

## **PhD Research Progress Presentation ANNOUNCEMENT**

The College of Science and Technology is pleased to invite you to attend a research seminar presentation by Mr. Enock Chambile (PhD student, Electrical Power Systems) from ACE-ESD, UR.

**TIME: Wednesday, 21 November 2018, from 15 Hours to 16 Hours**

**VENUE: ACE-ESD Board room, FAED Building**

### **Research Topic:**

***" Impact of Electrical Power Systems on the Environment in Kenya, Rwanda and Tanzania "***

### **Abstract**

The study was designed to explore and contribute to an improved understanding of the non-generation greenhouse gas impacts caused by electric power transmission and distribution (T&D) in Kenya, Rwanda and Tanzania. The direct non-generation T&D greenhouse gas emissions was obtained by dividing the direct non-generation emissions from land clearing to the average flow of electricity over the life of the project. The findings show that, Kenya is the lowest emitter in study area with the highest average flow of electricity; compared to Rwanda with the lowest average flow of electricity. The study concluded that, the technologically advanced grid infrastructure with the larger average flow of electricity emit less while those grids with inferior technology and lower average flow of electricity emit more. However, further studies backed by primary data and cover a wider scope of both environmental impacts and electrical power systems are also recommended.

### **Presenter**



Mr. Enock Chambile received the BSc. Degree in Environmental Sciences and Management from the Sokoine University of Agriculture (SUA), Tanzania, in 2004 and Master in Integrated Environmental Management from University of Dar es Salaam, Tanzania, in 2008; he has been a Member of Academic Staff at SUA, Tanzania. His research interest is on the Impact of Energy on the Environment. Mr. Chambile is currently doing a PhD under the African Centre of Excellence in Energy for Sustainable Development (ACE-ESD) of the University of Rwanda. He has presented part of his PhD research work on the Postgraduate Forum of the IEEE PES-IAS PowerAfrica Conference, Cape Town, South Africa, June, 2018. He is also a mentee under the Mentoring for Research Programme of the International Support Network for African Development.