

TABITHA OWITI ORWA

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- Profile:** Research scientist proficient in classical and instrumental techniques of measurement with knowledge of laboratory risk management, decision rule, and statements of conformity. ISO 9001, 17025, 17043, 14001, 45001 auditor and trainer. Adept in leading teams to provide valid and timely test reports.
- Professional qualifications:**
- a) Science researcher with ability to operate spectroscopic, chromatographic and tensile testing equipment
 - b) Chemical metrologist with skills in proficiency testing, method development and validation, measurement traceability and preparation of reference materials.
 - c) Registered management systems auditor
 - d) Registered management systems trainer
 - e) Laboratory management system assessor
- Professional experience:**
- Currently
Head of Polymer Laboratory
Kenya Bureau of Standards
- October 2008 – December 2017
Laboratory analyst
Kenya Bureau of Standards
- Education:**
- May 2010 – July 2015
MSc Environmental Legislation and management
Jomo Kenyatta University of Agriculture and Technology
- August 2004 to June 2007
BSc Industrial Chemistry
Makerere University Kampala
- Accomplishments:**
- a) Accreditation of Inorganic laboratory to ISO 17025:2005 & transition of Polymer laboratory to ISO 17025:2017
 - b) Registered calibration and measurement capability for cadmium in rice
 - c) Organized proficiency testing schemes in black tea, cement, and paint

Professional membership:

- a) Kenya Chemical Society (N101)
- b) National Quality Institute, Kenya Bureau of Standards (NQI/M/PER/174)
- c) Certification body, Kenya Bureau of Standards (KEBS/PC/135)

Publications:

- a) T. Orwa, J. Kiptoo, A. Onditi, P. Njogu Assessment of selected native plants growing along Nairobi River for uptake of copper, zinc and cadmium, Journal of Agriculture, Science and Technology 16(1) (2014), 37 – 50
- b) T.O. Orwa Amaranthus Hybridus in Phytoremediation of Heavy Metal Polluted Waters of Nairobi River, Proceedings of the 2013 JKUAT Scientific, Technological and Industrialization conference, 296 – 304

Papers presented in conferences and workshop:

- a) T. Orwa. Chemical measurement of reinforced steel bars used in construction, 8th Regional Metrology Conference, 7th – 9th December 2016 at Bamburi Beach Hotel, Nairobi, Kenya
- b) T. Orwa. Evaluation of fenpropathrin using QuEChERS method and GC/MS/MS QQQ in Kenyan black tea, 2nd DeKUT International Conference on Science, Technology, Innovation and Entrepreneurship, 2nd -4th November 2016 at Dedan Kimathi University, Nyeri, Kenya
- c) T. Orwa. Importance of quality assurance of reinforced steel bars for structures, East and Southern Africa Environmental/Analytical Chemistry Conference and 11thTheoretical Chemistry Conference in Africa, 15th– 17th June, 2016 at Reef Hotel, Mombasa, Kenya
- d) T. Orwa, J. Kiptoo, P. Njogu Amaranthus hybridus in Phytoremediation of Heavy Metal Polluted Waters of Nairobi River, 8th JKUAT Scientific, Technological and Industrialization Conference 14th – 15th November 2013 at AICAD Centre in JKUAT Main Campus, Nairobi, Kenya

Affiliations:

- a) Member of East African Community (EAC) Testing Technical sub-committee
- b) Member of East African Community (EAC) proficiency testing providers.
- c) Member of technical committee researching on impact of shelf life on black tea
- d) Member of technical committee preparing Kenya Action plan under the Minamata Convention on mercury, 2017
- e) Testing expert for various Standard development committees
- f) Kenya Accreditation Service chemistry technical assessor

Referees

- a) Mr. Tom Oduor – Ag. Chief Manager Testing, Kenya Bureau of Standards, 0733746828
- b) Mr. Antony Irungu -Manager Food Laboratory, Kenya Bureau of Standards, 0720811428
- c) Prof Austin Ochieng' – Senior Lecturer, Technical University of Kenya, 0735262907