DR ONESMUS MAWEU PROFILE

NAME: DR. ONESMUS MANTHI MAWEU

DATE OF BIRTH: 7-12-1958

MARITAL STATUS: MARRIED

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ACADEMIC QUALIFICATION:

PRIMARY: MITABONI PRIMARY SCHOOL (1966-1972) (C.P.E)

SECONDARY: KAIBOI TECHNICAL SCHOOL (1973-1974)

MACHAKOS TECHNICAL SCHOOL (1975-1976)

E.A.C.E (SECOND DIVISION)

UNIVERSITY: PRE-UNVERSITY- PANJAB UNIVERSITY (INDIA) (1981-1982)

B.Sc – PANJAB UNIVERSITY-(1982-1985) (SECOND CLASS)

M.Sc – ALLAHABAD UNVERSITY-(1985-1987) (FIRST CLASS)

PhD – EGERTON UNIVERSITY- (2002-2006)

WORKING EXPERIENCE: KENYA POLYTECHNIC (1989-1990)

EGERTON UNIVERSITY (1990 -2010)

SOUTH EASTERN UNIVERSITY COLLEGE (SEUCO)

2010- TO DATE (Senior Lecturer)

ACADEMIC AWARD: MERIT CERTIFICATE FOR TAKING THIRD PLACE IN A UNIVERSITY EXAM (M.sc)

PhD THESIS TITTLE: Reactive near field analysis of acoustic communication in African malaria mosquito, *Anopheles gambiae*, Giles (Cullidae:Diptera)

SUPERVISORS: PROF. L.M. MUIA

PROF. A.L. DENG

FACTS ESTABLISHED IN THE THESIS: Frequency deviation and the modulating index of the sound emitted by a female mosquito in flight, previously undetermined by bioacoustics.

REVIEWER AND EXAMINER

PAPERS.

1. 'Effect of Ac electromagnetic field on germination of rosecoco beans'. RRI Strategic Area 11 on enhancing Original Publication. Egerton University.

BOOKS:

1. 'Mechanics'- Open and distance learning module. Egerton University.
2. 'Introduction to computer applications'- Open and distance learning module. Egerton University.
3. 'Computer literacy and use in education'- Open and distance learning module. Egerton University.
4. Assessment of proposal for graduate research funding for the academic year-2009/2010- Egerton University.
5. Internal Examiner for Msc. Thesis for Mr. Jared Ombiro Gwaro
6. Internal Examiner for Msc. Thesis for Mr. Paul Kuria Kamweru

POSTGRADUATE SUPERVISION

1. Msc. (Physics). Mr. Jared Ombiro Gwaro (Graduated).
2. Msc (Physics). Mr. Phillip Amunyunzu (Submitted)

RESPONSIBILITIES:

SOUTH EASTERN UNIVERSITY COLLEGE (SEUCO)

1. **Dean,** School of pure and Applied Sciences (2011-to date)
2. **Chairman,** Department of Physical Sciences. (2010- 11)
3. **Member**, Board of Post Graduate Studies. (2010- to date)
4. **Member,** University College Academic Board (UCAB) nominee to a committee to work out rates for part-time teaching (2010)

5. **Member,** University College Academic Board (UCAB) subcommittee to advice the management on the appointment of academic deans (2011)

EGERTON UNIVERSITY (NJORO)

1. Faculty of science postgraduate committee Chairman / Board of Post Graduate studies Faculty of Science Representative.
2. Departmental Representative to the Faculty Post-Graduate Committee.
3. Member of Implementation/Executive committee of Kenya International Radio Observatory- KIRO.
4. Departmental Examination and Time-Tabling Officer (1995-1997) and (2001-2005).
5. Participated in Curriculum Review in Both Physics and Computer Science Departments.
6. Nominated as a Scientist In 'The Establishment of Kenya International Radio Observatory' (KIRO) by Egerton University
7. Taught Courses In Instrumentation And Control Engineering And Hardware Related Courses In Computer Science.
8. Academic Advisor to Post-Graduate Students in Physics Department.
9. Presiding Officer during the 2005 Referendum in Molo Constituency.

WORK-SHOPS ATTENDED

1. Instructional material writers workshop- Egerton university and University of South Africa (UNISA). 21-28 Sept, 2003-Mombasa.
2. Proposal writing work-shop- 24-26th march 2009.
3. Egerton research week- 16-18 Sept-2008- Presented a paper titled- *Modeling and Synthesis of a male mosquito antenna using the log-periodic array (LPDA) method.*

REFEREES

1. PROF. L.M.MUIA –Executive Dean, Kenya Polytechnic University College, Nairobi.
2. Dr. M.S.K. Kirui- Chairman, Physics Department, Egerton University
3. DR. ROTICH M.K- Department of Chemistry, Egerton University.

PUBLICATIONS:

1. **Maweu O.M,** (2009). *Basic Computer Organization, Design and Interfacing* –ISBN-9966-05-272-0 (Egerton University Press)
2. **Maweu O.M**, (2010). *Reactive near field analysis of mosquito sound*- ISBN-978-3-8383-1568-3 (LAP Lambert Academic Publishing GmBH & Co. KG, Germany)
3. **Maweu O.M,** Muia L.M, (2010). *Introduction to Electronics* – ISBN-9966-05-694-7 (Egerton University Press)
4. **Maweu O.M,** Elements of Digital Electronics (in press)
5. **Maweu O. M,** Deng A. L. Muia L. M. (2009). A comparative study of *anopheles gambiae* male mosquito's response to frequency modulated [FM] and pulse Modulated [PM] waves at different acoustic frequencies and distances. *Indonesian Journal of Physics,* Vol.**20** No.4. (81-84)
6. Gwaro J.O, **Maweu O.M,** Kirui M.S.K. (2009). The effect of pressure on the quality of the output signal generated by Laser on single mode optical Fiber. *International Journal of Engineering Science.* Vol **1** No.2 (31-34)
7. Gwaro J.O, **Maweu O.M,** Kirui M.S.K. (2010). Attenuation Losses Due to Changes in Curvature, Temperature, and Pressure in Optical Fiber Cables. *Indonesian Journal of Physics,* Vol.**21** No.4 (93-99)
8. Chombah J.M, Gwaro J.O, **Maweu O.M,** Kirui M.S.K, Nyaaga D.M. (2011). Coefficient of optical signal in multi-mode (Graded. Index) 50/125μm cable at common frequency. *International journal of physical Sciences.* Vol **3**, No. 1 (1-7)
9. **Maweu O. M,** Muia L. M Deng A. L. (2011). Transmission Parameters of an Audio-Rate Frequency Modulated Sound of a Female Mosquito. *Rom. J. Biophys.* ***22(4)***
10. **Maweu O. M,** Deng A. L. Muia L. M. Modeling and Synthesis of a male Mosquito antenna using the log- periodic array (LPDA) method.(Submitted to the *Indian journal of Science and Technology*)
11. **Maweu O. M,** Deng A. L. Muia L. M. Egerton research week- 17-21 July 2006-

Presented a paper titled- *Analysis of Acoustic Transmission parameters of simple Chowning FM waves of a female mosquito using an Helmhotz resonator model*