

***A short and simple detour of Kenya and
Austria Partnership in Research and
Capacity Development***

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Vice –President Africa-UniNet &

LWM Kenyan Coordinator

EGERTON UNIVERSITY

Austrian-African Research Network –Africa-UniNet

- ❖ There are currently **7 institutions** members (6 universities & one Intergovernmental) in Kenya out of 68
- ❖ Africa-UniNet has proved to be **an ideal network** providing a **unique opportunity for cooperation** between Austrian and African universities and research institutions to:
 - ❖ share ideas and widen member perspective in scientific cooperation,
 - ❖ build capacities in higher education and research and
 - ❖ create new networks - through the Africa-UniNet funded projects.

Africa-UniNet is contributing to:

- ❖ Internationalize member institutions targeting to demystify the achievement of the SDGs and

- ❖ Fostering the societal needs in creating:

 - ❖ intra and interspecific transformative pathways,

 - ❖ new knowledge for societal and humankind advancement

NB: ALL the above is drawn from a wide and wealthy experience and expertise of the network members

- ❖ Mentoring of young/upcoming institutions of higher education and research, young professionals and students so that they can effectively participate in solutions seeking as a guarantee for future societal wellbeing and positive dynamism
- ❖ Address the emerging issues such as; **Climate Change** and its consequences, **New diseases**, **New Legal demands**, **Scoping for Gender related issues** and **Political, Social and Economic analyses**
- ❖ ALL THESE CALLS FOR INNOVATIVE ACTIONS, NEW TOOLS & TECHNOLOGIES, INNOVATIVE WAYS OF ENGAGEMENTS and if necessary, development of New vocabulary, Languages, policies and support systems

The 2nd Africa-UniNet Hosted at Egerton University



Delegates in a session
> than 100 delegates



**His Excellency, the Austrian Ambassador in Kenya
Opening The 2nd AGM**

Institutionalizing Africa-UniNet Networking during the 3rd AGM



Pre-AGM - collaboration opportunities –
BOKU River Lab & ILWA meeting – new
collaboration initiatives



University Presidents Networking
Cycle during the 3rd AGM



Case study: The International Training Programmes in Limnology



IPGL participants since 1975
person per country

0
1 - 5
6 - 15
16 - 30
31 - 100

— AL&WMM migration routes since 2012
— Alumni migration routes since 2014

Source: University of Natural Resources and Life Sciences, Vienna, Austria

- Since 1975
- Over 600 water and environmental professionals
- Over 300 workshop participants
- Established network of collaborating institutions
- Upgraded teaching and research laboratories
- Research development projects
- Support for MSc and PhD
- **International Joint Master Degree Programme in Limnology & Wetland Management** (BOKU, UNESCO-IHE (Netherlands) and Egerton University (Kenya))

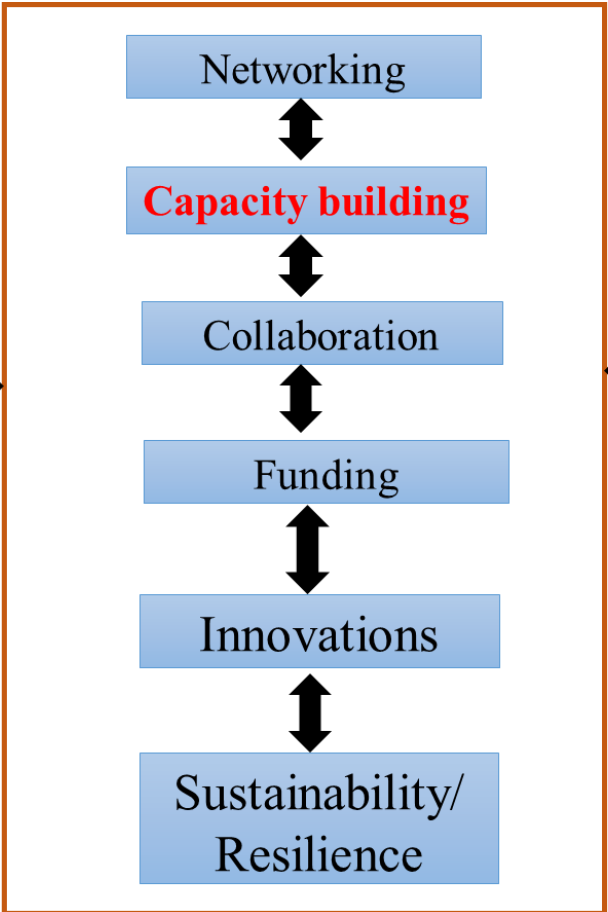


OPPORTUNITIES
JOINT DEGREE IN LWM



Find more information here: <http://short.boku.ac.at/lwm>
Apply here: <https://pgf.boku.ac.at>

With Funding From
Austrian
Development
Cooperation



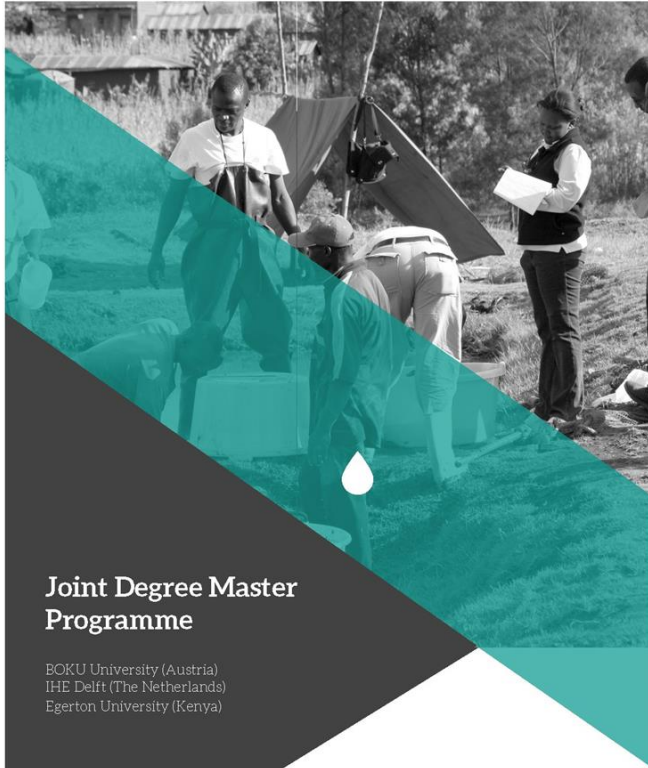
PARTNERSHIPS

❖ **Regional universities and research Institutes:**
S-S Joint Degree in AEEM;
Egerton, UAA, BDU & Sabeta

❖ **National partnerships;**
Egerton, KMFRI, Fisheries
Dept, Counties (Directorate
of Fisheries

❖ **Private Public partnerships :** Private
Fish farmers- Green Algae
Farm, Sagana, Kamuthanga
Fish Farm

Further Capacity Development Initiatives



Joint Degree Master Programme

BOKU University (Austria)
IHE Delft (The Netherlands)
Egerton University (Kenya)

Limnology
AND WETLAND MANAGEMENT

JOINT MSc PROGRAMME
AAU, EGU & BDU in collaboration with EIAR & BOKU

AQUATIC ECOSYSTEMS & ENVIRONMENTAL MANAGEMENT (AEEM)

Class starts: October 2023 Application for 2023

PROGRAMME OVERVIEW

Year I

- **Addis Ababa University**
Inland Water Ecology & Management
Fish Biology & Ecology
Research Methods
- **Bahir Dar University**
Wetland Ecosystem Management
Advanced Water Quality Management
IWM - Integrated Water Resource Mgmt
Environmental Policy & Planning
- **Egerton University**
Lake Ecology
Stream & River Ecology
Wetlands for Water Quality
Fisheries & Aquaculture Management
Sustainable Management & Utilization of Coastal Ecosystems

Year II

- **AAU, EGU or BDU**
Modeling of Aquatic Ecosystems
(Ecological & Environmental Modeling)
Aquaculture Techniques (EAIK)
Graduate Seminar
- **AAU or BDU**
MSc Research Project & MSc Thesis

APPLICATION

Applications for **ADMISSION & FELLOWSHIPS** are open from **June 20th - August 5th 2023**.

Application should be submitted through the platform:
<http://aeem.aau.edu.et/>
Application deadline: 05 August 2023 at 17:00 (5 PM).

Written entrance exam will on August 15th 2023 at AAU or BDU. Selected students will be invited for interviews.

REQUIREMENTS

- BSc in biology, chemistry, environmental sciences, natural resources management, animal sciences, fisheries, aquatic sciences or related fields
- Curriculum Vitae (CV) with full address
- Degree and official transcripts
- Motivation letter (max. 1 page)
- 2 letters of recommendation

find more information online: www.study-aeem.info

ROTARY CLUB VIENNA ROTARY CLUB WIEN
CHARTER 1925

RCV - FELLOWSHIP PROGRAMME

to follow course at Egerton University, Njoro Campus, Kenya

Starts Every Year in February

Masters in Limnology

Water is Life - become an interdisciplinary trained expert to manage aquatic resources sustainably and to support society in maintaining and restoring ecological services of freshwater ecosystems.

The specific aim of the Rotary Club of Vienna fellowship programme is to enhance the know-how and practical skills of young Eastern African water professionals so that they (1) carry-out relevant research & management activities more effectively, (2) contribute to the development and implementation of evidence-based policies in Eastern Africa and (3) mobilize society and financial resources to improve the management of environmental assets to the benefit of Eastern African people.

Fellowship Information

- Successful candidate Must write an acceptance letter to the RCV Coordinator
- The Fellowship caters for tuition and research fees only (No upkeep cost)
- Successful candidate Must provide a written report on his/her study success, personal development and future planning to the Rotary Club of Vienna for each semester of studies.
- Egerton University will avail candidate's academic performance as an RCV fellowship holder to the Rotary Club of Vienna, Austria
- fellowships can be terminated at the end of each semester in case, it is foreseeable that the fellowship holder does not meet the aims of the RCV-fellowship programme.

Qualifications

- BSc Degree second class upper division in Aquatic Sciences, Hydrology, Fisheries, Environmental Science, Natural Resources and Water Management or any other related earth sciences
- Must either have an admission for the Master's program in Limnology offered in the Department of Biological Sciences at Egerton University or be willing to undertake the course
- Must write a motivation letter to the RCV Coordinator stating why he/she qualifies for the scholarship and what he/she intends to do once he/she pursued his/her Studies
- Must have good interpersonal skills, excellent communication skills and fit to work in the field or lab for long hours sometimes even over the weekends
- Must have a **VERY STRONG** **BACKGROUND**
- They will have to submit information regarding their family background, financial status of their parents/guardians, siblings education information and how they managed to pay their undergraduate fees.

Deadline for Fellowship Application is 15th of December 2021 for the January Academic Year!

Please send applications to the following address:
LWM & RCV Programmes Office
Egerton University, Department of Biological Sciences,
P.O. Box 1336-20114, Egerton, Kenya
Email: nkikatia@egerton.ac.ke, lwm@egerton.ac.ke, and support.lwm@egerton.ac.ke
Tel: 07

BOKU
University of Natural Resources and Life Sciences, Vienna

ROTARY CLUB VIENNA
CHARTER 1925

"Transforming Lives through Quality Education"
Egerton University is ISO 9001:2008 Certified

STUDENTS TRAVEL OUTSIDE THEIR HOME COUNTRY- Enhances Global Perspective in solution seeking and decision making



LWM students from Kenya to Netherlands



AEEM students travelling from Ethiopia to Kenya

Collaborative Transdisciplinary Teaching-Enhancing inter-institutional networking



Prof Manyala –Jooust &
Dr Margaret Abira (Consultant)



Dr Munguti –Deputy Director Aquaculture
KMFRI

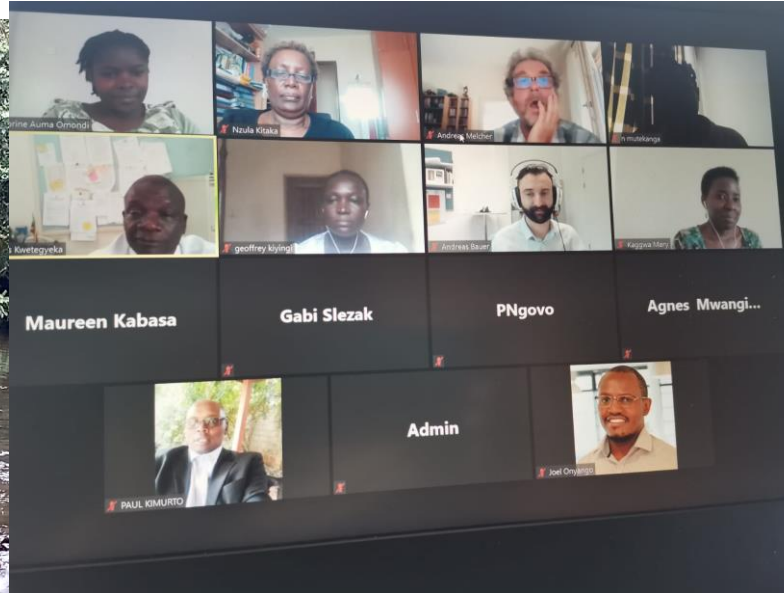


Ms Susan Adhiambo- Director Fisheries
Kisumu County

Further Collaboration in Research: LWM & Africa- UniNet



Co-supervision of students



Online training of young scientists
Under STREM -Project



Community Engagements
Under STREM project

Mainstreaming of other Professional Skills



Applied Limnology -BOKU



LWM

AEEM -Ethiopia

Presentation skills, Community engagement, & discussion sessions with the resource persons



Water systems studied- Practical Approach



Austria



Lake Naivasha



Lake Victoria

Lake's Systems

River Systems



Water Quality Monitoring

1. Physical-Chemical
2. Biological-OM, BIO



Riparian vegetation

1. Mapping
2. System Integrity assessment



Wetlands: Natural and Constructed



Constructed Wetland



Natural Wetland

Determining Biofiltration Efficiency
In both systems



Coastal Mangrove Wetlands systems



Fisheries and Aquaculture



Pond System

Fisheries of Lake Victoria

On site lab at the Beach to
Study the Wellbeing and feeding behaviour

Cage Culture systems
in Lake Victoria



Learning from experience-from Fish Farmers



Kamuthanga Fish Farm



Green Algae Fish Farm

Touring Kenya during the learning sessions



Hells gate National Park
Famous Fishers Tower



Masai Mara and walking at the gorge



What a world



THANK YOU



Cycling in a national Park