



**ASARECA**

Transforming Agriculture  
for Improved Livelihoods

# THE 2<sup>ND</sup> ASARECA GENERAL ASSEMBLY & SCIENTIFIC CONFERENCE

## PROGRAM

### Theme

“TRANSFORMING AGRICULTURE FOR ECONOMIC  
GROWTH IN EASTERN AND CENTRAL AFRICA”

9th - 13th December 2013,  
Royal Palace Hotel, Avenue du Large, Bujumbura, Burundi



Canadian International  
Development Agency



Agence canadienne de  
développement international



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**Sunday 8 December 2013 All Day**

**Arrival and Registration**

Responsible Team : Mr. Mark Mpiirirwe, Ms. Adeline Muheebwa, Ms. Sylvia Namara, Mr. Robert Kabasi and Ms. Sarah Komuhangi

**Monday 9 December 2013 Morning Session**

**Opening and Keynote Session**

Master of Ceremony: Vice President's Chief of Protocol assisted by Dr. Jean Ndikumana  
 Facilitator: Mr. Edmond Kizito  
 Rapporteurs: Prof. Francis Wachira, Dr. Joseph Methu and Ms. Jolly Basemera

**Plenary 1 : Opening Session**

Time	Activity	Responsible
08.00- 09.00	Registration	Edmund Kizito
09.00 – 09:10	Welcome Speech Executive Director ASARECA	Dr. Fina Opio
09.10 – 09.20	Welcome Address by Chairman ASARECA Board of Directors	Dr. Fidelis Angelo Myaka
09:20 – 09:30	Welcome Speech by President of ASARECA General Assembly	Prof. Elly Sabiiti
09:30-09:40	Statement by World Bank Representative	World Bank Representative
09:40-09:50	Welcome Remarks by Hon. Minister of Agriculture and Livestock, Burundi  Signing of ASARECA Constitution	Hon. (Mrs) Kayitesi Odette
09:50-10:05	Official Opening Speech by His Excellency Vice President Republic of Burundi	Hon. Dr. Rufyikiri Gervais
10:05-10:25	Departure of Honors Guests/Group Photo and Visit to Exhibitions	
10:25-11:00	Health Break	
11:00-11:10	Statement by General Assembly Co-organizers • CTA • IDRC	Dr. Judith Francis Dr. Simon Carter
11:10-11:20	Keynote Paper 1: Agricultural transformation what it is and what it will take	Prof. P.L.O. Lumumba
11:20 – 11:35	Keynote Paper 2: Role of African Union (AU) in Agricultural Transformation	Dr. Abebe H.G
11:35-11:50	Key note Paper 3: Role of Agriculture and Trade in Agricultural Transformation by Deputy Secretary General for Productive and Social Sectors , East African Community	Hon. Jessica Eriyo

Chair: Hon. (Mrs) Kayitesi Odette, Minister of Agriculture and Livestock, Burundi  
 Rapporteurs: Dr. Charles Mugoya and Ms. Miriam Kyotalimye

## Ministers address to the 2<sup>nd</sup> ASARECA General Assembly by ASARECA Member countries

11:50 –13:30	<ol style="list-style-type: none"> <li>1. Minister for Scientific Research, Democratic Republic of Congo</li> <li>2. Minister for Agriculture, Eritrea</li> <li>3. Minister for Agriculture, Ethiopia</li> <li>4. Secretary for Agriculture, Kenya</li> <li>5. Minister for Agriculture, Madagascar</li> <li>6. Minister for Agriculture, Rwanda</li> <li>7. Minister for Agriculture, Sudan</li> <li>8. Minister for Agriculture, South Sudan</li> <li>9. Minister for Agriculture, Food Security and Cooperatives, Tanzania</li> <li>10. Minister of Agriculture Animal Industry and Fisheries, Uganda</li> </ol>
13:30- 14:30	Lunch Break

## Scientific Conference – Afternoon Parallel Technical Session 1

**Monday**

**9 December 2013**

**Afternoon Session**

Facilitator: Mr. Edmond Kizito  
 Chair: Prof. Elly Sabiiti  
 Rapporteurs: Dr. Joseph Methu and Mr. Clet Masiga

### Plenary 2: Sub-Theme: Farmers and Agricultural Transformation

14:30 – 14:50	Addressing farmers needs in Agricultural transformation	Mr. Phillip Kiri, President of the East African Farmers Federation
14:50 – 15:10	Africa can feed herself: The case of Kalii watershed in semi-arid Kenya	Mr. Lazarus Musyimi, Chairman, Kalii Watershed, Makindu, Kenya
15:10 – 15:30	Improving incomes through quality seed potato	Mrs. Florence Kinoti from Meru
15:30-15:50	ASARECA's intervention in improved bean seed production and marketing	Ms. NIZIGIYIMANA Anatolie, Commune Bisoro, Gisozi, Mwaro Province
15:50- 16:00	Discussion and Recommendations	
16:00-16:30	Tea Break	
16:30-16:50	Taming hunger, malnutrition and poverty using QPM maize	Mr. NTUMBA Mukadi Samy, D.R. Congo
16:50-17:10	Crop livestock integration: Farmers experiences	Mr. Nsengimana Louis
17:10-17:30	Engaging farmers in the cassava value chain	Ms. Nora Ebukalin Popular Knowledge Women's Initiative – Farmer to Farmer Coop. Society (PKWIFFC), Bukedea, Uganda
17:30-18:00	Discussion and Recommendations	

### 18:00-20:00 Cocktail and Launch of Climate Change adaptation monograph

Organizing Team : Charles Mugoya, Annet Namuli, Sylvia Namara, Tim Thomas and Michael Waithaka

**Tuesday****10 December 2013****Morning Session**

Plenary 3 : Sub-Theme: Science and Agricultural Transformation in Africa

Facilitator: Mr. Edmund Kizito  
 Chair: Prof. Elly Sabiiti  
 Rapporteurs: Dr. Jean Ndikumana and Ms. Apophia Muhimbura

08:00- 08:15	Contribution by FARA in transformation of Agriculture in Africa	Dr. Yemi, Akinbamiyo, Executive Director, FARA
08:15 – 08:30	Contribution by CORAF in transformation of Agriculture in West Africa	Dr Harold Roy Macauley, Executive Director, CORAF
08:30 – 08:45	Contribution by CARDESSA in transformation of Agriculture in Southern Africa	Prof. Timothy Simalenga, Executive Director CARDESSA
08:45–09:00	Contribution by RUFORUM in transformation of Agriculture in Eastern and Southern Africa	Dr. Adipala Ekwamu, Executive Secretary, RUFORUM
09:00–09:15	Contribution of AFAAS in Agricultural transformation in Africa	Dr. Silim Nahdi, Executive Director, AFAAS
09:15–09:30	Science Agenda	Prof. G. Mrema, Professor, Sokoine University
09:30–09:45	Innovative ways of funding agriculture	Mr. Ashok Shah, Group CEO, Apollo Investments Limited, Nairobi Kenya
09:45-10:00	Contribution of ICIPE in agricultural transformation by	Dr Segenet Kelemu, Director General, ICIPE
10:00-10:30	Discussion and Recommendations	
10:30-11:00	Health Break	

08.00-17:00: Parallel Session by IDRC: Making Agri-systems work for the poor in Sub-Saharan Africa

Rapporteurs: Dr. Hezron Mogaka  
 Ms. Maureen Katafiire

11.00-17:00: Parallel Session by CTA: Seed Science and Policy

Rapporteurs: Dr. Michael Waithaka  
 Ms. Miriam Kyotalimye

Session of the General Assembly

11.00 -16:00 Session by the CGIAR Centres/CRPs: Role of CGIAR in Agricultural Transformation

Chair: Prof. Francis Wachira

Discussion paper: Dr. Joseph Methu

Rapporteurs: Mr. Clet Masiga

11.00 -13:00 Session of the General Assembly by NGO's: Role of NGO's in Agricultural Transformation

Facilitator: Mr. Edmond Kizito

Chair: Mr. Richard Sahinguvu , Director, INADES Formation Burundi

Rapporteurs: Mr. Tom Muga

Mr. Roland Mugumya

## Scientific Conference – Morning Parallel Technical Session 1

Chair: Dr. Fidelis Myaka  
 Rapporteurs: Dr. Lydia Kimenye and Dr. Brian Isabirye

Sub-theme: Increasing Agricultural Productivity		
11:00 – 11:15	Biochemical quality indices of sorghum genotypes from East Africa for malting and brewing	Kiprotich K. Felix, Department of Biochemistry and Molecular Biology, Egerton University
11:15 – 11:30	Genetic diversity of sorghum from African countries using SSR markers	Muigai Kimani Paul, Department of Biochemistry and Molecular Biology, Egerton University
11:30 – 11:45	The contribution of Association for strengthening Agricultural Research in Eastern and Central Africa (ASARECA) in improving aquaculture productivity and profitability	Owori Wadunde, Aquaculture Research and Development Centre NARO, Uganda
11:45 – 12:00	Effect of harvesting <i>Gliricidia sepium</i> at different cutting frequencies on quantity and quality of herbage biomass for dairy cattle nutrition	Kabi Fred, Department of Agricultural Production, Makerere University
12:00 – 12:15	Developing community based low tissue culture innovations for improved food security and livelihoods in the ECA	Clet Wandui Masiga and Charles Mugoya, Agrobiodiversity and Biotechnology Programme, ASARECA
12:15-12:30	The contribution of dairy-vegetable integration to household food and nutrition security in smallholder farming communities of Uganda	Emmanuel Zziwa ASARECA
12:30-13:00	Discussion and Recommendations	
13:00-14:00	Lunch	

## Scientific Conference Morning Parallel Technical Session 2

Chair: Prof. Paul Mafuka  
 Rapporteurs: Mr. Vincent Akulumuka and Dr. Emmanuel Zziwa

Sub-theme: Improving Investments in Agriculture- Building Capacity for Agricultural Transformation, Markets and Trade		
11:00 – 11:15	Food Price Trend Analysis: Lessons for Strengthening Food Security Policy in Tanzania	Festo Maro, Economic and Social Research Foundation (ESRF), Dar-Es-Salaam-Tanzania
11:15 – 11:30	Antioxidant, antimicrobial and synergistic activities of tea polyphenols	Robert K. Koech, Tea Research Foundation of Kenya
11:30 – 11:45	Water extractable fluoride in tea from East Africa: a case study of Kenyan tea	Okong'o Kelvin Mosei – Department of Chemistry, Egerton University, Kenya
11:45 – 12:00	Kenyan purple tea anthocyanin's ability to cross the blood brain barrier: reinforcing brain antioxidant capacity in mice	Khalid Rashid, Department of Biochemistry and Molecular Biology, Egerton University, Kenya
12:00 – 12:15	Analysis of comparative advantage of East African Community countries in coffee export: What can Burundi learn from them?	NDAYITWAYEKO W.M. Burundi Department of Rural Economics (FSEA)
12:15-12:30	Socio-economic factors affecting consumer behaviour and preference on farmed and wild fish around Lake Victoria basin, Tanzania	Salehe M.A. Tanzania Fisheries Research Institute, Mwanza Centre, Tanzania

12:30-13:00	Discussions and Recommendations	
13:00 -14:00	Lunch	

**Tuesday**

**10 December 2013**

**Afternoon Session**

Sessions of the General Assembly		
14.00 -17:00	Session Universities: Role of Universities in Agricultural Transformation	
Discussion paper:	Prof. Lilia Rahajaharitompo RABEHARISOA, Department of Crop Science and Production, Madagascar	
Chair:	Prof. Kalunde Sibuga	
Rapporteurs:	Dr. Charles Mugoya Dr. Brian isabirye	

14.00 -17:00	Session of Private sector: Role of Private sector in Agricultural Transformation	
Discussion paper:	Mr. Zubeir Ibrahim Mohammed, Managing Director Nile Sun Enterprises, Khartoum	
Facilitator :	Mr. Edmond Kizito	
Rappoteurs:	Mr. Enock Warinda Mr. Moses Odeke	

#### Scientific Conference – Afternoon Parallel Technical Session 1

Chair:	Dr. Iyassu Ghebretatios Fesha
Rapporteurs:	Dr. Kenneth Masuki and Ms. Yeshe Chiche

Sub-theme: Increasing Agricultural Productivity		
14:00-14:15	Application of biotechnology research for agricultural transformation in East and Central Africa (ECA)	Clet Wandui Masiga and Charles Mugoya, ASARECA
15:15-14:30	Detoxification of aflatoxins in diets of broiler birds and dairy cows using Uganda Bentonite	Swidiq Mugerwa, National Livestock Resources Research Institute, Tororo
14:30 – 14:45	Performance of Early calves' weaning diet as milk replacer for smallholder dairy production systems in Kenya	Margaret Syomiti Kenya Agricultural Research Institute (KARI)
14:45 – 15:00	Sustainable management of banana Xanthomonas Wilt in East and Central Africa: an innovation systems approach	Tinzaara William, Bioversity International, Kenya
15:00-15:30	Tea Break	
15:30 – 15:45	The evaluation of sorghum and cowpea yield potential in drought prone areas of Embu county, Eastern Kenya	Peterson N. M. Njeru KARI Muguga South, Kenya
15:45– 16:00	Evaluation of the effect of three staking techniques on yield of climbing bean in highlands of Burundi	Ntukamazina N. Institut des Sciences Agronomiques du Burundi, Burundi

16:00 – 16:15	The performance of artemia shell-free embryos, <i>Moina micrura</i> Kurz and phytoplankton on the larval rearing of African catfish, <i>Clarias gariepinus</i> Burchell	Godfrey W Ngupula Tanzania Fisheries Research Institute, Tanzania
16:15-16:30	Effect of cutting frequency and cutting height on dry matter yield and nutritive value of <i>Brachiaria mulato</i> for fodder production in Uganda	Kayiwa Stephen National Livestock Resources Research Institute,
16:30-16:45	Public Private Partnership in Dissemination of Improved Bean Technologies in Uganda.	Dr. Ugen Michael, National Crops Resources Research Institute (NaCRRI)
16:45-17:00	Development of a low-cost extruder for enhancing sorghum grain value-addition:	Samuel M. Wambugu Food Technology Division, Kenya Industrial Research and Development Institute, Nairobi, Kenya.
17:00-17:15	Discussion and Recommendations	

### Scientific Conference – Afternoon Parallel Technical Session 2

Chair: Dr. Emily Kabushenga Twinamasiko  
 Rapporteurs: Dr. Ivan Rwomushana and Mr. Roland Mugumya

#### Sub-theme: Climate Smart Agriculture

14:00-14:15	Farmers' perception, psychological determinants of climate change adaptation and adaptation strategies in East Africa.	Gumikiriza Margaret, Makelle University, Ethiopia
14:15 – 14:30	Advancing response farming for improved strategic and tactical agronomic management of seasonal rainfall variability	Habtamu Admassu, Ethiopian Institute of Agriculture Research Melkassa, Ethiopia
14:30 – 14:45	Effectiveness of technological options for minimizing agricultural production risks under variable climatic conditions in Eastern Uganda	Kansiime K. Monica Department of Agribusiness Management and Trade, Kenyatta University
14:45 – 15:00	Climate smart agriculture technologies for improved food security and poverty alleviation in smallholder dairy-vegetable production systems in Eastern and Central Africa	J.M. Kabirizi National Livestock Resources Research Institute, Tororo, Uganda
15:00 – 15:15	Land use and cover changes in pastoral communities of Uganda; implications on livestock management under drought induced pasture and water scarcity	Steven Byenkya, Bulindi, Zonal Agricultural Research and Development Institute, Uganda
15:15- 15:30	<b>Discussions and Recommendations</b>	
15:30 – 16:00	<b>Tea Break</b>	
16:00 – 16:15	Experiences in up-scaling of integrated soil fertility management (ISFM) in East Africa	Semalulu Onesimus, National Agricultural Research Laboratories (NARL), Uganda
16:15– 16:30	Climate Change Vulnerability Mapping over Selected Districts in Central Rift Valley of Ethiopia	Andualem Shimeles, Agro-meteorology, Ethiopian Institute of Agricultural Research (EIAR), Ethiopia.
16:30 – 16:45	Chlorophyll as a proxy indicator of nitrogen management for potato production in the highlands of East Africa	Njeru J. Jomo Kenyatta University, Kenya.
16:45-17:00	<b>Discussion and Recommendations</b>	

**18:00-20:00** **Launch of IDRC Supported Knowledge Products**  
 Organizing Team: Hezron Mogaka and Maureen Katafiire



**Wednesday**

**11 December 2013**

**Morning Session**

Facilitator: Mr. Edmond Kizito

Chair: Prof. Elly Sabiiti

Rapporteurs: Dr. Michael Waithaka and Ms. Miriam Kyotalimye

Plenary 4 Sub-Theme: Agri-systems in Agricultural Transformation		
08:30- 08:45	Research and agricultural transformation	Prof. Agnes Mwangombe
08:45 – 09:00	Harnessing the global treasure trove of knowledge to transform agriculture and agribusiness in East Africa	Prof. Nuhu Hatibu, CEO, Kilimo Trust
09.00-09:15	Making Agri-food systems work for the poor in sub-saharan Africa	Immaculate Maina, IDRC
09:15 – 09:30	Capacity building for agricultural transformation at ASTI	Dr. Nienke Beintema, Head of Programme, Agricultural Science and Technology Indicators (ASTI)
09:30-09:45	The role of gender in agricultural transformation in Eastern and Central Africa	Ms. Josephine Songa, AWARD Programme
09:45-10:00	Role of EAAPP in agricultural transformation	Dr. Vincent Akulumuka, Programme Manager, EAAPP
10:00-10:15	Enhancing intra-regional trade in agricultural goods and services for transformed farming systems in ECA	Mr. Argent Chuula, Chief Executive Officer, ACTESA
10:15-10:30	Discussion and Recommendations	
10:30- 11:00	Health Break	

08.00-17:00: Parallel Session by IDRC: Making Agri-systems work for the poor in Sub-Saharan Africa

Rapporteurs: Dr. Hezron Mogaka and Ms. Maureen Katafiire

Maureen Katafiire

11.00-17:00: Parallel Session by CTA: Seed Science and Policy

Rapporteurs: Dr. Michael Waithaka

Ms. Miriam Kyotalimye

#### Sessions of the General Assembly

11.00 -13:00: Session Farmer organizations: Role of Farmer Organizations in Agricultural Transformation

Chair: Mr. Philip Macharia Kiriro, President East African Farmers Federation Eastern Africa

Discussion Paper: Mr. Stephen Muchiri

Rapporteurs: Dr. Lydia Kimenye

Ms. Apophia Muhimbura

<b>11.00 -13:00</b>	<b>Session Extension : Role of extension in Agricultural Transformation</b>
<b>Chair:</b>	<b>Prof. Nafisa</b>
<b>Discussion Paper:</b>	<b>Dr. Theogene Rutagwenda, Director General</b> <b>Rwanda Animal Resources Development Authority</b>
<b>Facilitator:</b>	<b>Mr. Edmond Kizito</b>
<b>Rapporteurs:</b>	<b>Mr. Vicent Akulumuka</b> <b>Dr Emmanuel Zziwa</b>

### Scientific Conference- Morning Parallel Technical Session 1

Chair: Dr. Aime Lala Razafinjara  
 Rapporteurs: Dr. Kenneth Masuki and Ms. Yeshe Chiche

Sub-theme: Increasing Agricultural Productivity		
11:00 – 11:20	Contribution de la lutte chimique et génétique contre le mildiou de pomme de terre à Madagascar.	Randriantsalama Rodin, Centre de Développement Rural et de Recherche Appliquée (FIFAMANOR) B.P. 198 – Antsirabe, Madagascar
11:20-11:40	Effet du Maïs protéiné (Quality Protein Maize- (QPM-) sur l'élevage des poulets de chair dans la province du Bas-Congo et son impact sur la production du maïs protéiné en République Démocratique du Congo	Kankolongo Mbuya, Programme National de Recherche sur le Maïs, INERA D.R Congo
11:40-12:00	The seed potato production in Burundi: strategies for improvement	Astere Bararyenya, ISABU Burundi.
12:00- 12:20	Properties of extrudates from four sorghum varieties	Yusuf B. Byaruhanga Department of Food Technology & Nutrition, Makerere University,
12:20-12:40	Optimization of Seed and Broodstock Transport Densities for Improved Survival of Cultured Nile Tilapia ( <i>Oreochromis niloticus</i> , L. 1758).	Paul S. Orina Kenya Marine and Fisheries Research Institute, National Aquaculture Research Development and Training Centre, Kenya
12:40-13:00	Discussions and Recommendations	
13.00- 14:00	Lunch	

### Scientific Conference- Morning Parallel Technical Session 2

Chair: Dr. Daphrose Gahakwa  
 Rapporteurs: Dr. Jean Ndikumana and Dr. Ivan Rwomushana

Sub-theme: Increasing Agricultural Productivity		
11:00– 11:25	The performance of two locally formulated feeds compared against the commercial feed on the rearing of African catfish ( <i>Clarias gariepinus</i> Burchell)	<b>M. Musiba</b> <b>Tanzania Fisheries Research Institute, Tanzania</b>

11:25 – 11:50	Genetic transformation with IPT gene enhances drought tolerance and improves grain productivity in tropical maize ( <i>Zea mays L.</i> ) under water limited environment	<b>Leta Tulu Bedada</b> <b>Ethiopian Institute of Agricultural Research, Ethiopia</b>
11:50 – 12:15	Optimizing aquaculture productivity through enhanced seed, feed and appropriate technology adoption in Kenya	<b>Harrison Charo-Karisa</b> <b>National Aquaculture Research Development &amp; Training Center, Kenya</b>
12:15-12:30	Empowering women smallholder dairy farmers with forage processing technology.	<b>Florence Lubwama Kiyimba</b> <b>Agricultural Engineering and Appropriate Technology Research Centre (AEATREC), National Agricultural Research Laboratories (NARL), Tororo</b>
12:30-12:45	Empowering Small Scale Farmers Through Participatory Market Development: A Case Study Of Kiriogo Location, Nyandarua North District, Kenya.	<b>Njeru, Ngari C.M.</b> <b>Kenya Agricultural Research Institute (KARI)-Njoro, Kenya</b>
12:45:13:00	<b>Discussion and Recommendations</b>	
13:00 – 14:00	<b>Lunch</b>	

**Wednesday**

**11 December 2013**

**Afternoon Session**

**Scientific Conference- Afternoon Parallel Technical Session 1**

Chair: Prof. James Teri  
 Rapporteurs: Mr. Tom Muga and Ms. Adeline Muhebwa

<b>Sub-theme: Knowledge Management for Greater Impacts</b>		
14:00 – 14:15	Ameliorating Melarsoprol Toxicity Using Kenyan Purple Tea Anthocyanins and Co-enzyme-Q10 in a Mouse Model	Khalid Rashid Tea Research Foundation of Kenya,
14:15-14:30	Nutritional status of children Aged (0-59 Months) and associated factors In Mbeere South District, Kenya	Badake, Q.D University of Nairobi Kenya
14:30-14:45	Transforming Agriculture through contacted extension service delivery systems: The Case of Kenya's Agricultural Productivity and Agri-business Project	Ms. Jane Ngugi Kenya Agricultural Productivity and Agri-business Project (KAPAP), Kenya
14:45 – 15:00	Determinants of access to and use of technologies by groundnut value chain participants in Eastern Uganda	Jackline Bonabana-Wabbi Makerere University, Uganda
15:00-15:30	<b>Health Break</b>	
15:30-15:45	Linking local seed system to bean seed value chain in the DR CONGO: Experience of Innovation Platform in the DRC	Paulin Njingulula Institut National pour l'Etude et la Recherche Agricole INERA-MULUNGU, DR Congo
15:45 – 16:00	Technologies for improved production, value addition and market access - How much do farmers know? .	Jackline Bonabana-Wabbi, Makerere University, Uganda
16:00-16:15	Sustained bean utilization and innovations for improvement of small farmer livelihoods: case study of the North and South Kivu Provinces in Eastern DR. Congo	N. Mbikayi , Institut National Pour l'Etude et la Recherche Agricole (INERA), DR Congo.

16:15-16:30	Evaluating effects of farmer group's membership on agricultural technology adoption and crop's productivity in Uganda.	Francis M. Mwaura, EPRC , Makerere University, Uganda
16:30-16:45	Information and Communication Technologies (ICT) for Sudanese Agricultural Knowledge Management (SAKM)	Abdalla I. Elhagwa ARC Wad Medani Sudan
16:45-17:00	Enhanced Dissemination Through Radio: A Success Story in Dairy in Kenya.	Albin Sang, Ministry of Agriculture, Livestock and Fisheries, State Department of Livestock, Kenya
17:00-17:15	Discussions and Recommendations	

### Scientific Conference- Afternoon Parallel Technical Session 2

Chair: Prof. Ibrahim El-Dukheri  
 Rapporteurs: Mr. Enock Warinda and Mr. Moses Odeke

#### Sub-theme: Climate Smart Technologies

14:30 – 14:45	Managing Rainfall Variability in Arid Rain-fed Agriculture Using Adaptive Varieties and In-suit Water Harvesting	Kawkab E Babiker, Forest Research Centre, ARC Sudan
14:45 – 15:00	Scaling up of the ISFM technologies on improved bio-fortified bean production in Rwanda	Nabahungu, N.L, Rwanda Agricultural Board, Rwanda
15:00 – 15:15	Farmers' perception of land degradation and sustainable land management measures: western Usambara highlands, Tanzania	Juma Wickama, Agricultural Research Institute, Tanzania
15:15 – 15:30	Observed and Future Climate Variability and Extremes over East Showa Zone, Ethiopia	Fasil Mequanin, Ethiopian Institute of Agriculture Research, Ethiopia
15:30- 16:00	<b>Health Break</b>	
16:00-16:15	Impacts of Temporal and Spatial Climate variability and Trends in the Agricultural Systems of the Semi-arid Central Rift Valley of Ethiopia	Gizachew Legesse Agrometeorologist, Ethiopian Institute of Agriculture Research, Ethiopia
16:15 – 16:30	GIS assessment of climate change effects on Teff production in Ethiopia: implications for food security	John Yumbya, African Biodiversity Conservation and Innovations Centre, Kenya
16:30 – 16:45	Enhancement of drought tolerance in tropical maize through silencing of PARP1 gene.	Jonathan M. Matheka, Biochemistry and Biotechnology Department, Kenyatta University
16:45-17:00	Discussion and Recommendations	

**Thursday**

**12 December 2013**

**All day**

#### Burundi Day and Field Visit - An all Day Field Visits Event

Organizing Team:

Dr. Jean Ndikumana  
 Mr. Nelson Mukuriah  
 Mr. Moses Odeke

## **The Crop-Livestock Integration Project Field visit**

This will be a daylong field visit to the ASARECA crop-livestock integration project at Mawha located about 100 km from Bujumbura City on the Bujumbura – Rutana road towards the Tanzania border. The visit will start at the Mahwa Livestock Research Station where Napier Stunt varieties introduced from Uganda are being multiplied and demonstration of climate smart technologies including small scale irrigation, vegetable nurseries and potato seed production. From the Station delegates will visit Mr. Nsengimana Louis farm, a progressive farmer who, through the ASARECA LFP Crop-livestock integration project has embraced and adopted climate smart technologies for integrating crop and livestock production to improve the overall farm productivity. Technologies adopted include water harvesting and drip irrigation for forage and vegetable production, introduction of forage legumes (*Desmodium intortum*, *Stylosanthes guianensis*), fodder trees (*Calliandra calothyrsus*) and forage grasses (Guatemala and Napier grasses) to increase available feed resources; forage chopper to reduce drudgery in cutting fodder to improve intake and treadle pump for the drip irrigation. He has also adopted composting to increase manure availability as well as improved potato and maize varieties. He is producing his own potato seed on farm. Mr. Sengimana has now increased his milk yield significantly and has opened a milk kiosk at the nearby center where he sell his own milk and collect milk from other farmers for retail selling, providing a market opportunity not only for himself but also to his neighbours. Delegates will be accompanied by the Project PI in Burundi and ASARECA staff, Dr Jean Ndikumana and Dr. Emmanuel Zziwa.

## **The Potato Project Field Visit**

The visit will take delegates on a trip to one of the major Potato growing region of Burundi at Mugongomanga, located about 45 km from the beautiful city of Bujumbura. Delegates will see ASARECA project initiatives on up scaling innovations for quality seed potato production. This project, aims at bridging the productivity gap and making the production of potatoes more profitable and sustainable by addressing the challenges farmers face in their quest for good quality seed potato of consumer-preferred, high yielding varieties. Delegates will be exposed to the potato technologies that are being up scaled in Burundi, including seed plots, positive selection and a nursery for stem cuttings. The project has organized one producer per seed production area for seed supply to the potato small producers, located within a radius of 30 km from the potato farmer group. The visitors will also share with the farmers about the potato success stories. Delegates will be accompanied by the Project PI in Burundi and ASARECA staff, Dr Ivan Rwomushana and Brian Isabirye

## **The Beans Project Field Visit**

Delegates will be treated to a day long trip to the Mwaro Province, Bisoro Commune of Burundi where they will appreciate the beauty of the countryside as they visit an ASARECA project on utilization of Bean Innovations for Food Security and Improved Livelihoods in Burundi. The objective of the project is to promote bean varieties through development of gender-responsive seed systems that integrates ICM options for sustainable improvement of productivity. During the visit, delegates will see the plot demonstration aiming at:

- Producing quality declared bean seeds by both individuals and farmer organizations
- Supplying the seeds produced through farmers associations' channel
- Disseminating improved target varieties and ICM through farmer organizations

Delegates will be accompanied by the Project PI in Burundi and ASARECA staff in Charge, Dr Kenneth Masuki and Ms Maureen Katafiire.

**Friday****13 December 2013****Morning Session**

Facilitator: Mr. Edmond Kizito

Chair: Prof. Elly Sabiiti, Outgoing General Assembly President

Rapporteurs: Prof. Francis Wachira, Dr. Joseph Methu and Ms. Jolly Basemera

Business Committee Meeting		
08:30 – 08:40	Welcome Remarks	Dr Fidelis Myaka
08:40-09:00	ASARECA Progress report and achievements	Dr. Fina Opio
09:00– 09:30	Presentation of OP2 and Discussion	Prof. Francis Wachira
09:30-10:00	Review of previous recommendations and feedback from Stakeholders	Prof. Elly Sabiiti
10:00-10:15	Feedback from Scientific conference	Edmond Kizito
10:15-11:00	Election of the General Assembly President	Edmond Kizito
11:00 – 11:30 Health Break		
11:30-11:40	Statement by Outgoing President of General Assembly	Prof. Elly Sabiiti
11:40 -11:50	Acceptance speech by incoming President	Incoming President , ASARECA General Assembly
11:50-12:50	Decisions, Recommendations from Business Committee to the General Assembly	Incoming President, ASARECA General Assembly
12:50-13:00	Proposal for Venue of the next General Assembly	Incoming President, ASARECA General Assembly
13:00-14:00 Lunch Break		

**Friday****13 December 2013****Afternoon Session**

Facilitator: Mr. Edmond Kizito

Chair: Incoming General Assembly President

Rapporteurs: Prof. Francis Wachira, Joseph Methu and Ms. Jolly Basemera

Plenary Session of General Assembly		
14:00– 14:20	Presentation and Adoption of the Recommendations from Business Committee of the General Assembly	Incoming President ASARECA General Assembly
14:20 – 14:50	Closing Remarks from ASARECA Executive Director and Presentation of Awards	Dr Fina Opio
14:50 – 15:00	Closing Remarks by World Bank Representative	Mr. Assaye Legasse
15:00 – 15:10	Vote of Thanks	Mr. Richard Shatinguvu
15:10- 15:30	Closing Remarks by Guest of Honour	Hon. (Mrs) Kayitesi Odette Minister of Agriculture and Live-stock, Burundi.

<b>15:30</b>	<b>Health Break and Departure</b>
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ASARECA Secretariat, Plot 15 John Babiha Road,  
P.O.Box 765, Entebbe - Uganda  
Tel: 256 41 4320212 | Fax: 256 41 4321126  
Email: [asareca@asareca.org](mailto:asareca@asareca.org) | Website: [www.asareca.org](http://www.asareca.org)

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