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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.

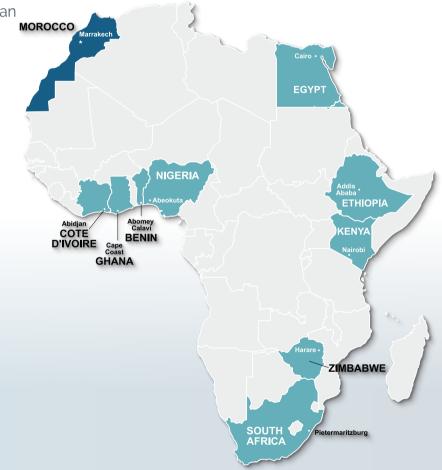
AfCPA 2024 is one conference, multiple satellite site event offering a local opportunity to view presentations from the main conference while participating in a regional precision agriculture program organized by the site's host.

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 FrimpongUniversity of Cape Coast, Ghana

Femi Adekoya Integrated Aerial Precision, Nigeria

Dr. Tafadzwa Mabhaudhi University of KwaZulu-Natal, South Africa

Dr. V. Nicodeme Fassinou Hotegni Genetics, Biotechnology & Seed Sciences Unit (GBioS), Abomey-Calavi Atlantique, Benin

> **Dr. Onesmas Kitonyo** University of Nairobi, Kenya

Dr. Regis ChikowoPlant Production Sciences
and Technologies
University of Zimbabwe



AfCPA Program Chair Dr. Steve Phillips

SENIOR CONSULTING SCIENTIST

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All times listed are GMT+1

Conference Program Legend

Plenary
SessionKeynote
PresentationLocal
SessionPanel
SessionLS - Live
at SiteLV - Live
(virtual)R - Pre-
recorded

Day 1	- Tuesday, 3rd December			
09:00 09:20 09:30 09:45	Welcome Session Registration Chairman's Welcome Address Vice Chancellor's Goodwill Message NiTDA Goodwill Message	L		
10:00	Keynote Presentation 1 Presentation by Anthony Chapoto - Africa Network of Agricultural Policy Research Institutes	LV		
10:30	Keynote Presentation 2 Presentation by Richard Ferguson - Rwanda Institute for Conservation Agriculture	LV		
11:00	Break/Posters/Exhibits			
11:30	Local Session 1 Land Suitability Prediction for Maize Production in Southwest Nigeria Using GIS and Most-Limiting Soil Native Fertility Factors Taiwo S. Olutoberu et al.	LS		
12:00	Policy Implications of the Adoption of Precision Agriculture in Nigeria Oyedepo and Elizabeth Omolola			
12:30	Precision Field Academy: Preparing the NextGeneration of Precision Agriculture Professionals: Precision Agriculture Incubation Program Case Study			
13:00	Lunch			
14:00	Keynote Presentation 3 Presentation by Gottfried Pessl - Pessl Instruments GmbH	LV		
	Plenary Session 1 - Precision Ag Service for Smallholders			
14:30	Presentation by Abdellah Hamma - OCP Nutricrops	LV		
14:50	Presentation by Musa Mishamo - Hexagon Agriculture	LV		
15:10	Presentation by Robert Blair - Blair Farms	LV		
15:30	Human-Powered Proximal Soil Sensing for Small Farms Eric Lund - Veris Technologies, Inc.	LV		
16:00	Break/Posters/Exhibits			

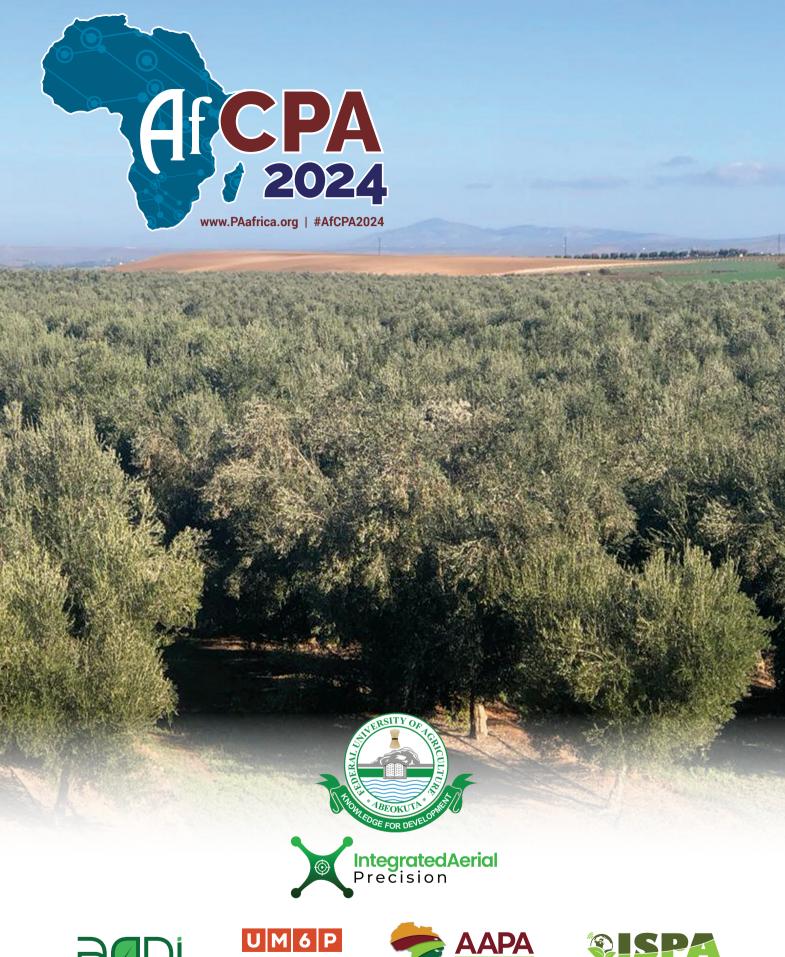
Day 1 – Tuesday, 3rd December			
16:00	Break/Posters/Exhibits		
	Plenary Session 2 - Precision Ag Adoption in Africa		
16:30	Overview of Precision Agriculture in Africa Samuel Njoroge - African Plant Nutrition Institute (APNI)	LV	
16:50	Capacity Building of African Young Scientists in Precision Agriculture Through Cross-Regional Academic Mobility for Enhanced Climate-Smart Agri-Food System: an Intra Africa Mobility Initiative on Precision Agriculture Vodjo Nicodeme FASSINOU HOTEGNI - University of Abomey-Calavi (UAC)	LV	
17:10	Scalable Artificial Intelligence, Geospatial Big Data Analytics and Digital Agriculture: a Focus on Lessons Learnt and Their Implication for Improved Production Kwabena Niketia - University of Saskatchewan	LV	
17:30	Presentation by Tomisin Adefare - GBFoods	LV	
18:00	Adjourn		

Day 2	- Wednesday, 4th December	
09:00	Welcome Session	L
09:15	Advancements in Precision Agriculture: Cutting-Edge Solutions for Coccidiosis Disease Using Smart Diagnostic Systems Bamigboye et al.	LS
09:40	Rural Farmer Hub	LV
10:00	Keynote Presentations 4 Presentation by TBD	LV
	Plenary Session 3 - Remote Sensing Applications	
10:30	Assessment of Nitrogen Fertilization in Tunisian Wheat Production Using Proximal and Remote Sensing Mouna Mechri - National Institute of Field Crops (INGC)	LV
10:50	Engineering Technology for Crop Monitoring and Disease Identification Manuel Perez Ruiz - Smart Biosystems Laboratory, University of Sevilla	LV
11:10	Presentation by Anthony Hall - Dronelytics (virtual)	LV
11:30	Break/Posters/Exhibits	
	Local Session 2	
12:00	A Framework for a Crop Yield Prediction Model Based on Decision Tree and Min-Max Scaling	LS
12:30	M. Samalia Assessing of Soil Nutrients using Laboratory and Remote Sensing Methods in	LV
13:00	Northern Guinea Savannah Abubakar Garba	LV
	Pioneering The Precision Agriculture Revolution: The Journey So Far Femi Adekoya, Integrated Aerial Precision	
13:30	Lunch	
14:30	Keynote Presentation 5 Presentation by Dr. Donald Kelechi Madukwe - OCP Africa	LV
14:50	Keynote Presentation 6 Presentation by Pauline Chivenge - IRRI	LV
15:20	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

Day 2	– Wednesday, 4th December	
16:00	Break/Posters/Exhibits	
16:30	Keynote Presentations 7 Precision Water Management Strategies for Africa George Vellidis - University of Georgia	LV
	Plenary Session 4 - Precision Water Management	
17:00	Presentation by Yafit Cohen	LV
17:20	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	LS
17:40	Presentation by Zakaria Hazzoumi - UM6P	LV
18:00	Adjourn	

Day 3	– Thursday, 5th December	
09:00	Welcome Session	L
09:15	Empowering Smallholder Farmers: Precision Agriculture Models in Africa (A Case Study of Nigeria) Stephen Popoola	LS
09:40	Comparative Assessment of Land Use Landcover Changes on Water Quality of River Kaduna from 2012-2020 at Wuya, Niger State, Nigeria S. Ibrahim	LS
	Keynote Presentation 8	
10:00	Presentation by TBD - OCP Nutricrops	LV
	Plenary Session 5 - Precision Nutrient Management	
10:30	iSDA's Virtual Agronomist – Expert Advice for Every Farmer Paul Chunga - iSDA (virtual)	LV
10:50	Use of "FertiEdge" Application for Optimizing Wheat Fertilization Ibtihel Sbai - National Institute of Field Crops Mohammed Hmimou Faissal SEHBAOUI - AgriEdge SA, Benguerir, Morocco	LV
11:10	Presentation by TBD - OCP Nutricrops	LV
	Keynote Presentation 9	
11:30	National Agricultural Data Infrastructure as Bedrock for Precision Agriculture Benjamin Kwasi Addom - Commonwealth Connectivity Agenda for Trade & Investment (CCA)	LV
12:00	Closing Session and Awards - APNI - Kaushik Majumdar	LV
12:30	Break/Posters/Exhibits	
13:00	Local Session 3 Influence of Mulched-Drip Irrigation System on Yield and Physiological Attributes of Pepper Varieties in Southwest, Nigerian O.O. Fawibe	LS
13:20	Maotronics Systems	LS
13:40	Smartsprout: Leveraging IOT for Sustainable and Efficient Smart Irrigation Systems in Africa J. Oyedepo	LS
14:00	Adjourn	

Notes











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