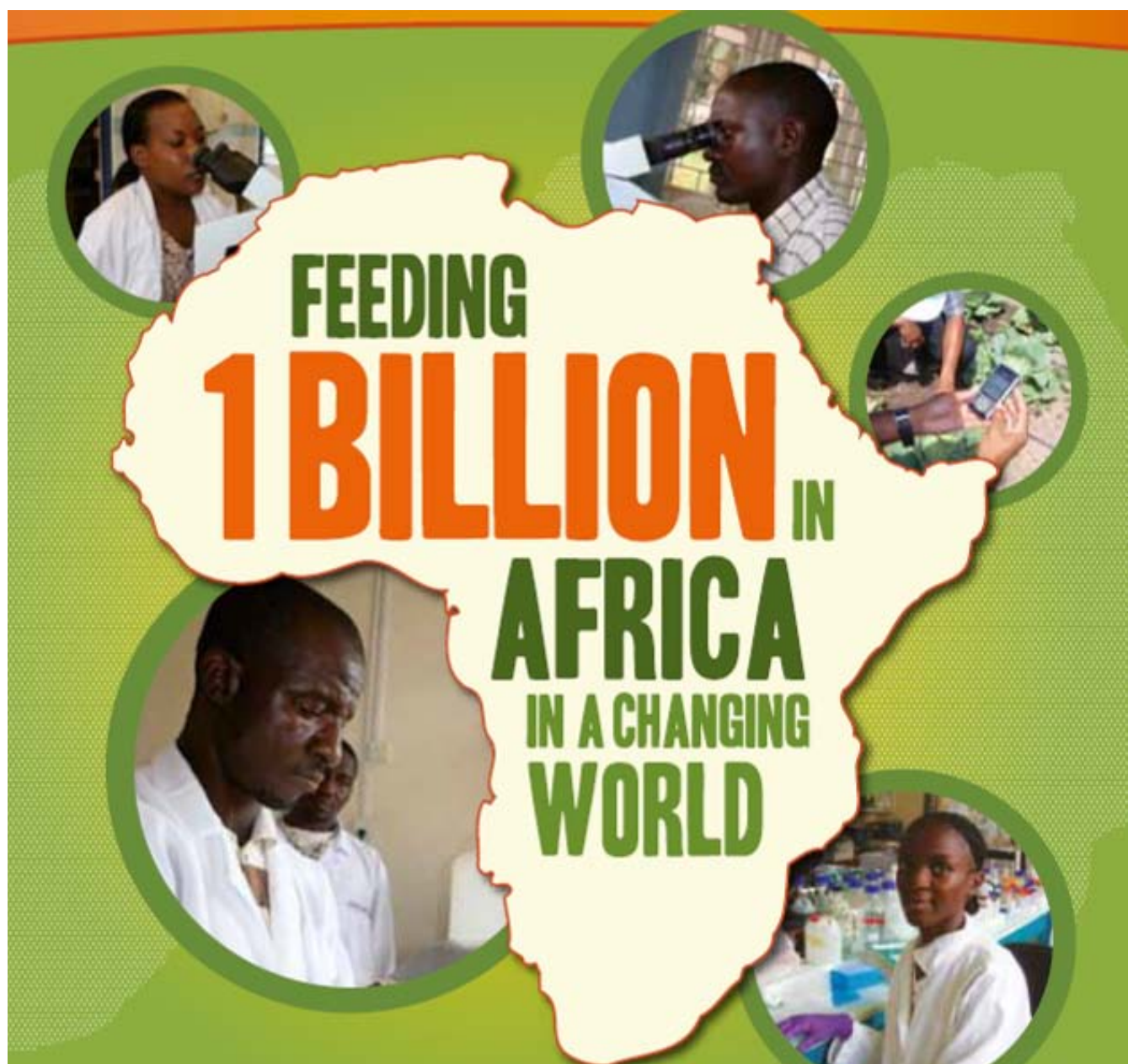


## PROGRAMME



### FINALS OF THE 3<sup>rd</sup> AFRICA-WIDE WOMEN AND YOUNG PROFESSIONALS IN SCIENCE COMPETITIONS

15-16 July 2013

6<sup>th</sup> Africa Agriculture Science Week and FARA General Assembly  
Accra, Ghana



INTERNATIONAL  
FOUNDATION FOR  
SCIENCE



## PREAMBLE

It has become increasingly clear that the voices of African women and young professionals in science must be heard in national, regional and international policy forums. They must be encouraged and supported to participate in policy processes and in agenda setting events. Policy and decision makers also need to be made aware of their potential for sustaining agricultural innovations. In response to these scenarios, a consortium of CTA, FARA, IFS, ANAFE and RUFORUM with the support of NPCA and AGRA as associate partners has built on lessons learned since the launch of the 1<sup>st</sup> and 2<sup>nd</sup> Africa-wide science competitions in 2008 and 2010, and organized the 3<sup>rd</sup> Africa-wide Women and Young Professionals in Science Competitions “*Feeding 1 billion in Africa in a changing world*” in 2012/2013.

The 3<sup>rd</sup> CTA/FARA/IFS/ANAFE/NPCA/RUFORUM/AGRA Africa-wide Women and Young Professionals in Science competitions sought to recognize and reward the contributions of women and young professionals who are involved in:

- Pioneering and innovative research, technology development and engineering;
- Communicating their research results and technological developments to improve agricultural performance, enhance livelihoods and build resilience of African communities; and
- Advocating for policy change and influencing policy processes through their research, education and outreach programmes to transform the agricultural and rural sectors, reduce hunger, improve prosperity and sustain the natural resource base.

They also sought to raise awareness of the need for valuing and sustaining the engagement of women and young professionals in science and facilitating their contribution to Africa’s socio-economic transformation.

The competitions were launched in March 2012. In total 316 submissions were received for both competitions (Eastern Africa: 105; West Africa: 129; Central Africa: 45; Southern Africa: 31; Northern Africa: 6). These abstracts were evaluated by a panel of experts based on the following criteria:

- Logic;
- Content;
- Communication;
- Impact; and
- Innovativeness and originality.

45 top entrants were selected to develop their abstracts into full papers using standard guidelines. They then participated in the *Scientific Writing, Communication and Advocacy* Workshop, which was held in conjunction with the 3<sup>rd</sup> RUFORUM biennial conference from 24-28 September, 2012 in Uganda. 20 finalists; 10 for each category, have been selected to compete for the top five places in each competition on 15-16 July, 2013. The winners will be announced during the FARA General Assembly from 17-20 July 2013, in Accra, Ghana.

The judges are:

Prof. Ameenah Gurib-Fakim, Managing Director, CEPHYR, Mauritius (Chief judge)

Ms Marjorie Niyitegeka Kyomuhendo, PR & Strategic Communication Specialist, Makerere University, Uganda

Dr Demba Farba Mbaye, Virginia Tech University, USAID/ERA project, Dakar, Senegal

Prof. Robert Kariuki Obura, Deputy Principal (A&R), Laikipia University College, Kenya

Prof. Abdoulaye Gouro, Executive Secretary, Conseil National de la recherche Agronomique du Niger Niamey, Niger

*3<sup>rd</sup> CTA/FARA/IFS/ANAFE/ NPCA/RUFORUM/AGRA  
Women and Young Professionals in Science Competitions*

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The prizes include:

**Women in Science**

- 1<sup>st</sup> Prize – Trophy, laptop and \$5,000 cash, books
- 2<sup>nd</sup> prize – Laptop and \$ 3,000 cash, books
- 3<sup>rd</sup> prize – Laptop and \$2,500 cash, books
- 4<sup>th</sup> & 5<sup>th</sup> places - \$1,500 cash each, books

**Young Professionals in Science**

- 1<sup>st</sup> Prize – Trophy, laptop and \$3,000 cash, books
- 2<sup>nd</sup> Prize – Video camera and \$ 2,000 cash, books
- 3<sup>rd</sup> Prize – Digital camera and \$1,500 cash, books
- 4<sup>th</sup> & 5<sup>th</sup> places - \$1,000 each, books

Special prizes (to be announced)

**Sunday, 14 July 2013**

***Afternoon Session***

- 13:00 – 15:00      Expert Panel Meeting (Closed)
- 15:00 – 16:00      Joint Meeting of Expert Panel and Judges (Closed)
- 16:00 – 18:00      Registration

**Monday, 15 July 2013**

***Opening Ceremony***

***Morning Session***

- 08:00 – 08:30      Registration
- Chairperson**      *Professor Mary Oyiela Abukutsa Onyango, Jomo Kenyatta University of Agriculture & Technology, Kenya*
- 08:30 – 08:45      Welcome Remarks – *Professor Monty Jones, Executive Director, FARA, Ghana*
- 08:45 – 09:00      Opening Remarks – *Dr Graham Haylor, Director, International Foundation for Science (IFS) Sweden*
- 09:00 – 09:30      Overview of the Competitions – Engaging women scientists and young professionals:  
Lessons Learned from Science Competitions – *Judith Ann Francis, Chair Expert Panel & Senior Programme Coordinator, Science & Technology Policies, CTA, The Netherlands*

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09:30 – 10:00 Keynote Address - Women as Leaders, Scientists, Farmers, Agri-Entrepreneurs, Mentors – Partners in Agricultural Transformation on the Continent – *Professor Agnes Mwang'ombe, Principal, College of Agriculture and Veterinary Sciences, University of Nairobi, Kenya*

10:00 – 10:30 Group Photo

10:30 – 11:00 **Tea/Coffee Break**

### ***Women in Science Competition***

**Chairperson** *Dr Aster Gebrekirstos Afwork, University of Erlangen-Nuremberg, Germany*

11:00 – 11:20 Improvement of Traditional Churner for Extraction of Butter in ElKiryab, Sudan, *Mawahib Eltayeb Ahmed, Sudan*

11:20 – 11:40 Agronomic performance of extra-early maize hybrids under stress and non-stress environments in Nigeria, *Ijeoma Chinyere Akaogu, Nigeria*

11:40 – 12:00 Sécurité alimentaire en Afrique : une technique innovante efficace de conservation du niébé (Food security in Africa: an innovative technique for cowpea storage ), *Loule Clementine, Dabire Binso, Burkina Faso*

12:00 – 12:20 Health Break

12:20 – 12:40 Climate change technologies for improved livelihoods of smallholder crop-livestock farmers in Eastern and Central Africa region, *Jolly Mary Kabirizi, Uganda*

12:40 – 13:00 Responses of *Hycleus apicicornis* to visual and olfactory cues in the field, *Lefulesele Lebesa, Lesotho*

**13:00 – 14:30 Lunch Break**

### ***Afternoon Session***

**Chairperson** *Dr Nighisty Ghezze, Head of Programme, International Foundation for Science (IFS), Sweden*

14:30 – 14:50 Macropropagation technique to produce healthy and cost effective banana seedlings in eastern and central Kenya, *Njeri Njau, Kenya*

14:50 – 15:10 Production of roasted bland bambara groundnut flour (*Voandzeia subterranea* ) and its application in fortification of biscuit and toasted cassava granules, *Jane Ngozi Okafor, Nigeria*

15:10 – 15:30 Improvement of papaya productivity for commercial application, *Fedah Karambu Rimberia, Kenya*

**15:30 – 16:00 Tea / Coffee Break**

16:00 – 16:20 Valorisation of poultry litter to compost: an assessment of the pathogen reduction potential, *Nafiisa Sobratee, Mauritius*

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16:20 – 16:40 Labour saving tools for women: The forage chopper for smallholder dairy farmers in Uganda, *Florence Beatrice Lubwama Kiyimba, Uganda*

16:40 – 17:00 Judges Deliberations (Closed)

17:00 – 17:30 Joint Meeting of Expert Panel and Judges (Closed)

**Free Evening**

**Tuesday, 16 July 2013**

***Young Professionals in Science Competition***

***Morning Session***

**Chairperson:** *Ifidon Ohiomoba, Manager PSTAD Project /Ag Director-AKT, FARA, Ghana*

08:30 – 09:00 Keynote Presentation: Grants, Prizes and Capability: Why IFS Believe Supporting Young Professionals will contribute to Sustainable Futures, *Dr Graham Haylor, Director, International Foundation for Science (IFS) Sweden*

09:00 – 09:20 Introducing heat-tolerant genes into exotic chicken for improved egg production under hot and humid environments, *Julius Kofi Hagan, Ghana*

09:20 – 09:40 QTL mapping of resistance to Ethiopian stem rust races of *Puccinia graminis f. sp. Tritici* including UG99 and stem rust resistance genes in durum wheat (*Triticum durum* Desf.), *Jemanesh Kifetew Haile, Ethiopia*

09:40 – 10:00 Landscape-scale management of Invasive *Cymbopogon afronardus* (Stapf) in the rangelands of Uganda, *Stella Kabiri, Uganda*

**10:00 – 10:30 Tea/Coffee Break**

**Chairperson:** *Dr Maurice Bolo, Director, The Scinnovent Centre, Kenya*

10:30 – 10:50 Biotechnology at a Crossroads: An Empirical Analysis of Tissue Culture Banana Adoption and Impacts in Kenya, *Nassul Ssentamu Kabunga, Uganda*

10:50 – 11:10 Valorisation des déchets solides urbains à Lomé : approche méthodologique pour une production durable du compost (Recovery of urban solid waste in Lomé: methodological approach towards sustainable compost production), *Kimi Edem Koledzi, Togo*

11:10 – 11:30 Enhancing pig productivity in Lake Victoria crescent zone: the effect of genotype and post-weaning diet, *Donald Rugira Kugonza, Uganda*

11:30 – 11:50 Health Break

11:50 – 12:10 Amélioration de la production et de l'utilisation de la farine de taro pour la préparation de la boule au Cameroun et au Tchad (Improving the production of taro flour for the preparation of paste in Cameroon and Chad), *Richard Marcel Nguimbou, Cameroon*

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**12:10 – 14:00 Lunch Break**

***Afternoon Session***

**Chairperson:** *Dr Wellington Ekaya, Training & Quality Assurance Manager, RUFORUM, Uganda*

14:00 – 14:20 Marker assisted selection for improvement of high and early root productivity in cassava (*manihot esculenta* Crantz), *Bunmi Olasanmi, Nigeria*

14:20 – 14:40 Poultry litter as an alternative feed resource for beef cattle in Eritrea, *Tekeste Abraham Tewoldebrhan Brikti Melles, Eritrea*

14:40 – 15:00 Development of drought tolerant transgenic bean lines using an improved gene transformation system, *Kingdom Kwapata, Malawi*

**15:00 – 15:30 Tea / Coffee Break**

15:30 – 16:30 Judges Deliberations (Closed)

16:30 – 17:00 Judges and Expert Panel Meeting (Closed)

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**About the Consortium Partners:**

**CTA:** The Technical Centre for Agricultural and Rural Cooperation ACP-EU (CTA) is a joint institution operating under the framework of the Cotonou Agreement between the ACP Group of States (Africa, the Caribbean and the Pacific) and the European Union (EU) Member States. CTA's mission is to advance food security, increase prosperity and support sound natural resource management through information, communication and knowledge management, facilitation, capacity-building and empowerment of agricultural and rural development organisations and networks in ACP countries. [www.cta.int](http://www.cta.int)

**FARA:** The Forum for Agricultural Research in Africa (FARA) is an apex organization bringing together and forming coalitions of major stakeholders in agricultural research and development in Africa. FARA is the technical arm of the African Union Commission (AUC) on rural economy and agricultural development. FARA is also the lead agency of the AU's NEPAD Planning and Coordinating Agency to implement the fourth pillar of the Comprehensive African Agricultural Development Programme (CAADP), involving agricultural research, technology dissemination and uptake. FARA provides a strategic platform to foster continental and global networking that reinforces the capacities of Africa's national agricultural research for development systems. [www.fara-africa.org](http://www.fara-africa.org)

**IFS:** The International Foundation for Science (IFS) contributes to strengthening the capability of early-career scientists from least-developed countries, who are embarking on a research career in the developing world. Capability is built through the provision of competitive small research grants, skills development, equipment purchasing support, and also mechanisms to facilitate networking. The IFS Programme aims to support excellent individual and collaborative research and to contribute innovation to the sustainable management of biological and water resources. Applications for support are encouraged in three research areas: Sustainable Natural Resources Management, Water and Aquatic Resources and Food Production, Food Security and Nutrition, to enable young scientists to contribute to a global research community that is aiming to reduce poverty and supporting sustainable development.

**ANAFE:** The African Network for Agriculture, Agroforestry and Natural Resources Education (ANAFE) is a Pan African network registered in 2007 in Kenya, Tanzania and Niger as an International NGO of over 134 Agricultural colleges and Universities teaching Agriculture, Agroforestry, Forestry and environment and incorporating important elements of agricultural sustainability. ANAFE facilitates change in agriculture and natural resources management by linking education to rural communities and by empowering member institutions to act as cornerstones in the implementation of activities, paying great attention to grassroots ownership, empowerment and decision making. <http://www.anafeafrica.org>.

**RUFORUM:** This is an umbrella organization of 30 universities in Eastern, Central and Southern Africa. It serves to promote integration of university research, training and outreach into national and regional agenda for development. This task is addressed not only through better trained graduates entering the rural development workforce, but also by conducting more relevant and development-oriented research that is directly linked to participatory outreach programmes. <http://www.ruforum.org>

**NPCA:** The New Partnership for Africa's Development (NEPAD) is a programme of the African Union (AU) adopted in Lusaka, Zambia in 2001. NEPAD is a radically new intervention, spearheaded by African leaders to pursue new priorities and approaches to the political and socio-economic transformation of Africa. In February 2010, the 14th AU Assembly established the NEPAD Planning and Coordinating Agency (NEPAD Agency) as a technical body of the AU to replace the NEPAD Secretariat. The NEPAD Agency is a key outcome of the integration of NEPAD into the AU structures and processes. The core mandate of the NEPAD Agency is to facilitate and coordinate the implementation of regional and continental priority programmes and projects and to push for partnerships, resource mobilisation and research and knowledge management. [www.nepad.org/npca](http://www.nepad.org/npca)

**AGRA:** AGRA is a dynamic partnership working across the African continent to help millions of small-scale farmers and their families lift themselves out of poverty and hunger. AGRA programmes develop practical solutions to significantly boost farm productivity and incomes for the poor while safeguarding the environment. AGRA advocates for policies that support its work across all key aspects of the African agricultural value chain from seeds, soil health and water to markets and agricultural education. [www.agra-alliance.org/](http://www.agra-alliance.org/)





**TECHNICAL CENTRE FOR AGRICULTURAL AND RURAL COOPERATION  
ACP-EU (CTA)**



**FORUM FOR AGRICULTURAL RESEARCH IN AFRICA (FARA)**



**INTERNATIONAL FOUNDATION FOR SCIENCE (IFS)**



**AFRICAN NETWORK FOR AGRICULTURE, AGROFORESTRY AND NATURAL  
RESOURCES EDUCATION (ANAFE)**



**REGIONAL UNIVERSITIES FORUM FOR CAPACITY BUILDING IN  
AGRICULTURE (RUFORUM)**



**NEPAD PLANNING AND COORDINATING AGENCY (NPCA)**



**ALLIANCE FOR A GREEN REVOLUTION IN AFRICA (AGRA)**

