



# 5<sup>th</sup> Conference on Plasma Simulation

January 21 -23, 2026

**IPS Academy, Centre for Scientific and Applied Research, Indore  
Indian Institute of Technology Indore (IITI)**



**CSAIR**  
Centre for Scientific and Applied Research



## About CPS- 2026

The **Conference on Plasma Simulation (CPS)** is a premier forum dedicated in advancing computational plasma physics, uniting research on plasma sources and processes in both space and laboratory environments. Since its inception at the **Indian Institute of Science (IISc), Bengaluru in 2018**, CPS has become a biennial platform where theory, computation, and experimentation converge to drive innovation. Now, in **2026**, CPS enters an exciting new chapter as it will be jointly hosted by **IPS Academy and IIT Indore**, bringing the conference to the heart of Central India. This edition promises to be bigger and more impactful, uniting the plasma community at a location that blends scientific vibrancy with cultural heritage.

With India's rapid progress in space exploration, fusion research, and plasma-based technologies, simulations now play a central role optimizing technological plasmas, reducing costly experiments, and unlocking parameters that are otherwise difficult to access. By focusing on cutting-edge modeling techniques, CPS not only accelerates academic discovery but also enables transformative industrial applications, making it a cornerstone in shaping the future of plasma science and technology.

## Topics of CPS-2026

- Plasma surface interaction
- Plasma diagnostics
- Magnetic and inertial fusion
- Simulation and modelling of space and astrophysical plasma
- Gyro-kinetic and gyro-fluid methods
- MHD, other fluid methods of plasma
- Plasma Discharges: DC, RF, and Microwave
- Industrial applications of plasma
- Plasma propulsion and aerodynamics
- Applications of AI-ML in plasma

## Support for Students/RA

Round-trip 3-tier AC train fare (via the shortest route) & local hospitality, including meals & shared accommodation for 3 nights

## Contact Details

Phone Number: 0731- 4014693/694  
Email: [cps2026indore@gmail.com](mailto:cps2026indore@gmail.com)  
Website: [www.ipr.res.in/CPS/cps2026/](http://www.ipr.res.in/CPS/cps2026/)

## Important dates

Abstract Submission opens: 1<sup>st</sup> November 2025  
Abstract Submission Deadline: 30<sup>th</sup> November 2025  
Registration opens: 1<sup>st</sup> December 2025  
Registration deadline: 31<sup>st</sup> December 2025

## National Advisory Committee

- Ar. Achal Choudhary, President IPS Academy, Indore
- Dr. Tapas Ganguli, Director, IPR Gandhinagar
- Prof. Abhirup Datta, Dean R&D, IIT Indore
- Prof. Kandaswamy Subramanian, Ashoka University
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- Dr. Anand Moorti, RRCAT Indore
- Dr. Sanjay Wandhekar, CDAC-Pune
- Prof. Avinash Khare, Ex VC, Sikkim University

## Scientific Organising Committee

- Dr. Nishant Sirse, IPSA Indore (Co-convener)
- Dr. Bhargav Vaidya, IIT Indore (Co-convener)
- Dr. Sarveshwar Sharma, IPR Gandhinagar (Convener)
- Dr. Mrityunjay Kundu, IPR Gandhinagar
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- Prof. Animesh Kuley, IISc, Bangalore
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