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ABOUT THE

African Conference on Precision Agriculture



The mission of the African Conference on Precision Agriculture (AfCPA) is to "connect the science and practice needed to put precision agriculture in action for Africa." Through this mission, AfCPA seeks to provide a pan-African platform focused on highlighting new advances in the fields of experimental and applied precision agriculture.

The conference is aimed at strengthening and supporting the precision agriculture community within the African continent. AfCPA wishes to engage key stakeholders including scientists, policymakers, extension staff, crop consultants and advisors, agronomists, and service providers towards the common goal of

building the capacity and resilience of African

cropping systems.

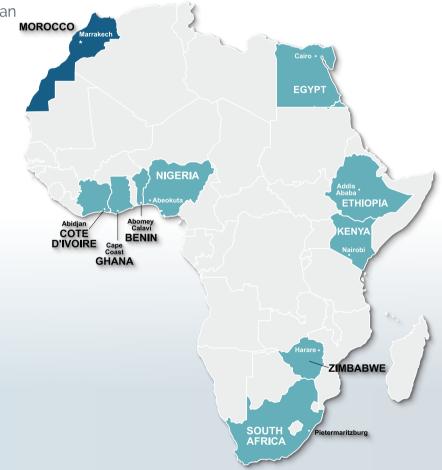
AfCPA 2024 is one conference, multiple satellite site event offering a local opportunity to view presentations from the main conference while participating in a regional precision agriculture program organized by the site's host.

MAIN SITE:

Marrakech. Morocco

SATELLITE SITES:

- · Abomey-Calavi, Benin
- Abidjan, Côte d'Ivoire
 - · Cairo, Egypt
- · Addis Ababa, Ethiopia
 - Cape Coast, Ghana
 - · Nairobi, Kenya
 - · Abeokuta, Nigeria
- · Pietermaritzburg, South Africa
 - Harare, Zimbabwe



AfCPA is an initiative of the African Plant Nutrition Institute (APNI) in partnership with Mohammed VI Polytechnic University (UM6P), the International Society of Precision Agriculture (ISPA), and the African Association for Precision Agriculture (AAPA).









SATELLITE SITE HOSTS

Prof. Adima Amissa Augustin

National Polytechnic Institute Félix Houphouët-Boigny, Côte d'Ivoire

Prof. Dr. Abdelaziz Belal

National Authority for Remote Sensing and Space Sciences, Egypt

Dr. Temesgen Desalegn

Ethiopia Institute of Agricultural Research

Prof. Kwame Frimpong

University of Cape Coast, Ghana

Femi Adekoya

Integrated Aerial Precision, Nigeria

Dr. Tafadzwa Mabhaudhi

University of KwaZulu-Natal, South Africa

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University of Nairobi, Kenya

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AfCPA Program Chair

Dr. Steve Phillips

SENIOR CONSULTING SCIENTIST

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All times listed are GMT +2

Conference Program Legend

Plenary	Keynote	Local	Panel	LS - Live	LV - Live	R - Pre-	
Session	Presentation	Session	Session	at Site	(virtual)	recorded	

Day 1	- Tuesday, 3rd December	
09:30 10:30 10:40	Tea and registration Welcome address - Professor Neil Koorbanallys Opening address	LV LV
11:00	Keynote Presentation 1 Presentation by Anthony Chapoto - Africa Network of Agricultural Policy Research Institutes	LV
11:30	Keynote Presentation 2 Presentation by Richard Ferguson - Rwanda Institute for Conservation Agriculture	LV
12:00	LUNCH	
13:00	General Session 2 Enhancing the Estimation of Equivalent Water Thickness in Neglected and Underutilized Taro Crops using UAV acquired Multispectral Thermal Image data and Index-Based Image Segmentation Ms Snethemba Ndlovu	LS
13:20	The Use of Unmanned Aerial Vehicle (Uav) Remotely Sensed Data and Biophysical Variables to Predict Maize Above-Ground Biomass (Agb) in Small-Scale Farming Systems Mr Celuxolo Dlamini	LS
13:40	Assessing the Potential of UAV-Acquired Multispectral Imagery Combined with Machine Learning Techniques in Mapping the Spatial Distribution of Taro And Sweet Potato in Smaller Holder Farms Ms Mishkah Abrahams	LS
14:00	Assessing the Utility of Image Segmentation Techniques and Leaf Area Index in Improving Taro Yield Prediction Based on UAV-Acquired Multispectral Data in Smallholder Croplands Ms Siphiwokuhle Buthelezi	LS
14:00	Evaluation of remotely sensed evapotranspiration products in irrigated arid agricultural landscapes using a suit of ground observations Mr Phathutshedzo Eugene Ratshiedana	
14:40	Break/Posters/Exhibits	
15:00	Keynote Presentation 3 Presentation by Gottfried Pesse - Pessl Instruments GmbH	LV

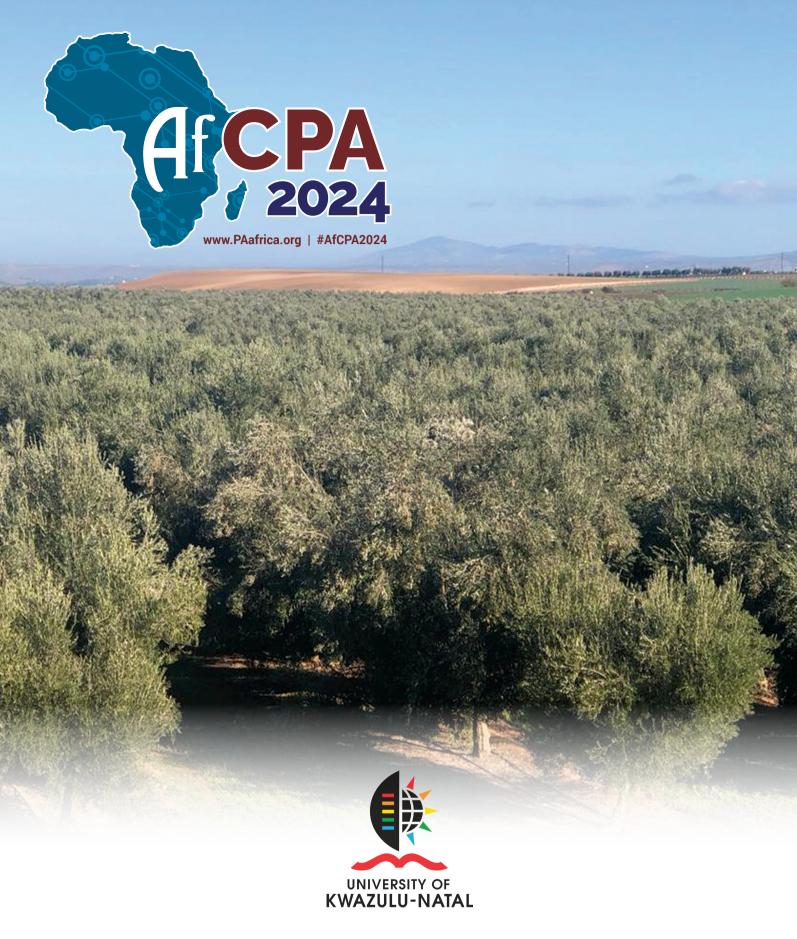
Day 1 - Tuesday, 3rd December				
	Plenary Session 1 - Precision Ag Service for Smallholders			
15:30	Presentation by Abdellah Hamma - OCP Nutricrops	LV		
15:50	Presentation by Musa Mishamo - Hexagon Agriculture	LV		
16:10	Presentation by Robert Blair - Blair Farms (virtual)	LV		
16:30	Human-Powered Proximal Soil Sensing for Small Farms Eric Lund - Veris Technologies, Inc.	LV		
17:00	Adjourn			

Day 2	– Wednesday, 4th December	
08:00	Welcome Session	LS
	Plenary Session 2 - Precision Ag Adoption in Africa	
09:00	Presentation by Samuel Njoroge - African Plant Nutrition Institute (APNI)	R
09:20	Yield of Maize (Zea Mays L.) Varieties as Affected by Neem Oil Coated Urea Application in Southern Benin Vodjo Nicodeme FASSINOU HOTEGNI - University of Abomey-Calavi (UAC)	R
09:40	Scalable Artificial Intelligence, Geospatial Big Data Analytics and Digital Agriculture: a Focus on Lessons Learnt and Their Implication for Improved Production	R
10:00	Kwabena Niketia - University of Saskatchewan Presentation by	_
	Tomisin Adefare - GBFoods	R
10:30	Break/Posters/Exhibits	
	Plenary Session 3 - Remote Sensing Applications	
11:00	Assessment of Nitrogen Fertilization in Tunisian Wheat Production Using Proximal and Remote Sensing Mouna Mechri - National Institute of Field Crops (INGC)	LV
11:20	Engineering Technology for Crop Monitoring and Disease Identification Manuel Perez Ruiz - Smart Biosystems Laboratory, University of Sevilla	LV
11:40	Presentation by Anthony Hall - Dronelytics (virtual)	LV
12:00	Assessing African Smallholder Cereal Farming Using Sentinel-2A Spectral Reflectance Steve Phillips - APNI	LV
12:30	Lunch - Break in Livestream	
	General Session 3	
13:30	Investigating the Interaction Between Soil Moisture and Clay Content for Enhanced Soil Moisture Prediction: A Lab-Based Approach with Implications for African Agriculture Ms Yonwaba Atyosi	LS
13:50	Leveraging UAV Remotely Sensed Data to Estimate Crop Water Stress of Underutilised Taro Crops in Smallholder Croplands Dr Mbulisi Sibanda	LS
14:10	Assessing The Potential Of Drone Remotely Sensed Data In Detecting The Soil Water Content, And Taro Leaf Chlorophyll Content Across Different Phenological Stages Ms Reitumetse Masemola	LS
14:30	Benefits of Precision Agriculture in Sugarcane Farming: A case of KwaZulu-Natal, South Africa Ms Nokuphila Gumede	LS

Day 2 - Wednesday, 4th December				
15:00	Break/Posters/Exhibits			
15:30 15:50	Keynote Presentation 4 Presentation by Dr. Donald Kelechi Madukwe - OCP Africa Keynote Presentation 5 Presentation by Pauline Chivenge - IRRI	LV		
16:20	Panel 1 – Women in Precison Agriculture Women in Precision Agriculture - Panel Discussion Tangi Aziza - UM6P and APNI Mouna MECHRI - National Institute of Field Crops (INGC) Tomisin Adefare - GBFoods Pauline Chivenge - IRRI	LV		
17:00	Adjourn			

Day 3	– Thursday, 5th December	
08:00	Welcome Session	L
09:00	Keynote Presentations 6 (pre-recorded) Precision Water Management Strategies for Africa George Vellidis - University of Georgia	R
09:30	Plenary Session 4 - Precision Water Management (pre-recorded) Presentation by Yafit Cohen	R
09:50	Application of Remote Sensing for Drought Monitoring Using Vegetation Indices in Pineapple Growing Areas in the Central Region of Ghana Emmanuel Hanyabui - University of Cape Coast	R
10:10	Presentation by Zakaria Hazzoumi - UM6P	R
10:30	Break/Posters/Exhibits	
11:00	Keynote Presentation 7 Presentation by TBD - OCP Nutricrops	LV
	Plenary Session 5 - Precision Nutrient Management	
11:30	iSDA's Virtual Agronomist – Expert Advice for Every Farmer Paul Chunga - iSDA	LV
11:50	Use of "FertiEdge" Application for Optimizing Wheat Fertilization Ibtihel Sbai - National Institute of Field Crops Mohammed Hmimou Faissal SEHBAOUI - AgriEdge SA, Benguerir, Morocco	LV
12:10	Presentation by Amine Jamal - OCP Nutricrops	
	Keynote Presentation 8	
12:30	National Agricultural Data Infrastructure As Bedrock for Precision Agriculture Benjamin Kwasi Addom - Commonwealth Connectivity Agenda for Trade & Investment (CCA)	LV
13:00	Closing Session and Awards - APNI - Kaushik Majumdar	LV
13:30	Adjourn	

Notes











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