



Regional training workshop on use of constructed wetlands technology for wastewater treatment, November 18-22, Mombasa, Kenya: Call for Application

The Western Indian Ocean Marine Science Association ([WIOMSA](#)) in partnership with the Kenya Marine and Fisheries Institute (KMFRI) and the Nairobi Convention through the GEF-funded project 'Implementation of the Strategic Action Programme for the protection of the WIO from land-based sources and activities (WIOSAP)' are organizing a regional training workshop on use of constructed wetlands technology for wastewater treatment that is scheduled to take place in Mombasa Kenya from 18th to 22nd November 2019. The workshop is organized with the financial support of the Government of Sweden through WIOMSA's Cities and Coasts Programme and the GEF through the WIOSAP Project.

Constructed Wetland Systems (CWS) as nature-based solution to wastewater treatment are a low cost and simple in operation and maintenance and a robust method of treating domestic, agricultural and industrial wastewater. They are engineered systems that have been designed and constructed to utilise natural processes involving wetland vegetation, soil and their associated microbial assemblages to assist in treating wastewater. CWSs offer a means of secondary treatment to effectively treat wastewater at decentralized locations. The systems are low tech, simple to build and manage, and result in the production of treated water which can potentially be used for other activities such as irrigation and fish farming etc.

The training aims at giving participants the knowledge and skills to perform basic wetland designs and critically assess existing wetlands or wetland proposals. Having a solid hand on training on the systems will allow the participants to realistically incorporate CWS into the existing wastewater management strategies in the various towns, cities or counties. Additionally, the training will aim to establish a network of scientists and managers with interests in utilizing CWS for wastewater management in the region. The training will therefore add capacity in wastewater treatment in the WIO region. Lead experts from institutions which will benefit from the WIOSAP demo projects on CWS will participate in the capacity building workshop in preparation for implementation of the demos. Experts in the WIOSAP Regional Task Force on Water Quality will also provide technical support at the training.

Workshop Content and training outcomes

The 5-day training will cover a range of topics including:

1. Wastewater Treatment Overview
2. Urban management and planning
3. The engineering of Constructed Wetland Systems
4. CWS Design & Construction
5. Constructed Wetland System Operation and Maintenance
6. Regional/urban and neighborhood planning and constructed wetlands
7. Legal and policy requirements in CWS designs and implementation
8. Involvement of different stakeholders in the CWS designs and implementation

The training involves lectures interspersed with many hands-on exercises and site visits.



How to apply

Applications to attend the workshop are invited from coastal cities/towns planners, scientists and researchers working on relevant coastal cities issues, environmental management authorities, research institutions and universities. Minimum qualification is a degree in science with physics, chemistry or biology background, conversant with wastewater management (should have basic interaction with wastewater management) or interested city leaders and neighbourhood association leaders and should have proficiency in English. Gender and youth inclusion will be considered in the participants selection.

Interested applicants should submit their CVs (maximum 2 pages) and a motivational letter indicating how the training is relevant to your work/research (maximum 1 page). These should be sent at the latest on 18th October 2019 via email to WIOMSA (secretary@wiomsa.org) and Valentine Ochanda (v.ochanda@wiomsa.org) copied to Stephen Mwangi (snmwangi40@yahoo.co.uk) and Jared Bosire (jared.bosire@un.org). Successful candidates will be notified within three weeks of the deadline.

Note: Please apply as soon as possible, as the selection process commences before the deadline, for logistical reasons.