

CURRICULUM VITAE

PERSONAL DETAILS

NAME: OSODO BOOKER ONYANGO
DATE OF BIRTH: 20TH OCTOBER, 1961
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EDUCATIONAL BACKGROUND

<i>INSTITUTION</i>	<i>DURATION</i>	<i>CERTIFICATE</i>
Kenyatta University	2012-2018	PhD (Renewable Energy Technology)
Moi University	2001-2005	M. Phil (Tech. Ed.)
Moi University	1997-2001	B. Ed (Tech)

FULL TIME EMPLOYMENT RECORDS

<i>YEAR</i>	<i>JOB DESCRIPTION/ INSTITUTION</i>	<i>QUALIFICATIONS</i>	<i>UNITS/COURSES</i>
2020 – to date	Lecturer, Kenyatta University	PhD (Renewable Energy), M.Phil. (Tech. Ed.) B.Ed. (Tech)	<ul style="list-style-type: none">• Various Renewable Energy Units
2007- to 2020	Lecturer, Egerton University, Kenya	PhD (Renewable Energy), M.Phil.	<ul style="list-style-type: none">• Solid Mechanics• Research Methods

		(Tech.Ed.) B.Ed. (Tech)	<ul style="list-style-type: none"> • Ergonomics • Renewable Energy
2001-2007	Senior Lecturer, RVTTI	M.Phil. (Tech.Ed.) B.Ed. (Tech)	<ul style="list-style-type: none"> • Engineering Science • Automotive Engineering • Thermodynamics

RESPONSIBILITIES IN EMPLOYMENT

- Post Graduate Coordinator, Energy Technology department, Kenyatta University
- Integrity Assurance Officer, Egerton University (2016 to 2020)
- Examinations Officer, Industrial and Energy Engineering Department, Egerton University (2014- to 2020)
- Coordinator, ISO/Performance Contract, Industrial and Energy Engineering Department, Egerton University (2011-2014).
- Secretary at Departmental meetings, Industrial and Energy Engineering Department, Egerton University (2009-2014).
- Coordinator, Industrial attachment/Industrial visits, Industrial and Energy Engineering Department, Egerton University (2007-2015).
- Departmental library representative,RVTTI-2007
- Course tutor, Diploma in Automotive Engineering, RVTTI-from 2004
- Project coordinator, Diploma projects, RVTTI-from 2005
- Secretary, Maths/Science panel, Mech/Auto department, RVTTI-from 2004
- House master, Odera Akango House, Sawagongo High School(1985-1995)
- Chair, Chemistry panel, Siaya District Mock Examination Council-1995
- Choir Master, Sawagongo High School(1987-1984)
- Examiner and Team Leader, Kenya National Examination Council(1985-1994)

RESPONSIBILITIES IN THE COMMUNITY

- Choir Master, All Saints Egerton, ACK Church (2018- 2020)
- Member of Parish Council, All Saints Egerton, ACK Church (2016-2018)
- Youth Patron, All Saints Egerton Church (2013- 2016)

- Education Secretary, Uriri Parish (1995- 1997)
- Choir Master, St Mathews ACK Church (1980-1997)

PROFESSIONAL AFFILIATIONS

1. Member, Institute of Engineering Technologists and Technicians

SHORT TRAININGS/ SEMINARS

1. 37th Kenyatta University Postgraduate Seminar (December 2018)
2. Energy Management Training (May 2015)-Kenya Association of Manufacturers
3. Research Proposal Writing Training (September 2011) -NACOSTI
4. E-learning Capacity Building Course (May 2011) - FUTURISTIC
5. Academic Advising Training (February 2009) - Faculty of Engineering and Technology, Egerton University
6. Pedagogy Workshop (September 2008) - Egerton University
7. AutoCAD, Civil 3D & Revit (May 2008) Gath Management Limited
8. Access and Use of Electronic Resources (February 2008) - Egerton University
9. KSAE Annual Conference (December 2007) KSAE

PUBLICATIONS

1. Sheila, C.M., Osodo, B.O. & Nyaanga, D.M. (2020). Optimal Mix Ratio, Total Solids and Organic Loading Rates for Anaerobic Digestion. *The Journal of Engineering in Agriculture and the Environment (JEAE)* 6(2) 40-60
2. Osodo, B.O., Nyaanga, D. & Kiplagat, J. (2019). Simulation of Grain Quantity, Fan and Solar Collector Sizes for an Experimental Forced Convection Grain Dryer. *Agriculture and Food Sciences Research*.
3. Osodo, B.O., Nyaanga, D. (2018). Investigating the Effect of Selected Parameters on Moisture Removal Rate of an Experimental Forced Convection Solar Grain Dryer. *International Journal of Energy Engineering*. 8(1) 12-18
4. Osodo, B.O., Nyaanga, D., Kiplagat, J. & Muguthu, J. (2018). Optimum Air Velocity, Air Temperature and Maize Layer Thickness for Highest Moisture Removal Rate and Drying Efficiency in a Forced Convection Grain Dryer. *American Journal of Food Science and Technology* 6(6): 263-273

5. Osodo, B.O., Nyaanga, D. & Muguthu, J. (2017). Selection and Verification of a Drying Model for Maize (*Zea mays* L.) in a Forced Convection Grain Dryer. *American Journal of Food Science and Technology* 5(3): 93-100
6. Owino, G.O. & Osodo, B.O. (2017). Forced Convection Grain Drying by Solar Evacuated Tubes Solved using Comsol Multiphysics. *International Journal of Innovative Research in Science and Technology* 5 (4): 5102-5197
7. Osodo, B.O., Nyaanga, D., Kiplagat, J. & Owino, G. (2015). Optimisation of Grain Layer Thickness in the Design of Solar Grain Dryer by Simulation. *International Journal of Innovative Research in Science and Technology* 4(5): 1333-1337
8. Osodo, B.O., Kithyo, I., Ogola, W.O. & Ndambuki, J. (2008). Turning Motor Vehicle Waste to Energy. *International Journal of Pure and Applied Science* 1(3) 71-78

CONFERENCE PAPER

1. Osodo, B.O., Nyaanga, D., Kiplagat, J. & Muguthu, J. (2018). *Optimisation of an Experimental Forced Convection Grain Dryer using Taguchi Approach*. Presented at Pan African Society for Agricultural Engineering (PASAE) Conference, Nairobi: 25th – 28th March 2018.

THESIS EXAMINATION

Optimisation of Biogas Production using some Process Parameters in a Fixed Dome Laboratory Bioreactor by Henry Masinde Barasa PhD Thesis (Internal Independent Examiner, 2020, Egerton University)

POST GRADUATE SUPERVISION

Effect of Selected Feedstocks, Mix ratios, Total solids and Organic Loading Rates on Biogas Production rate By Sheila Matwek Masters Thesis, Egerton University (Submitted for Examination)

REFEREES

- 1) Prof Daudi Nyaanga, Department of Agricultural Engineering, Egerton University,
P. O. Box 536, Egerton
- 2) Prof Abel Mayaka, Dean, Faculty of Engineering, Multimedia University,
P.O Box 15653- 00503 Nairobi