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(Head Physics)
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❖ Dr. Satyananda Kar (Co-
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❖ Mr. Saidul Sk.

IMPORTANT DATES

Abstract Submission Opens:	April 15, 2024
Abstract Submission Deadline:	May 10, 2024
Acceptance of Abstracts and Registration Opens:	May 25, 2024
Registration Deadline:	June 10, 2024
Complete Paper Submission:	June 30, 2024
Colloquium Dates:	July 04-05, 2024

ABSTRACT SUBMISSION:

[Click here to submit your abstract for PSSI-PSC2024](#)

FEE DETAILS:

Participant Category	Amount
Faculty & Scientists	₹ 3,500.00/-
M.Sc./ Ph.D. Students/ Postdocs	₹ 2,500.00/-

REGISTRATION:

The participants can register and pay the registration fee using the following link:
<https://sites.google.com/view/psc-2024iitd/registration>

BANK DETAILS FOR REGISTRATION:

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

For more Information, Contact:

Prof. Ramesh Narayanan (Convenor)

Prof. Satyananda Kar (Co-Convenor)

PSSI-PSC 2024

Department of Energy Science & Engineering [DESE]
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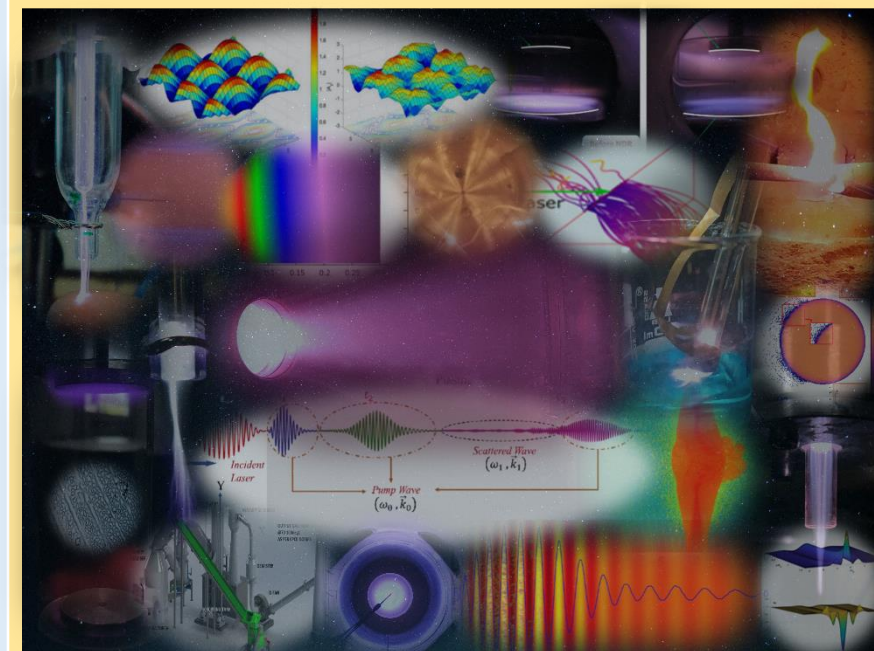
Website: <https://sites.google.com/view/psc-2024iitd>

10th PLASMA SCIENCE SOCIETY OF INDIA

PLASMA SCHOLARS' COLLOQUIUM

(PSSI-PSC 2024)

July 04-05, 2024



Organized by

PLASMA SCIENCE SOCIETY OF INDIA [PSSI]
&
DEPARTMENT OF ENERGY SCIENCE & ENGINEERING [DESE]
DEPARTMENT OF PHYSICS
INDIAN INSTITUTE OF TECHNOLOGY DELHI

Venue

**Lecture Hall Complex (LHC)
Indian Institute of Technology Delhi
Hauz Khas, New Delhi, India**



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 IIT Delhi:

Indian Institute of Technology Delhi (IITD) is one of the 23 IITs created to be Centers of Excellence for training, research and development in science, engineering and technology in India.

- Established as College of Engineering in 1961
- Renamed as Indian Institute of Technology Delhi under the "Institutes of Technology (Amendment) Act, 1963"
- Accorded the status of a Deemed University with academic autonomy thereafter.
- Thousands of students have graduated in various disciplines: Engineering, Physical Sciences, Management, Humanities & Social Sciences since inception
- Alumni of IIT Delhi have contributed significantly to building of the nation and to industrialization around the world.
- For more insight, please visit the official [website](#) of IIT Delhi.

Department of Energy Science & Engineering :

Realizing the need for education and research in the field of energy, the Government of India established a national Centre for Energy Studies (CES) at the Indian Institute of Technology Delhi in the year 1976 which was later converted to Department of Energy Science and Engineering (DESE) in 2021. DESE has worked towards:

- Initiation of research and development activities on conventional and non-conventional energy sources.
- Introduction of UG & PG programmes dedicated to equip students with knowledge and skills for tackling energy and environment sector challenges.
- Aimed at providing sustainable energy solutions that are accessible, available, and affordable.
- Abundant placement opportunities in energy sectors for graduates from the department over the past few decades. Alumni of the department have worked at various levels in the energy sector.
- Currently department has **five faculty members with plasma expertise**.
- For more information, please refer to the official [website](#) of DESE.

Department of Physics:

Physics department, established in 1961, is one of the largest departments in IIT Delhi with 56 faculty members currently.

- One of the most esteemed physics departments in India with international research reputation and collaborations worldwide.
- The department's key assets include its students and state-of-the-art facilities.
- Faculty members have received numerous awards and fellowships, including SS Bhatnagar awards, ICO Galileo Galilei Awards, and MRSI medals.
- Recognition extends internationally, with faculty serving on editorial boards and technical program committees of prestigious publications and conferences.
- **Four faculty members specialize in plasma research** within the department.
- For more, please refer to the official [website](#) of the department.

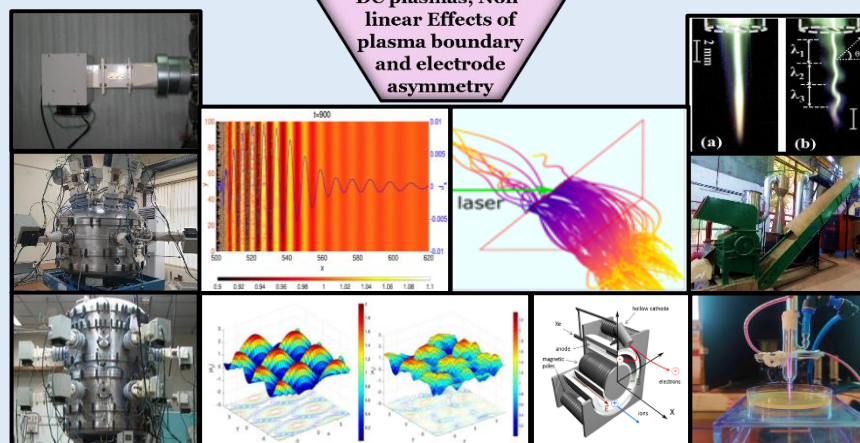
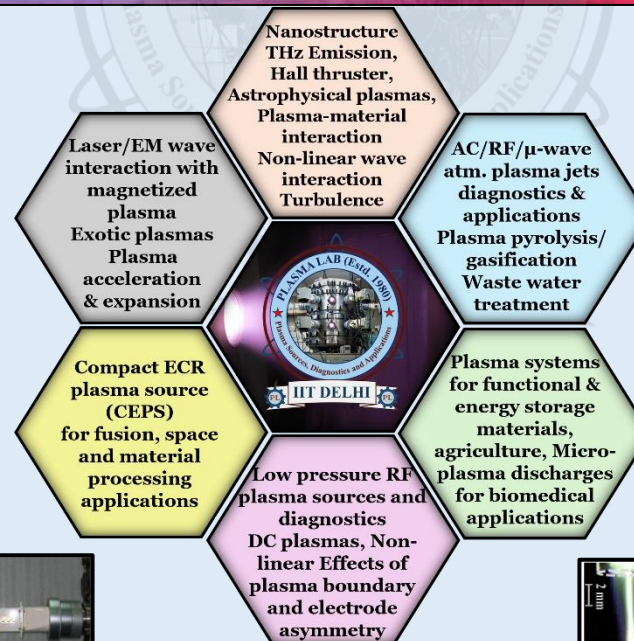
Plasma Science & Technology Group at IIT Delhi (PSTG:IITD)

Theoretical plasma research at IIT Delhi was initiated by Prof. M. S. Sodha in the 1960s whereas the experimental activities, with full support of Prof. M. S. Sodha, were initiated by Prof. Ashish Ganguli in early 1980s that led to the establishment of the "Plasma Physics Laboratory (PPL:IITD)" under the Centre for Energy Studies [currently Department of Energy Science and Engineering] with collaborations from various faculty from the Department of Physics, IIT Delhi. The goals of the PPL:IITD lab evolved over a period as follows:

- Initially focused on high power microwave plasma interaction in conducting waveguides and helicon waves.
- Evolved into one of the first experimental plasma laboratories in an educational institution.
- Shifted focus to developing ECR-based plasma sources for various industrial and scientific applications.
- Expansion of research areas includes ECR-based plasma thrusters, large-area hydrogen beam sources, high-pressure ECR plasma sources, RF plasma diagnostics, plasma-based functional materials, atmospheric plasma jets, and their applications.
- Subsequently other theoretical and experimental labs were also established.

Currently, under DESE there are four experimental labs viz., "Plasma Physics Laboratory", "ELNIBS Laboratory", "Multifunctional Plasma Laboratory", "Plasma Applications Laboratory" and one "Plasma Simulation Lab", whereas the physics department has the following labs: "Plasma Waves & Particle Acceleration Lab", "Theoretical Plasma Physics: Einstein Lab" and "Laboratory of Plasma Processing and Bio-physics" under the common banner "Plasma Science & Technology Group (PSTG:IITD)".

Ongoing Experimental and Theoretical Activities at PSTG:IITD



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
- Simulated Plasmas
- 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 100.

[Abstract template](#) is available on the PSC-2024 website. Last date for registration is May 10, 2024. Only soft copy of abstracts/conference proceedings will be accepted. **Conference proceedings should not be more than FIVE A4 sized pages.** Abstracts/Conference Proceedings need to be submitted online.

Submission of Abstract/Conference Proceedings:

Document **MUST** be in MS Office compatible .DOC or .DOCX format (save as .DOC if using Open Office). Running text should be in 12-point Times New Roman, justified, single space and should contain a brief introduction, salient aspects of the work and an extended description of the paper contents. **The maximum page length for abstract is ONE A4 sized page and Conference Proceedings is FIVE A4 sized pages.** Additional sub-sections may be added as required. Please use single space between paragraphs. Please avoid using figures, equations and tables in the abstract. **Abstracts/Conference proceedings submitted using the templates available in the PSSI-PSC 2024 website** will only be accepted. For more information, please visit the [website](#).

How to reach IITD?

- To reach the [Indian Institute of Technology Delhi \(IITD\)](#), you can use various modes of transportation according to your convenience.
- The distance of IIT Delhi from key spots in Delhi:
 - 10 km from Indira Gandhi International Airport (**DEL**)
 - 14 km from New Delhi Railway Station (**NDLS**)
 - 21 km from Old Delhi Railway Station (**DLI**)
 - 14 km from Hazrat Nizamuddin Railway Station (**NZM**)
 - 25 km from Anand Vihar Railway Station & ISBT (**ANVT**)
 - 25 km from Kashmere Gate **ISBT**
- IIT Delhi is well connected from these locations by road and metro which makes your journey hassle free to reach IITD conveniently.
- Please visit this [link](#) to know in detail about various transportation options that are available to reach IITD.