

3rd AFRICAN CONFERENCE ON PRECISION AGRICULTURE

MAIN CONFERENCE SITE:

Marrakech, Morocco

3-5 • December • 2024



PRECISION AGRICULTURE
in ACTION for AFRICA

Ghana Satellite Site Program



ORGANIZED BY:



UM6P

University
Mohammed VI
Polytechnic



AAPA
AFRICAN ASSOCIATION
for
PRECISION AGRICULTURE

ISPA
International Society of Precision Agriculture



AFRICAN CONFERENCE ON
**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
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-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 Session	LS
09:00	Keynote Presentation 1 Presentation by <i>Anthony Chapoto - Africa Network of Agricultural Policy Research Institutes</i>	LV
09:30	Keynote Presentation 2 Presentation by <i>Richard Ferguson - Rwanda Institute for Conservation Agriculture</i>	LV
10:00	Break/Posters/Exhibits	
10:30	Local Session 1 Presentation by <i>Moses Jojo Eghan</i>	LS
11:10	From Farm to Tech Hub: GreenTech's Model for Merging Agriculture with Digital Careers <i>Kofi Opoku - Managing Partner, Charis Agora</i>	LS
12:00	Lunch – Break in Livestream	
13:00	Keynote Presentation 3 Presentation by <i>Gottfried Pessl - Pessl Instruments GmbH</i>	LV
13:30	Plenary Session 1 – Precision Ag Service for Smallholders 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

	Plenary Session 2 – Precision Ag Adoption in Africa	
15:30	Presentation by <i>Samuel Njoroge - African Plant Nutrition Institute (APNI)</i>	LV
15:50	Yield of Maize (<i>Zea Mays L.</i>) Varieties as Affected by Neem Oil Coated Urea Application in Southern Benin <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	LS
09:00	Keynote Presentations 4 <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 Farming for a Cause: Scholarships Funded Through Sustainable Agriculture <i>Felix Appiah Nyarko</i>	LS
11:20	Estimation of the Physiological Maturity of Bell Pepper <i>Benjamin Anderson</i>	
11:40	Prediction of Flow Characteristics and Optimization of a Subsurface Self-Regulating, Low-Energy, Clay-Based Irrigation (SLECI) System in Sandy Loam Soil <i>W.E.K. Agbesia</i>	LS
12:00	Tillage-Induced Variations in Soil Resistance and Their Impact on Maize Performance <i>Hans Murangaza</i>	LS
12:30	Lunch	
13:00	Keynote Presentation 5 Presentation by <i>Dr. Donald Kelechi Madukwe - OCP Africa</i>	LV
13:30	Keynote Presentation 6 Presentation by <i>Pauline Chivenge - IRRI</i>	LV
13:50	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		
14:00	Break/Posters/Exhibits	
15:00	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 Messages from Steve Phillips and Kwame Frimpong	LV
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>	LV
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 I - Kaushik Majumdar	LV
11:30	Break/Posters/Exhibits	
12:00	Local Session 3 Crop Recommendation Model Using Deep Learning <i>Ahiakwa Martin</i>	LS
12:20	Presentation by <i>Jeffrey Cobold</i>	LS
12:40	Effects of Climate Smart Irrigation and Mulching on Yield and Yield Components of Onion (<i>Allium cepa</i> L.) During Dry Season of Western Ethiopia <i>Tolossa Tasissa</i>	LS
13:00	Comparative Analysis of Regenerative Agricultural Practices and Inorganic Fertilizer Applications on Common Bean (<i>Phaseolus Vulgaris</i> L.) Profitability in Rubavu District of Rwanda <i>Vincent Nsengimana</i>	LS
13:30	Adjourn	



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