



# THE TECHNICAL UNIVERSITY OF KENYA

Haile Selassie Avenue, P.O. Box 52428, Nairobi, 00200, Tel +254(020) 343672, 2249974, 2251300, 341639

Fax 2219689, Email: vc@tukenya.ac.ke, Website: www.tukenya.ac.ke

NAME: PROF ERIC OKOTH OGUR

Faculty:	ENGINEERING AND THE BUILT ENVIRONMENT
School:	MECHANICAL AND MANUFACTURING ENGINEERING
Department:	Mechanical and Mechatronic Engineering
Current Designation:	Associate Professor, MECHANICAL AND MECHATRONIC ENGINEERING
Office Telephone:	+254(020) 2219929, 3341639, 3343672
Official Email:	ericogur@kenpoly.ac.ke
Consultation Hours:	8AM-5PM MON - FRI



## EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	ENGINEERING	UNIVERSITY OF WARWICK(United Kingdom)	2007
Masters of Science (M.Sc.)	MANUFACTURING SYSTEMS ENGINEERING	UNIVERSITY OF WARWICK(United Kingdom)	2003
Higher Diploma	MECHANICAL ENGINEERING	THE KENYA POLYTECHNIC(Kenya)	1996

## WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2011 - 2015	TECHNICAL UNIVERSITY OF KENYA	SENIOR LECTURER
2008 - 2009	Proctor and Gamble	Scientist/Engineer
2007 - 2008	University of Warwick	Research Fellow

## GENERAL STATEMENT ON RESEARCH AREAS

Cutting edge research on biofuels, renewable energy and their applications

#### CURRENT RESEARCH PROJECTS

Co- investigator - Production of Biodiesel from Waste Cooking Oil/Fat - under the 3rd Call for Women Scientists, National Council for Science and Technology - KSh. 2,000,000/=	Biotechnology/Engineering
Co- innovator - Production of Bioparaffin from the Local Brew, chang'aa - under the 4th Call for Innovations, National Council for Science and Technology - KSh. 1,000,000/=	Biochemistry/Engineering
Co- investigator - Utilization of Solid Municipal Waste (SMW) as an Alternative Energy Source - under the 5th Call for Women Scientists , National Commission for Science Technology and Innovation - KSh. 2,100,000/=	Environmental Science and Engineering
Co- investigator - Enhanced Biogas Production through Co-digestion of Potato Peels and Fish Processing Residues in Informal Settlements - under the 5th Call for Women Scientists , National Commission for Science Technology and Innovation - KSh. 2,000,000/=	Biochemistry and Engineering
Principal- innovator - Production of Alternative Derived Fuel from Waste Engine Oil - under the 5th Call for Innovations, National Commission for Science Technology and Innovation - KSh. 675,000/=	Engineering
Co- investigator - Innovative Production of Particle Boards from Natural Fibres and Binders - under the 5th Call for Innovations, National Commission for Science Technology and Innovation - KSh. 675,000/=	Composite Materials Engineering

#### SELECTED PUBLICATIONS

TITLE	LINK TO PULICATION
1. Ogur, E.O. et al, (2004), Microcellular Foaming with Supercritical CO in Injection Moulding, Cellular Polymers, Vol.23, No. 1.	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication/">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication/</a>
2. Ogur, E.O. et al, (2008), Effect of Magnetic Field on the Distribution and Orientation of Magnetic Particles in Co-injection Moulding, Progress in Rubber, Plastics and Recycling Technology, Vol.24 No. 4.	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication/">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication/</a>
3. Smith, G.F., Goodship, V, Ogur E.O., Stidworthy P, (2008), Smart 'in mould' Manipulation of Materials, Plastics Rubber and Composites, Vol. 37, No: 2-4	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
4. Ogur, E.O. and Mburu, J.K. (2013), Failure Analysis of a Bar Soap Extrusion Machine, International Journal of Engineering Research and Application, Vol.3, No: 6, pp. 624-629	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
5. Ogur, E.O. and Ogola, W.O., (2013), The Role of Computers in Mechanical Engineering Education in Kenyan Universities, International Journal of Engineering and Science, Vol. 2, No: 11, pp. 77-81	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
6. Ogur, E.O. and Irungu, P, (2013), Design of a Biogas Generator, International Journal of Engineering Research and Application, Vol. 3, No: 6, pp. 630-635	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
7. Ogur, E.O. and Mbatia, S, (2013), Conversion of Kitchen Waste into Biogas, International Journal of Engineering and Science, Vol. 2, No: 11, pp. 70-76	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
8. Ogur, E.O. et al, (2014), Performance Evaluation of Waste Vegetable Cooking Oil as Biodiesel, International Journal of Recent Development in Engineering and Technology, Vol. 3, No: 3, pp. 1-4	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
9. Ogur, E.O. and Kariuki, S.M. (2014), Effect of Car Emissions on Human Health and the Environment, International Journal of Applied Engineering Research, Vol. 9, No: 21, pp. 11121 - 11128	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
10. Ogur, E.O. and Ogola, W.O., (2015), Effect of Hydroxy Gas Enriched Fuel Combustion on the Performance of a Compression Ignition Engine, Kenya Journal of Technical and Vocational Education and Training, (Accepted, May 2015).	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>
11. Ogur, E.O. and Mbatia, B.N., (2014), A Tank for Pre-treatment of Waste Oil/Fat in Biodiesel Production, Kenya Intellectual of Property Institute, KE/P/14/002141	<a href="http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication">http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication</a>

<b>NAME</b>	<b>PROJECT TITLE</b>	<b>PERIOD</b>
Julius Kirui	Cutting Tool Optimization for Drilling Operations	2014-2017
Rehema Ndeda	Prediction and Optimization of Thermal Spallation of Heterogeneous Brittle Rocks for Oil and Gas D	2014-2017
Esther Wangui	Reliability Evaluation of Distribution Systems with Wind Power and PHEV's	2014-2017
Jeremiah Masime	Production Of Biodiesel Blend From Yellow Oleander Seed Oil And Biobutanol From Water Hyacinth Usi	2014-2017
Gerald Bwire	Design and Performance Evaluation of a Solar Powered Adsorption Refrigerator using LiCl-Expanded G	2013-2015
John Kariithi	Wind Assisted Direct Evaporative Cooling System for Building Application in Semi-arid Areas using	2013-2015
Patrick Odhiambo Owino	Characterization of Biodiesel Blends from Waste Oils and Fats	2013-2015
Jonathan Agunda Ototi	Energy Analysis of Ol Karia Geothermal Power Plant, Design and Simulation of an Organic Power Plan	2013-2015

#### PROFESSIONAL AFFILIATIONS AND SOCIETIES

<b>TITLE</b>	<b>INSTITUTION</b>
Member	Institution of Engineering and Technology, UK
Fellow	Institution of Engineering and Technology, Kenya
Graduate Technician Engineer	Engineering Board of Kenya