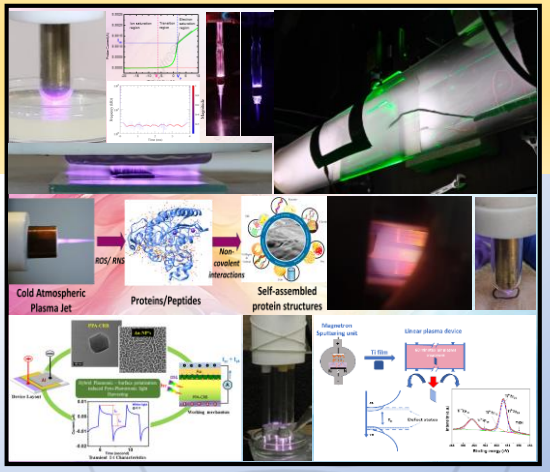
# 12th PLASMA SCIENCE SOCIETY OF INDIA-PLASMA SCHOLARS' COLLOQUIUM (PSSI-PSC 2026)

**Date: July 09-11, 2026**




*Organized by,*

**Institute of Advanced Study in Science and Technology (IASST), Guwahati**
**&**
**Plasma Science Society of India (PSSI)**

*Venue*

**Dr. APJ Abdul Kalam Auditorium, IASST, Paschim Boragaon, Guwahati 781035, Assam, India**

## IMPORATNT DATES

| | |
|---|---|
| Abstract Submission Opens: | April 02, 2026 |
| Abstract Submission Deadline: | ~~April 30, 2026~~ May 15, 2026 |
| Acceptance of Abstracts and Registration Opens: | May 19, 2026 |
| Registration Deadline: | June 30, 2026 |
| Complete Paper Submission: | June 30, 2026 |
| Colloquium Dates: | July 09-11, 2026 |

## FEE DETAILS:

| Participants Category | Amount |
|---|---|
| Students/ Research Scholars / Postdoctoral Fellows | ₹ 1500/- |
| Faculties/ Scientists | ₹ 3000 /- |
| Industry Representatives | ₹ 5000 /- |

## ABSTRACT SUBMISSION:

Submit your abstract in the following link: https//event.ipr.res.in/event/17 or QR code

## CONFERENCE WEBSITE:

https://sites.google.com/view/iasst-pssi-psc2026/home

## REGISTRATION:

All participants are required to register for the colloquium. Details of payment modes will be available on the colloquium website. On-line/off-line registration may be accepted, and it can be done through the colloquium website or at the colloquium venue.


**For More Information, Contact:**
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- **Prof. Arup Ratan Pal, IASST**

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## About PSSI-PSC

The Plasma Science Society of India (PSSI) initiated the Plasma Scholars' Colloquium (PSC) series in 2012, and it has been held annually ever since. The primary goal of this colloquium is to create an exclusive platform for UG/PG students, research scholars, and post-doctoral fellows working in the field of plasma science and technology to have extremely thorough and exhaustive interactions among themselves and help each other in their research endeavors. The colloquium will primarily have the student community giving oral and poster presentations with a few seminal talks by eminent plasma scientists across the country.

## About IASST

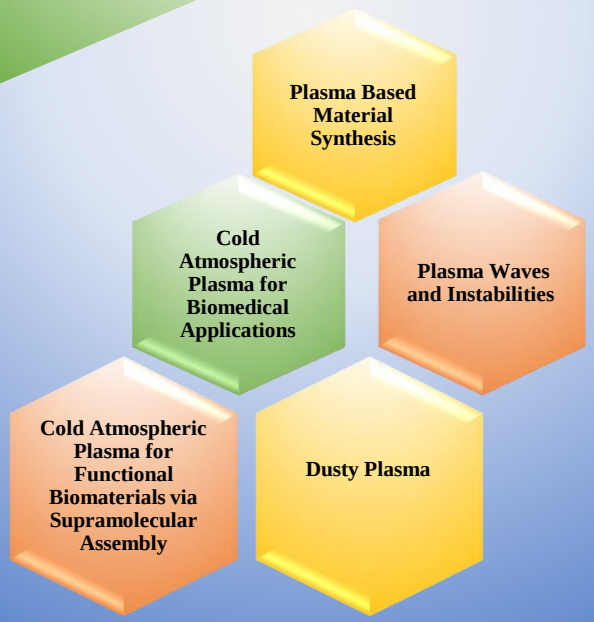
Institute of Advanced Study in Science and Technology (IASST) is a premier scientific research organization in the north-east region, IASST was conceived and nurtured by the Assam Science Society in its initial years and was inaugurated by Noble Laureate Dorothy C. Hodgkin on 3rd November 1979. Subsequently, it was supported by the state govt. as its autonomous R&D institute till March 2009. The institute was taken over in March 2009 by the Ministry of Science and Technology, Govt of India as one of its autonomous R&D Institutes.

The Institute is engaged in multidisciplinary research activities, both in fundamental and applied, across frontier areas of science and technology such as Plasma Physics, Polymer Sciences, Biochemistry, Drug Design & Development, Nano-science, Medicinal Plants, Seri Biotechnology, Microbial Biotechnology, Environmental Sciences, etc.

The vision of the Institute is to emerge as a center of excellence in frontier research areas of physical and life sciences with international visibility and building human resources towards advanced scientific knowledge for societal development.

## Plasma Research at IASST, Guwahati

The Basic and Applied Plasma Physics (BAPP) program at IASST is focused on two broad areas: 1) Basic Plasma Science which mainly includes study of waves and instabilities and 2) Applied Plasma Science. The thrust areas of basic research are waves and instabilities in linear plasma device and in dusty plasma. Very low density plasma with near ionospheric plasma condition has also been experimentally realised using a magnetic filter. In the applied plasma, research are conducted on the biomedical application of Cold Atmospheric Pressure Plasma (CAP), i.e., inactivation of multi drug resistance microbes, inflammation treatment, skin cancer treatment etc. CAP have been utilized for various applications including deposition of composite polymer films with selective properties on metal surfaces as well as water purification. A liquid plasma discharge reactor has been developed and utilized it for the synthesis of nanomaterial in water/ionic liquid. Research is also being carried out on the development of Proton Exchange Membrane Fuel Cell (PEMFC) and efficient electrode assembly with the incorporation of nanostructured catalyst using plasma. An emerging direction focuses on CAP-driven supramolecular assembly of biomolecules enabling fabrication of functional biomaterials and CAP for biomedical applications with environmental remediation.




**The conference is planned to be conducted in different sessions covering following aspects of plasma science & technology:**

- Fundamental Plasma (Theory and Experiments)
- Plasma for Energy and Space
- Plasma for Environment and Health
- Plasma Based Material Processing

**The broad areas that will be covered in these sessions are:**

- Fundamental Plasma Physics
- Plasma Diagnostics
- Plasma Simulation
- Exotic Plasmas (Including Dusty Plasma)
- Industrial Plasma Applications
- Laser Plasmas
- Nuclear Fusion & Technology
- Space & Astrophysical Plasmas
- Any other Plasma area

## Who Can Apply:

The colloquium is open ONLY to research scholars working in theoretical/ computational and/ or experimental plasma science and technology. The number of participants is limited to about 60**.**

## Abstract template

The Template of the Abstract is available in the following link: https//event.ipr.res.in/event/17 . Last date for Abstract submission is April 30, 2026. **Abstracts submitted using the above templates** will only be accepted. For more information, please visit the website.

Only soft copy of abstracts/conference proceedings will be accepted.

QR code for the abstract submission link:

## How to reach IASST, Guwahati

To reach the IASST, Guwahati, you can use various modes of transportation according to your convenience.

The distance of IASST, Guwahati from key spots in Guwahati:

- 15 km from LGBI Airport, Guwahati
- 11 km from Kamakhya Railway Station, Guwahati
- 17 km from Paltan Bazar Railway Station, Guwahati
- 5.5 km from Inter-State Bus Terminus, Guwahati