



Programme for the 4th National Research Dissemination Conference, 25th to 27th January, 2023, Crossroads Hotel, Lilongwe

Theme: “Research, innovation and entrepreneurship: The Key Drivers to an Inclusively Wealthy and Industrialized Nation”

Programme

DAY ONE : WEDNESDAY, 25/01/2023	
Time	Event
08:00-08:45	Registration of participants
08:45	All Delegates Seated
08:50 – 08:55	Arrival of the Guest of Honour: Hon. Agnes Nyalonje, Minister of Education met by: <ul style="list-style-type: none"> • Secretary for Education, Mrs Chikondano Mussa • The Board Chairman, NCST, Prof. Emmanuel Kaunda • Director of Knowledge and Learning, NPC, Dr. Joseph Nagoli • Ag. Director General, NCST, Mrs Gift Kadzamira • The Director, DSTI, Prof Chomora Mikeka
	Guest of Honour led to Exhibitions in the Pavilions by Board Chairperson, NCST, Ag.DG-NCST, DG-NPC
09:15 : 09:50 (35mins)	Official opening in the main hall
	<i>Director of Ceremonies: Mrs. Gift Kadzamira</i> <ul style="list-style-type: none"> • Opening prayer by Mr Frank Kamanga • Welcome remarks by Director of Ceremonies • Remarks by Director of Knowledge and Learning, NPC, Dr. Joseph Nagoli; • Remarks by Board Chairperson, National Commission for Science and Technology, Prof. Emmanuel Kaunda • Remarks by Secretary for Education, Mrs Chikondano Mussa; • Official Opening of National Research Dissemination Conference by the Guest of Honour, Minister of Education, Honourable Agnes NyaLonje
09:50 – 10:10 (20mins)	Group Photograph and Press Interviews
10:10-10:20 (10 mins)	Refreshments
10:20	Convene for Presentations
	KEY NOTE PRESENTATION
<i>Chairperson :</i>	<i>Ag. Director General, Mrs G. Kadzamira</i>
<i>Rapporteurs:</i>	<i>Frank Kamanga & Yalonda Mwanza-Kapewa</i>
10:20–10:50	Keynote Speech (30 minutes)

	Outlook of Research and Innovation in Malawi by Professor Wales Singini Director of Research Mzuzu University
PARALLEL SESSION 1:	
10:50 –11:50	Agricultural Productivity and Commercialization
<i>Chairperson :</i> <i>Rapporteurs :</i>	<i>Dr Albert Changaya</i> <i>Mr Yohane Chimbalanga Mr. James Lanya</i>
<i>Round 1</i> <i>10:50 – 11:50</i> <i>10 min each for presentation and 20 min for general discussions</i>	Paper Presentations and Discussion
	Assessment of Quality and Safety Characteristics in Smoked Diplotaxodon species using Traditional and Improved Smoking Kiln in Southern Lake Malawi by James Banda
	Comparative environmental effects of common carp (<i>Cyprinus carpio</i> , Linnaeus) and the African catfish (<i>Clarias gariepinus</i> , Burchell): policy implications for aquaculture development in Malawi E.R. Chirwa
	Does the same fate await them both? A tale of two fish processing technologies among small scale fisher folk along Lake Malawi by Edister S. Jamu
<i>Round 2</i> <i>11:50 – 12:50</i> <i>10 min each for presentation and 20 min for general discussions</i>	Phosphorus recovery from waste for crop production in Malawi by Frank Mthambala
	Bio-economic analysis of the lake Malawi trawl fishery by Medicine Alexander Dazilone
	Soil moisture and nutrient monitoring innovations for optimizing irrigation benefits by Isaac Fandika
	The Role of Informal and Formal Seed Systems on Seed Security in Malawi by Henry Geoffrey Hunga
12:50 – 13:50	The Potential for Mega-Farms in Transforming Malawian Agriculture by Anderson Gondwe
	LUNCH
	Impact of alternative energy for on quality and safety of smoked fish products by Meriam Msatilomo Phiri
	Prospects for Agricultural Transformation in Malawi by Levison Chiwaula
<i>Round 3</i> <i>13:50 – 14:50</i> <i>10 min each for presentation and 20 min for general discussions</i>	Isolation and Purification of <i>Fusarium oxysporum</i> for Improved Disease Screening and Development of Resistant Varieties in Malawi by K.R. Msango
	Restructuring Input Subsidy Programs (ISPs) to Transform Smallholder Agriculture in Malawi by Christone Nyondo
	Unobservable health risks on unstructured markets: Groundnut marketing and aflatoxin in Malawi by Dinah Salanga
	Growth and reproductive performance of <i>Oreochromis shiranus</i> (boulenger 1896) broodstock fed on diverse diets under intermittent harvesting regime by Lyson Nankhwala
<i>Round 4</i> <i>14:50 – 15:50</i> <i>10 min each for presentation and 20 min for general discussions</i>	Assessing the potential of microbial consortia-based bio-fertilizer in integrated soil fertility management for improved maize productivity by K. Njira
	Temporal and spatial changes in fish size structure, diversity and distribution in the trawlable demersal zones of Lake Malawi, Malawi by Salim M'balaka
	HEALTH BREAK
	Assessment of fruits and vegetable post-harvest losses along the value chain in selected agro-ecological zones of Malawi by John Taulo
<i>Round 5</i> <i>16:00 – 17:00</i> <i>10 min each for presentation and 30 min for general discussions</i>	Transforming the Aquaculture Sector in Malawi: Key Lessons from SADC Region and beyond by Maggie Munthali
	Effects of <i>Pilliosigma thonningii</i> bark, leaf and <i>Momordica charantia</i> leaf extract on alpha-glucosidase activity by Madalitso Mlozeni
PARALLEL SESSION 2:	

10:50 –11:50	Health, Population and Nutrition
Chairperson : Rapporteurs :	Dr Cecilia Maliwichi-Nyirenda Dr Dzinkambani Kambalame and Clement Seven
	Paper Presentations and Discussion
Round 1 10:50 – 11:50 10 min each for presentation and 20 min for general discussions	Our Yao people’s circumcision is of the ‘brain’ not of the ‘penis’ factors behind the resistance to voluntary medical male circumcision among adult Yao people of Mangochi in Southern Malawi by Kent Mphepo
	Men’s knowledge, attitude and practices towards self-injectable contraceptive in Mzimba, Malawi by Leah Chirwa Sinyiza
	Sources, bioavailability and dietary adequacy of zinc intake among adult men in traditional authority Chiseka, Lilongwe by Lydia Pakira
	Assessment of the status of food safety and hygiene in city food outlets, a case of Zomba City, Malawi by K. Magombo
Round 2 11:50 – 12:50 10 min each for presentation and 20 min for general discussions	Sexual health knowledge acquisition among very young adolescent girls in two rural districts in Malawi by Wanagwa Chimwaza-Manda
	Survival rate of HIV infected children under the age of 15 years on antiretroviral therapy at Ndirande Health Centre, Blantyre, Malawi by R. Ngangwe
	Pooling sputum samples for genexpert tb testing in HIV positive women in Lilongwe, Malawi: a cost-saving method by Jonathan Manjamanda
	Prevalence of multidrug-resistant foodborne bacterial isolates from chickens, goats, cattle and pigs in Bvumbwe, Malawi by Martin H. Kalumbi
12:50 – 13:50	LUNCH
Round 3 13:50 – 14:50 10 min each for presentation and 20 min for general discussions	Experiences of mothers with critically ill preterm neonates at Mzuzu central hospital, Malawi by Precious Lyton Eliah
	Reliability and Validity of Depression Anxiety Stress Scale (DASS)-21 in Screening for Common Mental Disorders among Postpartum Women in Malawi by Ernest Moya
	Efficacy of adding pre-packed ultra heat-treated long-life cow milk to school meals on the growth parameters of learners (6-12 years old) in Nkhotakota district by Urunji Mezuwa
	Assessment of knowledge, attitude, and practice of medical waste management among healthcare workers in Blantyre urban health centres by Kenamu Libanga and Maureen Mzuza
Round 4 14:50 – 15:50 10 min each for presentation and 20 min for general discussions	Assessment of water, sanitation and hygiene services availability after use of Healthy Food Market concept at Dembo Market in Chikwawa, Malawi by L. Kamwana
	WhatsApp Based Trials of Improved Practices (TIPs): A Strategy for Controlling Hyperglycemia in Patients with Type 2 Diabetes Mellitus at Kamuzu Central Hospital by Sainab Matiki
	Dietary Patterns and Gestational Weight Gain in the Third Trimester of Women Attending Antenatal Clinic at Bwaila Hospital by Stella Phiri
	Cerebral Palsy a preventable disability by Monica Jamali-Phiri
15:50-16:00	HEALTH BREAK
Round 5 16:00 – 17:10 10 min each for presentation and 20 min for general discussions	Prevalence of Risk Factors and Determinants of Metabolic Syndrome Among Patients Living with HIV and on Antiretroviral Treatment at Bwaila Lighthouse, Martin Preuss Centre, Lilongwe by Rebecca Chidenga
	Factors influencing adherence to usage of personal protective equipment in government medical laboratories of Malawi by Jonathan Manjamanda
	Equations for estimating bodyweight and underweight using calf, neck and mid-upper arm circumferences in Malawian adult patients by Limbikani Wasambo
	The effective management of common psycho-social problems among adolescent learners in Malawi by John Kuyokwa

	Prevalence of cormobidity of NCD and HIV/AIDS among young adults in Malawi by Ansley Kasambara
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PARALLEL SESSION 3:

10:50 –11:50	Social Sciences, Humanities and Inclusivity
<i>Chairperson :</i>	<i>Dr. Andrew Jamali</i>
<i>Rapporteurs :</i>	<i>Frank Kamanga & Yalonda Mwanza-Kapewa</i>
	Paper Presentations and Discussion
Round 1 <i>10:50 – 11:50</i> <i>10 min each for presentation and 20 min for general discussions</i>	Comparing Spatial and Standard Multilevel Regression Models for Binary Outcomes in Studies of Impoverishing Effects of Out-of-pocket Health Payments by Atupele Mulaga
	Participatory approaches for exploring belonging and social connectedness: the lived experiences of adolescents growing up with albinism in Malawi by Elita Chamdimba
	Impact of gender transformative approach on women empowerment in the small-scale fish value chain along Lake Malawi by Jupiter Simbeye
	The Welfare of Children Living with incarcerated Mothers in selected Prisons of Malawi by Gracious R. Gadama
Round 2 <i>11:50 – 12:50</i> <i>10 min each for presentation and 20 min for general discussions</i>	Comparing women economic empowerment of fishing and non-fishing households in Malawi: Application of decomposition analysis by Eliphaz Kuseni
	Assessing the relationship of gender and residential status of students with academic performance in mathematics-a case of soche hill secondary school by Evison Mulumuzana
	Disseminating Information or Advocating Peace? Journalists’ Role Perceptions in the Face of Conflict by Japhet E.J. Mchakulu
	Assessing the Prevalence of Board Performance Evaluation Practices in Malawi by Kezzie Mkandawire
12:50 – 13:50	LUNCH
Round 3 <i>13:50 – 14:50</i> <i>10 min each for presentation and 30 min for general discussions</i>	Effects of COVID-19 on teenage pregnancy around matawale health center catchment area, Zomba by Victoria Saizi
	Behaviour change communication in a pandemic: assessment of the Malawi Government's communication to its citizens, during the covid-19 pandemic by Catherine Chaweza
	Heritage Language and Conflictual Ethnic Identity: A Case Study of Chichewa-Speaking Zimbabweans by Japhet E.J. Mchakulu
Round 4 <i>14:50 – 15:50</i> <i>10 min each for presentation and 30 min for general discussions</i>	Interrogating Causal Links Between Government Expenditures and funding sources; a catalyst for private sector in PPs. A case of Malawi by Raphael K. Munthali
	Barriers and facilitators to COVID-19 Vaccination Acceptance Among Health care providers in Malawi: A scoping review by Catherine Chaweza
	Motorcyclists’ Risk Perception and Implications for Risk Communication: A Study of Lilongwe Urban and Rural Motorcycle “Kabaza” operators by Japhet E.J. Mchakulu
15:50-16:00	HEALTH BREAK
PARALLEL SESSION 4:	
10:50 – 11:50	Education & Human Capital for Socio-Economic Development
<i>Chairperson :</i>	<i>Prof Chomora Mikeka</i>
<i>Rapporteurs :</i>	<i>Mr George Vakusi and Mr William Ngwira</i>
	Paper Presentations and Discussion

Round 1 10:50 – 11:50 <i>10 min each for presentation and 20 min for general discussions</i>	Generational diversity in the workplace and its impact on individual perspectives regarding important career success dimensions by Rhoda Chozenga Bakuwa
	The culture of primary schools with outstanding learner achievement: a case of schools in Phalombe district by Tiwonge Saka
	Malawi's secondary school education: a curse or a blessing? By Wisdom Bhunu
	Exploring how mathematics teacher educators enact the practices of exemplification, explanatory talk and learner participation in teaching number concepts and operations to student teachers by Justina Longwe
Round 2 11:50 – 12:50 <i>10 min each for presentation and 20 min for general discussions</i>	ICT Utilisation in Secondary Schools in Malawi: Challenges and Interventions in the context of Shire Highlands Education Division by Patrick Chikumba
	Utilisation of mobile phones by level four Library and Information Science Weekend students in accessing library resources at Mzuzu University Library by Alex Kalagho
	Auxiliary Teaching Engagement and its Impact on the Quality of Education in Malawi Primary Schools A Baseline Assessment by Colby Heatherwick Kumwenda
	Challenges that parents face due to payment of user fees in public primary schools in Malawi a case of Mzuzu city Masasa by Emily Chisale
	The Effect of Age at School Entry on Educational Attainment in Malawi by Louiss Saddik
12:50 – 13:50	LUNCH
PARALLEL SESSION 4:	
13:50-14:50	ICT, Financial Inclusion and Knowledge Management
Round 3 13:50 – 14:50 <i>10 min each for presentation and 30 min for general discussions</i>	Paper Presentations and Discussion
	E-records management practices in public universities A developing country perspective by Aubrey Harvey Chaputula
	Why do people use telecentres in the age of mobile technologies? Answers from Malawi by Sellina Khumbo Kapondera
	Utilisation of Online databases by students at Saint John of God College of Health Sciences in Malawi by Teddie Chima
15:50-16:00	HEALTH BREAK

DAY TWO: THURSDAY 26/01/2023	
8:00-8:20	Registration
8:20-8:30	<ul style="list-style-type: none"> • Director of Ceremonies: Mike Kachedwa • Opening prayer
<i>Chairperson:</i>	<i>Mr Frank Maele</i>
<i>Rapporteurs:</i>	<i>Mr Kudonda Nseula and Mrs Gladys Mwafulirwa</i>
8:30-9:00	Keynote Presentation (30 minutes)
	Commercialising Research, Science, Technology and Innovation Outputs in Malawi: Practical Experiences of Malawi Private Sector by <i>Mr Bryson Mkhomaanthu CEO Press Cane</i>
PARALLEL SESSION 1:	
9:00-10:00	Trade, Industrial Development and Tourism
<i>Chairperson</i>	<i>Dr. Andrew Jamali</i>
<i>Rapporteurs</i>	<i>Kudonda Nseula and Gladys Mwafulirwa</i>
	Paper Presentations and Discussion (20 mins each)
<i>Round 1</i> <i>9:00 – 10:00</i> <i>10 min each for presentation and 20 min for general discussions</i>	Techno-Economic Analysis for the Production of Bioactive Peptides from Enzymatic Hydrolysates of Milk Protein Concentrates by Hankie Uluko
	Inorganic-Organic Hybrid Interpenetrating Polymer Networks (IPNs) containing Borosiloxane Linkage by Loyce Chisale
	Urbanization and Rural Development
	Paper Presentations and Discussion (20 mins each)
	Investigating Fiscal Autonomies for Local Authorities in the Face of Decentralization: Towards Optimal Devolution and Participation in Public-Private Partnerships. A Case of Malawi by Raphael K. Munthali
	Activity concentrations due to naturally occurring radioactive materials in cements: a review on Malawian cement industry by Aeron Nahuku
10:00-10:20	HEALTH BREAK
<i>Round 2</i> <i>10:20 – 11:40</i> <i>10 min each for presentation and 30 min for general discussions</i>	Environment & Natural Resources Management and Climate Change
	Evaluating impact on co-management in Liwonde forest reserve, Machinga district, Malawi by Janice Chikwanda and Maureen Mzuza
	Greenhouse Gas Emissions and Mitigation Measures within the Forestry and Other Land Use Subsector in Malawi by Edward Misanjo and Henry Kadzuwa
	Application of Local Indigenous Knowledge Systems and Practices (LIKSPs) in Developing Climate Change Adaptation Strategies in the Health Sector in Malawi by M.S. Chavula
	Infrastructure, Energy, Transport and Engineering
	Paper Presentations and Discussion
	Factors that trigger physical asset management practices at water boards in Malawi by Stanford Msongole
	Production and characterization of non-carbonized briquettes from baobab fruit shells and mixture with other biomass materials in Malawi by Dalitso Kafumbuta
PARALLEL SESSION 2:	

9:00–10:00	Health, Population and Nutrition
<i>Chairperson :</i> <i>Rapporteurs :</i>	<i>Dr Collins Mitambo</i> <i>Dr Dzinkambani Kambalame and Ms Monalisa Chizinga</i>
9:00 – 10:00	Paper Presentations and Discussions
Round 1 9:00 – 10:00 10 min each for presentation and 20 min for general discussions	Healthcare workers’ learning needs in caring for critically ill covid-19 patients at a tertiary hospital in Malawi by Beatrice Gundo
	Cancer-Associated Malnutrition, Cachexia, and Dietary Intake of Adult Out-patients Undergoing Chemotherapy at the National Cancer Center in Malawi by Chipiliro Danayo
	Comparison of the nutritional quality of open sun dried and solar dried usipa (engraulicypris sardella) of lake Malawi along the value chain by Dorothy Banda
	In vitro evaluation of the activities of abelmoschus esculentus morus nigra and parkia filicoidea, dicoma anomala, and tacca leontopetaloides extracts on trypsin by Elias Bonya
10:00-10:20	HEALTH BREAK
	Paper Presentations and Discussion Continued
Round 2 10:20 – 11:40 10 min each for presentation and 30 min for discussions	Anaemia not iron deficiency at delivery is associated with early postpartum depression among Malawian women; a nested cross-sectional study by Enerst Moya
	Despite having mosquito nets, we still get malaria”: inadequate use of nets and factors influencing use among school-aged children (6 to 15 year olds) by Faith Nankasa Mambulu-Chikankheni
	Efficacy of care group model on improving nutrition knowledge, dietary practice and nutritional status of pregnant and lactating adolescents, and children aged 0-23 months in Mchinji district, Malawi by Gloria Chigona
	Perceptions of healthy eating and healthy body among semi-urban residents: a case study of Ndirande township in Lilongwe by Henry Banda
	Improving genexpert utilization using the model for improvement: a quality improvement study in Mzuzu, Malawi by Jonathan Manjamanda
PLENARY SESSION II-Main Hall	
11:40-12:40	Closing Ceremony
<i>Chairperson</i> <i>Rapporteurs</i>	<i>Dr Andrew Jamali</i> <i>Mr Frank Kamanga and Mr Thomas Kaluvi</i>
	<ul style="list-style-type: none"> • General conference recommendations by Mr Isaac Chingota • Remarks by Director of Knowledge and Learning ,NPC, Dr. Joseph Nagoli • Remarks by Acting Director General NCST, Mrs Gift Kadzamira • Closing Remarks by the Secretary for Education, Mrs Chikondano Mussa
LUNCH	

END OF 4TH NATIONAL RESEARCH DISSEMINATION CONFERENCE