

5th Conference on Plasma Simulation

January 21 -23, 2026

IPS Academy, Centre for Scientific and Applied Research, Indore
Indian Institute of Technology, Indore



About CPS- 2026

The **Conference on Plasma Simulation (CPS)** is a premier forum dedicated to 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, Indore, 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
- MHD, other fluid methods of plasma
- Gyro-kinetic and gyro-fluid methods
- Plasma Discharges: DC, RF, and Microwave
- Industrial applications of plasma
- Plasma propulsion and aerodynamics
- Applications of AI-ML in plasma

Important dates

Abstract Submission opens: 1st November 2025
Abstract Submission Deadline: 30th November 2025
Registration opens: 1st December 2025
Registration deadline: 31st December 2025

Local Organizing Committee

- Dr. Shilpi Misra, IPSA CSAR, Indore
- Dr. Narayan Sharma, IPSA CSAR, Indore
- Dr. Rituraj Sharma, IPSA CSAR, Indore
- Dr. Rupal S Tomar, IPSA CSAR, Indore
- Mr. Avadhesh Maurya, IPR, Gandhinagar
- Manish Pathak, RRCAT, Indore
- Shruti Sharma, IPSA CSAR, Indore
- Akanshu Khandelwal, IPSA CSAR, Indore
- Shivani Geete, IPSA CSAR, Indore
- Meenal Khare, IPSA CSAR, Indore
- Devesh Sharma, IIT, Indore
- Aditya Sharma, IIT, Indore
- Sirsha Nandy, IIT, Indore
- Eknor Kaur, IIT, Indore

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- Dr. Tapas Ganguli, Director, IPR Gandhinagar
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- Dr. Sanjay Wandhekar, CDAC-Pune
- Prof. Avinash Khare, Ex VC (Sikkim University)

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- Prof. Durgesh Tripathi, IUCAA Pune
- Dr. S K Jain, RRCAT Indore

Coordinators

Dr. Nishant Sirse, IPS Academy, Indore
Dr. Bhargav Vaidya, DAASE, IIT, Indore

Convener

Dr. Sarveshwar Sharma, IPR Gandhinagar

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