



MAKERERE UNIVERSITY



## TWO DECADES OF UGANDA-SWEDEN RESEARCH COOPERATION

INTERNATIONAL RESEARCH AND INNOVATIONS DISSEMINATION CONFERENCE,  
MAY 9 - 10, 2022 AT SPEKE RESORT MUNYONYO, KAMPALA

### PROGRAMME

DAY 1 – MONDAY MAY 9 <sup>TH</sup> , 2022	
<b>MORNING SESSION: 08:00 - 12:45</b>	
<b>VENUE: SPEKE BALL ROOM</b>	
08:00 – 09:00	Registration of participants
09:00 – 10:30	<b>OPENING SESSION:</b> Chairperson – Director of Research and Overall Programme Coordinator, Makerere University, <b>Prof. Buyinza Mukadasi</b>
	<ul style="list-style-type: none"><li>• The Uganda National Anthem</li><li>• East African Community Anthem</li><li>• Anthem of the Government of Sweden</li><li>• Makerere University Anthem</li></ul>
	Remarks by the Vice Chancellor, Makerere University, <b>Prof. Barnabas Nawangwe</b>
	Remarks by the Chairperson of the University Council, <b>Mrs. Lorna Magara</b>
	Remarks by the Head of Development Cooperation, Embassy of Sweden, Kampala; <b>Mr. Ola Hällgren</b>
	Remarks by the Minister for Science, Technology and Innovations, <b>Hon. Dr Monica Musenero</b>
	Address by the Chief Guest, Minister of Education and Sports, <b>Hon. Janet Kataaha Museveni</b>
<b>10:30 – 11:00</b>	<b>HEALTH BREAK</b>
11:00 – 11:30	Key Note Speaker: <b>Dr. Stefan Swartling Peterson</b> Professor of Global Transformations for Health at Karolinska Institutet and a Health Specialist at UNICEF Sweden.
11.30 – 12.00	Evaluation of the Uganda-Sweden Research Cooperation, <b>Dr. Francis Tusbira</b> , Knowledge Consulting Ltd. Uganda
12:00 – 12:45	Discussion
<b>12:45 – 14:00</b>	<b>LUNCH BREAK</b>

### BREAK OUT/PARALLEL SESSIONS

**SUB-THEME 1: NATURAL RESOURCE UTILIZATION, ENERGY AND ENVIRONMENTAL SUSTAINABILITY**

<b>CHAIRPERSON: Prof. Samuel Kyamanywa</b>	
<b>VENUE: Regal Hall</b>	
14:00 - 14:15	Aloe species used in traditional medicine in East Africa
14:15 – 14:30	Role of ASFV latently infected pigs and soft ticks in African swine fever epidemiology in Gulu district, northern Uganda
14:30 – 14:45	'Possession by Dispossession': Investigating the New Wave of oil-linked Land Deals in Uganda
14:45 – 15:00	Evaluation of the potential of medicinal plants used in skin protection
15:00 – 15:15	Influence of Farmers' Practices on Fall Armyworm Infestation Levels in Maize Fields.
15:15-15:30	Utilization of non-conventional animal waste as feeds by multiple-species livestock farmers in Lake Victoria crescent of Uganda
15:30-15:45	Spatial and temporal solar radiation variation analysis using measured data in Uganda
<b>15:45 – 16:00</b>	<b>HEALTH BREAK</b>
<b>SUB-THEME 2: AGRICULTURE FOOD SECURITY, SAFETY AND VALUE ADDITION</b>	
16:00 – 16:15	Spatial Differentiation of the Land Footprint for Cooking Banana Consumption in Kampala City: Implications for Urban Food Sustainability
16:15 – 16:30	The effect of trust among farmers and traders on supply chain performance in the agri-food value chain: the mediating role of transaction cost
16:30 – 16:45	Farmer choice and investments in nutrient-dense crops and implication on household nutrition
16:45- 17:00	Comparative Effectiveness of Forage and Food Legume Intercrops in Management of Maize Field Insect Pests, and Crop Performance

<b>SUB-THEME 2: AGRICULTURE FOOD SECURITY, SAFETY AND VALUE ADDITION</b>	
<b>CHAIRPERSON: Prof. John David Kabasa</b>	
<b>VENUE: Royal Hall</b>	
14:00 - 14:15	Adoption of multiple combinations of sustainable intensification practices in the maize-based cropping systems in Eastern Uganda
14:15 – 14:30	Characterization of smallholder multiple-species livestock production systems in parts of Lake Victoria Crescent of Central Uganda
14:30 – 14:45	Does market access stimulate sustainable intensification? Evidence from smallholder maize farmers in eastern Uganda
14:45 – 15:00	Effect of Integrated Cooperative Model on performance of cooperatives in produce bulking and credit provision
15:00 – 15:15	Effect of planting time and treated sawdust on termites' control in maize
15: 15-15:30	Farmer-trader relationships in the context of developing countries: a dyadic analysis to understand variations in trust perceptions
15:30-15:45	Validating the climate smart agronomic practices adopted by smallholder maize farmers to cope with climate variability in eastern Uganda
<b>15:45 – 16:00</b>	<b>HEALTH BREAK</b>
<b>SUB-THEME 6: ADVANCES IN EDUCATION, SCIENCE AND TECHNOLOGY</b>	
16:00 – 16:15	Using Imputation Techniques to Improve prediction on an Imbalanced Pneumonia Dataset
16:30 – 16:45	Predictors of Research Productivity of Academic Staff in Kyambogo University: An Empirical Study Based on Mantikayan and Abdulgani's (2018) Model
16:45 – 17:00	Role of Higher School Education in Enhancing Economic Growth, Innovation and Technological Progress in Uganda (1970–2014)

<b>SUB-THEME 3: ONE HEALTH, HEALTH PROMOTION AND HEALTH SYSTEMS</b>	
<b>CHAIRPERSON: Prof. Joan Kalyango</b>	
<b>VENUE: Victoria Ball Room</b>	
14:00 - 14:15	Spatial-Temporal Trends and Distribution Patterns of Typhoid Disease in Uganda from 2012 to 2017
14:15 – 14:30	ABO and Rh antigen distribution among pregnant women in south western Uganda
14:30 – 14:45	Anti-venom potentials A qualitative exploratory interview study on birth companion support actions for women during childbirth
14:45 – 15:00	Antibiotic-resistance in medically important bacteria isolated from commercial herbal medicines in Africa from 2000 to 2021
15:00 – 15:15	Antimicrobial stewardship: Adopted hospital policy actions to combat antibacterial resistance in hospitals of Uganda.
15:15-15:40	Discussions
<b>15:40 – 16:00</b>	<b>HEALTH BREAK</b>
16:00 – 16:15	Antimicrobial stewardship: Attitudes and practices of healthcare providers in selected health facilities in Uganda
16:15 – 16:30	Antiviral activity of Ugandan medicinal plants against human immunodeficiency virus type-1 (HIV-1)
16:30 – 16:45	Application of the Anatomical Chemical System / Defined Daily Doses: Challenges and way forward for resource limited countries
16:45-17:00	Discussions
<b>DAY 2 – TUESDAY 10<sup>TH</sup> APRIL, 2022</b>	
<b>MORNING SESSION 9:00 -12:20</b>	

<b>SUB-THEME 4: CULTURE, SOCIO-ECONOMIC DEVELOPMENT, GOVERNANCE, CONFLICT AND SOCIAL JUSTICE</b>	
<b>CHAIRPERSON: Prof. Umar Kakumba</b>	
<b>VENUE: Regal Hall</b>	
9:00 -9:15	Bridging the Youth Livelihood Gap through Social Entrepreneurship: Insights from Youth Livelihood Programme in Uganda
9:15 – 9:30	Exploring the measurement of Public Procurement Performance Expectations Gap in community Roadworks in Uganda: Evidence from Comprehensive survey
9:30 – 9:45	Language Variances in Defining Young Women in Northern Uganda Humanitarian Setting
9:45 – 10:00	Understanding Child vulnerability in Rural Uganda: Determinants of vulnerability transition
10:00-10:15	The role of culture in influencing sexual and reproductive health of pastoral adolescent girls in Karamoja sub-region in Uganda
<b>10:20 – 11:00</b>	<b>HEALTH BREAK</b>
<b>SUB-THEME 3: ONE HEALTH, HEALTH PROMOTION AND HEALTH SYSTEMS</b>	
11:00 – 11:15	Prediction of perinatal death in Gulu city, Northern Uganda
11:15 – 11:30	Risk factors and prediction models for preeclampsia in Northern Uganda
11:30 – 11:45	Tick virome analysis: a potential strategy for discovering and surveying tick borne viruses
11:45 – 12:00	Appropriateness of pediatric care at low-level private health facilities in Mbarara
12:00-12:20	Discussions
<b>12:20 – 14:00</b>	<b>LUNCH BREAK</b>

<b>SUB-THEME 5: CLIMATE CHANGE AND DISASTER MANAGEMENT</b>	
<b>CHAIRPERSON: Prof. Gorretie Nabanoga</b>	
<b>VENUE: Royal Hall</b>	
9:00 - 9:15	Determinants of household coping to flood risks in a high exposure system of Manafwa catchment, Lake Kyoga Basin
9:15 – 9:30	Positive effects from Payment for Environmental Services (PES) do not last
9:30 – 9:45	Regional Validation of Satellite Rainfall Products over Uganda
9:45 – 10:00	Thermal acclimation effects on aerobic performance in the critically endangered <i>Oreochromis esculentus</i> . Implications for species conservation
10:00-10:20	Discussions
<b>10:20 – 11:00</b>	<b>HEALTH BREAK</b>
<b>SUBTHEME 3: ONE HEALTH, HEALTH PROMOTION AND HEALTH SYSTEMS</b>	
11:00 – 11:15	Extensive inappropriate antibiotic prescriptions by unauthorized personnel in two districts of South-western Uganda: A potential driver to resistance
11:15 – 11:30	G-Therapy: A Classical Mechanical Resonance Tool for HIV Cure
11:30 – 11:45	Identifying behavioral determinants of handwashing in rural South Western Uganda: a quantitative cross-sectional survey
11:45 – 12:00	Implementing clinical guidelines to promote integration of mental health into primary healthcare: a qualitative study of a systems policy in Uganda
12:00-12:20	Discussions
<b>12:20 – 14:00</b>	<b>LUNCH BREAK</b>

<b>SUB-THEME 6: ADVANCES IN EDUCATION, SCIENCE AND TECHNOLOGY</b>	
<b>CHAIRPERSON: Prof. Henry Alinaitwe</b>	
<b>VENUE: Victoria Ball Room</b>	
9:00 -9:15	A Mathematical Model for Dynamic Stochastic Asset Liability Management of Uganda's Retirement Benefit Schemes
9:15 – 9:30	Employability Skills and Literacy: The Missing Link in Sustainable Employment for Uganda's 21st Century Civil Engineering University Graduates
9:30 – 9:45	Higher Education, labour market and Economic growth e Uganda (1985-2017).
9:45 – 10:00	Packet Tracer Simulation ELearning Technology for Enhanced Higher Order Cognitive Skills
10:00-10:15	Programming robots for activities of everyday life
10:15-10:30	Discussions
<b>10:30 – 11:00</b>	<b>HEALTH BREAK</b>
11:00 – 11:15	Using the European Customer Satisfaction Index (ECSI) Model To Explain Student Satisfaction in Universities in Uganda
11:15 – 11:30	Discriminant Validity of Performance Factors for Evaluating Electronic Health Information Systems.
11:30 – 11:45	Peaks are Preserved under Run-Sorting
11:45 – 12:00	Performance Analysis of 1.6 MWp Bukuzindu Hybrid PV- Diesel Power plant in Kalangala District of Uganda.
12:00-12:20	Discussions
<b>12:20 – 14:00</b>	<b>LUNCH BREAK</b>

<b>AFTERNOON SESSION 14:10 - 17:00</b>	
<b>SUB-THEME 3: ONE HEALTH, HEALTH PROMOTION AND HEALTH SYSTEMS</b>	
<b>CHAIRPERSON: Prof. James Tumwine</b>	
<b>VENUE: Victoria Ball Room</b>	
14:00 - 14:15	Prescriber's Knowledge and Attitudes Toward the Use of Treatment Guidelines in Management of Childhood Illnesses in Northern Uganda
14:15 – 14:30	Appropriateness of paediatric care at low-level private health facilities in Mbarara
14:30 – 14:45	Automated Diagnosis of Malaria in Thick Blood Smear Films: Deep Neural Network Approach
14:45 – 15:00	Benefits of and Barriers to Male Involvement in Maternal Health care in Ibanda District, Southwestern, Uganda
15:00 – 15:15	Type 2 Diabetes testing in eastern Uganda: A contextualized evaluation of available Point-of-Care tests
15:15-15:40	Discussions
<b>15:40 – 16:00</b>	<b>HEALTH BREAK</b>
16:00 – 16:15	Factors associated with birth asphyxia among term singleton births at two referral hospitals in Northern Uganda: a cross sectional study
16:15 – 16:30	Neonatal hypothermia: Prevalence and assessment of Warm chain Practices in Lira Regional Referral Hospital
16:30-16:45	<b>Discussions</b>
<b>16:45 – 17:30</b>	<b>CLOSING CEREMONY – VICTORIA BALL ROOM</b>

<b>SUB-THEME 7: GENDER AND WOMEN'S EMPOWERMENT</b>	
<b>CHAIRPERSON: Prof. Consolata Kabonesa</b>	
<b>VENUE: Regal Hall</b>	
14:00 - 14:15	A Gender Analysis of Academic Parents' Roles Towards Female and Male Students' Participation in Secondary School Education In Arua District
14:15 – 14:30	Gender Mainstreaming in Uganda: A case study of the Local Government
14:30 – 14:45	How women protect land rights in Amuru District.
14:45 – 15:00	Institutional Support Strategies for Academic Career Progression among Female Lecturers: A case of Kyambogo University.
15:00 – 15:15	Motives of Women Members of Parliament on Reserved and Open seats in Uganda
15:15-15:30	For many years, since the revival of the modern Olympic Games in 1894, the leadership in the Intern
15:30-15:40	Discussions
<b>15:40 – 16:00</b>	<b>HEALTH BREAK</b>
16:00 – 16:15	Unpacking Institutional triggers of Officer perpetrated Intimate Partner Violence against Female civilian spouses in police families in Uganda.
16:15-16:30	"It is such a shameful experience...": Barriers to Help-Seeking by Male Survivors of Intimate Partner Violence in Uganda
16:30-16:45	<b>Discussions</b>
<b>16:45 – 17:30</b>	<b>CLOSING CEREMONY – VICTORIA BALL ROOM</b>
<b>SUB-THEME 3: ICT, LIBRARY, RESEARCH ENVIRONMENT AND KNOWLEDGE TRANSLATION</b>	
<b>CHAIRPERSON: Prof. Tonny Oyana</b>	
<b>VENUE: Royal Hall</b>	
14:00 - 14:15	Characteristics of antimicrobial stewardship programmes in hospitals of Uganda

14:15 – 14:30	Cytotoxicity of medicinal plant species used by traditional healers in treating people suffering from HIV/AIDS in Uganda
14:30 – 14:45	Designing healthcare platforms for value co-creation
14:45 – 15:00	Effect of Peer Counselling on Acceptance of and Adherence to Modern Contraceptives Among Female Refugee Adolescents in Northern Uganda
15:00 – 15:15	Effect of spice form and extraction period on Total Phenolic Content of Selected Ugandan Spices
15:15-15:40	Discussions
<b>15:40 – 16:00</b>	<b>HEALTH BREAK</b>
16.00-16.15	Farmer's Willingness to pay for ICT-Based Information for Marketing of cereals in Northern Uganda
16:15-16:30	The State of IT Governance in Uganda's Higher Institutions of Learning
16:30-16:45	Information sources consulted by prospective university students: Selecting higher education institutions in Uganda
<b>16:45 – 17:30</b>	<b>CLOSING CEREMONY AND AWARD OF CERTIFICATES – VICTORIA BALL ROOM</b>
16.45 – 17.00	Closing remarks by First Secretary in-Charge of Research Cooperation, Embassy of Sweden, <b>Dr. Gity Behravan</b>
17.00 – 17.20	Closing remarks by the Vice Chancellor, Makerere University, <b>Prof. Barnabas Nawangwe</b>