

3rd AFRICAN CONFERENCE ON PRECISION AGRICULTURE

MAIN CONFERENCE SITE:

Marrakech, Morocco

3-5 • December • 2024



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PRECISION AGRICULTURE *in ACTION for AFRICA*

Cote d'Ivoire Satellite Site Program



ORGANIZED BY:



UM6P

University
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AAPA
AFRICAN ASSOCIATION for
PRECISION AGRICULTURE





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**Precision
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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)
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Program - Day 1

All times listed are GMT.

Conference Program Legend

Plenary Session	Keynote Presentation	Local Session	Panel Session	LS - Live at Site	LV - Live (virtual)	R - Pre-recorded
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Day 1 – Tuesday, 3rd December						
08:00	Welcome from AfCPA					LV
08:10	Welcome from APNI (Dr. Kaushik Majumdar)					LV
08:20	Welcome from ISPA					LV
08:30	Welcome from Prof. Adima					LS
	Keynote Presentation 1					
09:00	Presentation by <i>Anthony Chapoto - Africa Network of Agricultural Policy Research Institutes</i>					LV
	Keynote Presentation 2					
09:30	Presentation by <i>Richard Ferguson - Rwanda Institute for Conservation Agriculture</i>					LV
10:00	Break/Posters/Exhibits					
	Local Session 1					
11:00	Precision Morphological Characterisation of the Core Trial of the CocoaSoils Project in Cameroon <i>Jean Baptiste Biloa</i>					R
11:20	The Value and Potential of On-Farm Experimentation to Catalyze Agricultural Transformation <i>Ivan Adolwa</i>					R
11:40	Short Discussion					
12:00	Lunch – Break in Livestream					
	Keynote Presentation 3					
13:00	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? <i>Gottfried Pesse - Pessl Instruments GmbH</i>					LV
	Plenary Session 1 – Precision Ag Service for Smallholders					
13:30	Presentation by <i>Abdellah Hamma - OCP Nutricrops</i>					LV
13:50	Presentation by <i>Musa Mishamo - Hexagon Agriculture</i>					LV
14:10	Presentation by <i>Robert Blair - Blair Farms</i>					LV
14:30	Human-Powered Proximal Soil Sensing for Small Farms <i>Eric Lund - Veris Technologies, Inc.</i>					LV
15:00	Break/Posters/Exhibits					

Program - Day 1

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 <i>Samuel Njoroge - African Plant Nutrition Institute (APNI)</i>	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 <i>Vodjo Nicodeme FASSINOUE HOTEgni - University of Abomey-Calavi (UAC)</i>	LV
16:10	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
16:30	Presentation by <i>Tomisin Adefare - GBFoods</i>	LV
17:00	Adjourn	

Program - Day 2

Day 2 – Wednesday, 4th December		
08:00	Welcome Session - Prof. Adima	LS
09:00	Keynote Presentations 4 Presentation by <i>Ittai Hermann</i>	LV
09:30	Plenary Session 3 - Remote Sensing Applications Assessment of Nitrogen Fertilization in Tunisian Wheat Production Using Proximal and Remote Sensing <i>Mouna Mechri - National Institute of Field Crops (INGC)</i>	LV
09:50	Engineering Technology for Crop Monitoring and Disease Identification <i>Manuel Perez Ruiz - Smart Biosystems Laboratory, University of Sevilla</i>	LV
10:10	Presentation by <i>Anthony Hall - Dronelytics (virtual)</i>	LV
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 <i>Deborah Mongina</i>	R
11:40	Rainwater Harvesting and Nutrient Intensification in Maize-legume Farming Systems in Semi-arid Zimbabwe <i>Eleanor Mutsamba-Magwaza</i>	R
12:20	Short Discussion	
12:30	Lunch – Break in Livestream	
13:30	Keynote Presentation 5 Presentation by <i>Dr. Donald Kelechi Madukwe - OCP Africa</i>	LV
13:50	Keynote Presentation 6 Presentation by <i>Pauline Chivenge - IRRI</i>	LV
14:20	Panel 1 – Women in Precision Agriculture 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 - IRRI</i>	LV

Program - Day 2

Day 2 – Wednesday, 4th December		
15:00	Break/Posters/Exhibits	
15:30	Keynote Presentations 7 Precision Water Management Strategies for Africa <i>George Vellidis - University of Georgia</i>	LV
16:00	Plenary Session 4 - Precision Water Management Presentation by <i>Yafit Cohen</i>	LV
16:20	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>	LV
16:40	Presentation by <i>Zakaria Hazzoumi - UM6P</i>	LV
17:00	Adjourn	

Program - Day 3

Day 3 – Thursday, 5th December		
08:00	Welcome - Prof. Adima	LS
09:00	Keynote Presentation 8 Presentation by <i>TBD - OCP Nutricrops</i>	LV
09:30	Plenary Session 5 – Precision Nutrient Management iSDA's Virtual Agronomist – Expert Advice for Every Farmer <i>Paul Chunga - iSDA (virtual)</i>	R
09:50	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
10:10	Presentation by <i>TBD - OCP Nutricrops</i>	LV
10:30	Keynote Presentation 9 National Agricultural Data Infrastructure As Bedrock for Precision Agriculture <i>Benjamin Kwasi Addom - Commonwealth Connectivity Agenda for Trade & Investment (CCA)</i>	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 <i>Donald Nyamayevu - African Plant Nutrition Institute (APNI)</i>	R
12:20	Evaluating Soil Organic Matter Under a No-till System Using Digital Sensors (EM38 and MSP3) <i>James Mutegi - African Plant Nutrition Institute (APNI)</i>	R
12:40	Evaluating Soil Organic Matter Under a No-till System Using Digital Sensors <i>Hasna HAJJAJ</i>	R
13:00	Short Discussion	
13:10	Adjourn	



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