

Conclave on

Academia, Industry and Government together finding the solutions to transform Agriculture to SMART & Sustainable

Emerging Technologies for SMART & Sustainable Agriculture

Register at

<https://forms.gle/3opHij1E4TFHqhmX5>



etssa2025@gmail.com

ETSSA - 2025



Venue: Pal Auditorium ,
PAU, Ludhiana

24.03.2025

Deliberations on SMART technologies to make the agriculture sustainable

Jointly organized by

Electron Microscopy and Nanoscience Lab, Directorate of Research
Punjab Agricultural University, Ludhiana

and

Punjab State Council for Science & Technology

Supported by : Government of Punjab



Brief about Conclave

The advent of recent technologies in agriculture has heralded a new era of innovation and efficiency. As the global population continues to grow, the demand for sustainable food production has become more pressing than ever. Integrating advanced technologies such as Hyperspectral Imaging, IoT-enabled Sensing, and Crop Production Prediction to meet these challenges offers promising solutions. The **ETSSA-2025** conclave at **Punjab Agricultural University** platform in collaboration with **Punjab State council for Science and Technology** will lead to discussions that delve into the transformative potential of emerging SMART agricultural technologies in flourishing the sustainable agriculture.

The technical session from industry and academia will provide solutions for agriculture sector touching the following topics while discussion is not limited to boundaries of the topics.

Themes

- Smart materials for sustainable agriculture
- Hyperspectral Imaging in agriculture
- IoT-enabled sensing in agriculture
- Crop production prediction technologies
- AI-enabled early prediction of diseases

Registration Link

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Prominent Keynote Speakers

Session I

10:00 – 11:00 am

Prof. Satbir Singh Gosal

Vice Chancellor, PAU

Prof. Sukhpal Singh

Chairman, Punjab State Farmers' and
Farm Workers' Commission

Prof. Rajeev Ahuja

Director, IIT Ropar

Dr. Brijendra Pateriya

Director, Punjab Remote Sensing Center

Smt. Shailender Kaur

Director, Dept. of Horticulture

Prof. Jatinder Pal Singh

Vice Chancellor, GADVASU

Er. Pritpal Singh

Executive Director, PSCST

Seema Bansal

Vice Chairman

Punjab Development Commission

Dr. Jaswant Singh

Director, Dept. of Agriculture &
Farmer Welfare

Prominent Panellists - Best Technologies

Session II

11:30 – 12:30 pm

Dr. M A Kumar

INFOSYS, Mysuru

Dr. Gurpreet Selopal

Faculty, Dalhousie Uni, Canada

Dr. Manjeet Singh

Dean, College of Agri.
Engg. & Tech. PAU

Dr. Samanpreet Kaur

Prof. Soil Water & Engg.
PAU, Ludhiana

Dr. Pushpinder Singh

Project Director
AWADH, IIT, Ropar

Dr. Nitika Sandhu

Molecular Geneticists,
SOAB, PAU, Ludhiana

CEO

World Economic Forum
Mumbai

CEO

AgNext, Agri Startup
Mohali

Session III

12:30 – 1:30 pm

Prominent Panelist - Open Dialog for finding the Solutions

Dr. Ajmer Singh Dhatt

Director of Research, PAU, Ludhiana

Dr. Dapinder Kaur Bakshi

Joint Director, PSCST

Dr. Parkash Singh Brar

Director of Research, GADVASU Ludhiana

Dr. Raj K Setia

Scientist, PRSC, Ludhiana

Dr. Navtej Singh Bains

Former Director of Research, PAU, Ludhiana

Young, Startups

Progressive Farmers

Registration Form

The registration for academic participants, starts-ups from academia or industry is essential for participation. Technologies can be demonstrated in the form of Poster (90 X 30 cm) for Students, Postdocs and Faculty.

All the participants are encouraged to display their SMART technologies related to agriculture only and win **Best poster award** for best technological display.

For **START-UP EXPO** start ups will register and participate in **Start-up award competition**. Last session of conclave will be dedicated to the selected startups to show case their technologies. 5 mins will be awarded per presentation to pitch their idea.

E- Certificates will be provided to all the registered participants who attend all the three technical Sessions and submit their FEEDBACK on the link provided in last session of the conclave.

Note: Only one entry per startup is allowed to show case their technology for START-UP award competeion

Registration Link

<https://forms.gle/3opHij1E4TFHqhmX5>

Name : _____

Designation : _____

Affiliation: _____

Email: _____

Contact no.: _____

Address : _____

Participation Type (Tick)

Student/Postdoc _____

Faculty _____

Start Up (Academic) _____

Start Up (Other) _____

**ABSTRACT Submission
through Registration Link**

Signature

Conclave Coordinator

Dr. Mehra S. Sidhu (Nanotechnologist (Physics))

Contact no. +91-9779557712, etssa2025@gmail.com

Organizing committee

CHIEF PATRON

Dr Satbir Singh Gosal, Vice Chancellor, PAU Ludhiana
Er. Pritpal Singh, Executive Director, PSCST

PAU PATRONS

Dr. Rishi Pal Singh, Registrar
Dr Ajmer Singh Dhatt, Director of Research

PSCST PATRONS

Dr Dapinder Kaur Bakshi, Joint Director, PSCST

PAU EXECUTIVE COMMITTEE

Dr M I S Gill, Dean Post Graduate Studies
Dr M S Bhullar, Director of Extension Education
Dr C S Aulakh, Dean, College of Agriculture
Dr Manjeet Singh, Dean, College of Agricultural Engineering and Technology
Dr Kiran Bains, Dean, College of Basic Sciences & Humanities
Dr G S Mangat, Additional Director of Research (Agriculture)
Dr T S Riar, Additional Director of Communication

PSCST EXECUTIVE COMMITTEE

Dr Alkesh, Principal Scientific Officer, PSCST
Dr. Manpreet Singh, Scientist, PSCST
Er. Anuj Goel, Scientist, PSCST

CONCLAVE ADVISORS

Dr Ajmer Singh Dhatt, Director of Research
Dr G S Mangat, Additional Director of Research (Agriculture)
Dr Anu Kalia, Scientist (Nanoscience)
Incharge, Electron Microscopy and Nanoscience Lab

CONCLAVE COORDINATOR

Dr Mehra Singh Sidhu
Nanotechnologist (Physics)
Electron Microscopy and Nanoscience Lab,
Contact no. +91-9779557712, etssa2025@gmail.com

Scientific Committee

Dr. Anjali Sidhu (Nanotechnologist (Chemistry)), **Dr. Kiranjeet** (Asst. Prof. Nanoscience),
Dr. Gurkirat Kaur (Asst. Prof. Nanoscience), **Dr. Nitish Dhingra** Nanotechnologist (Physics),
Electron Microscopy and Nanoscience Lab, Directorate of Research, PAU, Ludhiana