

UNIVERSITY OF NAIROBI

CBPS ANNUAL RESEARCH WEEK 14[™] TO 16[™] OCTOBER, 2020





"Sciences and cross disciplinary research and practices transforming society for sustainable development"

PROGRAMME			
	Wednesday, 14th October 2020		
8:30 - 9:30	Online Registration		
9.30 - 10:00	Official Opening Ceremony (Chair: Prof J M Onyari)		
	-CBPS OC Chair makes remarks (5 Minutes) -CBPS Principal makes remarks (5 Minutes) & Invites DVC-RIE -DVC-RIE makes remarks (5 Minute video) & Invites VC -VC Gives Opening address to the physical and online audience, Opens the Conference (10 minutes Video)CBPS OC Chair –Gives Programme Overview (5 Minutes)		
	cience, Technology and Innovation in Industry for Sustainable Socio- insformation (Chair: Dr. George Outa)		

1.	10.00- 10.30	Keynote 1: Prof Laban A. Ogallo: Water, Agriculture and Food security challenges under changing weather and climate threats
10.30-	10:40	Session Q and A and Discussions
2.	10:40 - 10:55	Franklin J. Opijah: Predictability of Some Rainfall Parameters over Kenya Using Hybrid Empirical-Dynamical Modelling on Seasonal Timescales
3.		Richard R. Muita, Joseph Mutemi, Andrew J. Dougill, Stella Aura, Richard Graham, David O. Awolala, Elias Nkiaka, Linda Hirons, Franklin Opijah: Understanding the Role of User Needs and Perceptions Related to Sub-

1.	15:30 – 16:00	<u>Keynote 3: Lydia Olaka -</u> Hydrology across scales: Sensitivity of Kenyan Rift Lakes to Climate Shifts
16:00	- 16:10	Session Q and A and Discussions
2.	16:10- 16:25	<u>Elkana Owino</u> : Towards optimization of stream data processing algorithms through distributed intelligence in edge computing.
3.	16:25 - 16:40	Kevin O. Omolo: Simulating the effects of DOS attacks and their impact on wireless medical sensor network
4.	16:40 - 16:55	<u>Jean Claude Udahemuka,</u> Gabriel Aboge, George Obiero and Phiyani Lebea: Molecular surveillance for foot-and-mouth disease in African buffaloes (Syncerus Caffer) of the Akagera National Park in Eastern Rwanda.
5.	16:55 - 17:10	Cynthia Ikamari: A particle filtering approach to volatility estimation in an information-based model
17:10	- 17:30	Session Q and A and Discussions
17:30		End of day's session

Friday 16th October, 2020

Session 6: Promoting Collaborative Scientific Research, Technology and Innovation for Sustainable Utilization of Natural Products (Chair: Prof David K. Kariuki)

1. 9:00 - Keynote 4: Jacob O. Midiwo, Aggrey Akimanya, Kerubo Omosa, Beth 9:30 Ndunda, Muhammad Ilias, and Larry Walk: The Kenyan higher plant diversity- a potential source of anti-parasitic compounds for neglected tropical diseases.

9:30- 9:40 Session Q and A and Discussions

- 2. 9:40 Solomon Derese: Research4life and OA: Impact on access to e-resources in Africa
- 3. 9:55 Christine A. Omuombo: Gradual and muted geolimnological responses of Lake Nkunga, Mt. Kenya to environmental changes during the past millennium
- 4. 10:10 **Zelipha N. Kabubii:** Acute and sub-acute toxicity studies of aqueous extract of Rosmarinus officinalis in Wistar rats
- 5. 10:25 Magrate M. Kaigongi, Catherine Lukhoba, Abiy Yenesew and Nokwanda 10:40 P. Makunga: The chemosystematics of the genus Zanthoxylum L. (Rutaceae) in Kenya