



**SOCIETY FOR THE ADVANCEMENT
OF SCIENCE IN AFRICA**
PUSHING THE FRONTIERS OF SCIENCE



2025 SASA CONFERENCE PROGRAMME - FRI 25TH-SAT 26TH APRIL 2025

FRIDAY 25TH APRIL 2025

2025 SASA CONFERENCE PROGRAMME

DAY 1

Time	Activity	Responsible Person
MAIN PLENARY SESSION		
https://lut.zoom.us/j/62906973138?pwd=5OsNbHamfvkGbQ2gYGt2mkatdNzJpk.1		
1.00 pm-1:10 pm	Prayer	Ms. Patricia Kyomugisha, SASA LOC member
1:10 pm – 1:30 pm	Welcome – call to order	Moderator: Mr. Godfrey Sempungu, Head of Kabale University Communication, Branding & Marketing Department
1:30 pm – 2:00 pm	Opening Remarks	Prof. Joy C Kwesiga, Vice Chancellor, Kabale University
2:00 pm– 2:20 pm	The Role of SASA	Prof. Emilio Ovuga, SASA President
2:20 pm-2:40 pm	Overview of the SASA Conference 2025	Prof. Joachim Kapalanga, SASA Executive Director
2:40 pm– 3:10 pm	Key note Address 1 Title of Presentation: Institutional Intelligence: Embedding Strategic Foresight to Enhance UNEP’s Scientific Edge	Mr. Jason Jabbour, Chief Scientist, United Nations Environmental Programme (UNEP).
3:10 pm– 3:30 pm	BREAK (Moving to Parallel Sessions)	
PARALLEL SESSION 1: SUB-THEME—<i>PROMOTING SUSTAINABLE UTILIZATION AND CONSERVATION OF BIODIVERSITY IN AFRICA</i> ROOM 1 SESSION CHAIR: PROFESSOR DENIS SEKIWU TECHNICAL PERSON: Mr. SIMON PETER MAKOBI		
Time	Titles	Presenters
3:30 pm– 3:40 pm	Preamble by session chair	
3:40 pm– 3:55 pm	Application of Invitro propagation techniques and Smart farming systems for germplasm conservation of vulnerable, threatened and endangered medicinal plant species; A case of Africa and South Korea	Kenneth Happy Roggers Gang Denis Okello Richard Komakech Youngmin Kang

3:55 pm- 4:05 pm	Q&A	
4:05 pm –4:20 pm	Constraints in implementing Ecosystem Restoration to Address Sustainable Development Challenges in Uganda	Julius Arinaitwe
4:20 pm-4: 30 pm	Q&A	
4:30 pm-4:45pm	Is Africa adopting Biotechnology to preserve its rapidly disappearing medicinal plant resources?	Hallan Opong Denis Okello
4:45 pm-4:55 pm	Q&A	
4:55 pm – 5:15 pm	Assessment of Rushebeya-Kanyabaha Wetland for key Biodiversity area designation based on Papyrus Endemic Birds-SEBU Project lessons	Loy Natukunda
5:15 pm – 5:25 pm	Q&A	
5:25 pm– 6:05 pm	GUEST SPEAKER 2	
5:25 pm – 5:35 pm	Introduction of Guest speaker	Dr. Isabella Epiu, Head of Department of Anesthesia & Critical Care Medicine, Kabale University
5:35 pm– 6:05 pm	Guest Speaker	Dr. Barirega Akankwasa, Executive Director-National Environment Management Authority (NEMA)
6:10 pm	CLOSURE	
<p>PARALLEL SESSION 2: SUB-THEME—MITIGATING CLIMATE CHANGE: CLIMATE SOLUTIONS TOWARDS HOLISTIC WELL BEING IN AFRICA</p> <p>ROOM 2</p> <p>SESSION CHAIR: DR. DANIEL BUYINZA</p> <p>TECHNICAL PERSON: Mr. CEPHAS NZAANA</p>		
Time	Titles	Presenters
3:30 pm– 3:40 pm	Preamble by session chair	
3:40 pm– 3:55 pm	Determinants of climate change adaptation strategies among Cassava farmers in Owerre-West, Lga, Imo State, Nigeria	Yusuf Jednah
3:55 pm- 4:05 pm	Q&A	
4:05 pm –4:20 pm	Adaptation approaches to climate change mitigation for sustainable livelihoods in Africa: A case of Lwakhakha Sub Catchment in Elgon Region, Uganda	Henry Mbowa
4:20 pm-4: 30 pm	Q&A	
4:30 pm-4:45pm	Effects of Newspaper frames on the Consumption of Disaster Communication: Case of Displaced women in resettlement camps in Eastern Uganda	Caroline Nabuzale

4:45 pm-4:55 pm	Q&A	
4:55 pm – 5:15 pm	Perspectives on Provincial Climate Change Mitigation in South Africa	Wasswa Nsubuga
5:15 pm – 5:25 pm	Q&A	
5:25 pm– 6:05 pm	GUEST SPEAKER 2	
5:25 pm – 5:35 pm	Introduction of Guest speaker	Dr. Isabella Epiu, Head of Department of Anesthesia & Critical Care Medicine, Kabale University
5:35 pm– 6:05 pm	Keynote address from Guest Speaker	Dr. Barirega Akankwasa, Executive Director National Environment Management Authority (NEMA)
6:10 pm	CLOSURE	
PARALLEL SESSION 3: SUB-THEME— <i>CONTROLLING COMMUNICABLE AND NON-COMMUNICABLE DISEASES</i> ROOM 3 SESSION CHAIR: PROFESSOR JOACHIM KAPALANGA TECHNICAL PERSON: Mr. IVAN WASSWA		
Time	Titles	Presenters
3:30 pm– 3:40 pm	Preamble by session chair	
3:40 pm– 3:55 pm	Anticancer Potential of Durmillone against Human Lung Adenocarcinoma Cell Line	Daniel Buyinza
3:55 pm- 4:05 pm	Q&A	
4:05 pm –4:20 pm	The adoption of contracts records management, research and development to increase value for money in Public Health facilities in Uganda. A Case Study Kabale District	Akakikunda
4:20 pm-4: 30 pm	Q&A	
4:30 pm-4:45pm	Simulation Training in Anaesthesia: Trainee Perspectives and Challenges in a Low-Resource Ugandan Setting	Isabella Epiu
4:45 pm-4:55 pm	Q&A	
4:55 pm – 5:15 pm	Challenges in the Proliferation of African Indigenous Medicine for Community Development in Uganda: A case study of Greater Mbarara District	Godfrey Barigye
5:15 pm – 5:25 pm	Q&A	
5:25 pm– 6:05 pm	GUEST SPEAKER 2	
5:25 pm – 5:35 pm	Introduction of Guest speaker	Dr. Isabella Epiu, Head of Department of Anesthesia & Critical Care Medicine, Kabale University
5:35 pm– 6:05 pm	Guest Speaker	Dr. Barirega Akankwasa, Executive Director National Environment Management Authority (NEMA)

6:10 pm	CLOSURE	
PARALLEL SESSION 4: SUB-THEME— <i>PROMOTING POLICY DEVELOPMENT, IMPLEMENTATION AND/OR ADAPTATIONS</i> ROOM 4 SESSION CHAIR: DR. MICHEAL TUAPE, LUT UNIVERSITY TECHNICAL PERSON: Ms. DOREEN TUSHABOMWE		
Time	Titles	Presenters
3:30 pm– 3:40 pm	Preamble by session chair	
3:40 pm– 3:55 pm	University-Community collaboration and enterprise for Sustainable Community Development in the Pearl of Africa	Kiiza & Hildbrade
3:55 pm- 4:05 pm	Q&A	
4:05 pm –4:20 pm	Promoting Policy Development, Implementation, and Adaptation for Mt. Elgon, Uganda	Mwayafu Sanyu Mboya
4:20 pm-4: 30 pm	Q&A	
4:30 pm-4:45pm	Locking the Potential of Science across Africa to Mitigate the Impact of Climate Change and Create Regenerative Solutions for Holistic Well-Being: Promoting Policy Development and Implementation	Cornel Wekhoye
4:45 pm-4:55 pm	Q&A	
4:55 pm – 5:15 pm	Reverse Technology: The Sure Way to Product Development-the Case of KABRITIS	Daniel Buyinza
5:15 pm – 5:25 pm	Q&A	
5:25 pm– 6:05 pm	GUEST SPEAKER 2	
5:25 pm – 5:35 pm	Introduction of Guest speaker	Dr. Isabella Epiu, Head of Department of Anesthesia & Critical Care Medicine, Kabale University
5:35 pm– 6:05 pm	Guest Speaker	Dr. Barirega Akankwasa, Executive Director National Environment Management Authority (NEMA)
6:10 pm	CLOSURE	
PARALLEL SESSION 5: SUB-THEME— <i>PROMOTING COMMUNAL AND CORPORATE AGRICULTURE FOR FOOD SECURITY</i> ROOM 1, AGRICULTURE SESSION CHAIR: DR JOSEPH SSEKANDI TECHNICAL PERSON: Mr. MICHAEL MUTEBI		
Time	Titles	Presenters
3:30 pm– 3:40 pm	Preamble by session chair	
3:40 pm– 3:55 pm	Analysis of crop farmers’ perception on effect of climate change on crop	Yusuf Jednah

	production in Chanchaga and Bida Local Government areas, Niger State, Nigeria	
3:55 pm- 4:05 pm	Q&A	
4:05 pm –4:20 pm	Perceptions and coping strategies of fish farming communities to climate change. A case from Lira District in Uganda	Apollo Omara Sarah Kizza-Nkambwe Junior Senyonga Kasima Remigio Turyahabwe
4:20 pm-4: 30 pm	Q&A	
4:30 pm-4:45pm	Integrating Smart Agriculture and Community-Based Cooperatives for Sustainable Food Security in East Africa: A model for Rural Development	Peter Gutwa Oino
4:45 pm-4:55 pm	Q&A	
5:25 pm– 6:05 pm	GUEST SPEAKER 2	
5:25 pm – 5:35 pm	Introduction of Guest speaker	Dr. Isabella Epiu, Head of Department of Anesthesia & Critical Care Medicine, Kabale University
5:35 pm– 6:05 pm	Guest Speaker	Dr. Barirega Akankwasa, Executive Director National Environment Management Authority (NEMA)
6:10 pm	CLOSURE	
PARALLEL SESSION 6: SUB-THEME— <i>BUILDING COMMUNITY RESILIENCE TO RESPOND TO CHALLENGES IN AFRICAN SOCIETY</i> ROOM 2 SESSION CHAIR: DR. DANIEL ABIRIGA TECHNICAL PERSON: Ms. Patricia Kyomugisha		
Time	Titles	Presenters
3:30 pm– 3:40 pm	Preamble by session chair	
3:40 pm– 3:55 pm	Building Community Resilience to the impact of Climate Change through improved WASH services in Africa: A Case from Zamfara state in North Western Nigeria	Usman Rogo Kabiru
3:55 pm- 4:05 pm	Q&A	
4:05 pm –4:20 pm	Climate Change and Community Resilience in Uganda	George Mugavu
4:20 pm-4: 30 pm	Q&A	
4:30 pm-4:45pm	Climate Change, Refugee Self-Reliance, and Science-based solutions in Nakivale Refugee Settlement, Uganda	Jenipher Tino
4:45 pm-4:55 pm	Q&A	

4:55 pm – 5:15 pm	Building community resilience to respond to challenges in African society	Uwimana Annah Besigye
5:15 pm – 5:25 pm	Q&A	
5:25 pm– 6:05 pm	GUEST SPEAKER	
5:25 pm – 5:35 pm	Introduction of Guest speaker	Dr. Isabella Epiu, Head of Department of Anesthesia & Critical Care Medicine, Kabale University
5:35 pm– 6:05 pm	Guest Speaker	Dr. Barirega Akankwasa, Executive Director National Environment Management Authority (NEMA)
6:05 pm	CLOSURE	

SATURDAY 26TH APRIL 2025
2025 SASA CONFERENCE PROGRAMME
DAY 2

OPENING CEREMONY (Saturday, 26th April 2025)
MAIN PLENARY SESSION

<https://lut.zoom.us/j/69070476439?pwd=p9z95ELtc7xI6XAtdKwanG9Z3WbqgU.1>

Time	Activity	Responsible Person
1:00 pm – 1:10 pm	Welcome – call to order	Moderator: Mr. Godfrey Sempungu, Head of Kabale University Communication, Branding & Marketing Department
1:10 pm -1:20 pm	Prayer	Ms. Patricia Kyomugisha, SASA LOC member
1:20 pm– 1:50 pm	Key note Address 2	Dr. Monica Musenero, Minister of Minister of Science, Technology & Innovation
1:50 pm– 2: 00 pm	BREAK (Moving to Parallel Sessions)	
PARALLEL SESSION 2: SUB-THEME— <i>MITIGATING CLIMATE CHANGE: CLIMATE SOLUTIONS TOWARDS HOLISTIC WELL BEING IN AFRICA</i> ROOM 1 SESSION CHAIR: PROFESSOR FRANCIS AKENA ADYANGA TECHNICAL PERSON: Mr. CEPHAS NZAANA		
Time	Titles	Presenters
2:00 pm– 2:10 pm	Preamble by session chair	
2:10 pm– 2:25 pm	Non-destructive assessment of climate-impacted building: A case study of a government house in Nigeria	Kabiru Usman Rogo Musaddik Haruna Shamsuddeen Usman Abbas Usman Muhammad Sani Abdulkadir

2:25 pm- 2:35 pm	Q&A	
2:35 pm –2:50 pm	Climate variability and the vulnerability of smallholder farmers in the Mountain Agroecological zone of Rubanda District, South Western Uganda	Gastone
2:50 pm-3:00 pm	Q&A	
PARALLEL SESSION 3: SUB-THEME— <i>CONTROLLING COMMUNICABLE AND NON-COMMUNICABLE DISEASES</i> ROOM 2 SESSION CHAIR: PROFESSOR JOACHIM KAPALANGA TECHNICAL PERSON: Mr. IVAN WASSWA		
Time	Titles	Presenters
2:00 pm– 2:10 pm	Preamble by session chair	
2:10 pm– 2:25 pm	A SMOTE-based deep learning Approach for Sickle Cell Detection in Low-Resolution, class-imbalanced Microscopic Images (SDL-SCD)	Kisakye Martha Jenipher Abubakhari Sserwadda Florence Tushabe
2:25 pm- 2:35 pm	Q&A	
2:00 pm– 2:10 pm	The Suzuki – Miyaura Cross-Coupling – Claisen Rearrangement – Cross-Metathesis Approach to Prenylated Isoflavones	George Kwesiga
2:10 pm– 2:25 pm	Q&A	
2:25 pm-2:40 pm	Anticonvulsant potentials of kaurenoic acid isolated from <i>Annona senegalensis</i> (<i>Pers</i>): Insights into the behavioural and N-methyl-D-aspartate receptors expression level in the hippocampus of male Wistar rats	Samuel S Dare Edgar Fernandez Mario Peter Etim Ekanem Philemon D. Shallie
2:40 pm-2:50 pm	Q&A	
2: 50 pm-3:05 pm	Assessment of the Level of Awareness of Tetanus Toxoid Vaccination, Uptake Status and Associated Factors among Female Students of Kabale University, Uganda.	Ndagano Hillary Dare Samuel Sunday Immaculate Manderu Tumusiime Alex
3.05 pm-3.15 pm	Q&A	
PARALLEL SESSION 7: SUB-THEME— <i>PROMOTING SUSTAINABLE UTILIZATION AND CONSERVATION OF BIODIVERSITY IN AFRICA</i> ROOM 2 SESSION CHAIR: DR. JULIUS ARINAITWE TECHNICAL PERSON: Mr. SIMON PETER MAKOBI		

Time	Titles	Presenters
2:00 pm– 2:10 pm	Preamble by session chair	
2:10 pm– 2:25 pm	Chlorpyrifos poisoning and remedial effects of Locally Manufactured Activated Charcoal (LAC) in Wistar Rats	Leila Tchassa
2:25 pm- 2:35 pm	Q&A	
2:35 pm –2:50 pm	Design of High-Performance Graphene Lead Free Perovskite Solar Cells in Tackling Energy Crisis in Africa	Ladan H.M.A Adamu, A.S Salisu, S Buba, A.D.A Umar, M Umar, A.
2:50 pm-3: 00 pm	Q&A	
3:00 pm-3:15 pm	Accessing the Wind Energy Potential for Power Generation in Northern Nigeria	Ladan H.M.A Adamu, A.S Salisu, S Buba, A.D.A Umar, M Umar, A.
3:15 pm-3:25 pm	Q&A	
3:25 pm –3:50 pm	The pyrolysis of methane for hydrogen production in the organic matter of shale reservoirs	Marengo Micheal Bakesigaki Usito
PARALLEL SESSION 9: SUB-THEME— <i>NURTURING RESEARCH AND INNOVATION TO ADDRESS CHALLENGES OF AFRICAN SOCIETY</i> ROOM 2 SESSION CHAIR: MR. GODFREY SEMPUNGU TECHNICAL PERSON: Ms. Patricia Kyomugisha		
Time	Titles	Presenters
2:00 pm– 2:10 pm	Preamble by session chair	
2:10 pm– 2:25 pm	Possibility of Obtaining High Quality Graphene Thin Films for Optoelectronic Gadgets from the Abundant Graphite in Nigeria	Ladan H.M.A Adamu, A.S Salisu, S Buba, A.D.A Umar, M Umar, A.
2:25 pm- 2:35 pm	Q&A	
2:35 pm-2:50 pm	A Comparison of Machine Learning Algorithms for Temperature Prediction in Uganda	Rashid Kisejjere Abubakhari Sserwadda
2:50 pm-3:00 pm	Q&A	
3:00 pm-3:15 pm	An Efficient Recurrent Neural Networks based model for Rainfall Prediction in Uganda: A Deep	Kizito Najib Mayanja Chelangat Specioza Anirwoth Rachel Abubakhari Sserwadda

	Learning Approach to Climate Change Mitigation	
3:15 pm-3:25 pm	Q&A	
3:25 pm-3:40 pm	Nurturing research and innovation to address the challenges of the African society: A Strategic Approach	Michael Etoru
<p align="center">PARALLEL SESSION 10: SUB-THEME— <i>PROMOTING INDIGENOUS KNOWLEDGE AND PRACTICES AND THEIR CONTRIBUTIONS TO THE SCIENCE OF SUSTAINABLE DEVELOPMENT</i></p> <p align="center">ROOM 2</p> <p align="center">SESSION CHAIR: PROFESSOR EDWARD WAMALA</p> <p align="center">TECHNICAL PERSON: Mr. MICHAEL MUTEBI</p>		
Time	Titles	Presenters
2:00 pm– 2:10 pm	Preamble by session chair	
2:10 pm– 2:25 pm	Contestation between the conventional “scientific method” and a systemic Indigenous approach to doing (ethno)science: Implications for regenerative development in Africa	Norma Romm
2:25 pm-2:35 pm	Q&A	
2:35 pm-2:50 pm	Indigenous Peoples and Environmental Education with a focus on the Batwa of Southwestern Uganda	Denis Sekiwu
2:50 pm-3:00 pm	Q&A	
3:00 pm-3:15 pm	The effects of the eviction of the Batwa from their Indigenous Forest habitat on their Indigenous Education System	Francis Akena Adyanga Natal Ayiga
3:15 pm-3:25 pm	Q&A	
3:25 pm-3:40 pm	Harnessing Indigenous Knowledge systems and practices to mitigate climate change effects in the Kigezi Region of Uganda	Michael Etoru Medard Rugyendo Justine Omare Sarah Harriet Namago Tayebwa James Kahesi Johnson
3:40 pm-3:50 pm	Q&A	
3:50 pm-4:05 pm	Hypothetical technique as indigenous technology in predicting the impact of climate change: A management approach within Gurara Reservoir Catchment, Nigeria	Usman Rogo Kabiru
CONFERENCE CLOSURE		
4:05 pm-4:35 pm	CONFERENCE CLOSURE	Prof. Sam Lanfranco, SASA Executive Board Member