



Makerere University

College of Engineering, Design, Art and Technology

Annual Report for 2016

To: **The Directorate of Planning**

Submitted by: *Principal's Office*
CEDAT

Contents

Progress in meeting annual goals.....	3
Goals 2016	3
Progress with strategic planning	4
Teaching and learning.....	4
Candidates for Graduation in February 2017.....	5
Space and Infrastructure	6
Library.....	6
Achievements for CEDAT Library.....	6
Challenges for the College Library.....	7
Recommendations:.....	7
Research and Innovations	7
Publications during 2016	7
Conferences held.....	10
Exhibitions	12
Conferences.....	16
Research funding and Partnerships	18
MOUs signed	18
Staff Development and movement.....	19
Staff PhDs Achieved.....	19
Staff Masters Degree.....	19
Promotions	19
Appointments.....	20
Resignations.....	20
Staff who died.....	21
Planning for 2017.....	21
Goals for 2017.....	21
Needs for 2017.....	21

Progress in meeting annual goals

Goals 2016

The CEDAT goals include:

1. To provide a teaching and learning environment that assures superior experience to both the learners and the academic staff.
2. To enhance knowledge generation and its access for the benefit of society.
3. To enhance linkages between the College and partners for purposes of knowledge sharing and service provision.

Progress in meeting each goal:

Goal 1

- a. So far 31 ilabs have been developed and deployed in the department of Electrical and Computer Engineering.
- b. The College bought more overhead projectors. The percentage coverage of the lecture rooms at CEDAT stands at 75%.
- c. The proposed three programmes in MTSIFA are with Senate for their consideration. The school of engineering has got some funds under the Enriching Engineering Education programme to review the curricula.
- d. More laboratories have been procured such as the Water Resources laboratory, Materials laboratory,
- e. The interior of the CEDAT New Building has been decorated.

Goal 2

- a) The Kiira Ev motor vehicle project has been taken over by the Government of Uganda through the Kiira Motors Corporation.
- b) More than six grants have been won by staff at CEDAT
- c) CEDAT signed an agreement with East African Community and UNIDO. CEDAT was designated the East Africa Center of Excellence for Renewable Energy and Energy Efficiency.
- d) CEDAT was designated to be a center of excellence for Materials, Product Development and Nano Technology (MAPRONANO) under the world Bank funded

Goal 3

- a) The College has continued to collaborate and sign MoUs with various institutions. These include:
 - Busitema University

- Ndejje University
 - Benadir University in Somalia
- Others in the pipeline including those for National Water and Sewerage Corporation,

Progress with strategic planning

Teaching and learning

- The programme of Diploma in Civil Engineering Surveying is being phased out completely. The mop up cohort of students have completed.
- Some laboratories were not conducted because of the ongoing repair works on some of the laboratory space as well as inadequate laboratory reagents and materials.
- The college conducted exams for Second Semester 2015/16 during the period 9th May to 27th May 2016. They were conducted peacefully. The number of candidates who sat for examinations can be summarized as follows:

Programme	Year I	Year II	Year III	Year IV	Year V
Undergraduate					
B. Architecture	44	34	33	29	32
Urban and Regional Planning	43	48	56	49	
BSc Geomatics and Land Mgt	48	47	48	47	
BSc Construction Management	38	45	45		
BSc Quantity Surveying	52	61			
BSc Land Economics	46	46	38	37	
BSc Civil Engineering	132	120	117	105	
Bsc Mechanical	80	83	61	50	
BSc Electrical	92	100	84	70	
BSc Computer Engineering	40	53	28	32	
BSc Telecommunications Engineering	46	56	57	50	
B. Industrial and Fine Arts	173	159	138		
Graduate					
MSc Construction Management	142				
PGD Construction Project Management	28				
MSc GIST	30				
Master of Physical Planning and Design	3				
PGD Physical Planning and Design	2				
MSc Civil Engineering	40	40			
MSc Mechanical Engineering	4				
MSc TIID	8	15			
MSc Renewable Energy	6	8			
MSc Power Systems Engineering	12	8			
MSc Telecommunications Engineering	6	3			
Master of Arts in Fine Arts	11				
TOTAL	1096	926	705	469	32

- d. The continuing undergraduate students for 2015/16 attended Field Attachment exercise for 10 weeks in June and finished in the first week of August 2016. The exercise was successful.
- e. Lectures at the College for Semester I 2016/17 started although one week late due to the strike by the non-teaching staff.
- f. Innovations in teaching and learning: The College is now using projectors for teaching and learning. Problem based learning is also used as a mode of teaching especially in final year projects. Students are expected to identify a society problem and see how best to innovate and solve that problem.

The college has continued to use online laboratories (iLabs) in conducting experiments.

With the iLabs Shared Architecture, the following online laboratories have been developed and deployed;

- Basic analogue and digital electronics (9),
- communication engineering (14),
- renewable energy (2),
- Control systems Engineering (2),
- Amplified digital electronics (2)
- Digital Signal Processing (2).

As a result, iLabs have been integrated into the curriculum. Students do online labs every semester.

iLabs have been introduced at Busitema and Mbarara University

Candidates for Graduation in February 2017

Below are the numbers of candidates ready for graduation in February 2017.

Programme	Number
<i>Undergraduate</i>	
B. Architecture	20
BSc. Urban and Regional Planning	29
BSc Geomatics and Land Mgt	29
BSc in surveying	3
BSc Construction Management	42
BSc Quantity Surveying	52
BSc Land Economics	30
BSc Civil Engineering	91
Bsc Mechanical	49
BSc Electrical	83
BSc Computer Engineering	42
BSc Telecommunications Engineering	49
B. Industrial and Fine Arts	109
Diploma in Civil Engineering surveying	6
<i>Graduate</i>	
MSc Construction Management	11

PGD Construction Project Management	20
Master of Science in Geo-information Science and Technology	8
Master of Physical Planning and Design	1
PGD Urban Planning and Design	
MSc Civil Engineering	6
MSC Engineeirng (Civil)	1
Master of Science in Technology innovation and industrial Development	5
MSc Renewable Energy	4
MSc Electrical Engineering	1
MSc of Engineering (Electrical)	1
Master of Arts in Fine Arts	5
Msc in Electrical Engineering	1
Doctor of Philosophy (Physical Planning)	1
Doctor of Philosophy (Mechanical Engineering)	3
TOTAL	701

Space and Infrastructure

- i) Renovations of the Materials and Fluids carried out with funding from African Development Bank was substantially completed. However, the pieces of equipment transferred from the laboratories for renovation works affected us negatively.
- ii) The reading room for graduate students was expanded and this is going to help them to have space for revision.
- iii) Cleanliness is very good in the classes and the open spaces. However, we do not have cleaners for offices of lecturers and Dean/Heads.
- iv) Some of the toilets have been renovated
- v) The main parking in front of the college buildings has been resealed with asphalt concrete. The staff members appreciate this undertaking.
- vi) There are major leakages in the roof of the old building and serious gushing of rain water occurs in the basement during heavy rains. The plan is to renovate the building using funds from the Presidential Initiative.

Library

Achievements for CEDAT Library

- The library has received 161 undergraduate research projects, 27 Masters Dissertations and 29 Phd theses. The total research works received are 217.
- The total number of new books received are 61 copies.
- The new books and research projects received have been entered in the Makerere University Library database.
- The library carried out a stock taking exercise and identified that:
 - 4858 copies of books and 2596 titles of books were available on open shelf.
 - 919 copies of books and 721 titles of books were available on the reserve section.
 - 145 books were torn and needed binding. The college has accepted to facilitate the binding of these books.

- 40 books were weeded (withdrawn from the general collection) because they were very outdated. We hope to donate them to Makerere University library open shelves for general students use.
- The School of Engineering has placed in book bank orders amounting to 533 copies of books which were forwarded to the University Main Library for processing and purchase. The other schools in the college are yet to place in their book bank orders.

Challenges for the College Library

- Limited space to sit all the students and staff that need to use the library and limited space for book storage. The library is continuously receiving new books yet the space is not expanding.
- The books are very few compared to the student numbers especially those books that are on the reserve.
- Slow response from some schools to place in book bank orders.

Recommendations:

- There is a need to increase the library space.
- There is need to increase on the copies of books on demand either through photocopying or through lecturers of the college placing in book bank orders to Makerere University library.
- The Heads of Departments and Schools of the college need to place in their book bank orders on time when they are told to do so.

Research and Innovations

Publications during 2016

Günther, I., Horst, A., Borofsky, Y., Niwagaba, C., 2016. How to increase toilet coverage among the urban poor? The effects of information, subsidies and financing on private investment in improved sanitation in Kampala, Uganda. Policy Brief. ETH-Zürich. <http://dx.doi.org/10.3929/ethz-a-010633023/> .

Nakagiri, A., Niwagaba, B.C., Nyenje, M.P., Kulabako, N. R., Tumuhairwe, J. B., Kansiime, F., 2017. Assessing ambient and internal environmental conditions of pit latrines in urban slums of Kampala, Uganda: Effect on performance. *Journal of Water, Sanitation and Hygiene for Development* (Accepted and In Press), doi: 10.2166/washdev.2017.085.

Akurut M., Niwagaba, C. B., Willems, P., 2017. Long-term variations of water quality in the Inner Murchison Bay, Lake Victoria. *Environmental Monitoring and Assessment* 189(22), 1-17; DOI 10.1007/s10661-016-5730-4.

Fuhrmann, S., Winkler, M.S., Stalder, M., Niwagaba, B.C., Babu, M., Kabatereine, B. N., Halage, A.A., Utzinger, J., Cisse, G., Nauta, N., 2016. Disease burden due to

gastrointestinal pathogens in a wastewater system in Kampala, Uganda. *Microbial Risk Analysis* 4, 16-28.

Semiyaga, S., Okure, M. A. E., Niwagaba, C. B., Nyenje, P.M., Kansiime, F., 2016. Dewaterability of faecal sludge and its implications on faecal sludge management in urban slums. *International Journal of Environmental Science and Technology*, 1–14. DOI: 10.1007/s13762-016-1134-9.

Mutai, P., Niwagaba, C., Tumuhairwe, J. B., Kulabako, R., Katukiza, A., Nyenje, P., Kansiime, F., 2016. Key factors affecting performance of biogas latrines in urban informal areas: Case of Kampala and Nairobi, East Africa. *African Journal of Environmental Science and Technology* 10(7), 207-220. DOI: 10.5897/AJEST2016.2108.

Kwiringira, J., Atekyereza, P., Niwagaba, C., Kabumbuli, R., Rwabukwali, C., Kulabako, R., Günther, I., 2016. Seasonal variations and shared latrine cleaning practices in the slums of Kampala city, Uganda. *BMC Public Health* 16 (361), 1-10.

Nakagiri, A., Niwagaba, B.C., Nyenje, M.P., Kulabako, R.N., Tumuhairwe, J.B., Kansiime, F., 2016. Are pit latrines in urban areas of Sub-Saharan Africa performing? A review of usage, filling, insects and odour nuisances. *BMC Public Health*, 16(120) 1-16.

Ó Briain, D., Denieffe, D., Kavanagh, Y., Okello, D. (2016). The move to a software defined future and the implications for Uganda. NCC, Uganda. 15 September 2016.

Ó Briain, D. (2016). WISPs in a software defined world, 10 February 2016.

Ó Briain, D., Denieffe, D., Kavanagh, Y., Okello, D. (2016). Network Revolution - SDN and NFV playing their part in the next Industrial Revolution. 3 February 2016.

Ó Briain, D., Denieffe, D., Kavanagh, Y., Okello, D. (2016). A future network architecture for Wireless ISPs leveraging SDN techniques. 3 February 2016.

Kayamba William K., W., and Kwesiga, P. (2016). The role of pottery production in development: A case study of the Ankole region in Western Uganda. *Net Journal of Social Sciences*, 4(4): 81-90.

John Muhumuza Kakitahi , Henry Mwanaki Alinaitwe, Anne Landin , Simon James Mone , (2016) "Impact of construction-related rework on selected Ugandan public projects", *Journal of Engineering, Design and Technology*, Vol. 14 Iss: 2, pp.238 – 251

Mwima R., Gidudu A. Mazimwe A., Ligmann-Zielinska A., Majalija, S., Khaita M., Kabasa, J., D & Bergholz, P., 2016. Spatially explicit uncertainty modeling of zoonotic pathogen distribution: a case of *Listeria monocytogenes* in New York State, USA *Applied Geomatics* ISSN 1866-9298 DOI 10.1007/s12518-016-0177-4 (In Press)

Gidudu A., Banura C. and Namugga A, 2016. Monitoring Water Quality on Lake Victoria Using MODIS Imagery, International Journal of Technoscience and Development, Vol. 3 Issue 1 pp 1 – 10 ISSN 2001-2837

Ssebugwawo A., Alinaitwe H. and Bagampadde, U. (2016). An Investigation into Escalation of Paved Road Construction Unit Rates in Uganda. A Journal of the Engineers Registration Board, Vol. 1(2), pp. 42 – 51.

Musoke, P and Alinaitwe H (2016) Advantages and Short Comings of Using Problem Based Learning in Engineering Education in Uganda. In A J Swart (ed) 6th African Engineering Education Association 2016 Conference Proceedings, Bloemfontein, South Africa, 111 – 116

Alinaitwe H M (2016) International students, plagiarism and academic writing: can science and engineering educators make a difference. African Journal of Engineering Education, 1(1), 1-10.

Mwesige, G., Farah, H., Bagampadde, U. and Koutsopoulos, N. H. (2016). Effect of Passing Zone Length on Operation and Safety of Two-Lane Rural Highways in Uganda. Journal of International Association of Traffic and Safety Sciences (IATSS) Research, <http://dx.doi.org/j.iatssr.2016.09.001>.

Peters-Klaphake, Katrin: Baskets, Balloons, Boats and Borderlines. An Artistic Migrational Turn, with R. Chikukwa and I. Lähnemann, in: *Kabbo ka Muwala – The Girl's Basket. Migration and Mobility in Southern and Eastern Africa*. R. Chikukwa, K. Hoffmann, I. Lähnemann, K. Peters-Klaphake, L. Potts (eds.), Berlin: Revolver Publishing, pp. 80-105.

Peters-Klaphake, Katrin: At Work Kampala, in: *03 AtWork Kampala 2015*. Peters-Klaphake, K. (ed.), Milano: *lettera27*.

Mackay A.E. Okure, Wilson B. Musinguzi, Terese Løvås. Parametric modeling of producer gas-combustor and heat exchanger integration for micro-gas turbine application. *Journal of Energy Challenges and Mechanics*. ISSN 2056-9386 Volume 3 (2016) Issue 4, Article 4. p.1919 – 200. © 2016 North Sea. <http://www.nscj.co.uk/JECM/>

Okure M. A. E., Tuhairwe F., Musinguzi W.B. (Uganda), Technical and economic viability of biogas-based electricity generation for distributed renewable energy systems in livestock communities of Uganda. In *Sustainable Energy for All by Design*. Ed. Emanuela Delfino and Carlo Vezzoli. p.87 – 94. ISBN: 978-88-95651-23-1 Published by © 2016 Edizioni POLI.design

S. Semiyaga, M. A. E. Okure, C. B. Niwagaba, P. M. Nyenje, F. Kansiiime. Dewaterability of faecal sludge and its implications on faecal sludge management in urban slums. *International Journal of Environmental Science and Technology*. 2016. DOI 10.1007/s13762-016-1134-9. Springer

Abbo M. S., Da Silva I.P, Okure M., Lating P. Musinguzi W. Selecection of Distributed Renewable Energy (DRE) Sites using Simple Additive Weighting (SAW). In *Sustainable Energy for All by Design*. Ed. Emanuela Delfino and Carlo Vezzoli. p.211 – 218. ISBN: 978-88-95651-23-1 Published by © 2016 Edizioni POLI.design

Arineitwe, J., Okure, M. A.E., Fakhrai R., Sebbit, A. CFD modeling of a producer gas burner with swirl flow and continuous air staging. In *Proc. of the Intl. Conf. on Computing in Mechanical Engineering* Editors P. Krishnankutty, Alam Md. Mahbub, Wei Zhan, Sekhar Majumdar, and Sheeja Janardhanan. Copyright © 2016 by ICCME'15 Organizers. Published by Research Publishing, Singapore ISBN: 978-981-09-6278-4 :: doi:10.3850/9789810962784-1570134305

Mackay A. E. Okure, Godfrey Ssajja Ssali, Sad Jarall. Simulation for control strategies of hybrid wind/ hydrogen systems for smart grid applications in Kampala and Tororo-Uganda. *International Journal of Technoscience and Development (IJTD) Vol 1, Issue 1, 2016, ISSN 2001-2837. p.13-23. <http://www.technoscience.se/ijtd>*

Kagarura Geoffrey Mark (2016), Challenges of ICT Skills Development in East Africa, Industry and Academia Forum (Annual Meetings of EACO Assemblies), Kigali , 20th-24th June 2016 [Online] [URL]: http://www.eaco.int/22ndassemblies/Challenges_of_ICT_Skills_Development_in_East%20Africa.pdf

Conferences held

1. "Symposium on Transformative Digital Technologies", Netlabs!UG- College of Engineering, Design, Art and Technology (CEDAT) Makerere University, Alcatel-Lucent Bell Labs, Nokia and the Marconi Society, Kampala, 3rd February 2016. The symposium showcased the work carried out by the Celestini Project at CEDAT as well as act as a forum for the discussion of technological breakthroughs that will deliver future networks to turbocharge developing economies. Keynote: Robert W. Tkach, Director of the Advanced Photonics at Bell Laboratories. Organisers: Jonathan Serugunda, Diarmuid O'Briain (Chairs), Dorothy Okello (TPC), Peterson Mwesiga, Mark Kagarura, Deborah Namirembe and Gerald Budigiri
2. "IEEE Green Communications Virtual Conference", College of Engineering, Design, Art and Technology (CEDAT), Makerere University, Institute of Electrical and Electronics Engineers (IEEE) Communications Society, Kampala, 21 December 2015. The Virtual Conference included sessions on Optical Access, Wireless Access, Energy Efficiency as well as an open discussion to share ideas. Organisers: Dorothy Okello, Jonathan Serugunda, Diarmuid O'Briain (Chairs), Gerald Budigiri, Mark Kagarura.

3. “Africa code week (ACW)” RAN, Makerere University, netLabs!UG- College of Engineering, Design, Art & Technology (CEDAT), Galway Education Centre (Ireland), College of Computing and Information Sciences (CoCIS), Women in Technology Uganda (WITU), HiveCOLAB and ACW youth ambassadors, , Kampala (CEDAT), October 28th, 2016 organized;
Training of Trainers Session: Over 200 Students (Makerere University) were trained to teach programming skills to secondary school and primary school pupils on Scratch (an open source learning platform developed by the MIT Media Lab) by a team from Ireland in a session, August 2016.

- 4 Main Event of Africa Code Week: Seven (7) schools visited and trained (Nakivubo Blue Primary School, Nakasero Primary School, Kalinabiri Primary School, KCCA Primary School, Makerere Modern Secondary School, Kololo Senior Secondary School and Luzira Secondary School), main event at CEDAT, Makerere University, October 28th, 2016
Kampala’s ACW from Systems, Applications & Products in Data Processing (SAP), with support from the Galway Education Centre, Ireland aimed at enhancing the basic digital literacy skills for the next generation to ignite, empower and enable them to thrive in the digital age since Uganda has one of the youngest and most entrepreneurial populations in the world.
Keynote: Ambassador of Ireland to Uganda- H.E. Dónal Cronin, Dr. Venny Nakazibwe
Organizers: Diarmuid O’Briain, Jonathan Serugunda (Chairs), Dorothy Okello, Gerard Budigiri

5. The 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE2016) kicks off at Hotel Africana, Kampala, Uganda
On 24th October 2016, the Prime Minister of the Republic of Uganda Dr. Ruhakana Rugunda officially opened the 11th International conference for the African Association of Remote Sensing of the Environment (AARSE) at Hotel Africana, Kampala. Hosted by Makerere University, the conference convened over 400 academics, innovators, policy makers, practitioners, private sector and business people from 43 countries around the globe to discuss the vital role of geospatial data and information in achieving the new post 2015 sustainable development goals.
The conference that run for a week from 24th -28th October 2016, hosted about 200 researchers and publishers to make presentations on Space and Earth Observations goals (SDG); Management of big Data Infrastructure; From Climate observation to climate change adaptation; Human capital development in Geo spatial science and technology for water and watershed management; and Conflict management , human security and peace building under a theme: **“our Earth, Our Heritage : enhancing geospatial technologies for achieving sustainable development goals in Africa.”**
Addressing the participants in the Nile Hall at Hotel Africana, the Prime Minister said that the 11th International conference for the African Association of remote Sensing of the Environment (AARSE) came at a perfect moment when a new Global Development Agenda (2030) had been just adopted by the world on 25th September 2015 at the 70th UN General Assembly, with an eye on “Transforming our world”.

“The AARSE2016 conference is therefore timely and I am glad that it is themed to tackle the contemporary development agenda and direction particularly for Africa. I must also say that even before the UN adopted the Global Development Agenda, Uganda was several steps ahead and had formulated the Vision 2040, with the overall goal of improving livelihoods and the quality of life of citizens,” he said.

Exhibitions

1. CEDAT Open day on October 21, 2016

Hon. Charles Bakabulindi represented the First lady at the CEDAT Annual Open Day on October 21, 2016 commended the students of the College of Engineering, Design, Art and Technology for the innovations exhibited. He, however, challenged them to improve on their level of skills and innovativeness. “You need skills not knowledge to fit in the working society” said Hon. Charles Bakabulindi. He also added that “You cannot be called an engineer unless you are innovative”



In her Speech, the Minister for Education and Sports read by Hon Charles Bakabulindi, she called upon the students to be creative on top of the knowledge gained from class. “Uganda needs not only scientists and engineers, but creative people. The innovations that I have seen show a great sense of creativity. Such people will be the ones to move this country to a knowledge based and

modern society” she said.

Hon. Janet Museveni confirmed Government support towards technological innovations and advancement fostered towards addressing Youth unemployment. ” The government is working towards increasing investments in research and innovation so that the work displayed today can be supported more and scaled up. The Ministry will also work towards improving technical skills, and support technology entrepreneurship, especially among the youth,” the Minister said.



2. Different But One 20 Saturday, February 13th, 2016 at 6PM.

Twenty years ago, a number of faculty members sat on the staircase in front of the gallery and brought up the idea of having a joint group exhibition. The idea seemed to be a great potential of the gallery. The skeptics argued that artists are individualistic and will not join in on a group project. Others gave it a chance. At that meeting, we also chose the name – different but one – to express the notion that even though artists are different, the forms of art are different, and each work is unique and different – we are one. The road has not been easy with a lot of challenges. “Different but One” is growing and developing, generating a respected legacy. This year, our 20th, we celebrated two decades of togetherness, determination, and commitment to a common goal. Our joint forces created a wholeness that is imaginative and inspiring”

3. City Remixing- march 3rd 2016

City Remixing presented five different perspectives on Kampala by five different photographers coming from different places and times. The exhibition reflected on progress and development of Kampala city over the years. It also makes us reflect on the possibilities and limitations of photographic visualizations of urban environments at large. The opening of the exhibition in Kampala was also the world wide launch of the fifth volume in the Ebifananyi book series, developed and designed by Andrea Stultiens, See names of artists below:

- Dr. A. T. Schofield, Barclays Bank, 1929
- Eng M.W. Wambwa, Amber House, 1960s
- Elsadig Mohamed, Amber House, 2015
- Luuk van den Berg, Barclays Bank, 2015
- Rumanzi Canon, High Court, 2015

4. Kabbo ka Muwala – The Girl’s Basket

“Migration and Mobility in Contemporary Art in Southern and Eastern Africa”

April 15 – June 12, 2016

The exhibition “Kabbo ka Muwala”, conceived as an itinerant project taking place in Zimbabwe, Uganda and Germany, artistically explored perspectives on the multitude of migration processes in and from southern and eastern Africa primarily through the eyes of artists from these regions. A wide range of media, including photo works, videos, mixed media, and installations proposed alternative reflections to clichéd representations of a mass exodus to the Global North.

The title of the exhibition is an idiom in Luganda, a widely spoken language in central Uganda. The expression refers to a tradition known throughout East Africa in which a bride transports presents in a basket to her new family and her parents in turn. Metaphorically the basket represents expectations and hopes, but also setbacks and disappointments, which come with marriage and with processes of migration.



In reversing the usual pattern, where exhibitions are first shown in Europe and only then travel to Africa, “Kabbo ka Muwala” began at two traditional exhibition venues in Zimbabwe and Uganda before arriving at the port city of Bremen. Each venue featured a core of traveling works complemented by displays and exhibits that make reference to the respective region. The exhibition and accompanying

programme also aim at emerging artists, activists and grassroots organisations, universities and schools.

The exhibition “Kabbo ka Muwala” was based on a collaboration between Carl von Ossietzky University Oldenburg, National Gallery of Zimbabwe in Harare, Makerere University in Kampala, and Städtische Galerie Bremen, and was funded by the [TURN Fund](#) of the German Federal Cultural Foundation.

Other venues:

National Gallery of Zimbabwe in Harare, Zimbabwe: February 4 – April 4, 2016

Städtische Galerie Bremen, Germany: September 24 – December 11, 2016

www.kabbokamuwala.org

5. NARRATIVES OF BODY AND SHAPE: 7TH JULY – 6TH AUGUST, 2016.

This exhibition portrayed the diverse stories in and about Africa and Sudan. Contemporary discourses about Sudan and Africa often exposed the two into hubs of direct political unrest, poverty, violence and disease. Indeed these are features of the crises in the continent and in Sudan, but they do not tell the whole story. In this show,

the artist draws upon the African and Islamic arts, storytelling, and on African American experiences to explore the obvious tragedies and highlight other, silenced stories, experiences, and narratives.

The Artist

Khalid Kodi, long recognized as a prolific Sudanese American master artist, educator, and cultural critic, has emerged as a central figure, exploring multi-cultural concepts and transcending cultural boundaries. He uses contemporary themes and methods along two lines of work, namely conceptual political work and aesthetic installations.

Born in Sudan, Kodi migrated to the United States in the early 1990s. As an African living in America, he has embraced both American and African cultures, engaging both in constant dialogue. He has used his art as a forum to teach and to bring issues of the civil war in Sudan to his Sudanese community all over the world as well as to citizens of other nations.

6. “LET’S TALK ABOUT OMWESO” Namubiru Kirumira: 18TH AUGUST 2016

by: Dr. Rose

‘Omweso’ is a board game played in many rural and semi-urban communities of Uganda. The talk **“Let’s Talk about Omweso”** aimed at raising interest, questions and collate literature in order to add more knowledge about Omweso. It is evident in some-publications, that it is a universal game whose structure and rules change with each culture. The interest is in discussing histories of ‘Omweso’ as an artifact in the category of progressive material culture, related restrictions and taboos, construction and recollection as a learning tool. The **“Let’s Talk about Omweso”** talk and subsequent Exhibition sets out to conceptualize and showcase visual representations based on the different aspects of the ‘omweso’ board game, the object, its socio-cultural implications and related conversations specifically within a socio-cultural and technological history perspective. The Exhibition is conscious of the mathematical principles of strategy and counter strategy, the social-cultural memories and competitive rules of engagement in this game.

The Exhibition also showcased four guest artists Sheila Nakitende, Tadeo Kasirisimbi, Allen Nabukenya and Joan Nakigudde.

7. SEVEN HILLS Kampala Art Biennale. from September 3rd to October 2nd

The Institute of Heritage Conservation and Restoration (IHCR)/Makerere Art Gallery hosted a segment of the “The Seven Hills”.

“The second edition of the Kampala Art Biennale, titled “Seven Hills” conceived by Elise Atangana, was held from September 3rd to October 2nd, with a preview on September 2nd, 2016. The Kampala Art Biennale, KAB16, was organized and produced by the Kampala Arts Trust, a private initiative. Seven Hills was an organic project that focused on concepts of Mobility Studies which included the movement of people, objects, services or digital/virtual travel and how it affects us in our day lives. The researches explore “mobilities futures”, the links between physical and virtual mobilities (movement,

representation, practice), and consider their relation with contemporary art practice:
<http://kampalabiennale.org/>

8. As part of the Biennale program was: (HI)STORIES OF EXHIBITION MAKING / 1960-1990 symposium. SUNDAY, 4 SEPTEMBER 2016

With George Kyeyune, Katrin Peters-Klaphake, Sidney Kasfir, Ozioma Onuzulike, Katharina Greven, Ugochukwu-Smooth Nzewi, Nadine Siegert and Moses Serubiri
Organiser: IWALEWAHAUS, Bayreuth The public symposium “(Hi)Stories of Exhibition Making / 1960 – 1990” is part of the research project „African Art History and the Formation of a Modern Aesthetic“ at Iwalewahaus, University of Bayreuth in cooperation with the Weltkulturen Museum in Frankfurt and Makerere Art Gallery (IHCR) in Kampala. This research project seeks to examine not only the singular collections of African Modernisms that are housed today in the collections but also to look at past, present and future connections between them. In the symposium, we shared recent research on the history of exhibitions of African Modernisms. Website:
<https://coamoweb.com/2016/07/13/workshop2-and-public-symposium/>

9. FACESUP ART EXHIBITION: 20TH-28TH OCTOBER 2016

Influence is a controversial word in itself. The artist, Kalule Emmanuel, came to realize that many people in this world live their lives with inspiration basing from others (role models). And these people have so much they contribute to the lives of the people who look up to them.

This project was intended to create a platform for youths to interact with people they admire and feel are influential. Secondly, we are able to express art skills and share with the community such that some of the issues our country is facing which include loss of hope among the youths, unemployment and crime prevention and above all drug abuse are solved. Art can be used to solve issues and problems.

We believe each person has a purpose and objective to serve in a community.

Conferences

The 11th AARSE CONFERENCE IS HERE IN UGANDA



The 11th International Conference of the African Association of Remote Sensing of the Environment (AARSE2016) kicks off at Hotel Africana, Kampala, Uganda

DSC_0915 On 24th October 2016, the Prime Minister of the Republic of Uganda Dr. Ruhakana Rugunda officially opened the 11th International conference for the African Association

of Remote Sensing of the Environment (AARSE) at Hotel Africana, Kampala. Hosted by Makerere University, the conference convened over 400 academics, innovators, policy makers, practitioners, private sector and business people from 43 countries around the globe to discuss the vital role of geospatial data and information in achieving the new post 2015 sustainable development goals.

The conference that is running for a week from 24th -28th October 2016, will host about 20 researchers and publishers to make presentations on Space and Earth Observations goals (SDG); Management of big Data Infrastructure; From Climate observation to climate change adaptation; Human capital development in Geo spatial science and technology for water and watershed management; and Conflict management , human security and peace building under a theme: “our Earth, Our Heritage : enhancing geospatial technologies for achieving sustainable development goals in Africa.”

Addressing the participants in the Nile Hall at Hotel Africana, the Prime Minister said that the 11th International conference for the African Association of remote Sensing of the Environment (AARSE) came at a perfect moment when a new Global Development Agenda (2030) had been just adopted by the world on 25th September 2015 at the 70th UN General Assembly, with an eye on “Transforming our world”.

“The AARSE2016 conference is therefore timely and I am glad that it is themed to tackle the contemporary development agenda and direction particularly for Africa. I must also say that even before the UN adopted the Global Development Agenda, Uganda was several steps ahead and had formulated the Vision 2040, with the overall goal of improving livelihoods and the quality of life of citizens,” he said.

He highlighted the need for Africa to embrace science and harness the potential of geospatial technology to solve societal problems and improve human lives. Citing the need for Africa to move from a “continent of tremendous potential” as commonly framed to a “continent of thriving prosperity”, Dr. Ruhakana Rugunda said that there is no doubt that geospatial technology and science can significantly contribute to addressing the contemporary development challenges confronting the continent.

Research funding and Partnerships

- i) Enriching Engineering Education Programme (EEEEP)
The School is participating in the Enriching Engineering Education Programme (EEEEP) and a contract was signed between Makerere University and the Royal Academy of Science in the UK to guide this programme. The Royal Academy of Engineering is granting the College UK Pounds 140,000 over a period of two years.
- ii) EACREEE
 - The East Centre of Excellence for the East African Centre for Renewable Energy and Energy Efficiency (EACREEE) was launched at the College on 11th June 2016.
 - The College has continued to deliver on the Presidential Initiative project.
- (iii) MAPRONANO

The College was designated as the World Bank funded Africa Center of Excellence on Materials, Product Development and Nano Technology (MAPRONANO). Members of the centre travelled to Chicago to work out more details with the collaborators.

MOUs signed

1. The college signed an MOU the East African Community and the Austrian Development Agency.
Makerere University's College of Engineering, Design, Art and Technology (CEDAT), is to host the first ever Centre of excellence for East African Centre for Renewable Energy and Energy Efficiency (EACREEE). The Centre will be funded by the Austrian Development Agency through UNIDO. The EAC counties will also be expected to fund the Centre.
The objective of the centre is to contribute towards increased access to modern, affordable and reliable energy services, energy security and mitigation of negative externalities of the energy system (e.g. local pollution and Green House Gas emissions) by creating an enabling environment for renewable energy and energy efficiency markets and investments.



The Centre activities are geared towards achieving the following outcomes:

- Effective regional Renewable Energy and Energy Efficiency promotion agency created and efficiently managed

- Policy, legal and incentive frameworks to promote RE&EE investments and markets developed and implemented
 - Capacities of the local industry and business sector on various Renewable Energy and Energy Efficiency aspects strengthened and applied
 - Availability of investment and market data, awareness and advocacy on Renewable Energy and Energy Efficiency are strengthened
 - Investments in Renewable Energy and Energy Efficiency infrastructure, services and businesses are mobilised and implemented.
2. The college also signed an MOU with Benadir University in Somalia. The college has already started work on this MOU by assisting Benadir University in curriculum review, joint research collaborations.

Staff Development and movement

Staff PhDs Achieved

- i) Dr. May Namutebi of the Department of Civil and Environmental Engineering successfully defended her PhD thesis on Friday 28th October 2016 at the Royal Institute of Technology, Stockholm, Sweden. She is now back at the Department and doing her work of teaching and research.
- ii) Dr. Lilian Mono Wabineno of the Department of Geomatics and land Management successfully defended her PhD thesis on 18th April 2016 at the Royal Institute of Technology, Stockholm, Sweden.

Staff Masters Degree

Mr Mark Kagarura of the Department of Electrical and Computer Engineering completed his MSc. Electrical Engineering and is set to graduate during the 67th Graduation in February 2017.

Promotions

Name	Department	Rank
Dr. Henry Alinaitwe	Principal	Promoted To Professor
Dr. Phillip Kwesiga	Visual And Communication	Promoted To Professor

Dr. Moses Musinguzi	Dean, Sch. Of Built Eniron	Promoted To Assoc. Professor
Dr. Kiggundu Tamale Amin	Architecture and Physical Planning	PROMOTED TO SENIOR LECTURER
Dr. Wilberforce Olupot	Mechanical Engineering	Promoted To Senior Lecturer
Dr. John Richard Otukei	Geomatics And Land Management	Promoted To Senior Lecturer
Dr. Ronald S. Musenze	Civil And Environmental Engineering	Promoted To Lecturer
Dr. Godfrey Mwesigye	Construction Economics and Management	Promoted To Lecturer
Dr. Ronald Ssengendo	Geomatics And Land Management	Promoted To Lecturer
Dr. Moses Matovu	Civil And Environmental Engineering	Promoted To Lecturer

Appointments

Name	Department	Rank
Dr. Rashid Mijumbi	Electrical and Computer Engineering	Lecturer
Mr. Martin Ssembatya	Mechanical Engineering	Assistant Lecturer
Mr. David Birimumaiso	Mechanical Engineering	Assistant Lecturer
Ms Ruth Namusisi	Principal's Office	Administrative Secretary 1

Resignations

Name	Department	Rank
Dr. Julius Butime	Electrical And Computer Engineering	Senior Lecturer
Dr. Abraham J.B. Muwanguzi	Mechanical Engineering	Lecturer
Dr. John Muhumuza Kakitahi	Construction Economics And Management	Lecturer
Dr. Feriha Mukuve Mugisha	Civil And Environmental Engineering	Assistant Lecturer
Mr. Albert Akovuku	Mechanical Engineering	Assistant Lecturer
Mr. Paul Isaac Musasizi	Electrical And Computer Engineering	Assistant Lecturer
Mr. Arthur A. Tumusiime	Electrical And Computer Engineering	Assistant Lecturer

Staff who died

Name	Department	Rank
Dr. Julius Butime	Electrical And Computer Engineering	Senior Lecturer

Planning for 2017

Goals for 2017

Goal 1 : To provide a teaching and learning environment that assures superior experience to both the learners and the academic staff

- a. Have more than 50 ilabs been developed and deployed
- b. Increase the percentage coverage for over head projectors in the lecture rooms to 90%.
- c. Review all the curricula for the School of Engineering
- d. Have the proposed three programmes in MTSIFA approved.
- e. More laboratories have been procured such as the Transportation engineering laboratory,
- f. Re-roof the Old Technology Building.

Goal 2: To enhance knowledge generation and its access for the benefit of society

- a) Come up with at least 3 registrable innovations.
- b) Write at least ten proposals for possible funding.
- c) Attend at least five conferences and workshops

Goal 3: To enhance linkages between the College and partners for purposes of knowledge sharing and service provision

The College will sign at least seven new MoUs with various institutions such as:

- National Water and Sewerage Corporation
- Uganda Electricity Generation Company Ltd.
- Uganda Broadcasting Corporation

Needs for 2017

- The University should provide space to CEDAT to accommodate the following:
 - East African Centre for Renewable Energy and Energy Efficiency (EACREEE.),
 - Center of Excellence in Materials, Product Development and Nano Technology(MAPRONANO); and
 - The programme in Bachelor of Urban and Regional Planning.
- The University should urgently recruit teaching staff where there are deficiencies such as in the Departments of of Construction Economics and Management; Architecture and Physical Planning and Electrical and Computer Engineering and Geomatics and Land Management.

- Appointments Board should urgently consider recruiting technicians for laboratories.
- There is need to provide technical support to students in career guidance to secondary schools to encourage them in studying science based courses that enable them join Engineering programmes at the university.
- The university should hire more cleaners and the college does not have sufficient numbers.
- Staff should continue to guide students to exhibit some of the innovations and good ideas that are developed in their academic programmes.