


MR. KENNEDY OLALE

	
School:	Pure and Applied Sciences (SPAS)
Department:	Chemistry
PERSONAL INFORMATION	
Name:	Mr. Kennedy Olale
Marital Status:	Married
Nationality:	Kenyan
Date and Place of Birth:	Migori
Religion:	Christian
Address:	P.O. Box: 408 Code: 40200 Town: Kisii
Office location (No.)	SPAS
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Education	
PhD: <i>(University, year started – year ended)</i>	PHD in Analytical Chemistry Jomo Kenyatta University of Agriculture and Technology, 2015-2019
Masters:	Master of Science in Chemistry University of Nairobi, 2010–2012:
Undergraduate:	Bachelor of Science in Industrial Chemistry University of Nairobi, 2001–2005
Secondary: <i>(Examination/Qualification, year started – year ended)</i>	Kakrao Mixed Secondary school, Migori-Kenya. Kenya Certificate of Secondary Education-K.C.S.E, 1996-1999

Primary/Elementary School: <i>(Examination/Qualification, year started – year ended)</i>	Nyasare Primary School, Migori-Kenya. Kenya Certificate of Primary Education –KCPE, 1987-1995
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CAREER DEVELOPMENT/WORK EXPERIENCE

A. Professional Experience

1. International Centre of Insect Physiology and Ecology (ICIPE) -Behavioural and Chemical Ecology Department, Oct 2014 to Jan 2015

Duties;

⇒ Employer was ICRAF as Research Fellow, Carrying out *Mango Nutritional analysis using HPLC and hands on training on analytical techniques such as; UHPLC, LC-MS/MS, GC-MS*

2. World agroforestry Centre (ICRAF). Doctoral Research Fellow, Feb 2013 to Dec 2015:

Duties;

- ⇒ Developed a PHD research topic **under Agriculture for Nutrition and Health (A4NH) CGIAR project.**
- ⇒ Carry out field visits to smallholder mango farmers in Machakos, Kiambu and Embu counties
- ⇒ Writing Donor report for the activities undertaken.
- ⇒ Carry out data analysis using R and SPSS together with Research Methods Group at ICRAF

3. World Agroforestry Centre (ICRAF). Graduate Fellow, Sep 2009 to Dec 2012:

Duties;

- ⇒ Develop MSC research topic under **Carbon Benefits Project (CBP): Modeling, Measurement and Monitoring** -Funded by **UNEP** through GEF fund.
- ⇒ Develop a non-destructive method for wood density estimation in tropical agroforestry tree species in western Kenya, method is applicable for Biomass estimation,
- ⇒ Tested new technologies for carbon-nitrogen content monitoring in tropical agroforestry tree species in western Kenya using infrared spectroscopy,
- ⇒ Project reporting on deliverable

4. World Agroforestry Centre (ICRAF)/United Nations Environmental Program (UNEP) Communications Unit under the **Billion tree campaign** , Jan 2007-Nov 2010

Duties;

- ⇒ Provided information on suitable tree species for planting and monitor online the number of trees planted world wide
- ⇒ Doubled as a Database clerk for INAFORRESTA website; develop and compile literature and updating the website with latest information on Cocoa agroforestry (www.worldagroforestrycenter.org/treesandmarkets/inaforesta)

⇒ Also worked as Laboratory Research Technician in Molecular Lab at ICRAF

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5. Optimum Lubricants Ltd, (Comet Lubricants), Jan /Nov 2006

Duties;

⇒ In charge of grease production and new products development

⇒ New product development as per customer request and Optimization based on Kenyan standards

6. Sony Sugar Company Ltd, August 2004 as Intern

Duties;

⇒ Hands on training on Manufacturing processes and practice.

B. Teaching/Work Experience

1. Kisii University- Department of Chemistry, 2018 to date

Duties;

⇒ Teaching analytical/Industrial Chemistry course Units to Undergraduate

⇒ Research on Applied spectroscopy and Chemometric techniques

2. Kisii University- Department of Chemistry, Part-time Assistant Lecturer- 2015- to-2018

Duties;

⇒ Teaching analytical/Industrial Chemistry course Units to Undergraduate/Diploma

⇒ Participate in Research activities

3. Technical University of Kenya-Department of Chemistry, Part-time Assistant Lecturer- 2013- to-2015

Duties;

⇒ Teaching analytical/Industrial Chemistry course Units to Undergraduate/Diploma

⇒ Participate in Research activities

C. Supervision of Ongoing Undergraduates

1. LIMO K GIDEON (PS12/70011/14). Effects of Hydrogen Peroxide Addition on Shelf Life Extension of Raw Milk

2. ANGOTE EVANS ESPIRA (PS28/70014/14). Analysis of Soil Samples for the Presence of Hydrocarbons Around Selected Petrol Stations In Kisii Town

SEMINARS / CONFERENCES ATTENDED

1. **Olale O.K, et al (2017)**. Influence of Phosphorous and Potassium Fertilizer on fruit morphological and Chemical Properties of *Mangifera indica* L in Kenya. Presented at the 9th International Conference of the Kenya Chemical Society (KCS) at USIU University on May 2017

2. **Olale O.K, et al (2015)**. Application of FTIR-DRIFT spectroscopy for quantitative prediction of sugars in the pulp of two local and two Floridian mango (*Mangifera indica* L.) cultivars from different sites in Kenya. A **poster** presented at the XI International Mango Symposium, between 28 September and 2 October 2015 in Darwin, Northern Territory, Australia.

3. **Olale O.K, et al (2013)**. Decrease of Bioactive Compounds and Quality Parameters in Mango Pulp ('Apple' Variety) after Freeze-Drying and Freezing: A preliminary comparison of methods for improving sample storage. Presented at the 13th Workshop on Sustainable Horticultural Production in the Tropics at Meru University of Science of Technology. December 3rd – 6th, 2013.

4. **Olale O.K, et al (2012)**. Limitations to use of infrared spectroscopy for rapid determination of wood density across tropical species. Presented at the 7th International Conference of the Kenya Chemical Society (KCS) at Maseno University on 15th to 18th Oct 2012.http://kenyachemsoc.com/2012/book_of_abstracts.pdf

FUNDED RESEARCH PROJECTS

1. **Carbon Benefits Project (CBP): Modeling, Measurement and Monitoring** -Funded by **UNEP** through GEF fund/World Agroforestry (ICRAF) Research Fellowship (2009)-For Masters Study/UoN.

2. **Agriculture for Nutrition and Health (A4NH) CGIAR project, 2015 for my PHD research**

ABILITY TO SOURCE FOR FUNDS

1. NACOSTI Grant (**Ksh.1,050,000**) for PhD studies at JKUAT University: Government of Kenya, 5th Call 2015

PUBLICATIONS/PAPERS

1. **Olale O.K.,** Waudo W., Mohammed S. A., Sila A and Shepherd K (**2017**). Application of DRIFT-FTIR spectroscopy for quantitative prediction of simple sugars in two local and two Floridian mango (*Mangifera indica* L.) cultivars in Kenya. *Journal of Analytical Science and Technology, Vol. 8, No. 21*

2. **Olale O.K,** Yenesew A, Jamnadass R, Sila A, Betemariam E, Kuyah S and Shepherd K (**2013**). Limitations to use of Infrared spectroscopy for rapid determination of Wood density across tropical species. *Advances in Analytical Chemistry.* Vol. 3, No.3.

3. **Olale O.K,** Jamnadass R and Shepherd K (**2011**). A Protocol for Measuring Tree Wood Density and Carbon Content in Tropical Agroforestry.Document Version 1.0 <http://www.goes.msu.edu/cbp/density.pdf>

4. **Olale O.K (2012)**. Prediction of Wood Density and Carbon-Nitrogen Content in Tropical Agroforestry Tree Species in Western Kenya Using Infrared Spectroscopy, MSc Thesis. *University of Nairobi-Kenya*

REFEREED PAPERS/BOOKS

1. Muchugi A, Kadu C, Kindt R, Kipruto H, Lemurt S, **Olale K**, Nyadoi P, Dawson I and JamnadassR, (2008). **Molecular Markers for Tropical Trees, A Practical Guide to Principles and Procedures**. ICRAF Technical Manual No.9. Dawson, I and Jamnadass, R. (Eds) Nairobi. *World Agroforestry Centre*

REFEREES

1. **Dr. Waudu Walyambillah**, Senior Lecturer, Department of Chemistry; Jomo-Kenyatta University of Agriculture and Technology, P.O. Box 62,000 – 00200 Nairobi, Kenya, wwaudu@yahoo.com.

2. **Dr. Edward Muge**, Chairman, Department of Biochemistry; University of Nairobi, Tel: 0716 059466, P.O Box30197-00100, mugeek@uonbi.ac.ke.

3. **Dr. Andrew Sila**, Data Analyst, World agroforestry Center (ICRAF); P.O Box 30677-00100, Tel: +254-20-224356. a.sila@cgiar.org.