

Position : **Senior Lecturer**
Name of Staff : **Eng. ARTHUR W. OGWAYO**
Name of Firm : KENYATTA UNIVERSITY
Profession : Electrical Engineer
Date of Birth : 1945



Years with Organisation : 4

Education : B.Eng. (Hons.) in Electronic and Electrical Eng., Sheffield Univ., (1969)
: M.Sc. in Telecommunication Systems, Essex University, U.K. (1975)

Professional Affiliation : Professional Engineer (P.E.)
Fellow, Institution of Engineers of Kenya (F.I.E.K.)

Key Qualifications : Professional Engineer;
Former President, Federation of African Organizations of Engineers
Former Council Member, Multimedia University of Kenya
Former Chairman of the Institution of Engineers of Kenya.
Former Member, Engineers Registration Board, Kenya
Former Commissioner, Communications Commission of Kenya
Former Member, Communication Appeals Tribunal
Senior Lecturer, Kenyatta University

Professional Experience:

- June 2015 to date** : Senior Lecturer, Electrical and Electronic Engineering, Kenyatta University. Teaching and curriculum development in the Electrical Engineering (Power option) and Engineering Practice and Ethics. Patron of Pivot Club for engineering students, giving support, advice and mentorship to students in understanding relationship with industry. Mentorship of staff towards professional engineering registration.
- June 2018 to date** : Chairman, Department of Electrical and Electronic Engineering. Curriculum development for Biomedical Engineering programme, moving towards accreditation; support for the establishment of a Kenyatta University branch of the Institute of Electrical and Electronic Engineering, which currently has an enthusiastic group of students forming and participating in innovation and competitions with other students in the country and region.
- June 1982 to 2015** : Founder partner, M & E Consulting Engineers. Company Director and Chief Electrical Engineer responsible for electrical services designs and installations, supervision of a variety of projects among them hospitals, industrial projects, high rise buildings and housing schemes. Supervised a wide range of projects including building services, street-lighting, power distribution and standby power arrangements, for both new projects and renovations and modernization projects. Among such projects are:
- University of Nairobi Tower, including helipad to KCAA approval.
 - Housing projects in Kitisuru, Nairobi (150 ha, high end housing development including street-lighting) and Mtongwe, Mombasa.
 - Electrical installation, including floodlighting, Inland Container Depot, Kisumu
 - Electrical installation, including floodlighting, Inland Container Depot, Eldoret.
 - Design and supervision of 132kV/11kV sub-station for Kenya Ports Authority, Mombasa.
 - Multimedia University, Nairobi, Master Plan.
 - Co-ordinating team promoting use of renewable energy to supplement power generation in Kenya through use of solar technology, mini-hydro and agricultural waste in clean power generation.
- Currently on Leave of Absence while on academic work at Kenyatta University.
- 1978 to 1982** : Chief Electrical Engineer, East African Engineering Consultants, in charge of electrical department in a multi-disciplinary engineering consultancy. Among the projects undertaken are a National Hospital (US\$2.8 million electrical services), a Provincial Hospital (US\$ 1 million), and a major irrigation project including power generation, HV and LV distribution, and internal building services design (overall project cost US\$ 270 million).

1982 to 1978 : Executive Engineer, East African Posts and Telecommunications Corporation specializing in switching systems design. Experience included supervision of the installation of 1800-line crossbar automatic exchange (US\$ 220,000.00) in 1972. In 1974 promoted to Senior Executive Engineer. After qualifying with a M.Sc. in Telecommunications Systems in 1975, promoted to Principal Executive in charge of trunk network planning at Kenya Posts and Telecommunications Corporation Headquarters.

In 1976 promoted to Chief of Long and Short Term Planning, Kenya Region of the East African Posts and Telecommunications Corporation (and subsequently Kenya Posts and Telecommunications Corporation), responsible for equipment procurement, project coordination and long-term equipment policy.

1970 to 1972 : Electrical Engineer at Magadi Soda Company Ltd. in charge of generation and distribution of electricity and maintenance of electric plant in chemical factories manufacturing industrial soda ash and common salt, and maintenance of a 200 line private automatic telephone system (power generating station capacity 2.5MVA).

Other Activities:

- **Former President:** Federation of African Organizations of Engineers (2005-2012).
- **Member:** Council of Multimedia University of Kenya (2013 to 2016)
- **Chairman:** Institution of Engineers of Kenya (1990 to 1992)
- **Member:** Board of Directors, Communications Commission of Kenya (1999 – 2005)
- **Member:** Engineers Registration Board (Kenya) (1991 - 2001)
- **Past Member:** National Advisory Committee for Telecommunications and Electrical Engineering (Kenya Institute of Education).
- **Past Member:** Technical Education Course Panel (Kenya Institute of Education).
- **Past Member:** Kenya Wiring Regulations Committee, Kenya Bureau of Standards.
- **Member:** Board of Directors, Kenya Posts and Telecommunications Corporation (1979 to 1982)

Courses:

- **Summer Course in International Arbitration** (American University, USA, May 2009)
- **Corporate Governance Course**, Mombasa, Kenya, 2014: Institute of Directors (Kenya)
- **Engineer/Scientist as Manager Program:** Penn State University Executive Programs, U.S.A., March 1992.

Published Papers:

- “*Towards Sustainable Rural Electrification*” East African Power and Mining Conference, (Dar es Salaam, August 2006)
- "*Role of Regulation on Industrialisation*" IEK/ERB Engineers' Conference on "Challenges of Industrialisation" (Nairobi, 2003)
- "*Telecommunications for Infrastructure and Disaster Management*" IEK/ERB Engineers' Conference on "Developing and Sustaining National Infrastructure" (Nairobi, 1998)
- "*Private Sector and Infrastructure Provision*" IEK 50th Anniversary Engineers Conference on "The Engineer and Infrastructure", Nairobi (1995)
- "*Co-ordination of Fixed Services Telecommunications and Economic and Social Planning Objectives*" UNECA Seminar, Nairobi (1978)
- "*Telecommunications in the year 2000*" Kenya Engineer (Mar/April 1982)
- "*Towards a Public Data Network in Kenya*" INTELCOM 80 (Rio de Janeiro, 1980).
- "*Introduction of Electronic Exchanges in Developing Countries*" INTELCOM 77 (Atlanta, Georgia, 1977)
- "*Rural Telecommunications Development in East Africa*" (Co-Author) INTELCOM 77