

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY



WEEKLY RESEARCH SEMINAR SERIES

MUST Community and General Public are cordially invited to attend the 8th Research Seminar Presentation

COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

DEPARTMENT OF NATURAL SCIENCE

RESEARCH TOPIC: *The Risk Factors and Socio-Economic Impacts of Porcine Cysticercosis in Iringa Rural Communities*

SPEAKER : *Ms. Colletha Y. Mengo (Masters Degree in Applied Zoology of Science)*

BIOGRAPHY OF THE SPEAKER : Ms. Colletha Y. Mengo is an Assistant Lecturer in the Department of Natural Sciences in the College of Science and Technical Education (CoSTE). She has a Masters degree in Applied Zoology of Science from the University of Dar es Salaam, Tanzania specializing in Applied Zoology (parasitology). She also has a Bachelor of Science with Education (BSc. Ed) degree from the University of Dar es Salaam, Tanzania. She has a Diploma in Education from Kleruu Teachers College, Tanzania. She has two publications has attended a short course and four International Conferences. Currently, she is serving as the Head of Department of Natural Science at CoSTE.



R-ID NO: 0024

DATE: Wednesday 12th June, 2019

TIME: 04:00 PM

VENUE: NYERERE HALL

SUMMARY OF THE PRESENTATION: Pork production has increased in many regions of Tanzania due to recognition by poor farmers of quicker and higher returns in the pig industry. However, *Taenia solium* CC is a zoonotic disease in pigs; it leads into PCC; in humans, it causes HCC including NCC, one of the major causes of late onset epilepsy. The lack of information has made it difficult to carry out a thorough socio-economic impact analysis of *T. solium* CC. The study indicated that PCC prevalence was 7.5% (n=308). The community's awareness on the pork tapeworm was high 59.1% but knowledge on transmission was significantly low, 35.0%. The absence of toilets, drinking unboiled water, lack of tap water, indiscriminate defecation, and lack of pigpens and consumption of uninspected pork were important risk factors for the persistence of PCC in Iringa rural district.

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WEEKLY RESEARCH SEMINAR SERIES

MUST Community and General Public are cordially invited to attend the 8th Research Seminar Presentation

COLLEGE OF ENGINEERING AND TECHNOLOGY (CET)

DEPARTMENT OF BUILT ENVIRONMENT ENGINEERING

RESEARCH TOPIC: *Geotechnical Uncertainties and their Consequences in Predicting Settlement of Shallow Foundations on Sandy Soils*

SPEAKER : *Dr. Mwajuma I. Lingwanda (PhD in Civil Engineering)*

BIOGRAPHY OF THE SPEAKER : Mwajuma Lingwanda is a registered Engineer specialised in Geotechnics. She holds a PhD in Civil Engineering from the University of Dar es Salaam, a licentiate degree from KTH University in Sweden and an MSc Degree in Highway Engineering from the University of Dar es Salaam. She also has a Postgraduate Diploma in Civil Engineering from the University of Dar es Salaam, an Advanced Diploma (ADE) in Civil Engineering from Dar es Salaam Institute of Technology and a Full Technician Certificate (FTC) in Architectural Engineering from Mbeya Technical College (now MUST). She works at the Department of Built Environment Engineering and currently she is a Postdoctoral Research Associate for Transport Africa Project under Durham University of UK.



R-ID NO: 0025

DATE: Wednesday 12th June, 2019

TIME: 04:45 PM

VENUE: NYERERE HALL

SUMMARY OF THE PRESENTATION: Geotechnical investigation and design is always accompanied by uncertainties due to inherent variability of soils, measurement errors and transformation uncertainties. Field and Laboratory tests were performed for sandy soils in Dar es Salaam and Random field theory was applied to quantify the associated uncertainties. It was determined that the traditional deterministic design of shallow foundations results to overdesigns.

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COLLEGE OF SCIENCE AND TECHNICAL EDUCATION (CoSTE)

DEPARTMENT OF NATURAL SCIENCE

RESEARCH TOPIC: *Vegetation Species Diversity and Carbon Sequestration Potential of the Natural Secondary Regeneration Woodlands*

SPEAKER : *Mr. Gisandu K. Malunguja (Masters Degree in Biological Diversity and Conservation)*

BIOGRAPHY OF THE SPEAKER : Mr. Gisandu K. Malunguja is an Assistant Lecturer at Mbeya University of Science and Technology. His research interest includes; Plant Species Diversity, Animal and Plant Ecology, Human-Wildlife Ecology, and Climate change based on Carbon Sequestration. He graduated the bachelor degree in Biology and Master degree in Biological Diversity and Conservation at the University of Dodoma (UDOM) in 2012 and 2018 respectively. Currently, Mr. Malunguja is in a process of publishing two papers based on his Masters Dissertation.



R-ID NO: 0026

DATE: Wednesday 12th June, 2019

TIME: 05:30 PM

VENUE: NYERERE HALL

SUMMARY OF THE PRESENTATION: Natural woodlands represent an important carbon reservoir that plays great role on mitigation the emissions of greenhouse gases including carbon dioxide (CO₂). The study on Vegetation Species Diversity and Carbon Sequestration Potential, both Ecological Field Survey Technics and Laboratory Experimentation, focused on determination of vegetation species diversity and quantifying the amounts of carbon sequestered by the woodlands as well as its contribution to climate change mitigation. The finding of the study denoted variety of vegetation species such as Cynodon spp., Sorghum spp., Digitaria spp., Acacia spp., Balanites spp. and Commiphora spp. as well as potential CO₂ offset (16.2±5.0 tC –ha) by the woodlands.

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