



MAKERERE UNIVERSITY
COLLEGE OF AGRICULTURAL & ENVIRONMENTAL
SCIENCES (CAES)

11TH PRINCIPAL'S QUARTELY REPORT

OCTOBER- DECEMBER 2016

VISION

To be a leading institution of academic excellence and innovations in Africa

MISSION

To advance training, knowledge generation and service delivery in order to enhance agricultural development, sustainable natural resource utilization and environmental management.

Abbreviations

CAES	College of Agricultural and Environmental Sciences
DABE	Department of Agricultural and Biosystems engineering
DANRE	Department of Natural Resource Economics
DAP	Department of Agricultural Production
DEIS	Department of Extension and Innovation Studies
DEM	Department of Environmental Management
DEM	Department of Environmental Management
DFTHN	Department of Food Technology and Human Nutrition
DGGCS	Department of Geography, Geo-informatics and Climatic Sciences
DRGT	Directorate of Research and Graduate Training
FBT	Department of Forestry, Biodiversity and Tourism
FTBIC	Food Technology and Business Incubation Centre
MAK	Makerere University
MUARIK	Makerere University Research Institute Kabanyolo
MUBFS	Makerere University Biological Field Station
NBDB	National Biodiversity Data Bank
NEF	Next Einstein Fellowship
SAS	School of Agricultural Sciences
SFECS	School of Forestry, Environmental and Geographical Sciences
SFTNB	School of Food Technology, Nutrition and Bioengineering

Foreword



This report provides an overview of the events that took place in the CAES in the month of October 2016. The report is just part of the last quarter of 2016 that would have included the months of November and December. However, on 2nd November, 2016, the President of the Republic of Uganda H.E. Y.K Museveni closed Makerere University for two months following the academic staff sit down strike over unpaid allowances. Consequently, a Visitation Committee to Makerere University was appointed by the President to investigate the structural, academic and management issues of the University.

The University was re-opened on 24th December, 2016 to allow staff prepare for students who returned on 2nd January, 2017.

This document therefore is a presentation of major events that took place in the month of October 2016 only. As you will see, most events were mainly outreach. The Department of Forestry, Bio diversity and Tourism held a dissemination workshop on addressing the gender gap in participation and representation in community forestry in Uganda. The Department of Geography, Geo Informatics and Climatic Sciences (DGGCS) held the 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE) . DGGCS also held the 1st Memorial Lecture in honour of the Late Dr. Festus Bagoora while MUARIK hosted the 5th Seeds of Gold Farmers' Clinic on Dairy Farming.

On support services, the college Library was enriched. Staff and students can access literature from a number of databases. On human resources, our long serving Prof. Elly Sabiiti won an Authorship Award. This came shortly after acquiring a life title of, "a Fulbright Scholar".

Special gratitude goes to our staff for the hard work and cooperation inspite of challenges. Management also acknowledges support from our development partners that contributes greatly to the high profile of Makerere University. At the national level, we are grateful to the Government of Uganda for its commitment to finance and support the university through different initiatives.

I thank you.

Prof. Bernard Bashaasha,

PRINCIPAL

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1.0: INTRODUCTION

1.1: College of Agricultural & Environmental Sciences (CAES)

CAES is one of the nine colleges of Makerere University located within the Western part of Makerere University. Its main administrative center is in the Agriculture building located just opposite the University Main Library entrance. CAES has three Schools: School of Agricultural Sciences (SAS), the School of Forestry, Environmental and Geographical Sciences (SFEGS) and the School of Food Technology, Nutrition and Bioengineering (SFTNB).

The college has two institutes that handle research namely Makerere University Agricultural Research Institute Kabanyolo (MUARIK) and Makerere University Biology Field Station (MUBFS). The college has 14 centers serving as a base for knowledge transfer and partnerships. These are complemented by facilities located at Nyabyeya Forest College and Budongo Conservation Field Station that cater for Forestry students.

1.2: CAES Schools and departments

The School of Agricultural Sciences (SAS) is comprised of three Departments. The departments are: (i) Agricultural Production; (ii) Agribusiness and Natural Resource Economics; and (iii) Extension & Innovation Studies. These departments offer Undergraduate, Masters and PhD degrees in their respective disciplines.

The School of Forestry, Environmental and Geographical Sciences (SFEGS) is composed of three departments (i) the Department of Forestry, Biodiversity and Tourism; (ii) the Department of Environmental Management and (iii) the Department of Geography, Geo Informatics and Climatic Sciences.

The School of Food Technology, Nutrition and Bioengineering (SFTBN) comprises two departments. (i) the Department of Agricultural and Bio systems Engineering and (ii) the Department of Food Technology and Human Nutrition. The SFTNB hosts an e- learning center (Telematics receiving studio) fully furnished with equipment. The SFTNB also hosts the Food Technology and Business incubation Centre (FTBIC).

1.3: Research institutes

1.3.1: Makerere University Agricultural Research Institute Kabanyolo (MUARIK)

MUARIK is a public institution and an arm of Makerere University that interfaces with the National Agricultural research system (NARS). Seated on 650 hectares of land it is being managed as a multi-disciplinary facility for training, research, outreach and production under the CAES. It is located 19 kilometers North-West of Kampala off Gayaza Township on the Kampala-Zirombe Road. The institute houses

the center for Continuing Agricultural Education Centre (CAEC), the undergraduate student hostel and facilities for over 30 graduate students under the regional programmes. The Tissue Culture, Animal Science and the Biotechnology laboratories are also located at MUARIK. Other facilities at MUARIK include CURAD, staff residences, poultry, dairy, and piggery units among others.

1.3.2: The Makerere University Biological Field Station (MUBFS)

MUBFS is located in Kibale National Park in Kibale district. It is mainly involved in research but it is increasingly hosting short international courses in Tropical Biology. Originally, most of the research at MUBFS was primatology but over the years, the research agenda has broadened to include ecological and behavioral research on taxonomy, and socio economic studies. There is adequate dormitory and guest house space for groups ranging between 10 and 60 and catering services. In collaboration with national institutions, the institute provides consultancy services to the government and other organizations in Uganda. Consultancy services include tailor made training in different fields of environment and natural resources, assessment and monitoring of environment and natural resources therein environmental impact assessments and audits, project monitoring and evaluation and facilitation.

1.4: Research Centres

Recognizing the importance of outreach, the college established a fully-fledged outreach facility called the Continuing Agricultural Education Centre (CAEC). Through CAEC, the College operates outreach programs for various stakeholders (farmers, policy makers, students etc). The presence of the CAEC therefore makes the College a key player in development-impact oriented training and research.

Other centres include the Plant Breeding, Biotechnology and Seed systems research center, the Remote Sensing and GIS Laboratory, the Molecular Biology Laboratory and the Water and Wetlands research Laboratory. Others are the National Biodiversity Data Bank (NDBD), the Food Technology and Business Incubation Center (FTBIC), the Makerere University Climate Change research and Innovations (MUCCRI), Centre for Waste Management, Centre for Mountain Resources and Disaster Management, Rangeland Resources Centre and the Agricultural Policy Analysis Centre. All these operate at different capacities.

1.0: OUTREACH ACTIVITIES

At the national level, several workshops, seminars, demonstrations, exhibitions and conferences involving several stakeholders were successfully held. Our staff and students have engaged in community projects as they put theory into practice and also learn from communities.

1.1: The SFEGS holds a dissemination workshop on addressing the gender gap in participation and representation in community forestry in Uganda



Participants pose for a group photograph after the training

The Centre for International Forestry Research (CIFOR) in partnership with Makerere University School of Forestry, Environmental and Geographical Sciences (SFEGS) and the Association of Uganda Professional Women in Agriculture and the Environment (AUPWAE) on 25th October held a research dissemination workshop on addressing the gender gap in participation and representation in community forestry in Uganda.

The objective of the workshop was to disseminate the project research findings. CIFOR's research had boosted women's leadership and participation in forest user groups and both men and women were reaping the benefits. The other purpose of the workshop was to advocate for institutionalization, out scaling and up scaling of the ACM methodology.

The workshop was held at the SFEGS conference and officially opened by the renowned researcher, practitioner, first Makerere University forestry female graduate of 1977, and Vice President Uganda Forestry Association Racheal Musoke.

The workshop brought together key actors from government, civil society, research/academia, media and development partners for collective reflections on the findings and outcomes from research.

From 2011 -2016 CIFOR with funding from Austrian Development Agency (ADA) carried out research on gender, tenure and community forests in Uganda and Nicaragua. In Uganda CIFOR collaborated with SFEGS and AUPWAE.

The project was spearheaded by Prof. A.Y Banana from the Department of Forestry, Bio diversity and Tourism as the Principal Investigator (PI).

The overall goal of the research project was to improve women's tenure rights to forests their increased participation in community forest user groups with regard both to decision making and livelihood benefits.

The purpose of the project according to the PI was to enhance stakeholder uptake of institutional and policy innovations to promote women's participation, specifically regarding the way in which community forestry-related decisions include women and reflect their particular interests.

One of the components of research was implementation of Adaptive Collaborative Management (ACM) in selected 6 communities in Masaka, Mpigi, Butambala and Rakai districts. Under ACM, communities especially women have to take responsibility of activities to restore natural resources to their sustainability state while fully benefitting from their efforts.

For research he said, they conducted household surveys and trained participants in a method called Adaptive Collaborative Management (ACM) that aims at transforming gender relations.

1.2: The 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE) officially opened at Hotel Africana, Kampala Uganda



Conference participants pose for a group photo with the Prime Minister and the Vice Chancellor Mak after the opening ceremony

The 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE) has been officially opened by the Prime Minister of Uganda the Rt. Hon. Ruhakana Rugunda. The premier urged scientists to move geospatial technology from the laboratories to the market place to address development challenges.

Dr. Ruhakana Rugunda also launched a book funded by UNDP and executed by Makerere University titled, "Disasters and Climate Resilience in Uganda: Processes, Knowledge and Practices". The book was edited by Dr. Bob R Nakileza, Dr. Yazidhi Bamutaze and Dr. Paul Mukwaya from the Department of Geography, Geo informatics and Climatic Sciences.

The five day conference ran from 24th – 28th October, 2016 at Hotel Africana, Kampala. Makerere University provided leadership in the organization under the theme, "Our Earth, Our Heritage: Harnessing

Geospatial Technologies for Sustainable Development in Africa”.

Other conference partners included Kyambogo University, isprs(information from imagery), IIEE, UBOS, NEMA,GIC, NFA, ESIPPS International and EIS -Africa . The conference was sponsored by UNDP,(Platinum sponsors), AIRBUS and geoDymn (Silver sponsors) esa, esri, GIC, Embassy of Sweden, Global Water partnership, USAID, ISDE, RADI, Resilient Africa Network, Group on Earth Observations and OAKER Services (bronze sponsors) among others.

The conference brought together over 480 high level dignitaries mainly scientists, policy makers, practitioners, innovators, private sector, technology developers and a group of young scientists from 43 countries from Africa, China and Europe.

About 330 abstracts were submitted for scientific and about 20 plenary presentations. 20 organizations mounted exhibitions for technologies, innovations, services and products.

1.3: The 1st Memorial Lecture in honour of the Late Dr. Festus Bagoora held



Dr. Gorretie Nabanoga, Minister Gorreti Kitutu and Dr. Okello Ogwanga standing up while the MAK and National anthems was being sung in honor of the late

contribution to the academic, practice and policy fraternity especially in the field of environmental management.

The function was held at Makerere University's main Main Hall, and presided over by the Minister of State for Environment Hon. Dr. Mary Goretti Kitutu Kimono .

The main speaker on the day was Dr. Mugisha Aryamanya. Dr Aramanya gave a lecture on the theme centered on “*The Environmental Management Framework in Uganda. A challenge to Practice.*”

On 7th October, 2016 the university held the first Memorial Lecture to commemorate the Late Dr. Festus Kibirige Bagoora. The memorial lecture was organized by the Department of Geography, Geo informatics and Climatic Sciences in honor of Dr. Bagoora's great



Dr. Aryamanya receiving a gift from the DVC(AA) Dr. Okello Ogwang

The function was also attended by Makerere University Vice Chancellor represented by Dr. Okello Ogwang, Principal College of Agricultural Sciences represented by his Deputy, Associate Prof. Gorettie Nabanoga, staff from academic institutions, NEMA representatives, family members and students.

Dr. Festus Bagoora passed away in 2015. The late Dr. Festus Bagoora was an instrumental and long serving member of the Makerere University's Department of Geography, Geo informatics and Climatic Sciences. He taught and supervised many staff members at Masters and PhD level. In addition, he also worked as NEMA's Natural Resources Management Specialist (Soils and Land Use).

Speaker after speaker described the late Dr. Bagoora as a genius, patriotic and selfless man who devoted the better part of his adult life to teaching not only at Makerere University but other Universities as well.

He was remembered for having actively participated in nurturing the nascent environmental management regime in Uganda for spearheading the NEAP process that produced the Uganda National Environment Policy, the institutional framework and the current Environmental Legislation guiding sustainability in Uganda.

1.4: MUARIK hosts the 5th Seeds of Gold Farmers Clinic

Makerere University Agricultural Research Institute Kabanyolo (MUARIK) on 1st October hosted the 5th *Seeds of Gold Farm Clinic* focusing on Dairy farming. The training attracted about 1000 participants comprising of practicing and prospective farmers, dairy processors, businessmen and suppliers of Agro-input dealers.

The training was a partnership between MUARIK and the Daily



Monitor Newspaper Publication sponsored by subscriptions (shs.70,000) from the participants and supported by institutions such as Post Bank, the Daily Monitor, MTK, Seeds of Gold International and suppliers of

agro inputs who also mount an exhibition during the training . This was the second time MUARIK was hosting the Seeds of Gold Farm Clinic. The first training which focused on poultry farming attracted 1,200 participants on 7th May 2016.

Farm clinics are organized basing on the farmers challenges and demands in the quest to fulfil the mandate of the institute. MUARIK is an Agricultural Research Institution owned by Makerere University. It is being managed as a multi-disciplinary facility for training, research, outreach and production under the College of Agricultural and Environmental Sciences.

The participants were grouped into rotational locations and trained in different aspects. The training focused on dairy farming and essential

ingredients of dairy nutrition (feeds and feeding), economics of management (husbandry), breeds, milk and milk production, pests and disease control and value addition among others.

Makerere University offered varied agricultural and veterinary specialists including Dr. Constantine Bakyusa Katongole from the Department of Agricultural Production and Dr Stephen Lwasa from the Department of Agribusiness and Natural Resource Economics. Other experts who offered the training were Dr. Dan Ssemambo, an animal scientist at the National Animal Genetic Resources Centre and Data Bank (NAGRC & DB), Dr. Christopher Bbosa, a development expert, Dr. Richard Wanyama and Dr. Brian Arinaitwe who are veterinary doctors from Heifer International.

2.0: SUPPORT SERVICES

2.1: CAES Library enriched

The CAES library strategic objective is to ensure optimal utilization of library resources. We have continued to process library materials and populated databases eg Card Master, AIM, MakIR, Virtua, MaKUD, etc .We have also populated library databases (Virtua) and a number of titles and copies of library information materials have been entered into Virtua. A list of the databases through which staff and students can access literature is presented in the table 1 below:

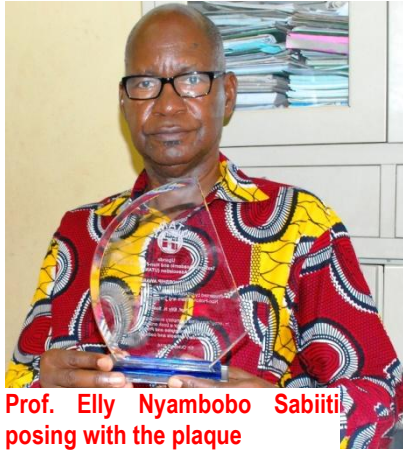
Table 1. List of the databases for literature

No	DATABASE	USERNAME	PASSWORD	URL
1.	AGORA (Access to Global Online Research in Agriculture)	ag-uga002	contact the librarian	http://agoralogin.research4life.org/
2.	OARE (Online Access to Research in the Environment)	UGA503	contact the librarian	http://oarelogin.research4life.org/
3.	HINARI	UGA003	contact the librarian	http://hinarilogin.research4life.org/
4.	ARDI (Access to Research in Development and Innovation)	Ardi-ug004	contact the librarian	http://www.wipo.int/ardi/en/
5.	TEEAL (The Essential Electronic Agricultural Library)	No username required.	No password required.	teeal.mak.ac.ug
6.	PROTAbase (Plant Resources Of Tropical Africa database)	No username required.	No password required.	www.prota.org (This is a free source database accessed through the internet)
7.	AgriKnowledge	No username required.	No password required.	www.agriknowledge.org
8.	Makerere Institutional Repository			makir.mak.ac.ug
9.	OECD Online Library	makerere-user	makerere-user	www.oecd-ilibrary.org
10.	Forestry compendium	No username required.	No password required.	www.cabi.org/fc/
11.	Crop Protection Compendium	No username required.	No password required.	http://www.cabi.org/cpc/
12.	Animal Health and Production Compendium	No username required.	No password required.	http://www.cabi.org/ahpc/
13.	CAB Abstracts	No username required.	No password required.	https://www.cabdirect.org/
	Others (On Maklib website)	-	-	http://mulib.mak.ac.ug/

2.2: Human Resources and Career development

The college has three broad categories of staff namely teaching, administrative and support staff.

2.2.1: Prof. Elly N. Sabiiti gets an Authorship Award shortly after acquiring a life title of, “a Fulbright Scholar”.



Prof. Elly Nyambobo Sabiiti posing with the plaque

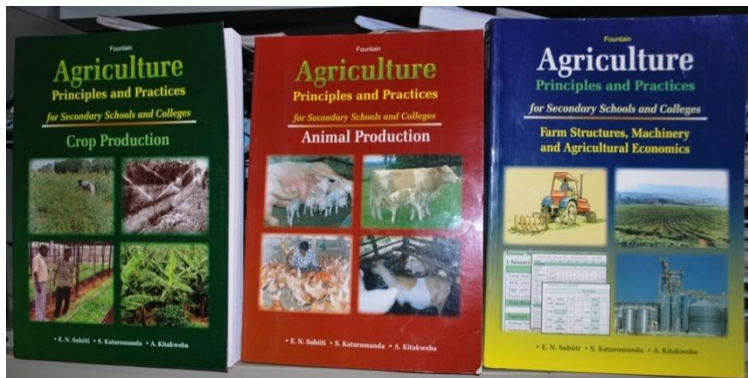
The Uganda Text book - Academic and Non-fiction Authors Association (UTANA) in partnership with the Norwegian Non-fiction writers and Translators Association has recognized Prof. Elly Nyabombo Sabiiti for publishing agricultural text books that are mostly used in Secondary schools and Colleges in Uganda, Kenya and Rwanda.

“They ranked my books as the best and I got the award. They had a workshop at Silver Springs Hotel in Bugolobi Kampala, two weeks ago and asked me to bring the three books and receive the award for 2016,” Prof. Sabiiti said.

The veteran Professor was given a plaque in recognition of his exemplary academic and non-fiction authorship for the books titled, “Agricultural Principles and Practices for Secondary schools and Colleges” on 5th October 2016.

In 2010, Prof. Sabiiti authored three books published by Fountain Publishers that are not only utilized in educational institutions but also by farmers who have found them useful. The three agricultural books are on Crop production, Animal Production and Farm Structures and Machinery.

“They did research and found out that the three books are highly utilized among the many books published by Ugandan authors. The books made more impact in colleges and universities in Rwanda, Kenya and Uganda”, Prof. Sabiiti said.



The three books that were authored by Prof. Sabiiti in 2010 and recognised in 2016

According to Prof. Sabiiti, the demand for the three books is high and the stocks in the bookshops have been exhausted. Fountain Publishers have placed a new order for the books. Prof. Sabiiti advises that:

“Ugandans should publish for our own institutions and not rely on foreign writers”.

Prof. Sabiiti is a long serving professor in the Department of Agricultural Production who has served Makerere University for over 30 years. He has on several occasions been recognized at national, regional and international fora for his outstanding professional performance in academics, research and service to communities.

In February, 2016, he attained a new life title of, “a Fulbright Scholar”. Prof. Sabiiti got the title after competing for a research grant, won it and went to Ohio State University in the United States and conducted research on curriculum reform and development in his courses. The title, “Fulbright Scholar”, is given to outstanding persons. It is given high recognition and is run by the US Government unlike others that are given by foundations.

“I went to the US in November, 2015 and finished my research in February, 2016. Part of the benefits from the title is that, while there I got a social security card that makes it easy for me to back. My data was captured and I can therefore access US facilities and services. I will remain a Fulbright scholar for life.” Prof. Sabiiti said.

In July 2016, Prof. Elly Sabiiti received a letter enclosed with the certificate from the Executive Director Institute of International Education and Council for international Exchange of Scholars acknowledging his participation in the Fulbright Program.



“This certificate recognizes your incorporation into a global network of over 360 Fulbright scholars, teachers and students from the United States and some 160 countries”, Part of the letter read and stating:

“It is our sincere hope that your grant was productive and meaningful experience both professionally and personally as well as for members of your family who were able to join you. One of the highlights for those of us whose working lives are

devoted to the administration of the Fulbright program is the opportunity to read your reports and learn about the ongoing impact of your experiences as a Fulbright grantee”.

In the letter, the Director expressed hope to remain in contact with Prof. Sabiiti and to continue seeing benefits from his research and teaching resulting from activities under the Fulbright grant.

FOR THESE AND MORE

CONTACT:

**The Principal
Makerere University College of Agricultural &
Environmental Sciences (CAES)**

P.O. Box 7062, Kampala – Uganda

Tel: 0414 542277

Email:

principal@caes.mak.ac.ug/pr@caes.mak.ac.ug

Website: www.caes.mak.ac.ug