



**CURRICULUM VITAE  
ELIAS ONYANGO AKO**

**PERSONAL DATA**

NAMES	ELIAS ONYANGO AKO
PLACE OF BIRTH	KISUMU
AGE	45 Years
NATIONALITY	KENYAN
PERMANENT ADDRESS	P.O. BOX 43844, NAIROBI
MARITAL STATUS	MARRIED
RELIGION	CHRISTIAN
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**HIGHER EDUCATION**

PERIOD	CERTIFICATE /DEGREE	INSTITUTION	AREA OF EXPERTISE
2008 – To Date	PhD Student (Sustainable Energy Engineering)	KENYATTA UNIVERSITY, NAIROBI, KENYA	Solar Energy. PhD Research Topic: Development and Optimisation of Solar Water Pasteurisation System for use in Rural Areas
2003 – 2006	MSc. RENEWABLE ENERGY	KENYATTA UNIVERSITY, NAIROBI, KENYA	SOLAR ENERGY. MSc. THESIS TITLE: Performance of a two element plane reflector augmented flat plate collector for solar water pasteurization. OTHER KEY AREAS: Biofuels Production, Hydropower Technology, Wind Energy and Energy Management
1989 – 1995	BSc. AGRICULTURAL ENGINEERING	EGERTON UNIVERSITY, NJORO, KENYA	Farm Power and Machinery Agric. Processing Engineering Soil and Water Engineering

**EMPLOYMENT HISTORY**

PERIOD	INSTITUTION/ COMPANY	JOB DESCRIPTION
January 2015 – TO DATE (CURRENT EMPLOYMENT)	KENYATTA UNIVERSITY	CHAIRMAN and LECTURER, Department of Energy Engineering
July,2007 – Dec. 2014	KENYATTA	LECTURER, Administrative, Research and Teaching of Undergraduate and Post-graduate students at the School of

	UNIVERSITY, KENYA	Engineering & Technology in the Dept. of Energy Engineering. Departmental Examinations Coordinator
JULY 1997 – JUNE 2002	HEAVY ENGINEERING LTD, NAIROBI.	PRODUCTION AND QUALITY CONTROL ENGINEER: DUTIES: - Production Planning and inspection of welding and fabrication - Supervision of production personnel - Documentation and writing of progress reports

### RESEARCH ACTIVITIES AND PUBLICATIONS

1.	MSc. Thesis: Performance of a two element plane reflector augmented flat plate collector for solar water pasteurization
2.	Performance of a 2-Element Plane Reflector Augmented Galvanised Pipe Flat Plate Collector for Solar Water Pasteurisation E. O. Ako, T.F.N. Thoruwa, S.M. Maingi and E.M. Njagi, <i>Journal of Food Technology</i> 7 (1): 12-19, 2009 ISSN: 1684-8462, Medwel Publishing
3.	Assessment of land cover changes in lake Olbolsat region of the central Kenyan highlands using <i>Landsat Satellite Imagery</i> aided by indigenous knowledge Muriithi Zacharia, Ako Elias, Kiplagat Jeremiah, Maingi Simon and Luke Omondi Olang. <i>Journal of Biodiversity Management and Forestry</i> 2013, 2:2 SciTechnol
3.	Design of a solar tracking concentrator system for process heat generation
4.	Design and Development of a portable low head – low volume hydro-turbine for shaft power applications
5.	Development and Optimisation of Solar Water Pasteurisation System for use in Rural Areas – PhD Reasearch Topic. Funded by National Council of Science, Technology and Innovation
6.	Development of Small Wind Turbines for Water pumping and Off-grid Power Production. – On going research supported by National Council of Science, Technology and Innovation
7.	Solar Water Pasteurisation: Review and Potential. <i>E. Ako, J. Kiplagat and I. Kiunga</i> Proceedings of the 6 <sup>th</sup> International Conference on Appropriate Technology ‘Appropriate Technology for the 21 <sup>st</sup> Century: Technology Innovation to Empower Africa’
8.	Exploring Water Resources planning and Management options in the Nyangores Headwater Catchment of the Maasai Mara River Basin in Kenya (MaMa-HYDRO) Period: January 2014 – June 2016 Funded: Austria – Commission for Development Research (KEF). International Partners: BOKU Austria, Kenyatta University

### PROFFESIONAL TRAINING

1.	Solar Photovoltaic Training Course for Trainers – JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY (August, 2014)
2.	Solar Photovoltaic Workshop for Educators – STRATHMORE UNIVERSITY, ENERGY RESEARCH CENTRE (July, 2014)

3. International Training Workshop on Solar Energy Application, Lanzhou City, China (**6<sup>th</sup> June– 26<sup>th</sup> July 2011**)
4. Hydropower Training for English-speaking African Countries, Hangzhou – China, (2<sup>nd</sup> July – 28<sup>th</sup> July, 2012)

### **WORKSHOP AND CONFERENCES**

1. 11<sup>th</sup> – 14<sup>th</sup> May 2011 – Capacity Assessment for East Africa Community Regional Strategy on Scaling up Access to Modern Energy Services – Kigali, Rwanda.
2. 6<sup>th</sup> June– 26<sup>th</sup> July 2011 – International Training Workshop on Solar Energy Application, Lanzhou City, China
3. 28<sup>th</sup> – 30<sup>th</sup> June, 2011 – International Conference on Solar Energy Applications Gansu Natural Energy Centre, China
4. 2<sup>nd</sup> September - 4<sup>th</sup> September 2011 – Stakeholders Workshop on Potential of Small and Micro Hydropower Development in Kenya.
5. 2<sup>nd</sup> July – 28<sup>th</sup> July, 2012 - International Training Workshop on Small Hydropower Technology, Hangzhou, China
6. 27<sup>th</sup> -28<sup>th</sup> May 2013 Workshop on Appropriate Technology for the 21<sup>st</sup> Century: Sustainable Development in Africa. Review paper on Solar Water Pasteurization Techniques
7. 10<sup>th</sup> -11<sup>th</sup> February 2014 Regional Workshop for East Africa Energy Stake Holders
8. 24<sup>th</sup> -25<sup>th</sup> February 2014 National Nuclear Energy Stakeholders Forum
9. 25<sup>th</sup> – 29<sup>th</sup> November 2014 6<sup>th</sup> International Conference on Appropriate Technology, Kenyatta University Conference Centre.

### **MEMBERSHIP TO PROFESSIONAL BODIES**

1. Graduate Engineer – Engineers Board of Kenya
2. Member - Kenya Renewable Energy Association
3. Member- Association of Energy Professionals Eastern Africa (AEPEA)

### **OTHERS**

1. Technical Committee Member on Energy Management Standards – Kenya Bureau of Standards

### **REFEREES**

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| <ol style="list-style-type: none"> <li>1. Prof. T. N. THORUWA<br/>SNR. LECTURER<br/>DEPARTMENT OF ENERGY ENGINEERING<br/>KENYATTA UNIVERSITY</li> </ol> | <ol style="list-style-type: none"> <li>2. PROF. E. N. NJAGI<br/>DEPARTMENT OF BIOCHEMISTRY<br/>KENYATTA UNIVERSITY</li> </ol> |
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