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University Education

Ph.D. (Zoology, Fisheries) (1998), Moi University/University of
Gottingen, Germany.

M.Sc. (Hydrobiology) University of Nairobi (1987).

B.Ed. (Science); Botany Zoology & Education (1978 - 1981) University of Nairobi,
Kenya.

PUBLICATIONS

- Owiti, D. O. (1986). Cyclical changes in the histology of the gonad and the biology of catfish, *Clarias mossambicus* (Peters) in the Nyanza Gulf of Lake Victoria. M.S.c. Thesis, University of Nairobi.
- Owiti, D. O. and S. Dadzie (1989). Maturity fecundity and effect of reduced rainfall on the spawning rhythm of a Siluroid catfish, *Clarias mossambicus* (Peters). *Aquacult. Fish. Man.* 20: 355-368
- Owiti, D. O. (1990). Water hyacinth, *Eichhornia crassipes*: a new weed in Lake Naivasha, Kenya. *Resources Kengo* 1(3) 44-45.
- Owiti, D. O. (1991). KMFRI-EEC: Regional seminar on recent trends of research of Lake Victoria fisheries 25th-27th September, 1991, Imperial Hotel, Kisumu Kenya.
- Owiti, D. O. (2000). Aquaculture for sustainable food supply and poverty eradication in Lake Victoria Basin. In Conference Proceedings:- Sustainable environmental management for poverty alleviation in the Lake Victoria Basin March 2000, Maseno, Kenya.
- Owiti, D. O. (2000). Status of aquaculture in Kenya's Lake Victoria Basin: Strategies for Re-activation. In Conference Proceedings:- Lake Victoria 2000: A new beginning May 2000, Jinja, Uganda.
- Owiti, D. O. and S. Dadzie (2000). Histological changes in the maturation cycle of testes in the catfish *Clarias mossambicus* (Peters). *Kenya J. Sc. Techn. Series B* 12 (1 & 2): 1- 12
- Owiti, D. O. and S. Dadzie (2000). Histological changes in the ovary associated with the reproductive cycle of the catfish *Clarias mossambicus* (Peters). *Kenya J. Sc. Techn. Series B* 12 (1&2):69-82.

- Owiti, D. O. (2008). Intensive aquaculture; an alternative technology to uplift stagnation in aquaculture development in the lake basin region; In Conference Proceedings:- Integration of scientific and technological approaches for community Development in Lake Victoria Basin. October 2008, Kisumu Hotel, Kenya.
- Owiti, D. O. (1998). Effects of some terrestrial weeds, termites and snails as fed; on the growth and yield of the cichlid fish *Oreochromis niloticus* (L.). Ph.D. Thesis, Moi University.
- Owiti, D. O. (2000), Aquaculture for sustainable food supply and poverty alleviation in Lake Victoria Basin. Proceeding:-Sustainable environment. Maseno, Kenya.
- Abila, R., Salzburger W., Ndong`a M.F, **Owiti D. O.**, Barluenga ,M. & Mayer A. (2008). The role of Yala Swamp lakes in the conservation of Lake Victoria region haplochromine cichlids; Evidence from genetic and trophic ecology studies. Lakes and Reservoirs: Research & Management 13 (2):95-104.
- Owiti, D. O. & R.A. Kapiyo & E.K. Bosire (2013). Status of the Sondu-Miriu River fish species diversity and fisheries: at the onset of Sondu-Miriu Hydro-Power Project (SMHPP) operations. J. Ecol. Nat. Env. 5: 181-188
- Willoughby, N. , Kapiyo, R. , Mugo ,J. and **Owiti, D. O.** (2003).The implications of the River Sondu-Miriu hydropower project (Kenya) for fisheries and fishing communities.The land 7 (1): 3-20.
- Ndeda, V., **Owiti, D. O.**, Ndong`a , M. and Onyango, D. (2013). Occurrence and effect of *Diplostomum* parasites in cultured *Oreochromis niloticus* (L.) and distribution in vector snails within Kisumu City, Western Kenya. Ecohydrol. & Hydrobiol. 13:253-260 (2013)
- Owiti, D. O. & R.A. Kapiyo (2003). A general survey of the ecology of the vertebrate and higher plant communities of the Sondu-Miriu River Basin, Kenya East Africa. Report to Nippon Koei Co. Ltd Jpn. 51 pp.
- Owiti, D. O. (2014). Prospects of aquaculture in the restoration of the Lake Victoria Kenya fisheries: an overview on the strategies, status and challenges. p.17 Book of Abstracts: Core-to-core program – Asia- Africa science platforms. Nagasaki University Japan and KMFRI Kenya. December 2014; Kisumu, Kenya.
- Musita, A. A., **Owiti, D. O.**, Badaza, R. and Balirwa, J. S. (2015). Feed conversion a measure of quality of peanut-based diets on pond cultured Nile Tilapia *Oreochromis niloticus* L. Int. J. Fish. Aquacultural Sci. 5:49 – 58.
- Musita, A. A., **Owiti, D. O.**, Balirwa, J. S. and Otieno, A. C. (2015).Peanut based diets and growth performance of pond-cultured Nile tilapia fish (*Oreochromis niloticus* L.) at Busoga University fish Farm, Eastern Uganda. Int. J. Fish. Aquat. Stud. 2:306 – 312.
- Long'ora, A. E., Abuom, P.O., **Owiti, D. O.** and Malala, J. O. (2015). Influence of artisanal fishing gears on physic-chemical parameters in Ferguson's Gulf of Lake Turkana, Kenya. Sch. Acad. J. Biosci. 3:1005-1013.

Long'ora, A. E., Abuom, P.O., Owiti, D. O. (2015). Influence of artisanal fishing gears on fish abundance and species diversity in Ferguson's Gulf of Lake Turkana, Kenya. Sch. Acad. J. Biosci. 3:991-997.

HIGHER DEGREE SUPERVISION (DATES OF GRADUATION PLACED IN PARENTHESIS)

Ph. D. Supervision: R. Abila: (2007); Local adaptation, comparative trophic ecology, and phylogenetic analysis of haplochromine cichlids of lake Kanyaboli, a satellite lake of Lake Victoria. Department of Zoology, Maseno University

Ph.D. Supervision: Asila A. Atonga. Ecology of Nile patch (*Lates niloticus*) eggs and Larvae in the Kenya's part of L. Victoria. (2008). Department of Zoology, Maseno University. (SUPERVISION TERMINATED DUE TO UNTIMELY DEATH OF STUDENT!).

M.Sc. Supervision: Japheth, Z. O. Bolo (2013). Rice-cum catfish (*Clarias gariepinus*) culture at Ahero Irrigation Scheme, Kano plains, L. Victoria basin. Department of Zoology, Maseno University.

M. Sc. Supervision : Oteng'o Antony Otinga (2012). Toxicity of Synergized crude essential oil extracts from *Tegetes minuta* on *Periplaneta americana* (Blattidae); under laboratory conditions. Department of Zoology, Maseno University.

M. Sc. Supervision : Ndeda, Violet M'mboone (2013). Occurrence and effect of *Diplostomum* parasites in cultured *Oreochromis niloticus* (L.) and distribution in vector snails in Kibos Fish farms, near Kisumu City, Western Kenya. Department of Zoology, Maseno University.

M.Sc. Supervision: Petrus Oduor Jalau (2016). Role of physicochemical factors, food diversity and fishing pressure on the survival and conservation of the native tilapiine cichlids in Lake Kanyaboli, a satellite of Lake Victoria, Kenya. M.Sc. registration, Department of Zoology, Maseno University.

M.Sc. Supervision: Penelope A. Otieno (2017), Growth of African catfish (*Clarias gariepinus*) and plankton diversity in integrated and non-integrated aquaculture in earthen ponds. M.Sc. registration, Department of Zoology, Maseno University.

Ph.D. Supervision: Long'ora, Albert Elim (2017) Influence of artisanal fishing gears on water quality and fish community structure in the Ferguson's Gulf of Lake Turkana, Kenya (Ph.D. Registration, Maseno University)

PRESENTLY ON-GOING HIGHER DEGREE SUPERVISION (DATES IN PARENTHESIS INDICATE COMMENCEMENT)

Ph.D. Supervision: Ouma, Henry (2015). Polyculture potential, fry survival and economics of *Labeo victorianus* in combination with *Oreochromis esculentus* raised in concrete ponds on diets of varying protein levels; (Ph.D. registration, Department of Zoology, Maseno University)

Ph.D. Supervision: Samuel Basa (2015). An assessment on the distribution and population dynamics of fish species in the upper Victoria Nile; the Nile River, Uganda. (Ph.D. registration, Maseno University)

Ph.D. Supervision: Musita Augustus Apollo (2015). Evaluation of ground-nut-meal as a dietary protein source in supplement feeds of Nile tilapia *Oreochromis niloticus* L.) . A case study for culture fisheries in Eastern Uganda.

EXAMINATIONS OF HIGHER DEGREE THESES

Misiko Florence Monica (2012). “Estimation of trophic state indices and phytoplankton quotients in Kisumu bay, Nyanza Gulf, Lake Victoria”. M.Sc. Thesis, Maseno University.

Agembe S. Were (2008). M.Sc. Thesis, Moi University, Kenya

James Echassa Baraga (2005): Evaluation of Growth performance and reproductive capacity of three local strains of Nile tilapia *Oreochromis niloticus* L. in Kenya for use in Aquaculture. M.S. Thesis Moi university, Kenya.

Jalau, Petrus Oduor; M.Sc. Graduated, (2016). Maseno University

Otieno, Penelope Atieno; M.Sc. Graduated, (2017). Maseno University

Musita Apollo Augustus (2009):” Effects of Carbohydrates sources and rations on the growth of Tilapia: A Case study of culture fisheries Nomutumba District, Uganda.” M.Sc. Thesis Busoga University, Uganda

Muriuki Caroline Wambui; (2009)”. Developing Modules for standing fish taxa: Composition and size selection using bones from otter (Mustelidae) Scats in Kenya.” M.Sc. Thesis Kenyatta University

Wainaina Mirriam (2010).” Fish Community Structure of Mangrove Creek, Tudor, Kenya”. M. Phil. Thesis; Moi University.

Wanjiru Rosemary Kimani (2011). “Assessment of pollute control efficiency of Kingfisher flower farm Constructed wet land within Lake Naivasha ecosystem, Kenya.” : M.Sc. Thesis Kenyatta University