

PROF. (ENG.) SHITANDA DOUGLAS

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PERSONAL INFORMATION

Date of Birth: June 29th 1966 **Gender:** Male **Marital Status:** Married
Children: 3 **Religion:** Christian **Nationality:** Kenyan
Contact address: Machakos University, P.O Box 136 – 90100,
MACHAKOS- KENYA.
Personal address: P.O Box 22418-00100, NAIROBI – KENYA.
Current Administrative Position (13th March 2017 –To date): **Deputy Vice Chancellor** –
Administration, Planning and Finance; Machakos University.
Academic Position: (May 2017– To date): Professor – Machakos University (*Mechanical and
Manufacturing Engineering Department*)

MEMBERSHIP AND REGISTRATION

1. American Associations for Science and Technology (2015)
2. International Mind Education Institute (2015)
3. The Institution of Engineers of Kenya (2014)
4. Registered Environmental Impact Assessment/Audit (2006)
5. Registered Engineer (2005)

WORK EXPERIENCE

1. **Deputy Vice Chancellor** – Administration, Planning and Finance, Machakos University. I am involved in the day to day administration of the University, strategically planning for its development and the control of its finances since 13th of March 2017 to date.
2. **Principal** – The Co-operative University College of Kenya. Involved in the leadership of Senior Management to steer the day to day running of the University College. I am the Accounting Officer of the institution (April 2014- May 2015).

RESEARCH PROJECTS/AWARDS (OVER US\$ 6 MILLION)

1. The Feed the Future Innovation Lab for Food Processing and Post-Harvest Handling Project. Funded by Feed the Future, the U.S. government's Global Hunger and Food Security Initiative led by USAID (2014). In collaboration with Purdue University. **(KSh. 430 Million)**.
2. Energy Efficient Rural Food Processing Utilising Renewable Energy to Improve Rural Livelihoods (2013). Collaborative research between European and African Universities. Funded by the Engineering and Physical Sciences Research Council (EPSRC). In collaboration with KEMFRI. **(KSh. 12 Million)**
3. Development of Fruits and Vegetable Processing Plant. Lake Basin Development Authority (2013). Green Energy Consulting Engineer/SAGRICON Consultant. **(KSh. 8 Million)**

4. Processing and Dissemination of Enhanced Nutrition Cassava and Finger Millet-Based Products for Kenyan Smallholders Communities. (ICRISAT HOPE PROJECT)/University of Idaho, USA (2013). (KSh.13 Million).

INNOVATIONS

S/ No.	Technology	Status	Registration
1	Belt-drive Screw Expeller	Registered	XEMPLAR-5-KE/T/2005/058411
2	Vegetable Solar Drier	Registered	AFROTICA12-5/8/2005
3	Sand Base Solar Tunnel Fish Drier	Registered	AFROTICA13-KE/T/2005/058339

BOOKS/MANUALS

1. **Fuka Nui Tanda** (2017). Christians at Crossroads. Challenging Dogmatic Assumptions. Downtown Printers and Publishers, Nairobi, Kenya.
2. **Shitanda, D.**; P.M. Odote, and M. Mukolwe. (2008). Sand Base Solar Powered Tunnel Dryer for Fish Drying. Lighthouse Foundation.
3. **Shitanda, D.** (2006). Environment and Sustainable Development: A guide for Tertiary Education in Kenya, Volume 1, **ppg 91-108**. School of Environmental Studies and Human Sciences, Kenyatta University, Downtown Printing works Ltd, Nairobi.

REFEREED PAPERS (2007-2020)

1. **Shitanda, D.**; Kanuku M. and Nganu, M. (2019). Comparative Study of the Current Processes used by Insurance Companies and application of Block Chain Technology on Business Performance in Kenya. *International Journal of Science and Research, Volume 9, No.4*.
2. **Makanga, J.T.**; Shitanda, D.; Njoroge, C.; and Ong'era, M.G. (2016). Application of Renewable Energies for Storage of Horticultural Produce in Marginal areas of Kenya: The Performance Evaluation of a Prototype Solar-Charcoal Cooler. *The International Journal of Science and Technology, Volume 4, No.12, pp 323 -328*.
3. **Wawire, M.O.I.**; Mathooko, F.M.; Njoroge, C.K.; Shitanda, D.; Sila, D. and Hendrickx, M. (2012). Kinematics of Thermal Inactivation of Peroxidase and color Degradation of African Cowpea (*vigna unguiculata*) Leaves. *Journal of Food Science*. 81(1)2016, 160-165.
4. **Muthike, G.M.**; Kanali, C.L.; Shitanda, D. (2013). Comparative Analysis of On-farm Timber Conversion Systems in Kenya. *Journal of Horticulture and Forestry*. 5(6), 74 – 89.
5. **Gichua M.**; Njoroge G.; Shitanda D.; Ward D. (2013). Invasive species in East Africa: Current status for informed policy decisions and management. *Journal of Agriculture Science and Technology*. 15 (1) (Accepted).
6. **Kituu, G. M.**; Shitanda, D.; Kanali, C.L.; Mailutha, J.T. and Wainaina, J.K. (2013). Artificial breeding of an optimized solar tunnel dryer using genetic algorithms. *International Journal of Sustainable Energy*, 31(5), 313-325.