



## 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: DR ERIC OKOTH OGUR

**CURRENT DESIGNATION:** DIRECTOR - CENTRE FOR ENGINEERING INNOVATION AND PRODUCTION

**OFFICE EMAIL:** ericogur@kenpoly.ac.ke

**OFFICE TELEPHONE:**

**CONSULTATION HOURS:**



### EDUCATION

QUALIFICATION	AREA OF SPECIALIZATION	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	DOCTOR OF PHILOSOPHY (ENGINEERING)	UNIVERSITY OF WARWICK (UNITED KINGDOM)	2007
Masters of Science (M.Sc.)	MASTERS OF SCIENCE (MANUFACTURING SYSTEMS ENGINEERING)	UNIVERSITY OF WARWICK (UNITED KINGDOM)	2003
Higher Diploma	HIGHER DIPLOMA IN MECHANICAL ENGINEERING	THE KENYA POLYTECHNIC (KENYA)	1996

### WORK EXPERIENCE

PERIOD	POSITION	INSTITUTION
2011 - 2015	SENIOR LECTURER	TECHNICAL UNIVERSITY OF KENYA (KENYA)
2008 - 2009	SCIENTIST/ENGINEER	PROCTOR AND GAMBLE (GERMANY)
2007 - 2008	RESEARCH FELLOW	UNIVERSITY OF WARWICK (UNITED KINGDOM)

### GENERAL STATEMENT ON RESEARCH AREA(S)

Cutting edge research on biofuels, renewable energy and their applications

CURRENT RESEARCH PROJECTS

TITLE	AREA
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

- 1. Ogur, E.O. et al, (2004), Microcellular Foaming with Supercritical CO in Injection Moulding, Cellular Polymers, Vol.23, No. 1. <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication/>
- 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. <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication/>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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). <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>
- 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 <http://staff.tukenya.ac.ke/index.php?r=hr/employeePublication>

## CURRENT POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
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 OI Karia Geothermal Power Plant, Design and Simulation of an Organic Power Plan	2013-2015

## PROFESSIONAL AFFILIATIONS AND SOCIETIES

Member, Institution of Engineering and Technology, UK

Fellow, Institution of Engineering and Technology, Kenya

Graduate Technician Engineer, Engineering Board of Kenya