3rd AFRICAN CONFERENCE ON PRECISION AGRICULTURE

MAIN CONFERENCE SITE:
## Marrakech, Morocco
3-5 • December • 2024

AfCPA 2024

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PRECISION AGRICULTURE
in ACTION for AFRICA

Benin Satellite Site Program
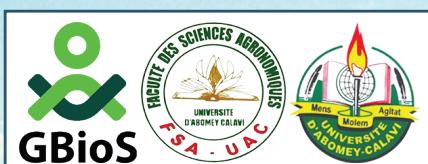
GBioS · FSA - UAC · UNIVERSITÉ D'ABOMEY-CALAVI

ORGANIZED BY:

apni · UM6P University Mohammed VI Polytechnic · AAPA AFRICAN ASSOCIATION for PRECISION AGRICULTURE · ISPA International Society of Precision Agriculture

AfCPA 2024

AFRICAN CONFERENCE ON Precision Agriculture

ABOUT THE
African Conference on Precision Agriculture

AfCPA 2024

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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
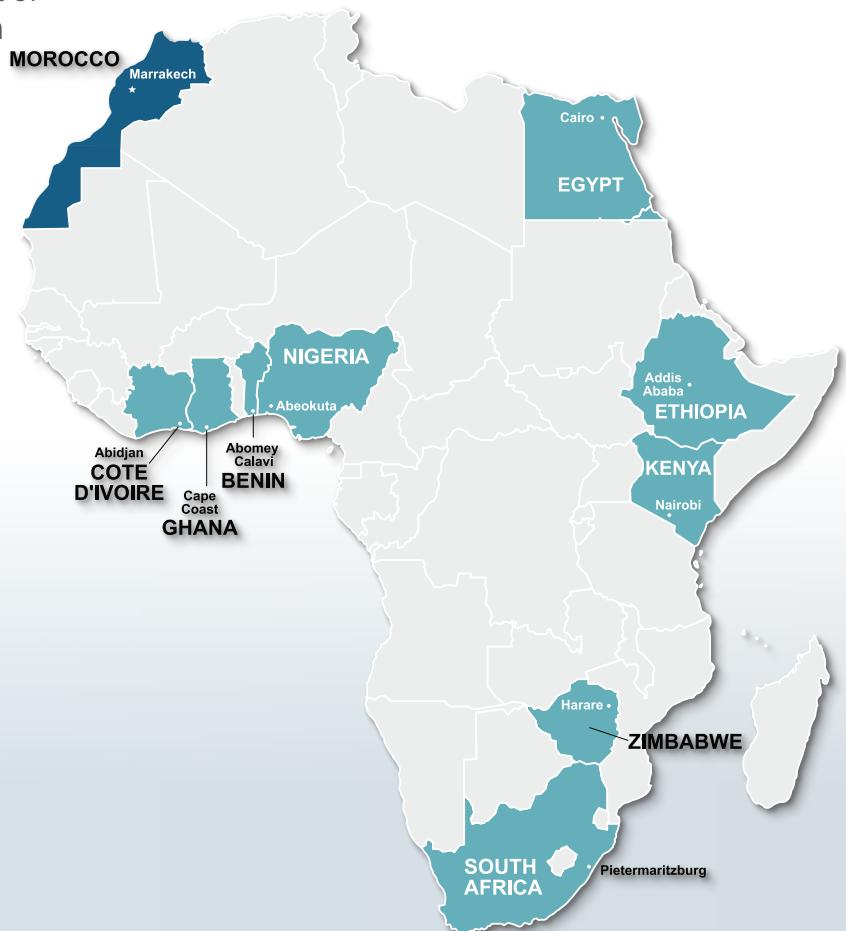
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UM6P University Mohammed VI Polytechnic

AAPA AFRICAN ASSOCIATION for PRECISION AGRICULTURE

ISPA International Society of Precision Agriculture

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-Calavi Atlantique, Benin

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University of Nairobi, Kenya

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AfCPA Program Chair
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SENIOR CONSULTING SCIENTIST
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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

09:00	**Welcome Session**	LS
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** **Inter-Country Cooperation Can Transform Precision Agriculture Education and Research in Africa** *Kwame Agyei Frimpong*	LV
11:50	**The Status of PA in Eswatini** *Absalom Manyatsi*	LV
12:10	**Real-time Moisture Control in Irrigation Systems for Water Use Efficiency and Climate Change Resilience. A Review.** *Didier KINDIKIZA*	LV
12:30	**Analyse Comparative de L'effet des PratiquesAgricoles sur la Variabilité du Rendement en Grain de maïs (Zea mays L.) dans la Région des Savanes au Togo** *Lare MOUHAMADOU*	LS
13:00	**Lunch – Break in Livestream**	
14:00	**Keynote Presentation 3** **Presentation by** *Gottfried Pesse - Pessl Instruments GmbH*	LV
14:30	**Plenary Session 1 – Precision Ag Service for Smallholders** **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

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** *Samuel Njoroge - African Plant Nutrition Institute (APNI)*	**LV**
16:50	**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)*	**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**	

Program - Day 2

	Day 2 – Wednesday, 4th December	
09:00	**Welcome Session**	**LS**
10:00	**Keynote Presentations 4** **Presentation by** *Ittai Hermann*	**LV**
10:30	**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**
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**	
12:00	**Local Session 2** **Evaluating Soil Organic Matter under a No-till System Using Digital Sensors (EM38 and MSP3)** *Hasna HAJJAJ*	**LV**
12:20	**Analyzing the Effect of Urban Habitat Characteristics on Mediterranean Fruit Fly Populations in Peri-urban Citrus Groves: an EcoinformaticsApproach** *Carmel Katz*	**LV**
12:50	**Monitoring Grazing Goats' Behavior using Sensors and SatelliteRemote Sensin** *Youssef Chebli*	**LV**
13:10	**Assessment of the Variability in Yield Response to Agricultural Practices under Maize (Zea mays L.) Cultivation in the Central Region of Togo** *Lare MOUHAMADOU*	**LS**
13:30	**Lunch – Break in Livestream**	
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**

Program - Day 2

| 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
17:00	**Plenary Session 4 - Precision Water Management** **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**	

Program - Day 3

Day 3 – Thursday, 5th December		
09:00	**Welcome Session**	L
10:00	**Keynote Presentation 8** **Presentation by** *TBD - OCP Nutricrops*	LV
10:30	**Plenary Session 5 – Precision Nutrient Management** **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
11:30	**Keynote Presentation 9 –** **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** **Optimizing Durum Wheat Nitrogen Nutrition Index (NNI) Prediction through Sentinel-2 Vegetation Index Integration** *Nour El Houda Boughattas*	LV
13:20	**Rainwater Harvesting and Nutrient Intensification in Maize-legume Farming Systems in Semi-arid Zimbabwe** *James Mutegi - African Plant Nutrition Institute (APNI)*	LV
13:50	**Recommandation de Formules de Fertilisation Adaptées à laProduction de Maïs (Zea mays L.) dans la Région Centrale au Togo** *Lare MOUHAMADOU*	LS
14:00	**Adjourn**	

Notes

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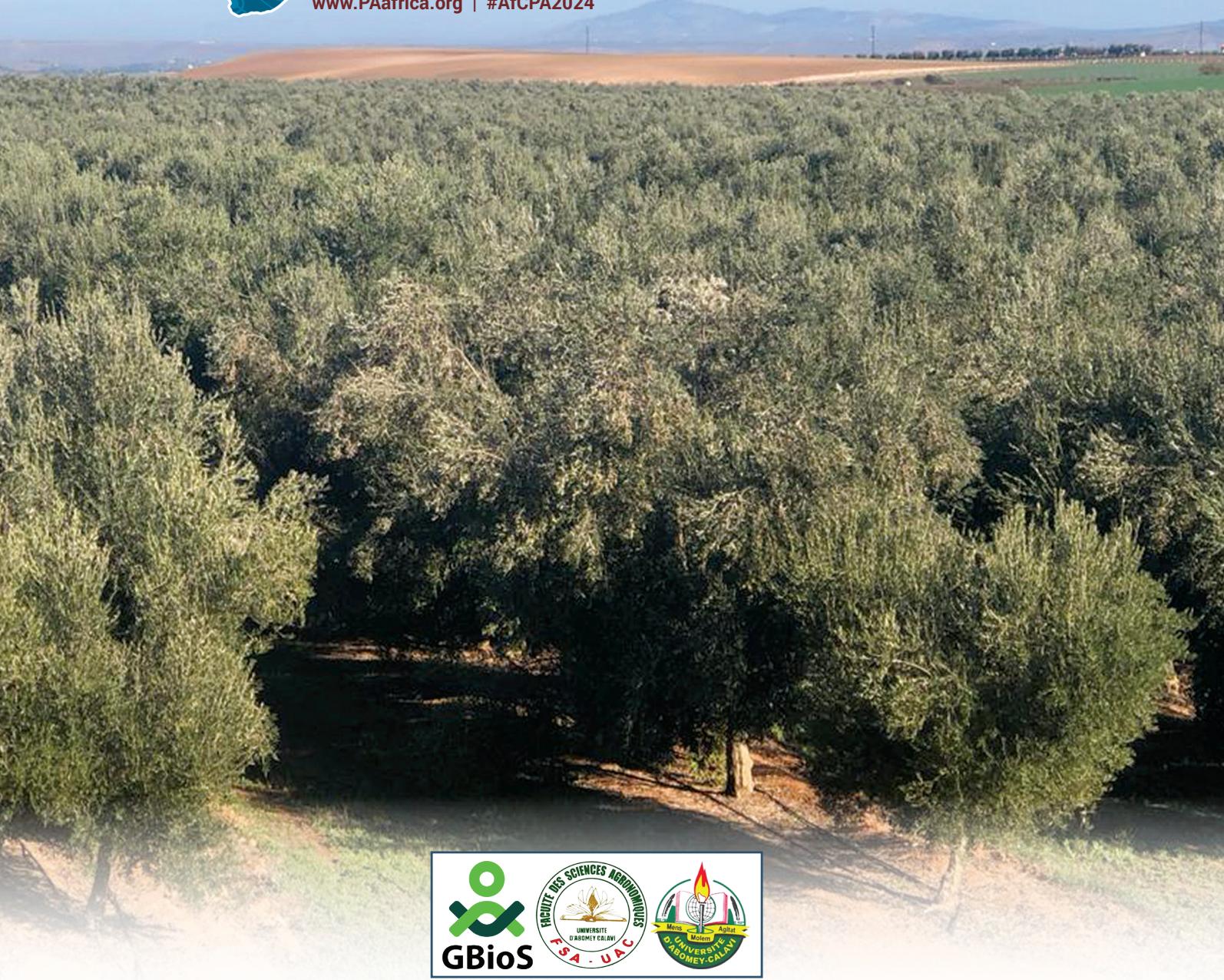
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