

PLASMA 2025



40th PSSI National
Symposium on

Plasma Science and Technology

for Sustainable Future
Dec 27-29, 2025

Technical Tracks

- Plasma Fundamentals & Diagnostic
- Fusion Science & Technology
- Simulation, Modelling, & AMP data
- AI/ML & Quantum Computing in Plasma
- Surface Plasmon Polaritons Sensors and Radiators
- High Power Microwave Devices
- Pulsed, Laser, Dusty & Exotic Plasmas
- Space & Astrophysical Plasmas
- Thermal Plasma & Additive Manufacturing
- Plasma Applications in Materials, Medicine, Environment, and Agriculture



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Yerpedu - 517619,
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Selected PLASMA 2025 contributions will feature in
IEEE Transactions on Plasma Science (Special Issue)

Abstract
Submission

Closing Date
**20 SEP
2025**

Registration

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**01 OCT
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PLASMA 2025

Plasma science, engineering, and technology play a pivotal role in advancing modern industries, providing a unique environment rich in ions, neutrals, photons, and reactive species across diverse densities and energy distributions. These properties enable applications in semiconductor manufacturing, materials processing, surface modification, additive manufacturing, and precision etching, while also driving innovations in energy generation, fusion research, propulsion systems, and nanotechnology. Recent advancements in near-room-temperature plasma have expanded its use in biomedicine, environmental remediation, food processing, and sustainable agriculture. Ongoing research continues to drive scientific breakthroughs and industrial advancements, shaping the future of emerging technologies. The 40th Plasma 2025 Symposium, the nation's largest in this field, will bring together researchers, industry leaders, and policymakers to discuss the latest developments, challenges, and future directions for sustainable plasma aided technologies.

IIT Tirupati is a premier institution of national importance, established in 2015. The institute is situated on a sprawling 548.3 acre campus, complemented by an additional 19 acres allocated explicitly for innovation and entrepreneurial activities. Under the dynamic and visionary leadership of its founding director, **Prof. K.N. Satyanarayana**, it stands out as one of the fastest-growing among the 3G IITs. Renowned for its robust academic programs and pioneering research initiatives, the institute places a strong emphasis on innovation in engineering and technology. With state-of-the-art facilities, IIT Tirupati actively collaborates with industries and research organizations in India and abroad to foster technological advancements. As a burgeoning educational hub, it is committed to excellence in science and engineering, shaping the future of aspiring technologists and innovators.



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