



Name of Staff: Obwanga Ojowi Benson

Designation/Rank: Lecturer Department of Biological and Biomedical Science Technology

Laikipia University: School of Science and Applied Technology

EDUCATION BACKGROUND

PhD Student at Egerton University; PhD Research Title: Dynamics of natural feed resources in small scale fish ponds of Nakuru County

2010:-MSc. Limnology- Egerton University

MSc Thesis title : Obwanga B.O (2009). Efficacy of selected plant ingredients as substitutes for Freshwater shrimps *Caridina niloticus* in diets for Nile tilapia (*Oreochromis niloticus* L.)

2005:-B.Sc. Hons (Applied Aquatic Sciences) Egerton University

PROFESSIONAL SHORT COURSES ATTENDED

- i) **2016 (21st -28th February)** Regional (AFRA) Training course on farmer Participatory Plant Breeding approach in Dissemination of Mutant varieties, Harare Zimbabwe
- ii) **2013 (6th January -6th March 2013)-** US-India-Africa Triangular International Training on New Dimensions in Agricultural Extension Management"- at National Institute of agricultural Extension Management (MANAGE) Hyderabad India

- iii) **2012 (18th-19th August)** A Tropical Biology Association (TBA) workshop on Effective Teaching Strategies⁵ for Biological & Environmental Scientists A training of trainers' (ToT) workshop to be held in Uganda, (18-19 August 2012) at Essela Country Hotel.
- iv) **2012 (28th Feb- 2nd)** Tropical Biology Association-Specialist training workshop “ Designing Research Projects in the Field”
- v) **2004 (May 25th)** - Certificate training in Human Subjects Protection for agro-ecological Development

PUBLICATIONS

1. Obwanga B.O; Ngure V.N., Outa O., & Ochieng K (2015) Effect of unmanaged aquatic resource utilization: case study of Iguamiti Stream of Laikipia county in the Rift Valley Kenya Journal of Science and applied technology JSAT Vol 2 No 1
2. Fanuel Kawaka, Benson Obwanga, Daniel Miyawa and Humphrey Gaya (2014) Epiphytic Orchids of Kericho Forest, Kenya Advances in Research 2014_AIR_9665
3. Obwanga B.O.; Liti D.M.; Wathuta E.M.; Magana A.M. (2013) Effects of selected plant materials on the whole body compositions and hepatosomatic index of Nile tilapia (*Oreochromis niloticus* L.) Journal of Science and applied technology (JSAT) Vol 1 No1 (10)

PAPERS SUBMITTED AWAITING PUBLICATION

1. Outa J., Ngure V., Obwanga B.O., Riparian vegetation characterization in disturbed and undisturbed zones of a tropical highland stream: Iguamiti Stream
2. Obwanga B.O., Outa J., Ngure V., Owino E Change in weather and landuse: the challenge posed to Iguamiti Stream, a tiny tropical stream

PAPERS IN PREPERATION

3. Obwanga B.O; Ngure V; Outa O and Ochieng K. Role of HEI in sustainable use and protection of aquatic resources: Case study of Laikipia University and the Iguamiti Stream

4. Obwanga B.O., Nguta C.M., Kipkemboi J., and Oduor O.S Njeri M. Water quality characteristics of lined small scale fish farming ponds of Kihingo area of Nakuru County Kenya

ACCEPTED PROJECT PROPOSAL AWAITING FUNDING 2016

1. Project Title :Status of freshwater crabs in Iguamiti stream of Laikipia County, Kenya. Obwanga B.O; Kawaka F.K; Wamuyu L.; & Otachi E. Funding from Tropical Biology Association (TBA) Small Grants for Alumni (SGS) UK £1,500

FUNDED PROJECTS 2015/2016

1. Assessment of heavy metals in nails and scalp hair in residents in small scale gold mining area, in Macalder Gold mining in Kenya: Health implications: Collaborators: Obwanga B.O.; Ngure V.N. Laikipia University Internal Research Funds (Ksh 192,000)

2. Microbial status of drinking water in Kamukunji settlement – a rural slum close to Laikipia University: Collaborators: Nyukuri J.; Onyancha Wilda.; Ngure V.N.; Obwanga B.O.; and Kingau J. Laikipia University Internal Research Funds (Ksh 192,000)

3. Integrating the local community in the conservation of wild orchids in Kericho Forest, Kenya: Collaborators: Kawaka F.; Obwanga B.O. Gaya C.H.; The Rufford Foundation (UK £ 5,000) http://www.rufford.org/projects/fanuel_kawaka

COMPLETED FUNDED PROJECTS:

1. 2013: Developing a community based conservation of wild Orchids in Kericho Forest,

Kenya: Kawaka F.; Obwanga B.O. Gaya C.H.; and Miyaba D.O. Funded by TBA
small grants for TBA Alumni UK £1,500

2. 2012: Integration of fish nutrition concepts with natural pond productivity for the development of effective management of small scale fish farming in Njoro area of Nakuru County. Collaborators: Nguta C.M., Obwanga B.O., Kipkemboi, J., Omondi S.O., and Mwarabu R. Funding body: Laikipia University College; Amount: Ksh. 400,000.00 funded by Laikipia University internal funding

3. Assessment of heavy metals in nailsand scalp hair in residents in small scale gold mining area, in Macalder Gold mining in Kenya: Health implications: Collaborators: Obwanga B.O.; Ngure V.N.; and Momanyi, L.O

4. 2013: Use of Benthic macro-invertebrate composition in Iguamiti Stream in Shamanei Forest as a bio-monitoring tool. Collaborators: Ngure V.; Obwanga B.O. Amount Ksh. 200,000.00 funded by Laikipia University internal funding.

ACCEPTED CONCEPTS FOR PROPOSAL DEVELOPMENT

a) Microbial status of drinking water in Kamukunji settlement – a rural slum close to Laikipia University: Collaborators: Nyukuri J. Onyancha Wilda.; Ngure V.N.; Obwanga B.O.; and Kingau J.

SOCIETY MEMBERSHIPS

- i. Life member of the International Society of Extension Education
- ii. Eastern Africa Water Association (EAWA)
- iii. Ecological Society of East Africa (ESEA)