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### **CURRENT RESEARCH AREAS OF INTEREST**

1. Dissipation Kinetics pesticides used in the control of pests in Kenya.
2. Isolation and characterization of microbes adapted to soils with long exposure to pesticides used in the control of pests in Kenya.
3. Water Quality studies

### **Professional Training and Workshops**

- 2014 July- Sept** Capacity-building of lecturing staff of Laikipia University, Kenya: 'Technology transfer in the Dairy Value Chain'
- 2012 September** Instrumentation Workshop on GC-MS in JKUAT, Kenya, 3<sup>rd</sup> -7<sup>th</sup> September 2012
- 2012 June** Workshop on Scientific Writing and Grant Application, Nairobi University Chiromo Campus, Kenya, 4-6 June 2012
- 2012 February** Proposal writing and opportunities by NCST held in Kimathi University

### **CONFERENCES**

1. Maghanga, J.K., Segor, F.K., Baron, H. and **Cheshari, E.** Electrochemical Treatment of Wastewater using Sacrificial Electrodes: A case study of Kepchemo Tea Factory Wastewater. Presented at the 5<sup>th</sup> South and Eastern Africa Network of Analytical Chemists (SEANAC) Conference, 9<sup>th</sup> – 13<sup>th</sup> June, 2014, Reef Hotel, Mombasa, Kenya.
2. **E. Cheshari**, J. Tenge, J. Maghanga, I. Njang'iru and E. Kinuthia. Determination of the Quality of Drinking Water Around Laikipia University. presented at Laikipia University College 2<sup>nd</sup> international conference, 20<sup>th</sup>- 23<sup>rd</sup> May 2014
3. **Cheshari E. C.**, Sudo V., Mavura W. J., Wanyoko J. K, Determination of Residue Levels of Lambda-Cyhalothrin (Karate 1.75 EC) and Pre-Harvest Interval (PHI) on Tea in Kenya presented at Laikipia University College 1<sup>st</sup> international conference, 20<sup>th</sup>- 23<sup>rd</sup> June 2012
4. Sudo V., **Cheshari E. C.**, Determination of Residue Levels of Natural Pyrethrin (Pyagro 4 EC) and Pre-Harvest Interval (PHI) on Tea in Kenya presented at Moi University 4<sup>th</sup> Annual international conference, August 2008.

### **SCIENTIFIC PUBLICATIONS**

1. Samuel Omboga, Barnabas K. Kurgat, **Emily C. Cheshari**, Moses K. Rotich, Ward J. Mavura. Determination of Major Ion Concentration and Ionic Strength of Saline Water:

A Case Study of Lakes; Nakuru, Bogoria-Kenya and Nata Saltpan Sanctuary –Botswana  
Journal of Natural Sciences Research **4** (18) 2014

2. **Emily C. Cheshari**, Vincent Sudoi, Ward J. Mavura and John K. Wanyoko.(2013)  
Determination of Residue Levels of Lambda-Cyhalothrin (Karate 1.75 EC) and Pre-Harvest Interval (PHI) on Tea in Kenya. **Journal of Science and Applied Technology (JSAT) 1** (1) 2013.
3. Gichumbi, J. M, Maghanga J. K., **Cheshari, E.C.**, Ongulu, R. O. and Gichuki, J.G.  
Comparison of Chemical and Mineralogical Properties of Geophagic Materials from Taita and Mombasa, Kenya. **International Journal of Scientific and Engineering Research 3** (10), October 2012
4. **Emily C. Cheshari**, Vincent Sudoi, Ward. J. Mavura, John.K. Wanyoko (2012);  
Determination of Residue Levels of Natural Pyrethrin (Pyagro 4 E) and Pre-Harvest Interval (PHI) on Tea in Kenya. **International Journal for current Research 4, (05), 001-004, May 2012**

#### **Grants and Awards**

5. **2013/2014** -National Commission for Science, Technology and Innovation ST&I Research Grant (PhD). **Amount** Ksh. 1,100,000
6. **2012/2013**- Laikipia University internal grants funding for research. **Amount:** Ksh. 200,000.

#### **Responsibilities and Professional Contributions**

1. Member attachment Curriculum development and Revive Chemistry and Biochemistry department
2. Member attachment committee Chemistry and Biochemistry department
3. Member Procurement Committee Laikipia University
4. Member service delivery committee SSAT Laikipia University
5. Reviewer Laikipia Journal of Science and Technology (JOST).

#### **Professional Bodies and Associations**

Member of Kenya Chemical Society