



UNIVERSITY OF NAIROBI



# **International Workshop on Sustainable Chemical Approaches for Environment and Health Sensing Technologies**

## **WORKSHOP**

**MAY 12 – 13, 2026**

**CCU, Main Campus**

**Blended Format**

**Join using the link below**

[International Workshop on Sustainable Chemical Approaches for Environment and Health Sensing Technologies | Meeting-Join | Microsoft Teams](#)

Special room booked at Chimie ParisTech PSL to follow the workshop together (see you at Room info 9, staircase C, level 1)

Please note: the times shown are local times in Nairobi (1 hour behind Paris)

# Program

## **Day 1 (Tuesday 12<sup>th</sup> May 2026)**

7.30am – 8.00am - *Registration of participants*

### **Opening Ceremony: Prof. Peterson Guto**

8.00 am – 8.45 am – *Opening ceremony*

(1) Deputy Vice Chancellor, RIE: *Prof. Leonidah Kerubo*

(2) Director of ParisTech, Director of Chimie ParisTech PSL (2015-2026),  
*Christian Lermينياux*

(3) Dean, Faculty of Science and Technology: *Prof. Francis W. Nyongesa*

(4) Chairman, Department of Chemistry: *Prof. David K. Kariuki*

8.45 am – 9.15 am – *Tea/coffee break and photo session*

### **Session 1 - Chair: Dr. Faridah Hussein Were**

9.20am – 10.20am – **Prof. David Kariuki (Key Note Speaker)**

Green Chemistry in Emerging Technologies for Health and Environmental Sustainability

10.20am – 10.40am – **Dr. Rachael Njogu**

Towards Aptasensor-Based Monitoring of Emerging Pollutants in Surface Water

10.40am – 11.00am – **Prof. Daniel Olago/Dr. Paul-Andre Calatayud**

Potential applications of remote sensing tools to establish baseline trends and patterns of climate change and land degradation in Amboseli ecosystem

15 min – **Break**

11.20 am – 11.40 am – **Dr. Fredrick Mwazighe**

Fast Electrochemical Detection of Caffeine in Selected Energy Drinks: Challenges and Possibilities

11.40 am – 12.00 pm – **Ms. Serah Njoroge**

Multiparametric Sensors Designed by Surface Modification based on Metallic and Organic Nano-Platforms for the Detection of Small drugs and Emerging Pollutants in Water

**12.00 pm – 1.00 pm – Lunch Break**

## **Session 2 - Chair: Dr. Fredrick Mwazighe**

1.00pm – 1.20pm – **Dr. Davide Avagliano**

Computational strategies to simulate photochemistry and photobiology in complex environments such as biological environment.

1.20pm – 1.40pm – **Dr. Victor Mobegi**

Application of Bioinformatics in Environmental Health surveillance

1.40pm – 2.00pm – **Dr. Carine ROBERT**

Synthesis of Biosourced Polymers in a Sustainable Context

2.00pm – 2.40pm – **Prof. Sophie Griveau (*Key Note Speaker*)**

Electrochemical sensors and biosensors for health and environment – Surface functionalization strategies

**3 pm – Tea break and posters + Exhibitions**

## **Day 2 (Wednesday 13<sup>th</sup> May 2026)**

### **Session 3 Chair: Prof. Sebastian M. Waita**

8.00am – 8.40am - **Prof. Duke Orata** (*Key Note Speaker*)

Survey of Electrochemical Engineering: A Tool for Industrial Development

8.40am – 9.00am – **Dr Simon HUBERT**

Energy production through the development of high-temperature fuel cells

9.00am – 9.30am – **tea/coffee break**

9.30am – 9.50am – **Prof. Polina Volovitch**

Environmental stability of materials, in situ analysis of solid/liquid interfaces

9.50am – 10.10am – **Prof. Mbui**

Utilization of Electrochemistry in Valorization of Waste, breakdown of toxic compounds and subsequent Bioelectricity Production

10.10am – 11.30am – **Panel discussions (The future of our collaborations)**

11.30am – 12.00pm – **Closing ceremony + Issue of certificates**

12.00pm - 1.00pm – **Lunch break**

1.00pm – **Visitations** (*laboratories and others*)

\*\*\*\*\***END**\*\*\*\*\*