



ICAAT

December 20-21, 2023

International Conference

Advanced Agricultural Technologies



Grand Peshwa, Four Points By Sheraton Hotel and Serviced Apartments, Viman Nagar,
Pune, Maharashtra 411014, India.



<http://mpkv-cff2023.in/>
<https://www.mpkv-caast.ac.in/>



NHEP



Importance

India ranks second worldwide in farm output, but have low agricultural productivity. If we enhance our productivity, we can produce more, save land and water resources. At the same time, it is necessary to reduce the exposure of farmers to short-term risks, while also strengthening their resilience to adapt to longer-term stresses. Thus the goal of the scientists/researchers of the agricultural universities and institutes need to be to investigate and develop the advanced technologies for enabling the farmers to enhance the farm income in the realm of climate change and variability; and other uncertainties. The advanced agricultural technologies include climate smart and resilient, precision and digital technologies; and the real-time decision support systems. The CAAST-Centre for Advanced Agricultural Science and Technology being implemented under National Agricultural Higher Education Project (NAHEP) of the Indian Council of Agricultural Research (ICAR), New Delhi since 2018 in 16 Agricultural Universities and ICAR Institutes initiated the tasks of the development and dissimilation of the advanced agricultural technologies. As a result of this initiative, these CAAST Projects conceptualized and developed various cutting-edge scientific and technological innovations to enhance various aspects of agriculture. These conceptualization and technologies are aimed and designed to improve efficiency, productivity, sustainability, and overall performance in the agricultural sector

The advanced agricultural technologies conceptualized and/or developed by the CAAST projects need to be deliberated on one platform for exploring the possibility of coupling or integrating these technologies along-with the technologies developed elsewhere in to package of practice for creating cohesive and effective systems. Though this process is complex but is crucial. Therefore, in order to discuss the advanced agricultural technologies developed by the CAAST projects on one platform along-with complementary technologies developed elsewhere with the various stakeholders of the system viz. farmers, students, researchers, practioners, and industries; the **“International Conference on Advanced Agricultural Technologies”** is organized with following specific objectives,

Objectives

1. To educate farmers, researchers, industries and students about the advanced agricultural technologies conceptualized and developed by the CAAST Projects.
2. To provide a platform to meet, discuss and share ideas with other researchers; and explore the possibilities of developing the potential collaborations.
3. To demonstrate the advanced agricultural technologies through exhibits, and presentations.
4. To deliberate on challenges and concerns related to the adoption of advanced agricultural technologies, and potential solutions.
5. To deliberate on the possibilities of further conceptualization and development of the advanced agricultural technologies.

Themes

- Climate smart and resilient and conservation technologies
- Geo-informatics, real-time digital and precision technologies
- Intelligent systems
- Other advanced agricultural technologies



Programme and Technical Sessions

Date: 20 December, 2023

0830 to 0945 h	Breakfast and Networking
1000 to 1100 h	Inauguration
1100 to 1130 h	Hi-tea, Networking break
1130 to 1300 h	Key Note Session-I (Digital Technologies for Agriculture)
1300 to 1400 h	Lunch break
1400 to 1530 h	Technical Session-I (Climate smart and resilient and conservation technologies) CAAST Projects Presentations Presentations of accepted research and practioners papers
1530 to 1600 h	Poster presentation, Networking and hi-tea
1600 to 1730 h	Technical Session-II (Geo-informatics, real-time digital and precision technologies) CAAST Projects Presentations Presentations of accepted research and practioners papers

Date: 21 December, 2023

0930 to 1100 h	Technical Session-III (Intelligent systems) CAAST Projects Presentations Presentations of accepted research and practioners papers
0930 to 1100 h	Special Session Reflection of NAHEP Authorities, Vice Chancellors and NAHEP-PIU Unit and the Way forward
1100 to 1130 h	Poster presentation, Networking and hi-tea
1130 to 1300 h	Technical Session-IV (Other advanced agricultural technologies) CAAST Projects Presentations Presentations of accepted research and practioners papers
1300 to 1400 h	Lunch
1400 to 1530 h	Key Note Session-II (Digital Technologies for Agriculture)
1530 to 1600 h	Hi-tea, Networking
1600 to 1730 h	Concluding Session



Call for Papers

Category of papers

The papers are invited on one or more themes of the conference in following categories from:

- **Academician, Scientists and Researchers:** The research papers based on the development and applications of advanced agricultural technologies.
- **Entrepreneurs, Start-ups, Practitioners and Industries:** The practitioners/ description papers based on the developed and under development advanced agricultural technologies.
- **Students:** The papers on the development of the concepts, framework and systems for the advanced agricultural technologies.
- **Others:** The papers on challenges, issues and policies; and measures for wider adoption advanced agricultural technologies.

Acceptance of the Papers and Form of the Presentations

The papers submitted for the Conference will be entered through the peer review process and depending on the comments from the reviewers, the accepted papers will be considered for the "Oral" or "Poster" presentations.

The Submission of the Papers

- **The format:** The formats of the papers to be submitted in various categories are available at <https://mpkv-cff2023.in/Home/icaat/1>
- The papers in the prescribed format need to be uploaded at <https://mpkv-cff2023.in/Home/icaat/1> and/or emailed to info@mpkv-cff2023.in



Publication of the Papers

All the papers accepted in various categories and presentation forms will be published in the Conference Proceedings after due modifications by the authors/presenters as per the comments received during the presentations. The selected papers from all the categories accepted for oral presentations will also be published in the "Journal of Agricultural Research and Technology" jointly published by all the four agricultural universities in the State of Maharashtra after processing thorough the review process of the journal.

Awards

The poster presentations of the scientists/faculties and practitioners; and the oral and poster presentations of the students will be evaluated by the International and National Experts and the selected oral and poster papers will be awarded in various categories.

Key Dates

- **Registration**
 - With normal registration fees: **8 December, 2023**
 - With late registration fees: **15 December, 2023**
- **No on-spot registration**
 - The registration will be closed once the prescribed numbers of delegates have registered.
- **Paper submissions**
 - Last date of submission of papers: **8 December, 2023**
 - Communication regarding the final acceptance: **12 December, 2023**
- **The dates of the Symposium**
 - 20-21 December, 2023**

Registration

Registration Fees

For participation only

- **Registration fee for the participants other than students: Rs. 10000/-** and late registration fee (i.e. registration after 15 December, 2023): **Rs. 15000/-**
- **Registration fee for the students: Rs. 4000/-** and late registration fee (i.e. registration after 15 December, 2023): **Rs. 6000/-**

For participation with paper presentation

- Registration fee for the presenting author of the paper accepted for the **oral presentation** (however registration is mandatory): **Rs. 3000/-**
- Registration fee for the presenting author of the paper accepted for the **poster presentation** (however registration is mandatory): **Rs. 5000/-**
- Registration fee for presenting author (**if student**) of the paper accepted for the **oral and/or poster presentation** (however registration is mandatory): **Rs. 500/-**
- Registration fee for the authors whose submitted papers have not been accepted for oral or poster presentation and desire to participate: **Rs. 10000/-** and if student: **Rs. 4000/-**

Mode of Payment

Online and links will be available during the Registration Process.

Registration includes

- Access to the Inaugural and Closing Programs, Key Note Sessions and Technical Sessions
- Access to other parallel Symposia (depending on availability of seats)
- Opportunity for networking with National and International Experts, Industries, Start-ups, Entrepreneurs, Students and Farmers
- Registration kit with the specified literature
- Snacks/Lunch during the Symposium

Click here to

Register

Click here for Registration

Accommodation

Limited accommodations are available in the guest houses of NCL (CSIR), IITM, IMD, IE(I), NIV, ICAR-NRCs, University of Pune and Govt. guest houses on first-come first-serve and payment basis. The participants can contact them directly or indicate the requirement during the registration process (while submitting the application form). Accommodation will not be available at MPKV Guest houses in Pune. There are plenty of hotels in Pune and especially near the venue of the Symposium. The participants are advised to book these hotels, if required, in advance. The list of the hotels along-with the contacts and the tariffs is available at the Symposium Website.



Organizers

About CAAST-CSAWM

The project entitled "**Center for Advanced Agricultural Science and Technology (CAAST) on Climate Smart Agriculture and Water Management (CSAWM)**" is being implemented in Mahatma Phule Krishi Vidyapeeth (An Agricultural University), Rahuri, Maharashtra under World Bank Sponsored National Agricultural Higher Education Project (NAHEP) of Indian Council of Agricultural Research (ICAR), New Delhi, Government of India, Since 2018. The major objectives of CAAST-CSAWM project are;

- To develop the capacity amongst the faculties and scientists for the development and adoption of Precision Farming, Climate Smart Agriculture and Water Management Technologies
- To start a one-year Post-Graduate Diploma in "Climate Smart Agriculture and Water Management" for developing human resources to create entrepreneurship and enhance employability in the public sectors and private industries, strengthen the current M.Sc., M. Tech. and Ph.D. programme (for their research projects, and make provision for the prospective beginner/middle-level faculties/researchers for Post Doctorate studies in precision water management, precision climate-smart agriculture and Geoinformatic
- To develop an integrated system including RS/GIS and GPS tools, modelling and SDSS tools using unmanned aerial system (UAS aka. drone) and sensor-based technologies, mobile applications and their applications climate-smart and precision agriculture and water management
- To conduct end-to-end capacity building through on-the-job training and case study-based learning; enhance the employment and placement rate; and business and entrepreneurship opportunities
- To develop the capacity amongst the faculties and students of MPKV Rahuri and other Agricultural Universities and related organizations for the development and adoption of the precise Climate Smart Agriculture and Water Management technologies as well as to conduct on-the-job training and case study based learning to enhance the employment and placement rate; and business and entrepreneurship opportunities.

With this background, CAAST-CSAWM, MPKV, Rahuri is organising International Conclave "**Futuristic Farming**" during 20-21 December, 2023 at Pune.

[Click here to know more about CAAST-CSAWM](#)

Organizing Committee

- **Patrons**
Dr. Prashantkumar Patil, Hon'ble Vice Chancellor, Mahatma Phule Krishi Vidyapeeth, Rahuri
Dr. R.C. Agrawal, Deputy Director General (Edu.) and National Director, ICAR-NAHEP, New Delhi
- **Convenors**
Dr. Sunil Gorantiwar, Director of Research; Head (Ag. Engg.) & Principal Investigator (CAAST-CSAWM), MPKV Rahuri
Dr. Anuradha Agrawal, National Coordinator (CAAST), ICAR-NAHEP, New Delhi
- **Organizing Secretary**
Dr. Mukund Shinde, Professor and Co-Principal Investigator (CAAST), MPKV Rahuri (+91-9960371323)
- **Joint Organizing Secretary**
Dr. Adhir Aher, Assistant Professor (Ag. Botany), MPKV Rahuri (+91-9822679884)
- **Co-Ordinators**
Dr. Shubhangi Ghadge, Research Associate (CAAST) (+91-8275441210), **Er. Vishal Pandey**, Sr. Research Fellow (Smart Irrigation) and **Er. Shubham Supekar**, Sr. Research Fellow (Canal Automation), MPKV Rahuri

For updates, visit: <http://mpkv-cff2023.in/>

World Bank Aided
ICAR- National Agricultural Higher Education Project (NAHEP)
Centre for Advanced Agricultural Science and Technology
for Climate Smart Agriculture and Water Management
(CAAST-CSAWM)

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