



7th International Training on Ecohydrology in Tanzania

Main Theme: Climate Finance and Nature Based Solutions: An Ecohydrology Approach

Host: UNESCO Chair on Ecohydrology and Transboundary Water Management

Sokoine University of Agriculture, Morogoro Tanzania

Partners: UNESCO IHP (Paris – France), ERCE (Lodz Poland), UNESCO Chair for Water, Ecosystems and Societies (Faro – Portugal), UNESCO Chair in Inter-Religious and Cultural Dialogues (Mumbai – India), and Equiplus Tanzania Ltd (Tanzania)

November 25th – 29th, 2024: National Carbon Monitoring Centre (NCMC) - Sokoine University of Agriculture, Morogoro Tanzania

An overview

Our world faces many major environmental problems that cause reduction of ecosystem services that are vital for human survival and livelihoods. Among the problems include climate change (CC), biodiversity loss, watershed alteration, water and air pollution, deforestation, to name a few. These problems are affecting the capacity of watersheds and rivers to provide ecosystem services for human consumption and ecological integrity. Africa is probably the most vulnerable continent to CC and variability not only because of the dependence of many of its economies on agriculture, but also because of the presence of other environmental stresses.

In recent years, CC has posed a serious threat to human beings and to the environment. Degrading ecosystems is a phenomenon we are increasingly facing, calling for new solutions. Biodiversity loss and CC pose tremendous challenges to our planet and its people. Hundreds of millions of people are already exposed to the effects of biodiversity loss and CC. Restoring nature can help people to adapt by providing an ongoing source of food and other ecosystem services that support livelihoods, whilst also providing protection against extreme weather events. The nexus between climate finance, nature-based solutions and Ecohydrology is crucial for ecosystems restoration, resilience and sustainable supply of ecosystem services

Objective of the training

To build the capacity of participants on climate finance, nature-based solutions and Ecohydrology for sustainable flow of ecosystem services and resilience to the changing climate.

Tentative topics

This particular training will focus on:

- Climate finance and green economy
- Gender and water resources management
- Nature-based solution and climate change / carbon credit

- Enhancing the blue economy for people and nature
- UNESCO designated sites (Biosphere Reserves, World Heritage Sites and Geoparks)
- Climate-Food-Water-Ecosystem Nexus
- MoniGloG: A framework for monitoring biodiversity in protected areas and other effective area-based conservation measures – IUCN Guideline
- Impact of climate change in the banking sector and role in disaster risk reduction
- Linking microfinance institutions and climate change mitigation / adaptation
- Unlocking the potential for nature-based solutions
- Climate change and geohydrology
- PAM Toolbox: Management Tool for Protected Areas
- Estuarine, coastal wetlands and mangrove forest restoration
- River basin and riparian vegetation management
- Bankable nature solutions, landscape restoration and blended finance for conservation
- The use of biotechnology in water resources management
- The nexus between UN Sustainable Development Goals and Ecohydrology
- Wetland dynamics and aquatic biodiversity: Challenges and opportunities
- Rights of Nature: Instruments to conserve and manage rivers and riparian landscapes
- Practical Application of Environmental Impact Assessment (EIA) and Strategic Environmental Assessment (SEA)
- Nature based solutions for bioremediation of contaminated environments
- Introduction to French Language for beginners (II)
- Field excursion (Mikumi / Saadan National Park)

Target group / who can apply

The primary candidates for this training course are [young scientists](#) working in the conservation sector, bank sector and other financial institutions, development practitioners, higher learning and research institutions, non-governmental conservation organizations, protected areas authorities, central and local government, to name just a few.

How to apply

Interested applicants are required to submit the following:

- 3 pages CV with contact information of two referees
- Proof of support (institutional/private) to pay registration fee ([USD 250](#))
- 1 page motivation letter
- Front page of a valid passport (foreign applicants only)

Please email your application as a single PDF file to: makarius.lalika@yahoo.com, anordiusgeorge3@gmail.com and lalika_2mc@sua.ac.tz and by November 5th, 2024. Incomplete application won't be considered for evaluation and only successful applicants will be contacted.

Award

Trainees who successfully complete the training will receive Certificates of Attendance.

Instructors

- 1) Prof. Maciej Zalewski – ERCE / University of Lodz, **Poland**
- 2) Dr. Rahmah Elfithri – UNESCO HQ Paris, **France**
- 3) Dr. Makarius C.S. Lalika – Sokoine University of Agriculture /UNESCO Chair, **Tanzania**
- 4) Prof. Luis Chicharo – University of Algarve, **Portugal**
- 5) Prof. Hilary Inyang – GISDAAD, **United States of America**
- 6) Dr. Miguel Gonzalez- Organisation of Southern Cooperation, Addis Ababa, **Ethiopia**
- 7) Ms. Elisabeth Wiegele - University of Carinthia, **Austria**
- 8) Mr. Keven Robert – UNESCO Dar es Salaam Office, **Tanzania**
- 9) Dr. Pascal Breil – University of Lyon, **France**
- 10) Ms. Vanessa Berger – University of Carinthia, **Austria**

- 11) Dr. Emmanuel Japhet- Wetland International, **Tanzania**
- 12) Dr. Olfa Ben Said –National Centre of Nuclear Sciences and Technology, **Tunisia**
- 13) Dr. Enock Chambile – Sokoine University of Agriculture, **Tanzania**
- 14) Prof. Michael McClain – UNESCO IHE, **The Netherlands**

Twenty-five (25) participants will be admitted and female candidates are highly encouraged to apply. Applications will be treated based on "first come-first served basis".

For questions and clarifications, kindly do not hesitate to contact:

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Chairholder and Coordinator,

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