto:mayadabeshir2015@gmail.com">mayadabeshir2015@gmail.com</a> ; <a href="mailto:anafeesa34@yahoo.com">anafeesa34@yahoo.com</a> ) - Sudan
16:35 - 16:50	<b>Presentation 7.7:</b> Orphan crops species: state of knowledge in sub-Saharan Africa (Achille e. Assogbadjo - <a href="mailto:assogbadjo@gmail.com">assogbadjo@gmail.com</a> ) - Benin
16:50 – 17:05	<b>Presentation 7.8:</b> Evaluation of the potential of <i>Canavalia ensiformis</i> aqueous extracts as post emergence bio-herbicides for weed control in maize ( <i>Zea mays</i> L.) (Rugare Joyful Tatenda <a href="mailto:rugarejoy@gmail.com">rugarejoy@gmail.com</a> ) - Zimbabwe
17:05 - 17:20	<b>Presentation 7.9:</b> Tomato leaf miner, a devastating pest in Africa: Potential management strategies (Never Zekeya <a href="mailto:neverz@nm-aist.ac.tz">neverz@nm-aist.ac.tz</a> )-Tanzania
17:20 – 17:35	<b>Discussion</b>
17:35 – 17:50	<b>Presentation 7.10:</b> Opportunities and challenges of crop intensification production system on potato value chain in South-Western Uganda- (Ainebyona R Roland <a href="mailto:ainebyoonar@yahoo.com">ainebyoonar@yahoo.com</a> ) - Uganda
17:50 – 18:05	<b>Presentation 7.11:</b> Participatory varietal selection of hybrid maize ( <i>Zea Mays</i> L.) varieties in Jabitehinan and South Achefer districts, Ethiopia (Fentaw Abate <a href="mailto:fenti2004@gmail.com">fenti2004@gmail.com</a> )-Ethiopia
18:05 – 18:20	<b>Presentation 7.12:</b> Factors influencing adoption of technologies among small holder farmers in the pineapple value chain; a systematic review (Ametepey E T K <a href="mailto:nochamet26@gmail.com">nochamet26@gmail.com</a> )- Ghana
18:20 – 18:30	<b>Discussion and Wrap-Up</b>

**PARALLEL TECHNICAL SESSION 8: RESPONDING TO AFRICA'S EMERGING ENVIRONMENT AND NATURAL RESOURCES SUSTAINABILITY CHALLENGES**

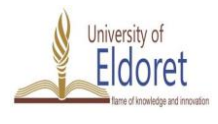
**HALL:** CAUCUS 109

**SESSION MODERATOR:** Dr. Mercy Nyambura- University Mohammed the 6<sup>th</sup> Polytechnique ([Anouar.JAMALI@um6p.ma](mailto:Anouar.JAMALI@um6p.ma))- Morocco

**RAPPORTEUR:** Dr Vitalis Ogema- Masinde Muliro University of Science and Technology ([vogemah@mmust.ac.ke](mailto:vogemah@mmust.ac.ke))-Kenya

<b>Time</b>	<b>Presentation Title</b>
14:00 – 14:10	<b>Introduction of the Session</b>
14:10 – 14:30	<b>Key note speaker:</b> Dr Kamiri Hellen <a href="mailto:hkamiri@karu.ac.ke">hkamiri@karu.ac.ke</a> <b>Presentation 8.1:</b> Navigating social and ecological systems to build resilience for sustained crop production in cultivated swamplands in Kenya

**CO-ORGANISERS:**





- 14:30 – 14:40 **Discussion**
- 14:40 – 14:55 **Presentation 8.2:** Scaling up African baobab food products valuation through enhancement of their safety and value chains for food and nutritional security in Benin (West-Africa) Prof Achille Ephrem Assogbadjo (University Of Abomey-Calavi, Benin)
- 14:55 – 15: 10 **Presentation 8.3:** Determination of crop water requirements and irrigation scheduling of Aerobic Rice (*Oryza sativa* L.), Gezira Conditions, Sudan (Eslam A.G.Mohamed [eslamahmed485@gmail.com](mailto:eslamahmed485@gmail.com)) - Sudan
- 15:10 – 15:25 **Presentation 8.4:** Improvement in yield and resistance of cowpea to multiple stress factors in Africa: The need to employ mutagenesis in breeding (Afutu Emmanuel [emmanuel.afutu@ucc.edu.gh](mailto:emmanuel.afutu@ucc.edu.gh)) - Ghana
- 15:25 – 15:40 **Presentation 8.5:** GIS and remote sensing based land suitability assessment for wheat production in Zambia (Sally Chikuta [Sallychikuta@yahoo.com](mailto:Sallychikuta@yahoo.com)) -Zambia
- 15:40 – 16:00 **Discussion**
- 16:00 - 16:20 **Health Break**
- 16:20 – 16:35 **Presentation 8.6:** Tied contour rain water harvesting in cereal-legume intercropping systems in smallholder farming areas of Zimbabwe (Zengeza Tapiwa [rmandumbu@gmail.com](mailto:rmandumbu@gmail.com)) - Zimbabwe
- 16:35 - 16:50 **Presentation 8.7:** Impact of Calliandra hedgerows and organic manure on soil organic carbon stocks in south western highlands of Uganda (Ssekandi Joseph [sekjoseph@gmail.com](mailto:sekjoseph@gmail.com)) -Uganda
- 16:50 – 17:05 **Presentation 8.8:** Contributing factors to the siltation of valley dams: Case of Karamoja region, Uganda (Eremugo Isaac [eremugonatal@gmail.com](mailto:eremugonatal@gmail.com))-Sudan
- 17:05 - 17:20 **Presentation 8.9:** A review article: Fostering inter-disciplinary research to enhance rural smallholder farmer innovation and technology uptake intention using the farmer group approach- (Sebuliba-Mutumba Richard [rsemur@gmail.com](mailto:rsemur@gmail.com))- Uganda
- 17:20 – 17:35 **Discussion**
- 17:35 – 17:50 **Presentation 8.10:** Cotyledon biochemicals and cowpea seed resistance to bruchid *Callosobruchus maculatus* (F.) (Miesho Belay- [belaymiesho@yahoo.com](mailto:belaymiesho@yahoo.com))- Ethiopia
- 17:50 – 18:05 **Presentation 8.11:** Profit efficiency of vegetable farmers in east African wetlands: case of Ewaso Narok and Namulonge (Njogu Lucy G. [lucy.njogu@hotmail.com](mailto:lucy.njogu@hotmail.com))-Uganda
- 18:05 – 18:20 **Presentation 8.12:** Pineapple waste biochar and compost application for sustainable soil fertility improvement and increased yield in commercial pineapple production systems (Hanyabui, E [emmahanya20@gmail.com](mailto:emmahanya20@gmail.com))-Ghana
- 18:20 – 18:30 **Discussion and Wrap-Up**

## PARALLEL TECHNICAL SESSION 9: FOSTERING MULTI-STAKEHOLDER ENGAGEMENT FOR IMPACT

HALL: TSAVO A

SESSION MODERATOR: Mrs. Monica Kapiriri Namumbya, [mkapiriri@yahoo.co.uk](mailto:mkapiriri@yahoo.co.uk) Kampala, Uganda

RAPPORTEUR: Emmanuel Okalany

Time

Activities

14:00 – 14:10

**Introduction of the Session**

14:10 – 15:30

**Keynote speech** Dr. Richard Hawkins, Director ICRA, Wageningen, The Netherlands

**Presentation 9.1:** Fostering multi-stakeholder engagement for impact

### Case studies

1- The functions of communication in the multi-stakeholder partnerships – Thierry Helmer or Francois Stepman (PAEPARD)

2- Community engagement with focus on African Indigenous Vegetables – Liz Kizito (UCU)

3- Benefits of having a SME in an MSP consortium – Arsene Savadogo (Bioprotect)

4- Challenges and opportunities of engaging the sub-regional organization of farmers in MSP – Steve Muchiri/Gustave Ewole (EAFF/PROPAC)

CO-ORGANISERS:





15:30-15:45 Discussions on presentations  
 15:45-16:00 Health break  
 16:00 – 18:30 **Panel of discussants**

*Panelists and suggested questions to be addressed*

1. Mrs. Monica Brasser, Wageningen University: Funding in ARD. Do we have enough innovative funding mechanisms (e.g. ARF, LEAP-Agri, DeSIRA) helping ARD? What could be the role of private sector organizations, and their specific needs for that?
2. Mr. Philip Kiriro, EAFF: The readiness of farmers to engage in ARD processes.
3. Dr. Irene Frempong, FARA: Who should facilitate the creation of the MSP? How to sustain the MSP beyond a project? Can the MSP concept be sold to policy-makers for the integration in the TOR of ARD calls?
4. Richard Hawkins, ICRA: Is there science in MSP?
5. Prof Joseph Hounhouigan [joseph.hounhouigan@gmail.com](mailto:joseph.hounhouigan@gmail.com) (University of Abomey-Calavi, Benin)

**PARALLEL TECHNICAL SESSION 10: ENGAGING PARLIAMENTARIANS AND ACADEMIA TO ENHANCE THEIR TRANSFORMATIVE POTENTIAL TO ACHIEVE AGENDA 2063 AND SDG2**

**HALL:** VIP ROOM KICC

**SESSION MODERATOR:** FAO Representative

**RAPPORTEUR:** Henry Massa Makerere University- [massahenri@gmail.com](mailto:massahenri@gmail.com)

Time	Agenda Item
14:00-14:10	<b>Presentation 10.1:</b> Introductory speech and overview of food security and nutrition challenges in the region <i>FAO representative</i>
14:10-15:00	<b>Presentation 10.2:</b> Audience poll on perceptions on the role of academia and parliamentarians contributions to eradicate hunger and malnutrition (to be conducted via direct poll, a free online app. Results will be displayed) <b>Presentation 10.3:</b> Presentation of the framework. Transforming food and agriculture to achieve the SDGs, 20 interconnected actions to guide decision-makers <i>FAO representative</i>
15:00-15:20	<b>Health Break</b>
15:20-17:00	Introduction of policymakers and RUFORUM representatives on the panel Hon. Ilyas Ahmed Hassan - Djibouti Hon. Jacqueline Amongin - Uganda Hon. Justus Murunga - Kenya Hon. Adan Haji Yussuf - Kenya Hon. Mathias Kasamba - Uganda Hon. Danstan Kitandula - Tanzania Hon. Peter Mathiang Ahoy Ngong - South Sudan Dr Paul Nampala - RUFORUM  Panel discussion (participants will be provided with some questions prior to the event. Questions from the audience will also be welcomed) Themes: How to increase the uptake of integrated approach to food security, nutrition and sustainability in parliamentary campaigns, legislation and academia research? How to bridge the gap between research and evidence-based policy? Reaction to panel, with priority to distinguished guests not in the panel
17:00-17:15	<b>Coffee break</b>
17:15-18:00	Audience Poll on identifying opportunities to build linkages between Parliamentarians and Academia for achieving zero hunger (Results will be displayed)

CO-ORGANISERS:







Reaction to Poll and Discussion on opportunities for synergies between parliamentary initiatives on FSN sustainable food and agriculture in the region and activities of RUFORUM

18:00-18:30 **Concluding remarks**

**THURSDAY 25<sup>TH</sup> October, 2018**

**PARALLEL TECHNICAL SESSION 11: FACILITATING THE ROAD TO SUSTAINABLE FOOD AND NUTRITIONAL SECURITY**

**HALL: TAIFA HALL**

**SESSION MODERATOR:** Prof Timothy Sulo- Dean Faculty of Agriculture- Moi University ([timothysulo@gmail.com](mailto:timothysulo@gmail.com))-Kenya

**RAPPORTEUR:** Dr Joseph Ssekandi Uganda Martyrs University ([sekjoseph@gmail.com](mailto:sekjoseph@gmail.com))

Time	Presentation Title
14:00 – 14:10	<b>Introduction of the Session</b>
14:10 – 14:30	<b>Key note speaker:</b> Mr Mphumuzi Sukati- Senior Nutrition Officer ( <a href="mailto:Mphumuzi.Sukati@fao.org">Mphumuzi.Sukati@fao.org</a> )- Ghana
	<b>Presentation 11.1:</b> Facilitating the road to sustainable food and nutritional security
14:30 – 14:40	<b>Discussion</b>
14:40 – 14:55	<b>Presentation 11.2:</b> Potential benefits of dietary chia in the primary prevention of cardiovascular diseases: A review Fabian Mihafu ( <a href="mailto:fmihafu21@gmail.com">fmihafu21@gmail.com</a> ) - Tanzania
14:55 – 15: 10	<b>Presentation 11.3:</b> Why do smallholder farmers fail to use certified seed potato? the case of Nakuru county, Kenya (Kamiri Hellen ( <a href="mailto:hkamiri@karu.ac.ke">hkamiri@karu.ac.ke</a> ))- Kenya
15:10 – 15:25	<b>Presentation 11.4:</b> Elements influencing adoption of climate smart agriculture technology in Malawi: A multivariate probit analysis (Maguza-Tembo Francis ( <a href="mailto:fmaguzatembo@gmail.com">fmaguzatembo@gmail.com</a> ))-Malawi
15:25 – 15:40	<b>Presentation 11.5:</b> Effect of different pasteurization schemes on baobab nectar quality (Vanessa Y.O. IDOHOU ( <a href="mailto:fchadare@gmail.com">fchadare@gmail.com</a> )) Benin
15:40 – 16:00	<b>Discussion</b>
16:00 - 16:20	<b>Health Break</b>
16:20 – 16:35	<b>Presentation 11.6:</b> Knowledge dissemination on improvement of traditional complementary foods for proper child feeding (Mmari M Mercy ( <a href="mailto:mmarimercy@gmail.com">mmarimercy@gmail.com</a> )) - Tanzania
16:35 - 16:50	<b>Presentation 11.7:</b> Edible grasshopper meal ( <i>Ruspolia nitidula</i> ) “nseenene”; a potential source of protein in the diet of Japanese quails in Africa: A review (John Kwaku Amoah ( <a href="mailto:johnkwaku67@bugemauniv.ac.ug">johnkwaku67@bugemauniv.ac.ug</a> ), ( <a href="mailto:johnkwaku67@gmail.com">johnkwaku67@gmail.com</a> ))- Uganda
16:50 – 17:05	<b>Presentation 11.8:</b> Genetic diversity and population structure of tropical soybean genotypes using SNP markers: implications for breeding and conservation- (Tonny Obua ( <a href="mailto:obuatonny@gmail.com">obuatonny@gmail.com</a> )) - Uganda
17:05 - 17:20	<b>Presentation 11.9:</b> Effect of selected SWC practices on physico-chemical properties of ferralsols in the Lwiro catchment-Eastern DRC (Adidja W Matabaro, ( <a href="mailto:adidjatabaro@gmail.com">adidjatabaro@gmail.com</a> ))-DRC
17:20 – 17:35	<b>Discussion</b>
17:35 – 17:50	<b>Presentation 11.10:</b> Biochemicals associated with <i>Callosobruchus chinensis</i> resistance in soybean (Msiska Ulemu M ( <a href="mailto:ulemsiska@gmail.com">ulemsiska@gmail.com</a> ))-Malawi
17:50 – 18:05	<b>Presentation 11.11:</b> Cellular and genetic basis for variation in tomato ( <i>Solanum lycopersicum</i> L.) fruit size (Dr Cyrus Ongom ( <a href="mailto:cyrusongom@gmail.com">cyrusongom@gmail.com</a> ))-Uganda
18:05 – 18:20	<b>Presentation 11.12:</b> Meristem tissue culture is a potential avenue for mass production of clean local banana plantlets in Uganda (Kityo Ronald ( <a href="mailto:ronaldkityo@gmail.com">ronaldkityo@gmail.com</a> )) - Uganda
18:20 – 18:30	<b>Discussion and Wrap-Up</b>

**DAY 2 THURSDAY 25<sup>TH</sup> October, 2018**

**PARALLEL TECHNICAL SESSION 12 FOSTERING INTEGRATED AND SUSTAINABLE LIVESTOCK AND FISHERIES**

**PRODUCTION SYSTEMS:**

**HALL: TSAVO C**

Page 9 of 15

**CO-ORGANISERS:**





**SESSION MODERATOR:** Prof Charles Masembe Makerere University Uganda ([cmasembe@cns.mak.ac.ug](mailto:cmasembe@cns.mak.ac.ug))-Uganda

**RAPPORTEUR:** Joyful Rugare

Time	Presentation Title
14:00 – 14:10	<b>Introduction of the Session</b>
14:10 – 14:30	<b>Key note speaker:</b> Dr Revocatus Machunda <a href="mailto:revocatus.machunda@nm-aist.ac.tz">revocatus.machunda@nm-aist.ac.tz</a> (Nelson Mandela African Institute of Science and Technology )- Tanzania <b>Presentation 12.1:</b> Fostering integrated and sustainable livestock production systems
14:30 – 14:40	<b>Discussion</b>
14:40 – 14:55	<b>Presentation 12.2:</b> Molecular genetics research of indigenous goat: Genetic diversity, prolificacy, milk production and <i>peste-des-petits-ruminants</i> resistant associated genes assessment (Bwihangane Birindwa Ahadi <a href="mailto:adjibir@yahoo.fr">adjibir@yahoo.fr</a> )- DRC
14:55 – 15: 10	<b>Presentation 12.3:</b> Validation of efficacy of rabbit anticoccidial drugs commonly used in Kenya (Ogolla Kennedy Okoth <a href="mailto:kokothogola2008@gmail.com">kokothogola2008@gmail.com</a> )-Kenya
15:10 – 15:25	<b>Presentation 12.4:</b> Determinants of indigenous chicken enterprise commercialisation among communal farmers: A multinomial regression analysis (Manzvera Joseph <a href="mailto:manzverajoseph@gmail.com">manzverajoseph@gmail.com</a> )- Zimbabwe
15:25 – 15:40	<b>Presentation 12.5:</b> Gastrointestinal parasites of Angora goats in Lesotho: prevalence and abundance (Moiloa, M.J <a href="mailto:mcjmoiloa@gmail.com">mcjmoiloa@gmail.com</a> )- Lesotho
15:40 – 16:00	<b>Discussion</b>
16:00 - 16:20	<b>Health Break</b>
16:20 – 16:35	<b>Presentation 12.6 :</b> Nutritional value of peanut haulm: effects on digestibility and on growth performance of sheep fed peanut hay or silage (Addah W <a href="mailto:addweseh@yahoo.com">addweseh@yahoo.com</a> )- Ghana
16:35 - 16:50	<b>Presentation 12. 7:</b> Value chain analysis of tilapia for small scale fish farmers: A case study of Mchinji and Dowa Districts Mpango <a href="mailto:mpangospriano@gmail.com">mpangospriano@gmail.com</a>
16:50 – 17:05	<b>Presentation 12.8:</b> Nutritional and economic potential of <i>Clarias liocephalus</i> for rural populations of South Western Uganda (Yatuha Jane <a href="mailto:yatuha@must.ac.ug">yatuha@must.ac.ug</a> )
17:05 - 17:20	<b>Presentation 12.9:</b> Bioeconomic options and sustainable value chains for rational exploitation of fisheries resources along Lake Malawi (Wales Singini <a href="mailto:walesingini@gmail.com">walesingini@gmail.com</a> )- Malawi
17:20 – 17:35	<b>Discussion</b>
17:35 – 17:50	<b>Presentation 12.10:</b> Effects of <i>Cyprinus carpio</i> Linnaeus, 1758 ( <i>Actinopterygii: Cyprinidae</i> ) and <i>Clarias gariepinus</i> Burchell, 1822 ( <i>Actinopterygii: Clariidae</i> ) on water quality in ponds: relevance to aquaculture enhancement in Africa (Chirwa, E.R. <a href="mailto:erchirwa@gmail.com">erchirwa@gmail.com</a> )- Malawi
17:50 – 18:05	<b>Presentation 12.11:</b> Application of neo-classical economic models in the analysis of potential viability and public valuation of fish solar dryer in Malawi (Rodgers Makwinja <a href="mailto:makwinjarodgers@gmail.com">makwinjarodgers@gmail.com</a> )- Malawi
18:05 – 18:20	<b>Presentation 12.12:</b> Drivers of social network and their implications on group formation among shrimp fishers in rivers state (Komi W Gentle <a href="mailto:gentle.komi@uniport.edu.ng">gentle.komi@uniport.edu.ng</a> )- Nigeria
18:20 – 18:30	<b>Discussion and Wrap-Up</b>

**PARALLEL TECHNICAL SESSION 13: STRENGTHENING RECOGNITION OF GENDER, ENTERPREURSHIPS AND CROSS-CUTTING DEVELOPMENT PERSPECTIVES**

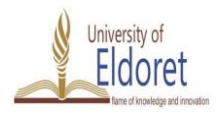
**HALL:** LENANA

**SESSION MODERATOR:** Prof Nancy Mungai Egerton University

**RAPPORTEUR:** Karubanga Gabriel [amootigabs@gmail.com](mailto:amootigabs@gmail.com)/[gkarubanga@caes.mak.ac.ug](mailto:gkarubanga@caes.mak.ac.ug) )

Time	Presentation Title
14:00 – 14:10	<b>Introduction of the Session</b>
14:10 – 14:30	<b>Key note speaker:</b> (Paul L. Woomeer <a href="mailto:plwoomeer@gmail.com">plwoomeer@gmail.com</a> )

**CO-ORGANISERS:**





- Presentation 13.1:** Aligning university graduates and agribusiness opportunities to African agricultural transformation
- 14:30 – 14:40 **Discussion**
- 14:40 – 14:55 **Presentation 13.2:** Towards development of market-led kersting's groundnut [*Macrotyloma geocarpum* (Harms) Maréchal and Baudet] varieties in Benin (Agoyi Eric [ericagoyi@gmail.com](mailto:ericagoyi@gmail.com))- Benin
- 14:55 – 15: 10 **Presentation 13.3:** Leveraging the Makerere University Agricultural Research Institute Kabanyolo dairy value chain for dairy business incubation and skill development-DAIRY LEVER among Students and Smallholder Farmers in Uganda (Bashaasha Bernard [bashaasha@caes.mak.ac.ug](mailto:bashaasha@caes.mak.ac.ug)) - Uganda
- 15:10 – 15:25 **Presentation 13.4:** Transforming African Agricultural Universities to meaningfully contribute to Africa's growth and development (TAGDev) Program implementation at Egerton University (Mungai Nancy W [nmungai@egerton.ac.ke](mailto:nmungai@egerton.ac.ke))- Kenya
- 15:25 – 15:40 **Presentation 13. 5:** Analysis of Value addition and fortification of native cereals using marginalised legume crops among smallholder farmers in semi-arid regions (Marongwe F.D [blemasamha@gmail.com](mailto:blemasamha@gmail.com) )- Zimbabwe
- 15:40 – 16:00 **Discussion**
- 16:00 - 16:20 **Health Break**
- 16:20 – 16:35 **Presentation 13.6:** Analysis of watermelon (*Citrullus lanatus*) marketing in Gulu and Nwoya districts of Northern Uganda (Jemima Alla Houessou [jemima9419@gmail.com](mailto:jemima9419@gmail.com))-Uganda
- 16:35 - 16:50 **Presentation 13.7:** Economic valuation of the preferences of consumers and farmers and their willingness to pay for cowpea variety Traits: Implications for breeding and marketing in Ghana (Mbroh I [emmanuel.afutu@ucc.edu.gh](mailto:emmanuel.afutu@ucc.edu.gh))- Ghana
- 16:50 – 17:05 **Presentation 13.8:** Assessment of land use and land cover in Errahad locality, Sudan using remote sensing and GIS (Yasir Mohamed [Osmanyasirosman77@yahoo.com](mailto:Osmanyasirosman77@yahoo.com); [Yasirosman77@yahoo.com](mailto:Yasirosman77@yahoo.com))- Sudan
- 17:05 - 17:20 **Presentation 13. 9:** Gender vulnerability to impacts of climate change on agriculture in Niger Delta Region of Nigeria (Agwu Ekwe Agwu [ekwe.agwu@unn.edu.ng](mailto:ekwe.agwu@unn.edu.ng)) – Nigeria
- 17:20 – 17:35 **Discussion**
- 17:35 – 17:50 **Presentation 13.10:** Nutritional value and sensory properties of an extruded composite iron-rich bean-based snack targeting school children (Natabirwa Hedwig [hedwignorh@yahoo.com](mailto:hedwignorh@yahoo.com))- Uganda
- 17:50 – 18:05 **Presentation 13.11:** Nutraceutical and antimicrobial properties of baobab pulp and leaves: a review (Gbaguidi Mechack Ahotonji [fchadare@gmail.com](mailto:fchadare@gmail.com))- Benin
- 18:05 – 18:20 **Presentation 13.12:** assessing the coordination of actors engaging youth in agriculture: a case of mid-western Uganda ( Loga Dorcas Elizabeth [dorcaslokello@gmail.com](mailto:dorcaslokello@gmail.com))- Uganda
- 18:20 – 18:30 **Discussion and Wrap-Up**

#### PARALLEL TECHNICAL SESSION 14: STRENGTHENING HIGHER AGRICULTURAL EDUCATION IN AFRICA

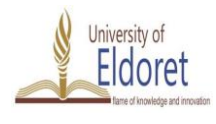
HALL: TSAVO B

**SESSION MODERATOR:** Joanne Gaskill, [jgaskell@worldbank.org](mailto:jgaskell@worldbank.org) World Bank

**RAPPORTEUR:** Dr Sarah Akello [sarahakellok@yahoo.com](mailto:sarahakellok@yahoo.com)

Time	Presentation Title
14:00 – 14:10	Introduction of the Session
14:10 – 14:50	<b>Key note speaker:</b> Dr Thom Jayne – <a href="mailto:jayne@msu.edu">jayne@msu.edu</a> Michigan State University
14:50– 15:10	<b>Presentation 14.1:</b> Strengthening Higher Agricultural Education In Africa
15:10 – 18:20	<b>Discussion</b>
	<b>Presentation 14.2:</b> Fostering institutional transformation: Lessons from iAGRI project at Sokoine University (Mark Erbaugh <a href="mailto:erbaugh.1@osu.edu">erbaugh.1@osu.edu</a> )- USA
	<b>Presentation 14.3:</b> Paper from Virginia Tech

CO-ORGANISERS:





**Presentation 14.4:** Higher agricultural education in South Korea and opportunities for collaboration (Prof. Tai Cheol Kim - Chungnam University)

**Presentation 14.5:** Institutionalizing farmer fields schools in extension curricula in institutions of higher learning – FAO (Amb. Benjamin Mweri, [benjamin.mweri@gmail.com](mailto:benjamin.mweri@gmail.com))

**Discussion**

**Health Break**

**Presentation 14.6:** Nelson Mandela African Institute of Science and Technology (NM-AIST) – (Dr Gabriel Shirima [gabriel.shirima@nm-aist.ac.tz](mailto:gabriel.shirima@nm-aist.ac.tz))-Tanzania

**Presentation 14.7:** Re-aligning curricula and mode of delivery to impart relevant knowledge and skills to improve agricultural productivity (Hulela Keba [hulela@buan.ac.bw](mailto:hulela@buan.ac.bw)) -Botswana

18:20 – 18:30 **Discussion and Wrap-Up**

### PARALLEL TECHNICAL SESSION 15: INCREASING AGRI-FOOD SYSTEMS PRODUCTIVITY

HALL: ABERDARES

**SESSION MODERATOR:** Prof Mick Mwala University of Zambia ([mmwala@unza.zm](mailto:mmwala@unza.zm))- Zambia

**RAPORTEUR:** Odogwu A. Blessing University of Port Harcourt ([blessing.odogwu@uniport.edu.ng](mailto:blessing.odogwu@uniport.edu.ng)) - Nigeria

Time	Presentation Title
14:00 – 14:10	<b>Introduction of the Session</b>
14:10 – 14:30	<b>Key note speaker: Dr Robert Kawuki :</b> <a href="mailto:kawukisezirobert@gmail.com">kawukisezirobert@gmail.com</a>
14:30 – 14:40	<b>Presentation 15.1:</b> A synopsis of milestones attained by Next Generation Cassava Breeding Project in Uganda
14:40 – 14:55	<b>Discussion</b>
14:40 – 14:55	<b>Presentation 15.2:</b> Food to food fortification with moringa leaf powder and baobab fruit pulp improves potential iron cover rate for women in reproductive age in Benin (Fassinou, Finagnon Toyi Kevin <a href="mailto:fchadare@gmail.com">fchadare@gmail.com</a> ) - Benin
14:55 – 15: 10	<b>Presentation 15.3:</b> Issues, practices of cassava landraces and indigenous tree interactions, key driver for climate smart agriculture in agro ecological zones of Uganda (Kalimunjaye Samuel <a href="mailto:kali.samuel@gmail.com">kali.samuel@gmail.com</a> ) - Uganda
15:10 – 15:25	<b>Presentation 15.4:</b> Enhancing agribusiness rice clusters and market linkages for food security and incomes in northern Uganda (Mugonola Basil <a href="mailto:b.mugonola@gu.ac.ug">b.mugonola@gu.ac.ug</a> )-Uganda
15:25 – 15:40	<b>Presentation 15.5:</b> Agronomic performance and carotenoid content of Kenyan yellow-fleshed cassava clones (Njenga Peninah <a href="mailto:njengapeninah@gmail.com">njengapeninah@gmail.com</a> ) -Kenya
15:40 – 16:00	<b>Discussion</b>
16:00 - 16:20	<b>Health Break</b>
16:20 – 16:35	<b>Presentation 15.6:</b> Analysis of Uptake of drip irrigation by smallholder farmers in Zimbabwe: Case study of Mutare District (Chiwa Mukumbi <a href="mailto:mukumbik@africau.edu">mukumbik@africau.edu</a> ) - Zimbabwe
16:35 - 16:50	<b>Presentation 15.7:</b> Implementation of a community-based field attachment program award in Benin: Lessons learned (Affonfere Marius <a href="mailto:fchadare@gmail.com">fchadare@gmail.com</a> )-Benin
16:50 – 17:05	<b>Presentation 15.8:</b> Effect of selected ethanolic plants extracts on egg and larvae of tomato leaf miner ( <i>tuta absoluta</i> meyrick) ( <i>Lepidoptera: gelechiidae</i> ) (Matendo R E <a href="mailto:vecordcongoesther@gmail.com">vecordcongoesther@gmail.com</a> )- DRC
17:05 - 17:20	<b>Presentation 15.9:</b> Performance of <i>Solanum aethiopicum</i> Shum group accessions under repetitive drought stress (Mildred Julian Nakanwagi <a href="mailto:lkizito08@gmail.com">lkizito08@gmail.com</a> )-Uganda
17:20 – 17:35	<b>Discussion</b>
17:35 – 17:50	<b>Presentation 15.10:</b> Inheritance of soybean rust resistance in Ugandan soybean genotypes (Maksoy 3N and UG 5) Hailay M.G <a href="mailto:himeri2002@gmail.com">himeri2002@gmail.com</a> ; <a href="mailto:himeri2004@yahoo.com">himeri2004@yahoo.com</a> )-Ethiopia
17:50 – 18:05	<b>Presentation 15.11:</b> Production of Frozen Potato Chips from Local Varieties grown in Uganda as an intermediate material for Production of French Fries (Bahati-Kajunju Napoleon Heri <a href="mailto:napkajunju@gmail.com">napkajunju@gmail.com</a> )-Uganda

CO-ORGANISERS:





- 18:05 – 18:20 **Presentation 15.12:** Factors influencing storage of seed potato among smallholder agri-enterprises in Nakuru County, Kenya (Mutinda R.M. [redzmutinda@gmail.com](mailto:redzmutinda@gmail.com))-Kenya
- 18:20 – 18:30 **Discussion and Wrap-Up**

**PARALLEL TECHNICAL SESSION 16: UNIVERSITY RESEARCH AND ENGAGEMENT IN KEY EMERGING FOOD AND NUTRITIONAL SECURITY DEVELOPMENTAL CHALLENGES**

**HALL:** IMPALA/LAKE TURKANA

**SESSION MODERATOR:** Prof Victor Kasulo Mzuzu University-( [kasulov@gmail.com](mailto:kasulov@gmail.com))- Malawi

**RAPPORTEUR:** Sally Chikuta [Sallychikuta@yahoo.com](mailto:Sallychikuta@yahoo.com)

- | <b>Time</b>   | <b>Presentation Title</b>   |
|---------------|---|
| 14:00 – 14:10 | <b>Introduction of the Session</b>  |
| 14:10 – 14:30 | <b>Key note speaker:</b> Review on responsive management actions against Fall Army worm ( <i>Spodoptera frugiperda</i> (JE Smith) in Kenya (Nderitu J. H. <a href="mailto:huria@uonbi.ac.ke">huria@uonbi.ac.ke</a> )- Kenya   |
|               | <b>Presentation 16.1:</b> Analysis of agro-morphologic diversity of Zambian sesame ( <i>Sesamum indica</i> L.) Landraces  |
| 14:30 – 14:40 | <b>Discussion</b>   |
| 14:40 – 14:55 | <b>Presentation 16.2:</b> Resource use efficiency in tilapia production in Malawi (Mussa Happy <a href="mailto:mussahappy@gmail.com">mussahappy@gmail.com</a> )-Malawi  |
| 14:55 – 15:10 | <b>Presentation 16.3:</b> Assessment of wood utilization efficiency and acceptability of fish smoking technologies and fish frying for small scale fisheries of Nkhotakota district, Malawi (Makawa Z <a href="mailto:ziomakawa@gmail.com">ziomakawa@gmail.com</a> )-Malawi     |
| 15:10 – 15:25 | <b>Presentation 16.4:</b> Evaluation of growth performance of five local strains of <i>Oreochromis niloticus</i> in Ghana (Mireku K K <a href="mailto:kmireku@ucc.edu.gh">kmireku@ucc.edu.gh</a> or <a href="mailto:kkmireku2002@yahoo.com">kkmireku2002@yahoo.com</a> )- Ghana |
| 15:25 – 15:40 | <b>Presentation 16.5:</b> Value chain analysis of tilapia for small scale fish farmers: A case study of Mchinji and Dowa Districts (Mpango Sipriano <a href="mailto:mpangospriano@gmail.com">mpangospriano@gmail.com</a> )-Malawi   |
| 15:40 – 16:00 | <b>Discussion</b>   |
| 16:00 - 16:20 | <b>Health Break</b>   |
| 16:20 – 16:35 | <b>Presentation 16.6:</b> Assessment of technical and economic feasibility of a Portable Aquaponic System (Mnelemba Peace Chemis <a href="mailto:pmnelemba@bunda.luanar.mw">pmnelemba@bunda.luanar.mw</a> )-Malawi  |
| 16:35 - 16:50 | <b>Presentation 16.7:</b> Effects of feeding frequency on growth performance, feed utilization and visceral indices of <i>Oreochromis shiranus</i> juvenile (Trewavas 1983) (Thokozire Gwaza <a href="mailto:gwazathokozire@gmail.com">gwazathokozire@gmail.com</a> )-Malawi    |
| 16:50 – 17:05 | <b>Presentation 16.8:</b> Growth and survival rate of portable-hatchery-bred fry and fingerlings of <i>oreochromis karongae</i> in earthen ponds and tanks (Chinguo C.M. <a href="mailto:madachinguo@gmail.com">madachinguo@gmail.com</a> )-Malawi                              |
| 17:05 - 17:20 | <b>Presentation 16.9:</b> Aligning sustainable agriculture to sustainable development goals in Africa (Ogemah Vitalis <a href="mailto:vogemah@mmust.ac.ke">vogemah@mmust.ac.ke</a> )-Kenya  |
| 17:20 – 17:35 | <b>Discussion</b>   |
| 17:35 – 17:50 | <b>Presentation 16.10:</b> Literatures that reveal trends and gaps in Mealybug wilt of pineapple (MWP) studies: A systematic review Joseph Nyarko <a href="mailto:joseph.nyarko1@stu.ucc.edu.gh">joseph.nyarko1@stu.ucc.edu.gh</a> )-Ghana                                      |
| 17:50 – 18:05 | <b>Presentation 16.11:</b> The existence and distribution of cassava bacterial blight in east Africa (Antony Livoi Musera <a href="mailto:livoiantony@gmail.com">livoiantony@gmail.com</a> )- Kenya   |
| 18:05 – 18:20 | <b>Presentation 16.12:</b> Production of frozen potato chips from local varieties grown in Uganda as an intermediate material for production of french fries (Bahati-Kajunju Napoleon Heri <a href="mailto:napkajunju@gmail.com">napkajunju@gmail.com</a> )-Uganda              |
| 18:20 – 18:30 | <b>Discussion and Wrap-Up</b>   |

**PARALLEL TECHNICAL SESSION 17: OPPORTUNITIES AND CHALLENGES IN AGROECOLOGY AND NATURAL RESOURCE SUSTAINABILITY**

**HALL:** AMPHI THEATRE





**SESSION MODERATOR:** Prof Julius Kilungo - Dean School of Agriculture and Veterinary Sciences at SEKU ([jkilungo@seku.ac.ke](mailto:jkilungo@seku.ac.ke)-Kenya)

**RAPPORTEUR:** Mayada Mamoun Beshir ([mayadabeshir2015@gmail.com](mailto:mayadabeshir2015@gmail.com); [anafeesa34@yahoo.com](mailto:anafeesa34@yahoo.com))- Sudan

Time	Presentation Title
14:00 – 14:10	<b>Introduction of the Session</b>
14:10 – 14:30	<b>Key note speaker:</b> Prof Julius Mwine Uganda Martyrs University ( <a href="mailto:mwinetj@gmail.com">mwinetj@gmail.com</a> )-Uganda <b>Presentation 17.1:</b> The position of agroecology to combat hunger and sustain food security among small scale farmers
14:30 – 14:40	<b>Discussion</b>
14:40 – 14:55	<b>Presentation 17.2:</b> Effects of seed sources and seed production techniques on performance of potato (Monica Kigambo <a href="mailto:monicakigambo@gmail.com">monicakigambo@gmail.com</a> )-Uganda
14:55 – 15:10	<b>Presentation 17.3:</b> Opportunities and challenges of crop intensification production system on potato value chain in South Western Uganda (Ainebyona R. Roland <a href="mailto:aibebyoonar@yahoo.com">aibebyoonar@yahoo.com</a> )- Uganda
15:10 – 15:25	<b>Presentation 17.4:</b> Farmer preferred cassava cultivars and cassava mosaic disease prevalence in Bukedea and Kumi districts in Eastern Uganda (Faizo Kasule <a href="mailto:kfay337@gmail.com">kfay337@gmail.com</a> , <a href="mailto:kfay337@yahoo.com">kfay337@yahoo.com</a> )- Uganda
15:25 – 15:40	<b>Presentation 17.5:</b> Rain water harvesting and nutrient intensification in small grain-legume farming systems in semi-arid Zimbabwe (Mutsamba-Magwaza Eleanor Florence <a href="mailto:gnyamadzawo@buse.ac.zw">gnyamadzawo@buse.ac.zw</a> )-Zimbabwe
15:40 – 16:00	<b>Discussion</b>
16:00 - 16:20	<b>Health Break</b>
16:20 – 16:35	<b>Presentation 17.6:</b> Rapid multiplication of cassava plantlets in the screenhouse using minicut technology (Charles Liri <a href="mailto:liricharles1976@gmail.com">liricharles1976@gmail.com</a> )- Uganda
16:35 - 16:50	<b>Presentation 17.7:</b> Restoration Status of Nakayiba Wetland, Masaka-Uganda (Bunyangha J <a href="mailto:jbjackson2011@gmail.com">jbjackson2011@gmail.com</a> )-Uganda
16:50 – 17:05	<b>Presentation 17.8:</b> Pisciculture en milieux ruraux et péri-urbains du Sud-Kivu : Contraintes et opportunités (Akilimali I J <a href="mailto:justinakilimali2@gmail.com">justinakilimali2@gmail.com</a> )- DR Congo
17:05 - 17:20	<b>Presentation 17.9:</b> Maize multiple-insect resistance genomic regions for a broader genetic and geographical background ( Badji Arfang <a href="mailto:dabgarf42@gmail.com">dabgarf42@gmail.com</a> )- Senegal
17:20 – 17:35	<b>Discussion</b>
17:35 – 17:50	<b>Presentation 17.10:</b> Setting up optimum conditions for <i>Macrotyloma geocarpum</i> [(Harms) Maréchal et Baudet] seed production and handling in Benin (Sosso Hospice Samson <a href="mailto:hospiso@gmail.com">hospiso@gmail.com</a> )- Benin
17:50 – 18:05	<b>Presentation 17.11:</b> Consumer perceptions and attitude towards packed milk product (Okello Robine <a href="mailto:okellorobine@gmail.com">okellorobine@gmail.com</a> )- Uganda
18:05 – 18:20	<b>Presentation 17.12:</b> Strategic approaches to circumvent Vitamin A and Iron deficiencies in children: A mini review (Adoko Melas Cayrol <a href="mailto:melascayroladoko@gmail.com">melascayroladoko@gmail.com</a> )- Uganda
18:20 – 18:30	<b>Discussion and Wrap-Up</b>

**PARALLEL TECHNICAL SESSION 18: RESPONSE BY ACADEMIA AND STAKEHOLDERS TO AGRIFOOD SYSTEM CHALLENGES**

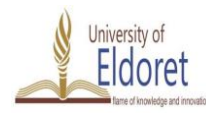
**HALL:** TSAVO A

**SESSION MODERATOR:** Dr Alice Mweetwa – University of Zambia ([alicemweetwa@yahoo.com](mailto:alicemweetwa@yahoo.com))

**RAPPORTEUR:** Mercy Ulemu [ulemsiska@gmail.com](mailto:ulemsiska@gmail.com)- Malawi

Time	Presentation Title
14:00 – 14:10	<b>Introduction of the Session</b>

**CO-ORGANISERS:**





- 14:10 – 14:30 **Key note speaker:** Dr Jane Ambuko – [jane.ambuko@uonbi.ac.ke](mailto:jane.ambuko@uonbi.ac.ke) University of Nairobi, Kenya  
**Presentation 18.1:** Postharvest training in Kenya: Universities' role to address the knowledge and skills gap in postharvest management
- 14:30 – 14:40 **Discussion**
- 14:40 – 14:55 **Presentation 18.2:** Korean agricultural and links to Africa (Mr. Byoung Kyun Jeon)- Korea
- 14:55 – 15:10 **Presentation 18.3:** Graduate Student, Graduate School of International Agricultural Technology, Seoul National University, PyeongChang, (Ms. Yongeun Lee [yongeun.lee@snu.ac.kr](mailto:yongeun.lee@snu.ac.kr))-Korea
- 15:10 – 15:25 **Presentation 18.4:** Korea's smallholder agriculture and opportunities for Africa (Sujung Heo [christina\\_h@snu.ac.kr](mailto:christina_h@snu.ac.kr))- Korea
- 15:25 – 15:40 **Presentation 18.5:** Assessment of gender roles in potato production: A case study of Nakuru County, Kenya (Agbolosoo John A [agbolosoojohn@gmail.com](mailto:agbolosoojohn@gmail.com))- Benin
- 15:40 – 16:00 **Discussion**
- 16:00 – 16:20 **Health Break**
- 16:20 – 16:35 **Presentation 18.6:** Pig Value Chain in Uganda: Considering smallholders' functional upgrading prospects (Mugonya J [mugonyajohn@gmail.com](mailto:mugonyajohn@gmail.com))- Uganda
- 16:35 – 16:50 **Presentation 18.7:** Effect of cropping pattern on the incidence of Sorghum downy mildew disease in Uganda (Frank Kumi [frankkumifk@gmail.com](mailto:frankkumifk@gmail.com))- Ghana
- 16:50 – 17:05 **Presentation 18.8:** Stability for descriptors of *Solanum aethiopicum* Shum (family Solanaceae) (Pamela Kabod [pamelaabodi@gmail.com](mailto:pamelaabodi@gmail.com))- Uganda
- 17:05 – 17:20 **Presentation 18.9:** A review of available knowledge on aroma in rice (David Ocan [lakocan@gmail.com](mailto:lakocan@gmail.com))-Uganda
- 17:20 – 17:35 **Discussion**
- 17:35 – 17:50 **Presentation 18.10:** Determinants of consumer preferences for pork products in northern Uganda (Aciro L [acirol93@gmail.com](mailto:acirol93@gmail.com))- Uganda
- 17:50 – 18:05 **Presentation 18.11:** Knowledge & attitude towards consumption of fresh fruit and vegetables: A case of Gulu district (Lomira Benjamin [lomira.lokaya@gmail.com](mailto:lomira.lokaya@gmail.com))-Sudan
- 18:05 – 18:20 **Presentation 18.12:** Factors influencing storage of seed potato among smallholder agri-enterprises in Nakuru County, Kenya (Mutinda R.M. [redzmutinda@gmail.com](mailto:redzmutinda@gmail.com) )- Kenya
- 18:20 – 18:30 **Discussion and Wrap-Up**

