

DEPARTMENT OF CHEMISTRY



Name of Faculty/Staff: Prof. Charles Mweu Nguta

Designation/Rank: Associate Professor

Laikipia University: Science and Applied Technology

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Educational Background:

PhD (Analytical/Environmental Chemistry), Loughborough University of Technology, UK (1990)

Masters in. (Analytical Chemistry) , Loughborough University of Technology, UK (1985)

Bachelors in Chemistry (BSc.) University of Nairobi, Kenya (1979)

Brief Auto-biography of the Faculty/Staff

- 2022 to date, Chair of LU-ISERC,
- 2011 to 2021, Dean School of Science and Applied Technology
- 1995 to 2010, Senior lecturer at Egerton University
- 1982 to 1995, Principal Research Officer at Kenya Marine and Fisheries Research Institute, Mombasa
- 1979 to 1982, Analyst at Government Chemist Department, Mombasa

Selected Publications

1. Mule, S.M, **Nguta, C.M.** and Kamau, G. (2016). Levels of Banned persistent Organochlorinated Pesticides (Dieldrin, Hexachlorobenzene, DDT and its Metabolites) in Water from Selected Wetlands of the Lake Victoria Basin. *J. Afr. Res.Dev.* Vol.1: Issue 1, 56 - 68
2. Mazira, A.O, **Nguta, C.M.** and Gathuru, G. (2016) Determination of Zinc, Lead, Copper and Iron Concentrations in underground water, Lake water and Soils in Macalder- Mines, Migori District, Kenya. *Kenya Science, Technology and Innovation Journal*, Vol. 4 and 5, pp19-37

3. Mwangi, W.M., **Nguta, C.M.**, and Muriuki, B.G.(2014) Aflatoxin Contamination in Selected Spice Preparations in Nyahururu Retail Market, Kenya. *Journal of Scientific Research & Reports*, Vol. 3(7), pp 917-923
4. Mbeke, A.M., Kirui, S.K.,Kibet, N.C.,Welinga,A.M., and **Nguta, C.M.**(2014) Effects of Nitrogen Application on Snap Beans production in Koibatek District, Kenya, *International Journal of Development and Sustainability*,Vol.3(5) pp 1013-1025
5. Mule S.M, **Nguta C.M** et al (2014). Development of a Mathematical Model of Hydrocarbon Retention Efficiencies of Selected Wetland Ecosystems in Lake Victoria Basin. *Journal of Environmental Toxicology*. Vol. 2: 23 – 36.
6. **Nguta, C.M.**, Osawa, W.O., Onyari, J.M., and Onyiego, K.B., (2010). Levels of selected Heavy Metals and Fluoride in Water around Fluospar Factory in Kerio Valley, Kenya. *Kenya Science, Technology and Innovation Journal*, Vol. 1, pp 12-22.
7. Mule S.M, and **Nguta C.M**(2010). Determination of Retention Efficiency of Kimondi Wetland in North Nandi District in Kenya: Handbook Research on *Hydroinformatics: Technologies, Theories and Applications*: Published in the United States of America by Information Science Reference (an imprint of IGI Global): ISBN 987-1-61520-908-8 (ebook). pp 419 - 419

Research Interest

1. Study of Heavy Metals and Pesticides Residues in the Environment.
2. Air Pollution Studies and Waste Water Management