



**CEDAT**

# Newsletter

College of Engineering, Design, Art and Technology

**March. 2016**

## ***CEDAT wins 6 million Dollar grant!***



**T**he College of Engineering, Design, Art and Technology has won a 6 million dollar grant to train over 100 masters students in the areas of Nano-technology and Material science. The students will be drawn from across East Africa. The centre of excellence will develop two Master's programs which are Master of Science in Nanotechnology and Master of Science in Materials and Product Development. Each of these Masters programs is expected to train over 68 students over a period of 4 years.

The intensive training provided through the Masters in Materials and Product development is intended to urgently fill the gap required in promoting value addition of primary produce in the Great Lakes region. It is expected that the trained graduate students will have a direct impact on industry.

Additionally, both Masters programs will have about 10 places reserved for industry professionals and policy makers who will also

enhance direct impact on value addition in materials and products produced. The Masters in Nanotechnology is important for the purpose of building a critical mass within the Great Lakes region with knowledge, skills and understanding on nanotechnology. The over 60 trained graduate students will produce nano-related solutions to problems of energy, water and environments affecting the Great Lakes region.

From a research view-point, the Materials and Product Development theme focuses on value addition of raw materials for the explicit purpose of enabling industries in the Great Lakes region, develop products that are of high quality and of internationally accepted standards. This research theme is expected to train 4 PhD students.

Nano-technology innovations will focus on state of the art research on energy, water and the environment. These are critical components in relation to combating climate change and yet they are also very important for both Human and National development. Nano-technology innovations in solar technology, water purification, environmental bio-remediation, thin film technology and applications in oil and gas production shall be sought. Another 4 PhD students shall be trained

under this research theme.

The third component of ACE shall be Nano-medicine. The high incidence of certain diseases within the Great Lakes region like Ebola, Malaria, Cancer and HIV requires more effort be made locally

to understanding the diagnostics and treatment options for these diseases. 4 PhD students shall be trained under this research theme.



## CEDAT to host the East African Centre of Excellence for Renewable Energy and Energy Efficiency

**C**EDAT has been designated, by the East African Community, as the East African Centre of Excellence for Renewable Energy and Energy Efficiency.

The centre will receive funding from the Austrian Development Agency. the centres' main objective will be to contribute towards increased access to modern, affordable and reliable energy services, energy security and mitigation of negative externalities of energy systems (such as pollution) by creating an enabling environment for renewable energy and energy efficiency markets and investments.

The college will be working closely with the Ministry of Energy and Mineral Resources, UNIDO through which the funding will be channelled and the EAC.

Part of the activities of the centre will include, to promote all appropriate and sustainable renewable energy and energy

efficiency technologies, promote small-scale and medium-scale hydro power projects, and promote Biofuel projects which prove to be sustainable and liquid Petroleum Gas (LPG) cooking projects.

EACREEE will support and executes Renewable Energy and Energy Efficiency activities and projects which cover one or more EAC Partner States focusing primarily on activities and projects with regional impact or national projects which demonstrate high potential for scaling-up or regional replication.

The launch of the centre will be held at CEDAT on June 10, 2016.





*Mr. Twaibu Ssemwogerere shaking hands with his opponent after successfully defending his PhD*



*Mr. Kamoga Omar during his defence*

This month, the college has had 3 individuals successfully defend their PhD studies.

Mr (now Dr) Kamoga Omar, on March 23, 2016 successfully defended his PhD thesis titled "Extraction of Pulp from Waste Grasses and Tree Leaves for Paper Industry".

Dr Kamoga is from Busitema university and his research was funded by Sida.

He was supervised by Prof. Joseph Byaruhanga and Prof.

John Baptist Kirabira both from CEDAT. His opponent was the distinguished Prof. Noble Banadda of CAES.

On March 9, 2016, another person supported by Sida, Mr (now Dr) Twaibu Semwogerere also successfully defended his PhD titled "Modelling the Second' Soil Erosion on Murram Roads in Uganda". Dr Twaibu is also from Busitema University and was supervised by Assoc. Prof. Peter Lating from CEDAT.

Mr. Kizito Paul Mubiru, on Wednesday March 30, 2016 also successfully defended his PhD thesis titled "Modeling and Optimization of Inventory under Stochastic Demand in Uganda: A Case Study of Milk Powder Product".

Dr Kizito is from Kyambogo University and his research was funded by Sida. His opponent was Prof. Mpandey B D.

He was supervised by Dr Bernard Kariko-Buhwezi and Prof. Peter Okidi-Lating both from CEDAT.

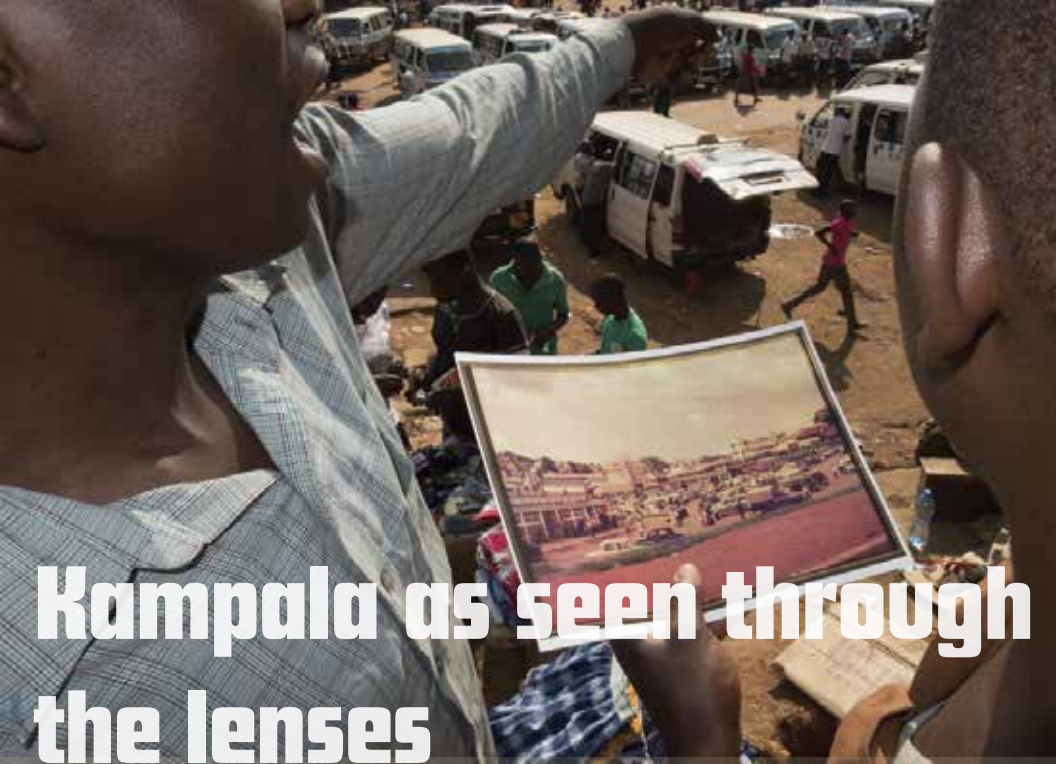


*Mr. Kizito Paul Mubiru defending his PhD*

---

## Congratulations to the NEW Drs!!

---



2015



1929

# Kampala as seen through the lenses

If have not yet been to the Makerere Art Gallery, at the Margaret Trowell School of Industrial and Fine Arts, put on your running shoes because the City Remixing exhibition is about to close. The exhibition, which has been running since March 4th will close on April 2, 2016.

City Remixing presents photographs made of and in Kampala through time, as seen by 5 different photographers. It shows and wants to make us think about the progress and development of Kampala, and the possibilities and limitations of photographic visualisations of urban environments at large.

The opening of the exhibition was used to launch the fifth volume in the Ebifananyi book series, developed and designed by Andrea Stultiens, published jointly by HIPUGanda and Paradox.

Another version of this exhibition will be on display in the Netherlands from April 7th till 26th at Academy Minerva in Groningen as part of the activities of PRICCAPractice, a research group concerned with photography as part of artistic practices in and between different cultural contexts.

## NEW WEBSITE

The Web administrator, Mr Mark Rujumba has designed a new and more interactive website for the college. Please visit it and give us feedback so that we can improve it further.

