

Workshop on
Precision Farming Techniques & Technologies for Sustainable Agriculture

5th March 2020

Hosted by

CSIR-Central Scientific Instruments Organisation (CSIR-CSIO)

Sector 30-C, Chandigarh-160030

CSIR-CSIO

Central Scientific Instruments Organisation (CSIO), a constituent unit of Council of Scientific & Industrial Research (CSIR), is a premier national laboratory dedicated to research, design and development of scientific and industrial instruments. It is a multi-disciplinary and multi-dimensional apex industrial research & development organisation in the country to stimulate growth of the Instrument Industry in India covering a wide range and applications.

ABOUT THE WORKSHOP

In the backdrop of global warming, shrinking resources (Land and water), rapidly increasing urbanization and industrialization and exponentially rising population growth, the biggest question/Concern is how to feed population of nine billion people by 2050 without stressing natural resources.

The global and national scenario in agriculture is gloomy and needs serious attention. Although Globally, developed countries such as USA and European Unions have achieved remarkable agriculture sustainability and self-reliance in food on account of adaptation of advance sustainable practices and cutting edge/ model techniques and technologies for optimal Agri-input applications, however, in India, the agriculture sustainability is of great concern due to reliance on update/conventional practices. In Punjab, which is considered the food basket of the country, and most other regions the country continues application of Agri inputs such as pesticides and fertilization through unified rate applications. As a result, large parts in the Agri field remain under dosage and / or over dosage there by affecting productivity potential. However, if the variable rate application of the Agri- inputs is exercised which optimally matches the requirements, the overall quality and quantity of the agriculture productivity enhances drastically, besides conserving the environment and reducing the input cost to the farmers. Therefore, given above, the proposed one-day workshop intends to brainstorm and disseminate advances in precision farming techniques and technologies for sustainable agriculture. The workshop will witness the participation from the relevant experts working in the precision farming domain as well as various stakeholders including industries and end users/farm managers.

AGENDA OF WORKSHOP

The workshop aims to update and enlighten the participants with advances in precision farming techniques and technologies for sustainable agriculture. The following sections will be discussed in this workshop:

- Precision agriculture for sustainability
- Proximal, Hyperspectral and remote sensing of soil and plants
- Spatial & temporal mapping/aggregation of data using GIS

- Intelligent strategies for monitoring irrigation systems and water management
- Integration of IoT and Cloud services for Agri-informatics
- Software and mobile Apps in Precision farming

TARGETED AUDIENCE

- Post-Doctoral Researchers
- PhD Scholars
- Young Researchers
- Young Faculty/Scientist
- Environmentalist
- Agriculturist
- Industrialists/Startups

IMPORTANT INSTRUCTIONS

- Fill registration form online
- Limited Seats (Seats available on First-come first-serve basis)
- No TA/DA will be paid to attend workshop
- Identity Card is Mandatory
- All communication will be through email
- Attendance Mandatory for Certificate of Participation

REGISTRATION FEE

Candidates shall pay **requisite fees (i.e Rs.250)** to complete their candidature. The payment for skill training should be made to **“Director, CSIO Account” (A/c No.: 30267029400, IFSC: SBIN0001443).**

IMPORTANT DATES AND LINKS

- Last date to apply: 05 March, 2020 (till 11:00 a.m)
- Event Date: 05 March, 2020
- Registration Link: <https://forms.gle/AoNqfAkBk2A5rs6Y7>
- Bank Account details: **Director, CSIO Account” (A/C No: 30267029400, IFSC : SBIN0001443)**

RESOURCE PERSONS

- Dr. RK Sahoo (IARI, New Delhi); Spectroscopic and Hyperspectral Methods in Precision Agriculture
- Prof. Kukkal; Advances Water Conservation
- Dr. RK Setia (PRSC, Ludhiana); Remote Sensing in Precision Agriculture
- Prof. J.Adinarayana(IIT Bombay); Agri-informatics
- Dr. Indra Mani (IARI, Delhi)
- Dr. Deepika Rohtagi (DSIR)

PROGRAM SCHEDULE

Time Schedule	Activities
09:00-10:00 AM	Registration
10:00-11:00 AM	Inaugural Function
11:00 -11:30 AM	High Tea
11:30: 12:30PM	Lecture 1
12:30-1:30 PM	Lecture 2
1:30-2:30 PM	Lunch Break
2:30-3:15 PM	Lecture 3
3:15-3:45 PM	Tea Break
3:45-4:30 PM	Lecture 4
4:30-5:30 PM	Valedictory Function

ACCOMMODATION

Accommodation can be arranged in guest-house/ hostel as per availability, on payment basis, if informed well in advance on first come first serve basis. Assistance can also be provided for getting accommodation in hotels nearby for which the organizers can be contacted.

WORKSHOP COORDINATOR

- Dr. BS Bansod, Principal Scientist (Event Coordinator)
- Mr. Narinder Singh Jassal, Principal Scientist (Skill Coordinator)

ORGANIZING COMMITTEE

- Mr. Manish Kumar, Sr. Tech. Officer
- Mr. Puneet Mehta, Project Scientist
- Mr. Hitesh Kumar, Project Assistant-I
- Mr. Sukhwinder Singh, Project Assistant-II
- Ms. Poonam, Project Assistant-I
- Ms. Yashika Saini, Project Assistant-II
- Mr. Chetanjit Singh, Project Assistant-I
- Ms. Urvashi, Senior Research Fellow
- Mr. Sagar Rana, Project Assistant-III

CONTACT US

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Venue: CSIR-CSIO, Chandigarh

Web Link: <https://www.csio.res.in/>