



Name: Elias Onyango Ako

Title/Qualifications: BSc. Engineering (Egerton University, Kenya)
MSc. Renewable Energy Technology (Kenyatta University, Kenya)
PhD (On-going in Sustainable Energy Engineering)

Department: Energy Engineering, School of Engineering and Technology

Contact address: Kenyatta University
c/o Energy Engineering

Position: Lecturer and Chairman, Department of Energy Engineering

Area of Specialization: Solar Energy – Renewable Energy

Research interest: Solar, Wind, Small hydro, Bio-energy and other areas of renewable energy
To date: PhD Research in Sustainable Energy Engineering in the area of
Solar Water Pasteurisation.

Professional Affiliation: Graduate Engineer with Engineers Registration Board (ERB)
Member Kenya Renewable Energy Association
Member World Solar Energy Union

Grants and Consultancies: National Council of Science and Technology STI grant Ksh 1.2
million

Selected Publications:

Performance of a 2-Element Plane Reflector Augmented Galvanised Flat Plate Collector for
Solar Water Pasteurisation, 2009. *Journal of Food Technology* **7(1)** 12-19. ISSN: 1684-
8462. Medwell Publishing

Ako, E. O. : Review Paper on Renewable Energy Situation in Kenya: Potential and
Challenges. International Solar energy Centre, Gansu, C

Assessment of land cover changes in lake Olbolsat region of the central Kenyan highlands
using *Landsat Satellite Imagery* aided by indigenous knowledge
Muriithi Zacharia, Ako Elias, Kiplagat Jeremiah, Maingi Simon and Luke Omondi Olang.
Journal of Biodiversity Management and Forestry 2013, 2:2 SciTechnolhina, 2011.

Solar Water Pasteurisation: Review and Potential (2014). *E. Ako, J. Kiplagat and I. Kiunga*
Proceedings of the 6th International Conference on Appropriate Technology ‘Appropriate
Technology for the 21st Century: Technology Innovation to Empower Africa’

Selected Conference/ Workshop presentations:

Information Dissemination Workshop on Mini-Hydro Power Supply – Kenya Industrial Research Development Institute 7th – 8th March 2011.

Capacity Assessment of East Africa Community Regional Strategy on Scaling up Access to Modern Energy Services 11th – 14th May 2011, Kigali, Rwanda.

International Training Workshop on solar Energy Applications, Gansu Natural Energy Centre, 5th June – 30th June 2011.

International Conference on Solar Energy Applications, International Solar Energy Centre, Gansu China. 30th June – 4th July 2011.

Stakeholders Workshop on Potential of Small and Micro Hydropower Development in Kenya. 2nd September - 4th September 2011

International Training Workshop on Small Hydropower Technology, Hangzhou, China 2nd July – 28th July, 2012

Workshop on Appropriate Technology for the 21st Century: Sustainable Development in Africa. Review paper on Solar Water Pasteurization Techniques 27th -28th May 2013

Regional Workshop for East Africa Energy Stake Holders 10th -11th February 2014
National Nuclear Energy Stakeholders Forum 24th -25th February 2014

6th International Conference on Appropriate Technology, Kenyatta University Conference Centre. 25th – 29th November 2014

Other On-going Research Activities

1. Design of a solar tracking concentrator system for process heat generation
2. Design and Development of a portable low head – low volume hydro-turbine for shaft power applications
3. Development and Optimisation of Solar Water Pasteurisation System for use in Rural Areas – PhD Research Topic
4. 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