

3rd AFRICAN CONFERENCE ON PRECISION AGRICULTURE

MAIN CONFERENCE SITE:

Marrakech, Morocco

3-5 • December • 2024



PRECISION AGRICULTURE *in ACTION for AFRICA*

Nigeria Satellite Site Program



**Integrated Aerial
Precision**

ORGANIZED BY:



University
Mohammed VI
Polytechnic



AAPA
AFRICAN ASSOCIATION *for*
PRECISION AGRICULTURE





AFRICAN CONFERENCE ON
**Precision
Agriculture**

DIAMOND SPONSORSHIP



BRONZE SPONSORSHIP



EXHIBITORS



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

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

Program - Day 1

All times listed are GMT+1

Conference Program Legend

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

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

Program - Day 1

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 <i>Samuel Njoroge - African Plant Nutrition Institute (APNI)</i>	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 <i>Vodjo Nicodeme FASSINOUE HOTEgni - University of Abomey-Calavi (UAC)</i>	LV
17:10	Scalable Artificial Intelligence, Geospatial Big Data Analytics and Digital Agriculture: a Focus on Lessons Learnt and Their Implication for Improved Production <i>Kwabena Niketia - University of Saskatchewan</i>	LV
17:30	Presentation by <i>Tomisin Adefare - GBFoods</i>	LV
18:00	Adjourn	

Program - Day 2

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 <i>Bamigboye et al.</i>	LS
09:40	Rural Farmer Hub	LV
Keynote Presentations 4		
10:00	Presentation by <i>TBD</i>	LV
Plenary Session 3 - Remote Sensing Applications		
10:30	Assessment of Nitrogen Fertilization in Tunisian Wheat Production Using Proximal and Remote Sensing <i>Mouna Mechri - National Institute of Field Crops (INGC)</i>	LV
10:50	Engineering Technology for Crop Monitoring and Disease Identification <i>Manuel Perez Ruiz - Smart Biosystems Laboratory, University of Sevilla</i>	LV
11:10	Presentation by <i>Anthony Hall - Dronelytics (virtual)</i>	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 <i>M. Samalia</i>	LS
12:30	Assessing of Soil Nutrients using Laboratory and Remote Sensing Methods in Northern Guinea Savannah <i>Abubakar Garba</i>	LV
13:00	Pioneering The Precision Agriculture Revolution: The Journey So Far <i>Femi Adekoya, Integrated Aerial Precision</i>	LV
13:30	Lunch	
Keynote Presentation 5		
14:30	Presentation by <i>Dr. Donald Kelechi Madukwe - OCP Africa</i>	LV
Keynote Presentation 6		
14:50	Presentation by <i>Pauline Chivenge - IRRRI</i>	LV
Panel 1 – Women in Precison Agriculture		
15:20	Women in Precision Agriculture - Panel Discussion <i>Tangi Aziza - UM6P and APNI</i> <i>Mouna MECHRI - National Institute of Field Crops (INGC)</i> <i>Tomisin Adefare - GBFoods</i> <i>Pauline Chivenge - IRRRI</i>	LV

Program - Day 2

Day 2 – Wednesday, 4th December		
16:00	Break/Posters/Exhibits	
16:30	Keynote Presentations 7 Precision Water Management Strategies for Africa <i>George Vellidis - University of Georgia</i>	LV
17:00	Plenary Session 4 - Precision Water Management Presentation by <i>Yafit Cohen</i>	LV
17:20	Application of Remote Sensing for Drought Monitoring Using Vegetation Indices in Pineapple Growing Areas in the Central Region of Ghana <i>Emmanuel Hanyabui - University of Cape Coast</i>	LS
17:40	Presentation by <i>Zakaria Hazzoumi - UM6P</i>	LV
18:00	Adjourn	

Program - Day 3

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



AfCPA 2024

www.PAafrica.org | [#AfCPA2024](https://twitter.com/AfCPA2024)



PRECISION AGRICULTURE *in ACTION* **for AFRICA**