

1st African Conference on Precision Agriculture



PRECISION AGRICULTURE *in ACTION for AFRICA*

GOLD SPONSOR



SILVER SPONSORS



BRONZE SPONSOR



SATELLITE SITES:

Ouagadougou, Burkina Faso • Yamoussoukro, Cote d'Ivoire • Cairo, Egypt
Adama, Ethiopia • Cape Coast, Ghana • Nairobi, Kenya • Kenitra, Morocco
Ibadan, Nigeria • Dakar, Senegal • Tanga, Tanzania • Lomé, Togo
Tunis, Tunisia • Lusaka, Zambia • Harare, Zimbabwe

1st African Conference on Precision Agriculture

8-10 | December | 2020



PRECISION AGRICULTURE *in ACTION for AFRICA*

LOCAL PRESENTATIONS/POSTERS & ON DEMAND CONTENT

Adama, Ethiopia

CONFERENCE CHAIR:

Dr. Steve Phillips
s.phillips@apni.net

CONFERENCE SITE HOST:

Dr. Temesgen Desalegn
temesgen2015@gmail.com

CONFERENCE INFO:

paafrica.org | #AfCPA2020



LOCAL PRESENTATIONS/POSTERS & ON DEMAND CONTENT

Welcome to the **1st African Conference on Precision Agriculture (AfCPA)**. Below are lists of oral and poster presentations originating from your conference site. The list of on demand presentations were selected to be recorded in advance. A selection of these recordings are listed on your local conference agenda, but all on demand video content is available to conference registrants from the website.

ADAMA ORAL PRESENTATIONS

Sensor Based In-Season Nitrogen Determination for Quality Protein Maize on Farmers Field Western Ethiopia / **Tolera Abera**

Climate Smart Agriculture: Constraints, Challenges and Opportunities to Promote the System in Ethiopia / **Getachew Agegnehu**

Application of Information & Communication Technologies (ICTs) into Precision Farming Ecosystem in Ethiopian Digital Agriculture Development Perspective Plan / **Tadesse Anberbir**

The roles of key public services on the adoption of climate-smart agricultural technologies in coffee-based farming system of Ethiopia / **Samuel Diro**

Spatial soil loss risk assessment for proper intervention: a case of Neri watershed in Omo Gibe basin, Southwestern Ethiopia / **Abebe Hegano**

Geo-statistical Prediction of Spatial Distribution of Salt-affected Soils of Meki-Zeway agricultural areas: Actionable baseline information for practical implementation of precision agriculture in similar salinity/sodicity prone areas in Ethiopia / **Melese Minaleshoo**

Soil fertility characterization and mapping for Adigudem plain, Northern Ethiopia / **Gebremedhin Berhe**

Using Decision Support Tool for Site Specific Nutrient Management in Maize Production in Ethiopia: The case of Nutrient Expert / **Tesfaye Balemi**

ON DEMAND CONTENT - RECORDED

Implementation of Proximal Soil Sensing, Data Fusion and Machine Learning to Improve Phosphorus Management at a Field Scale / **Abdelkrim Lachgar**

Nutrient management tailored to smallholder agriculture enhances productivity and sustainability / Pauline Chivenge / **Pauline Chivenge**

A precision irrigation app for smart water management by farmers / **Aziz Abouabdillah**

Monitoring irrigation water use at large scale irrigated areas using remote sensing in water scarce environment / **Mohamed Hakim Kharrou**

Mechanisation of smallholders in Zambia by agrodealer development / **Sven Peets**

A review on Sensor based robotics agriculture: Improving traditional Agriculture Practices / **Sachin C Karad**

LiDAR-based soybean crop segmentation for autonomous navigation / **Vitor A Higuti**

Estimating soil organic carbon from cell phone images / **Asim Biswas**

Cashew Trees Detection and Yield Analysis using UAV-based Map / **Thierry Roger Bayala**

Estimating greensnap yield damage with canopy reflectance: a case study / **Gabriel Dias Paiao**

Market Acceptance and Willingness to Pay for Drone Technology in the Application of Pesticide for the Control of Fall Armyworm / **Selorm Omega**

Spectral assessment of chickpea morpho-physiological traits from space, air and ground / **Ittai Herrmann**

Development of Canopy Mapping System of Asian pears (*Pyrus pyrifolia* Naka) Using Terrestrial Laser Scanning / **Jaehwan Lee**

Development of Lodging Direction Determination System Using Image Processing / **Yuta Arai**

Monitoring Corn (*Zea mays*) Yield using Sentinel-2 and Machine Learning for Precision Agriculture Applications / **Ahmed Kayad**

Excellence in Agronomy 2030: A new CGIAR-wide initiative to deliver agronomy solutions at scale / **Bernard Vanlauwe**