



**Department of Fisheries and Aquatic Sciences  
School of Natural Resource Management**

**Report on:**

# **Annual Graduate Seminar**

**20<sup>th</sup> – 21<sup>st</sup> August 2019**



**20<sup>th</sup> August 2019**

**TABLE OF CONTENTS**

<b>BACKGROUND INFORMATION.....</b>	<b>3</b>
<b>STUDENTS PROFILE.....</b>	<b>3</b>
<b>PROGRAMME OF PRESENTATION.....</b>	<b>4</b>
<b>SELECTED PHOTO GALLERY.....</b>	<b>8</b>

## **BACKGROUND INFORMATION**

The Graduate Seminar series in the Department of Fisheries and Aquatic Science is an annual activity designed to give opportunity to graduate students at both M.Sc and PhD. Graduate Seminar I for both Level 800 and 900 focuses on current advancements in fisheries resource management, Aquaculture and Aquatic Sciences.

Graduate Seminar II allows postgraduate students to undertake a critical review of classical and recent literature on topics of current concern to aquaculture or fisheries resources conservation and management.

In both cases, the topics for research selected under guidance from departmental graduate faculty. The students make an oral presentation and also submit term paper that both forms the final assessment

FSH 804: Graduate Seminar I  
FSH 805: Graduate Seminar II  
FSH 902: Graduate Seminar I  
FSH 904: Graduate Seminar II

## **STUDENTS PROFILE**

For this session, there were 8 PhD students and 12 M.Sc students making their presentations. Among the students is a group of International students under the COTRA scholarship that include:

- |      |          |                                  |
|------|----------|----------------------------------|
| i)   | Malawi   | 1 PhD Students<br>1 M.Sc Student |
| ii)  | DRC      | 1 PhD Student<br>1 M.Sc Student  |
| iii) | Uganda   | 1 M.Sc Student                   |
| iv)  | Ethiopia | 1 M.Sc Student                   |

## PROGRAMME OF PRESENTATION



### Our Vision

To be a premier University that is globally visible in knowledge generation and technological innovations

### Our Mission

To Provide high quality Education and training, in Science, Agriculture and Technology that promotes networking, partnerships and linkages with other institutions and industry



University of Eldoret -ISO 9001:9001:2015 Certified



DEPARTMENT OF FISHERIES AND  
AQUATIC SCIENCES

GRADUATE SEMINAR PRESENTATIONS

VENUE: UNIVERSITY OF ELDORET  
EDUCATION COMPLEX

20TH – 21ST AUGUST 2019

**To provide high quality training and outreach programmes  
in fisheries and aquatic science technologies for increased  
food security in the region**



University of Eldoret-ISO 9001:9001:2015 Certified

<b>20th August 2019</b>	<b>Session 1 Chair: Prof. Julius Manyala</b>	<b>2:25 - 2:40 pm:</b>	<b>Victor Okong'o SNAT/FAS/M/011/17</b> Analysis of cage aquaculture in Lacustrine systems: A case of Kenya L. Victoria.
<b>9: 00 - 9: 30 am</b>	<b>Dr. Frank Masese</b> Large mammalian herbivores and the functioning of the Mara River: influence on water quality, ecosystem metabolism, energy sources and flow in food webs.	<b>2:45 - 3:00 pm</b>	<b>Stella Nabayunga SNAT/FAS/M/007/18</b> Review of value chain analysis of farmed tilapia
<b>9:35 - 9:50 am</b>	<b>Lameck Menya SNAT/FAS/M/011/17</b> Market situation of aquaculture sector in Kenya	<b>3:05 - 3:20 pm</b>	<b>Riziki Walumona: SNAT/FAS/M/P/003/18</b> Modelling of Lake Kivu water balance: challenges and possible solutions
<b>9: 55 - 10:10 am</b>	<b>Edwine Yongo SNAT/FAS/P/005/18</b> Value Addition: A mechanism of improving the utilization of fish products.	<b>3:25 - 3:40 pm</b>	<b>David Kemboi SNAT/FAS/M/005/17</b> Aquaculture a contribution to food security, nutrition, social and economic development in Kenya
<b>10:15 - 10:30 am</b>	<b>Ellen kadeka SNAT/FAS/M/011/18</b> Biomonitoring of river ecosystem.	<b>3:45 - 4:00 pm</b>	<b>Nakungu Furaha Nelly SNAT/FAS/M/004/18</b> The use of homons in aquaculture and their impacts on consumers health
<b>10:35 - 10:50 am</b>	<b>Lameck Menya SNAT/FAS/M/011/17</b> Impact of climate change to sustainable aquaculture.	<b>4:05 - 4:20 pm</b>	<b>Adiang Evans SNAT/FAS/M/014/18</b> Cage culture in Lake Victoria
<b>10:55 - 11:10 am</b>	<b>Ali Makame SNAT/FAS/M/10/18</b> A review of life history traits of sea horses, <i>Hippocampus spp</i> : Implication on Conservation and Aquaculture.	<b>2:25 - 4:40 pm</b>	<b>Julie Bwoga SNAT/FAS/M/008/17</b> A review Monogenean parasite diversity in cultured Nile tilapia.
<b>11:15 - 11:30 am</b>	<b>HEALTH BREAK</b>		
	<b>Session 2 Chair: Dr. James Barasa</b>		
<b>11: 35 - 11:50 am</b>	<b>Benjamin kondowe SNAT/FAS/P/001/18</b> Use of geometric morphometrics for discrimination of <i>Tropheus duboisi</i> and <i>Trachurus picturatus</i> stocks		

11:15 - 11:45 am	HEALTH BREAK	11:55 - 12:10 pm	<b>David Kemboi</b> SNAT/FAS/M/005/17 Contribution of capture fisheries in growth of ornamental fish industry: A case of Haplochromines of L. Victoria
11: 50 - 12: 05 pm	<b>Josiah Ani Sabwa</b> NRM/DPHIL/FIS/011/18 Technical feasibility and economic profitability of aquaponic systems in developing nations	12:15 - 12:30 pm	<b>Alfred Achieng</b> SNAT/FAS/P/001/17 The theory of size-spectrum models
12:10 - 12:25 pm	<b>James Bundi</b> NRM/DPHIL/FIS/003/09 Current status, opportunities and challenges of ornamental fishery in Kenya	12:35 - 12:50 pm	<b>Josiah Ani Sabwa</b> NRM/DPHIL/FIS/011/18 Advances in fish feed nutrition: Challenges associated with use of alternative protein sources
12:30—12:45 pm	<b>Evans Lomodei</b> SNAT/FAS/P/002/18 Biology and exploitation status of the sympatric <i>Brycinus nurse</i> and <i>Brycinus forex</i> .	12:55 - 1:10 pm	<b>James Bundi Mugo</b> NRM/DPHIL/FIS/03/09 Water exchange and stocking density on performance of African catfish larviculture in aquaponics system
12:50 - 1:05 pm	<b>Augustine Sitati</b> SNAT/FAS/M/10/17 Functional feeding of aquatic macroinvertebrates in tropical streams and rivers: A review of existing literature in tropical functional assignment	1:15 - 2:00 pm	LUNCH BREAK
1:10 - 2:00 pm	LUNCH BREAK		<b>Session 3 Chair: Dr. Simon Agembe</b>
2:05 - 2:20 pm	<b>Masresha Birara</b> SNAT/FAS/M/008/18 The intensity of human-induced impacts on the distribution and diversity of macro invertebrates and water quality of Gbako River, North Central, Nigeria respectively	2:05 - 2:20 pm	<b>Evans Lomodei</b> SNAT/FAS/P/002/18 Advances in fisheries acoustics and its application to sustainable fisheries management
		2:25 - 2:40 pm	<b>Augustine Sitati</b> SNAT/FAS/M/10/17 A review of macroinvertebrates DNA barcoding as an improvement to performance of traditional stream bio-assessment metrics

21<sup>ST</sup> August 2019

2:45 - 3:00 pm	<b>Masresha Birara</b> SNAT/FAS/M/008/18 The Ecological and socio-economic impacts of invasive water hyacinth ( <i>Eichhornia crassipes</i> ) in Ethiopia.	9: 00 - 9: 30 pm	<b>Session 1 Chair: Prof Boaz Kaunda-Arara</b> <b>Edwine Yongo</b> SNAT/FAS/P/005/18 Ecopath-Ecosim (EwE) model: As a tool for fisheries management
3:05 - 3:20 pm	<b>Nakungu Furaha Nelly</b> SNAT/FAS/M/004/18 Environmental impact of aquaculture	9:35 - 9:50 am	<b>Ellen kadeka</b> SNAT/FAS/M/011/18 The effects of land use changes on streams and rivers
3:25 - 3:40 pm	<b>Charles Muthama</b> NRM/PGFI/002/14 Microplastics pollution in marine water: A potential worldwide disaster.	9: 55 - 10:10 am	<b>Charles Muthama</b> NRM/PGFI/002/14 The potential of Sea urchin as food for human in coastal Kenya
3:45 - 4:00 pm	<b>Julie Bwoga</b> SNAT/FAS/M/008/17 A review of Aquaculture Development in Kenya .	10:15 - 10:30 am	<b>Ali Makame</b> SNAT/FAS/M/10/18 Influence of Environmental variability on catches of Small Pelagic Fishes: A review
4:05 - 4:20 pm	<b>Victor Okong'o</b> SNAT/FAS/M/011/17 Sustainability of constructed wetlands in liquid waste management.	10:35 - 10:50 am	<b>Benjamin kondowe</b> SNAT/FAS/P/001/18 Trophic modelling in lake: Case of Lake Malawi
4:25 - 4:40 pm	<b>Stella Nabayunga</b> SNAT/FAS/M/007/18 Analysis of Aquaponics as an emerging Technology Innovation.	10:55 - 11:10 am	<b>Alfred Achieng</b> SNAT/FAS/P/001/17 Size-spectrum as an indicator of riverine ecosystem degradation; Lake Victoria Basin.
4:45 - 5:00 pm	<b>Adiang Evans</b> SNAT/FAS/M/014/18 Evaluation of cyanobacteria microcystis toxicity in commercial fishes from Nyanza Gulf Lake Victoria.		
5:05 - 5:20 pm	<b>Riziki Walumona</b> SNAT/FAS/M/P/003/18 Nutritional value of <i>L. miodon</i> and <i>L.tanganicamus</i> introduced in Lake Kivu.		

## SELECTED PHOTO GALLERY







