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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.

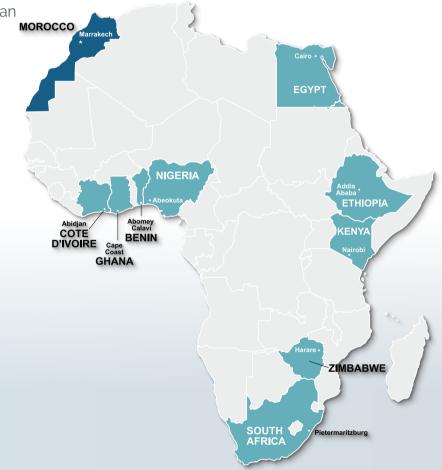
AfCPA 2024 is one conference, multiple satellite site event offering a local opportunity to view presentations from the main conference while participating in a regional precision agriculture program organized by the site's host.

#### 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

Federal University of Agriculture, Nigeria

#### Dr. Tafadzwa Mabhaudhi

University of KwaZulu-Natal, South Africa

#### Dr. V. Nicodeme Fassinou Hotegni

Genetics, Biotechnology & Seed Sciences Unit (GBioS), Abomey-Calavie Atlantique, Benin

#### Dr. Onesmas Kitonyo

University of Nairobi, Kenya

#### Dr. Regis Chikowo

Plant Production Sciences and Technologies University of Zimbabwe



#### **AfCPA Program Chair**

**Dr. Steve Phillips** 

#### SENIOR CONSULTING SCIENTIST

African Plant Nutrition Institute (APNI) e-mail: s.phillips@apni.net





#### All times listed are GMT.

#### **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	
08:00 08:10 08:20 08:30	Welcome from AfCPA Welcome from APNI (Dr. Kaushik Majumdar) Welcome from ISPA Welcome from Prof. Adima	LV LV LV LS
09:00	Keynote Presentation 1  Presentation by  Anthony Chapoto - Africa Network of Agricultural Policy Research Institutes	LV
09:30	Keynote Presentation 2  Presentation by  Richard Ferguson - Rwanda Institute for Conservation Agriculture	LV
10:00	Break/Posters/Exhibits	
11:00	Local Session 1  Precision Morphological Characterisation of the Core Trial of the CocoaSoils  Project in Cameroon	R
11:20	Jean Baptiste Biloa  The Value and Potential of On-Farm Experimentation to Catalyze Agricultural  Transformation  Ivan Adolwa	R
11:40	Short Discussion	
12:00	Lunch - Break in Livestream	
13:00	Keynote Presentation 3  How 100,000 Automatic IOT Weather Stations for Disease, Irrigation and Fertilizer Management will Change the Life of 10 Million Smallholder Farmers and Create New Local Jobs for 10,000 Digital Farm Advisors?  Gottfried Pesse - Pessl Instruments GmbH	LV
	Plenary Session 1 – Precision Ag Service for Smallholders	
13:30	Presentation by Abdellah Hamma - OCP Nutricrops	LV
13:50	Presentation by Musa Mishamo - Hexagon Agriculture	LV
14:10	Presentation by  Robert Blair - Blair Farms	LV
14:30	Human-Powered Proximal Soil Sensing for Small Farms Eric Lund - Veris Technologies, Inc.	LV
15:00	Break/Posters/Exhibits	

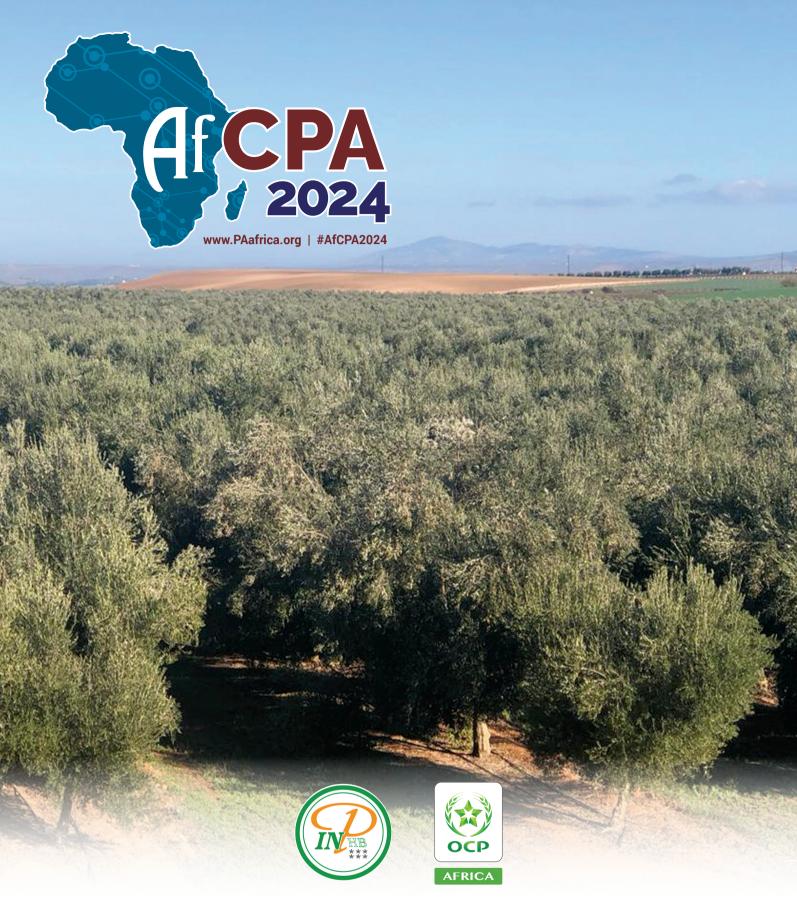
Day 1 – Tuesday, 3rd December					
15:00	Break/Posters/Exhibits				
	Plenary Session 2 - Precision Ag Adoption in Africa				
15:30	Overview of Precision Agriculture in Africa Samuel Njoroge - African Plant Nutrition Institute (APNI)	R			
15:50	Capacity Building of African Young Scientists in Precision 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			
16:10	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			
16:30	Presentation by Tomisin Adefare - GBFoods	LV			
17:00	Adjourn				

Day 2	– Wednesday, 4th December	
08:00	Welcome Session - Prof. Adima	LS
09:00	Keynote Presentations 4  Presentation by  Ittai Hermann	LV
09:30	Plenary Session 3 - Remote Sensing Applications  Assessment of Nitrogen Fertilization in Tunisian Wheat Production Using  Proximal and Remote Sensing  Mouna Mechri - National Institute of Field Crops (INGC)	LV LV
09:50	Engineering Technology for Crop Monitoring and Disease Identification Manuel Perez Ruiz - Smart Biosystems Laboratory, University of Sevilla	LV
10:10	Presentation by Anthony Hall - Dronelytics (virtual)	
10:30	Break/Posters/Exhibits	
11:00	Local Session 2  Factors Influencing Farmers' Decisions on Timing and Application Rates of Irrigation Water in Semi-Arid Regions: A Case-Study of Mwala, Machakos County, Kenya  Deborah Mongina	R
11:40	Rainwater Harvesting and Nutrient Intensification in Maize-legume Farming Systems in Semi-arid Zimbabwe Eleanor Mutsamba-Magwaza	R
12:20	Short Discussion	
12:30	Lunch - Break in Livestream	
13:30	Keynote Presentation 5  Presentation by  Dr. Donald Kelechi Madukwe - OCP Africa	LV
13:50	Keynote Presentation 6  Presentation by  Pauline Chivenge - IRRI	LV
14:20	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					
15:00	Break/Posters/Exhibits				
15:30	Keynote Presentations 7  Precision Water Management Strategies for Africa  George Vellidis - University of Georgia	LV			
	Plenary Session 4 - Precision Water Management				
16:00	Presentation by Yafit Cohen	LV			
16:20	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	LV			
16:40	Presentation by Zakaria Hazzoumi - UM6P	LV			
17:00	Adjourn				

Day 3	– Thursday, 5th December	
08:00	Welcome - Prof. Adima	LS
09:00	Keynote Presentation 8  Presentation by  TBD - OCP Nutricrops	LV
	Plenary Session 5 - Precision Nutrient Management	
09:30	iSDA's Virtual Agronomist – Expert Advice for Every Farmer Paul Chunga - iSDA (virtual)	R
09:50	Use of "FertiEdge" Application for Optimizing Wheat Fertilization Ibtihel Sbai - National Institute of Field Crops Mohammed Hmimou Faissal SEHBAOUI - AgriEdge SA, Benguerir, Morocco	LV
10:10	Presentation by TBD - OCP Nutricrops	LV
	Keynote Presentation 9	
10:30	National Agricultural Data Infrastructure As Bedrock for Precision Agriculture Benjamin Kwasi Addom - Commonwealth Connectivity Agenda for Trade & Investment (CCA)	LV
11:00	Closing Session and Awards - APNI - Kaushik Majumdar	LV
11:30	Break/Posters/Exhibits	
12:00	Local Session 3  Reduced Tillage and Crop Diversification for Improved Grain and Nutritional Yield in Rain-fed Maize Based Cropping Systems of Semi-arid Malawi  Donald Nyamayevu - African Plant Nutrition Institute (APNI)	R
12:20	Evaluating Soil Organic Matter Under a No-till System Using Digital Sensors (EM38 and MSP3)  James Mutegi - African Plant Nutrition Institute (APNI)	R
12:40	Evaluating Soil Organic Matter Under a No-till System Using Digital Sensors Hasna HAJJAJ	R
13:00	Short Discussion	
13:10	Adjourn	

### **Notes**









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