

**CLIMATE CHANGE, EXTREME EVENTS, PUBLIC HEALTH & RESETTLEMENT IN MALAWI:  
PUBLIC, POLICY, SCIENCE & TECHNOLOGY PERSPECTIVES, LEVERAGING DEEP LEARNING  
AND DATA SCIENCE SOLUTIONS**

August 24 - 25, 2023

<https://ml.mw>

<https://www.yorku.ca/cifal/relocation-symposium>

ICI, ODL and Business Center at The Malawi University of Business and Applied Science

**Program**

**Symposium**  
Jointly organized with IndabaX Malawi & Center for Artificial Intelligence

**Climate Change, Extreme Events, Public Health & Relocation in Malawi**  
Public, Policy, Science & Technology Perspectives  
Leveraging Deep Learning & Data Science Solutions

**August 24-25**

Malawi University of Business and Applied Sciences  
Blantyre | Malawi

**Hybrid**

[www.yorku.ca/cifal/relocation-symposium](http://www.yorku.ca/cifal/relocation-symposium)

Logos: DAHDALEH INSTITUTE FOR GLOBAL HEALTH RESEARCH, MUBAS, MUST, Malawi, INDABAX, lead Southern & Eastern Africa, GLOBAL SOUTH SAFETY NETWORK FOR GLOBAL RESILIENCE, inq, YORK UNIVERSITY, cifal York, unitar United Nations Institute for Training and Research

DAY 1 THURSDAY AUGUST 24 9:00AM-4:30PM (GMT+1)  
CLIMATE CHANGE, EXTREME EVENTS, PUBLIC HEALTH & RESETTLEMENT/RELOCATION IN  
MALAWI SYMPOSIUM: UNDERSTANDING THE PROBLEMS

Registration: 8:30-9:00

09:00-09:10 Welcome Notes

**Speakers:** Professor M. Kamndaya, Executive Dean of Faculty of Applied Science, MUBAS

SESSION 1

9:10AM-10:30 AM: CLIMATE CHANGE, EXTREME EVENTS AND PUBLIC HEALTH

**CHAIR:** ALI ASGARY, YORK UNIVERSITY

**Speaker 1:** Faides Mwale, T. Chakwantha and S. Manda

**Title:** Disaster Risk Management in Malawi and the Disaster Management Framework: Insights from Cyclone Freddy

**Speaker 2:** Tabata Fioretto, IMO

**Title:** Multisectorial assessment, safe and dignified relocation process: Pilot Relocation Plan Chiradzulu

**Speaker 3:** Amelia Taylor, MUBAS

**Title:** Machine Learning for Climate Science and Earth Observation

10:30-11:00 Coffee Break & Networking

SESSION 2

11:00 AM-12:30 PM: POLICY & RESEARCH PRESENTATIONS: EXAMINING CLIMATE CHANGE, EXTREME  
EVENTS AND RESETTLEMENT CHALLENGES

**CHAIR:** DICKSON CHINGUWO

**Speakers 1:** Sosten Chiotha, James Orbinski, Ali Asgary, Mohammadali Tofighi, & Jochen Schubert and Richard Mathews

**Title:** Modelling Climate Change & Public Health in Lake Chilwa Basin

**Speaker 2:** Dennis Amadi, Health Emergencies Officer, World Health Organization

**Title:** Unveiling the Shifting Landscape of Disease Trends: A DHIS2 Analysis Spanning 2020 to March 2023 immediate after cyclone Freddy

12:30-01:30 Lunch & Networking

### SESSION 3

**1:30PM-2:30PM PUBLIC ENGAGEMENT & AWARENESS**

**CHAIR: JAMES ORBINSKI**

**Speaker 1:** Ali Asgary & Tabata Fioretto

**Title:** Road to Resettlement Game.

**Speaker 2:** Goodall Salima, Inq Inc.

**Title:** Leveraging AI and Machine Learning to provide an affordable Next Generation Firewall with inq Secure

**Speaker 3:** Hope Chilunga

**Title:** A practical Drone Flight & Demo

**2:30 PM - 3:00 PM Coffee Break & Networking**

### SESSION 4

**3:00 – 4:00 CLIMATE CHANGE: WEATHER PREDICTION AND ACCESS TO HEALTHCARE**

**CHAIR: FAIDES MWALE**

**Speaker 1:** Robert Galatiya Suya, Lecturer, Malawi University of Business and Applied Sciences (MUBAS) (remote)

**Title:** Unravelling Weather Prediction through Deep Learning and GNSS Approaches in Malawi

**Speaker 2:** Mulekya Francis, Regional Migration Health Programme Coordinator, IOM

**Title:** Promoting cross-border migrants' access to healthcare within the climate change-migration context: experiences of migrants and stakeholders in seven neighbouring countries in Southern Africa (Remote)

**Speaker 3:** Walgak Chuol, Environment and Climate Change Specialist, INTERCEDE

**Title:** Impact of climate change in less developing nations (Remote)

DAY 2 FRIDAY AUGUST 25 9:00AM-4:00PM (EST)  
CLIMATE CHANGE, EXTREME EVENTS, PUBLIC HEALTH & RESETTLEMENT/RELOCATION IN  
SOUTHERN MALAWI SYMPOSIUM: PROBLEM SOLUTIONS

09:00-09:10 Welcome Notes

SESSION 1

9:10 AM-10:30 AM: EXAMINING POTENTIAL TECHNOLOGY SOLUTIONS AND METHODOLOGIES  
FOR CLIMATE CHANGE, EXTREME EVENTS, PUBLIC HEALTH, AND RESETTLEMENT  
CHAIR: AMELIA TAYLOR

**Speaker 1:** Charles Chimwemwe Phiri, Executive Director - SME AI/ML Innovation, JP Morgan Chase & Co.

**Title:** *Harnessing Technology to Address the Emerging Challenges*

**Speaker 2:** Dickson Chinguwo

**Title:** *Using Masdap platform to obtain datasets*

**Speaker 3:** Carl Bruesow, Chairman of the Mulanje Conservation Trust, Malawi

**Title:** *TBA*

**Speaker 4:** Patrick Kalonde, PhD Student, Malawi-Liverpool Wellcome Trust

**Title:** *Flood Mapping in Malawi: Unleashing the Power of Every Tool in Our Arsenal!*

10:30 AM -11:00 AM Coffee Break, Networking

SESSION 2

11:00 AM-1:00 PM: SCIENTIFIC & TECHNOLOGICAL SOLUTIONS (DEEP LEARNING, DATA  
SCIENCE, SIMULATION AND MODELING) PRESENTATIONS & WORKSHOPS  
CHAIR: RICHARD MATHEWS, UNIVERSITY OF CALIFORNIA IRVINE

**Speaker 1:** Ndapile Mkuwu, African Drone & Data Academy

**Title:** *Elevating Risk & Disaster Management through Drones*

**Speaker 2:** Ali Asgary

**Title:** *Virtual Reality Simulation of Chiradzulu Landslide with Live Demo*

**Speaker 3:** Clinton, Nkolokosa, Geospatial Analyst, MSc Research Fellow, Malawi-Liverpool-Wellcome Programme

**Title:** *AI-assisted segmentation of flood water from a drone imagery: A case of Kachulu, Lake Chilwa Basin of Malawi*

**Speaker 4:** Mathews Jere, Student University of Malawi

**Title:** *Improving Mobile-Based Early Skin Disease Diagnosis for Melanin-Rich Skins*

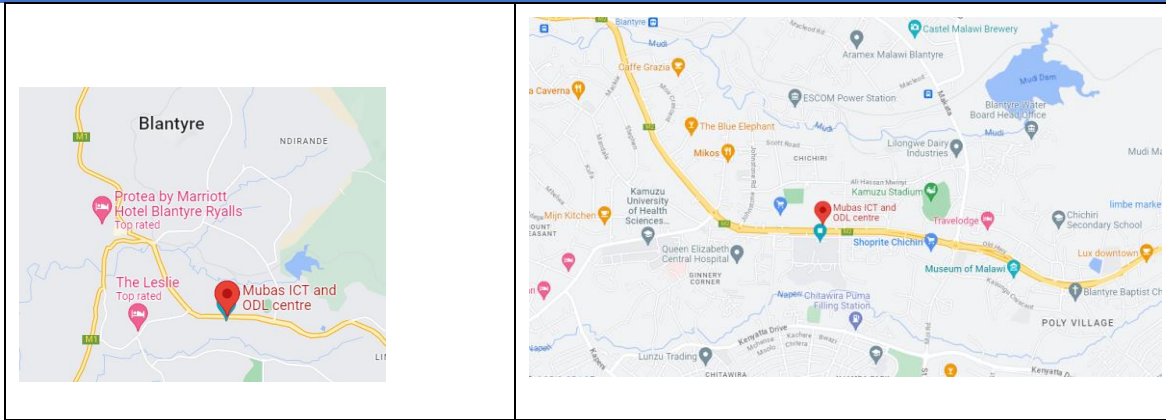
**Speaker 5:** Hugues Burrows, UNICEF

**Title:** *Observations and reflections on the IPC/WASH situation in CTC/CTUs in the Lilongwe and Blantyre districts*

12:30Pm-1:30PM Lunch Break and Networking

## Location Map

### MUBAS ICT AND ODL CENTRE



**Zoom Link:**

**Join Zoom Meeting**

**<https://us02web.zoom.us/j/86542989509?pwd=WitLMWI3dEM4cjE5TTVqcIRvYzFkUT09>**

**Meeting ID: 865 4298 9509**

**Passcode: 920797**