

Prof. Godfrey M.N. Ngunjiri, PhD

Associate Professor of Agricultural Engineering

Faculty of Engineering & Technology

Department of Agricultural Engineering

Egerton University

P.O. Box 536-20115 Egerton, Kenya

Mobile phone: +254-722504936

Email: ngunjirigmn@hotmail.com

EDUCATION

1994	PhD, Agricultural Engineering	University of Illinois, Urbana-Champaign, USA
1984	MSc, Agricultural Engineering	University of Florida, Gainesville, USA
1982	BSc, Mechanized Agriculture	University of Florida, Gainesville, USA
1973	Diploma, Agricultural Engineering	

FIELD OF SPECIALIZATION: Farm power & machinery

WORK EXPERIENCE

2001 ---	Associate Professor of Agricultural Engineering, Egerton University
2007 – 2008	Acting Principal, Laikipia Campus College, Egerton University
2001 – 2005	Coordinator, Alumni Services & Student Placement, Egerton University
1997 – 2001	Dean, Faculty of Engineering & Technology, Egerton University
1989 – 2002	Senior Lecturer (Farm Power & Machinery) Egerton University
1990 – 1994	Teaching Assistant, University of Illinois, U.S.A.
1986 – 1989	Lecturer (Farm Power & Machinery) Egerton University
1981 – 1986	Lecturer II (Farm Power & Machinery) Egerton College
1977 – 1981	Demonstrator I (Farm Power & Machinery) Egerton College
1974 – 1977	Lecturer, Agricultural engineering Practices Large Scale Farmers Training College Nyahururu, Kenya

COMPLETED RESEARCH PROJECT

1998 – 2004	Development of low cost solar pyrethrum dryer (Pyrethrum Board of Kenya funding; KES1,500,000)
-------------	--

ONGOING RESEARCH PROJECTS

2012	Njue, M.R., Ngunjiri, G.M.N., Maina, G.G., Nganga, O.B., Kobia, M.K., Mwangi, J.N. and Giconi, D. Design and development of a low head hydropower plant; Funded by NCST (2012-2015); KES6,000,000)
2011	Ngunjiri, G.M.N., Njue, M.R. and Kobia, M.K. Development of a solar grain dryer; Funded by Egerton University (2011-2013); KES390,000)

COMPLETED POSTGRADUATE THESES RESEARCH

2009-2013	Development of biodiesel from rice husks (MSc thesis research supervision)
2008-2011	Testing different substrate mixtures for quality and rate of biogas production (MSc thesis research supervision)
2004- 2006	Long-Term Weather Data Modelling (MSc Thesis Research Project Supervision)
2003-2005	Biogas production under greenhouse and underground micro-environment (MSc thesis research supervision)

ONGOING POSTGRADUATE THESES RESEARCH

Subsoiler performance with selected disc and blade attachments (PhD Thesis research Supervision)
Conversion of Auto Acoustic Energy into Electric Power for low power utilities MSc Research Supervision)

RELEVANT PUBLICATIONS

Cheruiyot, P.K., Ngunjiri G.M.N, Ndiema C.K.W., Chemelil, and Wambua, R.M. 2009. Effects of ground insulation and greenhouse micro-environment on the rate and quality of biogas production. Botswana Journal of Technology, Vol.18, No. 2, pp.1-1
Ngunjiri, G.M.N., Kamau, J.M. and Cheptumo, P.S. 2005. Prototype Pyrethrum Solar Dryer. Pyrethrum Post, Nakuru, Kenya; vol.20 (4) pp154-162.
Ngunjiri, G.M.N. and Kamau J.M. 2001. Pyrethrum Drying Practices in Kenya. Egerton University Journal, Vol.3 pp. 92-101.
Ngunjiri, G.M.N., and Kamau J.M. 2001. Effects of Pyrethrum Drying Chamber Temperatures on Pyrethrins Content. Egerton University Journal, Vol.3 pp. 74-79

PATENTS

Pyrethrum Solar Dryer; KIPi Patent Certificate number KE220

RESEARCH INTERESTS:

Renewable energy technologies; Postharvest technologies; Agricultural produce value addition technologies; Agricultural soil tillage