

1st African Conference on Precision Agriculture



PRECISION AGRICULTURE *in ACTION for AFRICA*

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1st African Conference on Precision Agriculture

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PRECISION AGRICULTURE *in ACTION for AFRICA*

LOCAL PRESENTATIONS/POSTERS & ON DEMAND CONTENT

CONFERENCE CHAIR:

Dr. Steve Phillips
s.phillips@apni.net

Cape Coast, Ghana

CONFERENCE SITE HOST:

Dr. Kwame Frimpong
kfrimpong@ucc.edu.gh

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.

CAPE COAST ORAL PRESENTATIONS

Assessment of Performance of APSIM Model with Experimental Data from the Short-term Biochar Experiment at Guinea Savanna Zone (Nyankpala), Ghana / **Judith Frimpong-Manso**

Integrating Models and Data to Observe the Effect of Biochar Used in a Rice-Cowpea Intercrop System on Soil Hydrological Properties / **Judith Frimpong-Manso**

Simulate Plant Growth Response to Biochar applications on upland rice-cowpea intercrop and Inorganic N and P on a Ferric luvisols Soil in Ghana / **Judith Frimpong-Manso**

Feasibility studies on developing farmer friendly rapid in-situ evaluation technique for soil quality in cocoa plantation based on pocket-sized near-infrared spectroscopy and chemometrics / **Ernest Teye**

Socio-demographic Factors Contributing to Adoption of E-commerce by Small Agribusiness Enterprises in the Upper East Region of Ghana / **Selorm Omega**

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**

CAPE COAST POSTERS

Biochar and/or Compost for Soil Quality and Maize Yield Improvement in an Acidic Ferralsol Soil in Kenya / **Emmanuel Abban-Baidoo**