



The 4th State

Newsletter of the Institute for Plasma Research, Gandhinagar, Gujarat (India)

Issue 158

September 2026

Highlights of the Issue

Independence Day at IPR



82.6 GHz Gyrotron



Seminar Series on Spherical Tokamak



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Independence Day Celebration at IPR

80th Independence Day was celebrated in IPR with great enthusiasm and a deep sense of patriotism on August 15, 2026. The campus was decorated with tricolor flags, banners, and colorful balloons. Staff members from IPR, ITER-India & FCIPT and their families gathered for on campus for the celebration. IPR Director, Dr. Tapas Ganguli hoisted the National flag followed by rendition of the National Song and the National Anthem with pride. IPR Director addressed the gathering with an inspiring speech and brief about the recent achievements of IPR. Following the flag hoisting ceremony delicious breakfast and sweets were distributed to all.

After the breakfast, staff and their family members enjoyed fun games. Healthy lunch was served to all before the Independence Day celebration was concluded.

Conforming to the notification of the Govt. of India, several activities/competitions were organized in IPR for staff and their families.

The competitions included were: "Poster making, Extempore, Quiz, Essay Writing, Crossword, Rangoli and Solo Singing" with the theme of patriotism and Independence Day. Prizes were given to top three winners in each competition were awarded.



Photos of the Flag Hoisting ceremony



Independence Day Celebration at IPR

Here are the results of some of various competitions held as part of the Independence Day 2026

Solo Singing

1st Position	Yaman Parmar
2nd Position	Kuldeep Verma
3rd Position	Ashvini Bhardwaj

Poster

1st Position	Chaudhary Gopi
2nd Position	Smit Tabiyao
3rd Position	Jinal Yadav

Extempore

1st Position	Raunak Rathore
2nd Position	Ritesh Sugandhi
3rd Position	Shiv Shankar Sharma

Quiz

1st Position	Arvind Patel
2nd Position	Preet Purani
3rd Position	Karankkumar Parmar

Essay Writing

1st Position	Suhana Bansal
2nd Position	Arvind Patel
3rd Position	Adarsh Nair

Crossword

1st Position	Chaudhary Gopi K.
2nd Position	Ravi A Shishangiya
3rd Position	Akshay Khedkar

Rangoli

1st Position	Priyanka Verma
2nd Position	Megha Thaker
3rd Position	Snehlata

Congratulations to all the participants!

Independence Day Celebration at CPP-IPR



Centre Director Dr. S. R. Mohanty giving speech after hoisting the National Flag



Commissioning of 82.6 GHz Gyrotron and its integration with SST-1 Tokamak

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Electron Cyclotron Resonance Heating (ECRH) is a main heating system for Tokamaks and Fusion reactors. The main applications of ECRH are low-loop voltage plasma start-up, heating, current drive and control of instabilities in plasma. A standard ECRH system consists of a high power microwave source (Gyrotron), Corrugated waveguide based transmission line and quasi-optical launcher.

On SST-1 and Aditya-U Tokamaks, two ECRH systems (42GHz-500kW and 82.6GHz-400kW) are used for various experiments related to plasma breakdown and heating. The 82.6 GHz gyrotron capable to deliver 400 kW of RF power for 500 ms and was successfully commissioned and integrated with the existing ECRH system on SST-1. The Gyrotron was accurately mounted on the cryomagnet, while the mirrors of existing matching optic unit (MOU) were replaced and aligned to couple the power in the transmission line. The Gunn coil was installed and all necessary cooling and electrical connections were completed following the standard procedures. Cold high-voltage tests were carried out to validate the voltage withstand capability and overall tube integrity. At the starting state, low-power, short-pulse operation was carried out for precise MOU mirror alignment, the burn-pattern at various stages in the MOU and line confirms the correct beam propagation. The gyrotron subsequently achieved stable operation at its rated parameters of 400 kW for 500 ms on a water-cooled dummy load, the main parameters at the maximum power are beam voltage -45kV, beam current ~20A and anode voltage is ~+20kV.



Figure: 82.6 GHz Gyrotron

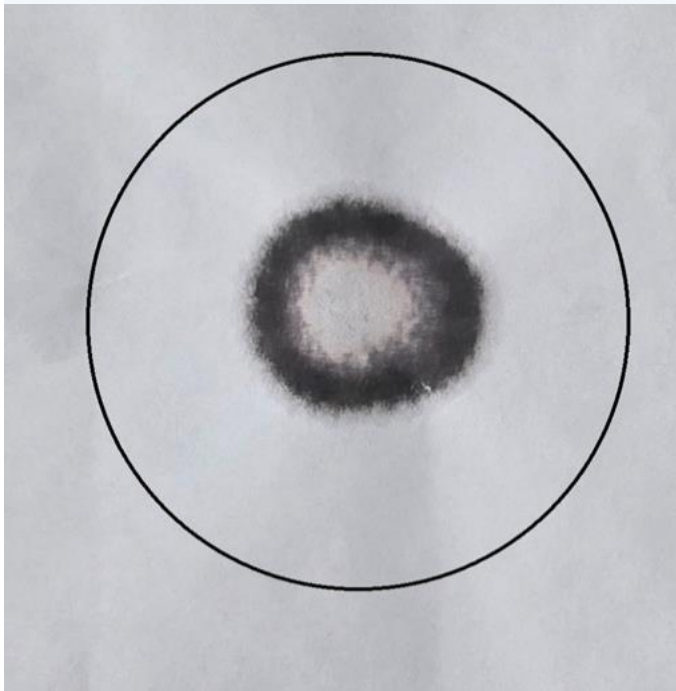


Figure: The observed Burn pattern

After the commissioning of Gyrotron on dummy load, the system was integrated with the SST-1 tokamak. Approximately 20 meter long transmission line is used to connect the Gyrotron with the tokamak. The ECRH launcher mirrors inside the SST-1 tokamak were also realigned to launch EC power to the desired plasma location, which was validated through burn-patterns observations inside the tokamak. Thus, the 82.6 GHz Gyrotron has been fully commissioned and integrated with the SST-1 machine successfully enabling the plasma heating experiments at fundamental as well as second harmonics.

During the recent SST-1 experimental campaign, the 82.6 GHz ECRH system was successfully utilized for plasma pre-ionization and heating. For the first time, SST-1 was operated at a toroidal magnetic field of ~2.8 T and 82.6GHz system also used first time on SST-1 for plasma breakdown and heating. During the ECRH experiments, the power is varied from 150kW to 300kW and the duration is also varied

from 75ms to 200ms power. This 82.6GHz system was also used for second-harmonic pre-ionization at 1.5 T with different polarization settings and achieved effective breakdown in synergy with Klystron based LHCD system.



Cryosorption of Hydrogen Isotopes on Zeolites for Application in Nuclear Fusion Systems

The realization of commercial fusion power depends not only on a sustained fusion plasma, but also on an **efficient fusion fuel cycle (FFC) system** capable of recovering, purifying and recycling hydrogen isotopes. In a fusion reactor, only a very small fraction of the deuterium-tritium (D-T) fuel is consumed in the plasma, making efficient recovery of the unburnt fuel essential to sustain the fusion reaction. In addition, tritium generated in the breeder blankets is transported in helium purge gas and must be efficiently separated from helium and other impurities before being refuelling back into the reactor. *Recovering and analyzing these valuable isotopes at trace concentrations is particularly challenging because of the very similar chemical properties of hydrogen isotopologues.*

This doctoral research focuses on the development of one of the critical technologies of FFC, the **Cryogenic Molecular Sieve Bed (CMSB)** for trace-level (100-1000 ppm) hydrogen isotopes removal from helium gas [1]. The work experimentally investigates the **adsorption** behaviour of hydrogen isotopes on commercial **zeolites** at 77.4 K, where **quantum sieving effects** enable efficient and reversible isotope capture. To understand and predict CMSB performance, a **multi-component mathematical model** incorporating adsorption equilibrium, mass-transfer kinetics and bed dynamics was developed and validated against laboratory-scale experiments [1]. The model successfully predicted isotope breakthrough behaviour under **ITER-relevant operating conditions**, providing useful insights into adsorption dynamics, isotope recovery, bed utilization, regeneration and process optimization.

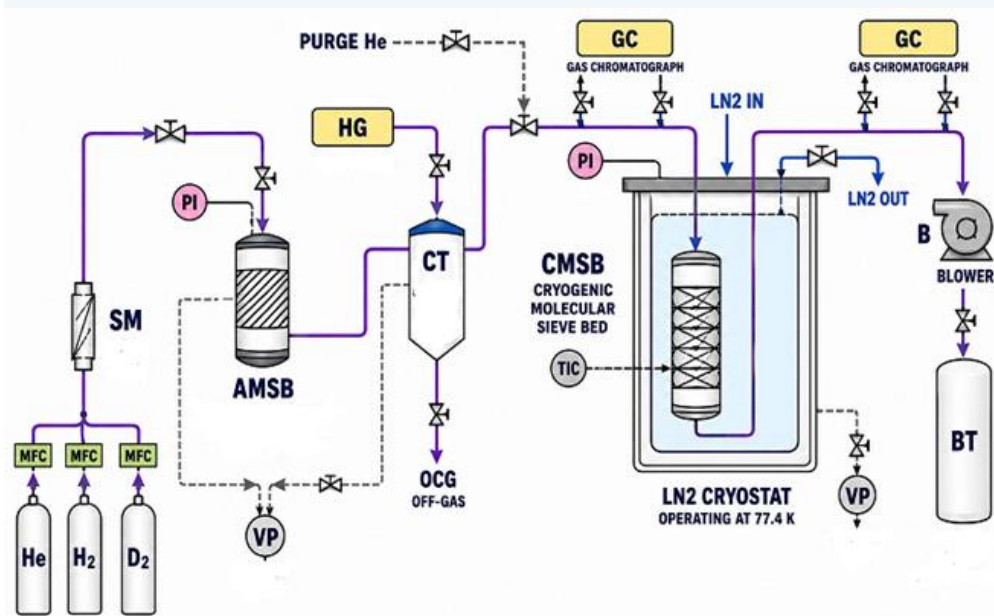


Figure 1: Schematic of the CMSB experimental system [MFC: Mass Flow Controller, VP: Vacuum Pump, HG: Hygrometer, AMSB: Atmospheric Molecular Sieve Bed, CT: Cold Trap, SM: Static Mixer, BT: Buffer Tank]

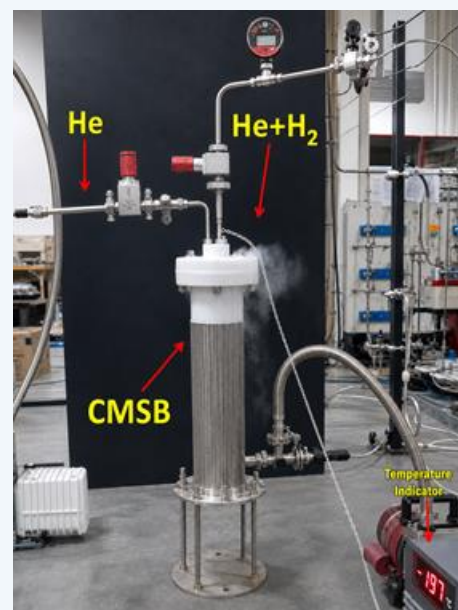


Figure 2: Lab-scale CMSB under operation

An online **gas chromatography (GC) based monitoring system** was also developed for rapid hydrogen-isotope accountancy in the fusion fuel cycle. Modified-alumina packed columns enabled the separation of trace hydrogen isotopes in **less than five minutes**, with a resolution of approximately 3 and sensitivity down to 1 ppm [2]. This provides a simpler, economical and robust approach for routine isotope monitoring in comparison with more complex analytical techniques such as mass spectrometry and laser Raman spectroscopy. The research further combined experiments with **molecular simulations and quantum-chemical calculations** to understand the fundamental interactions governing hydrogen adsorption and to guide the development of improved adsorbents. **Grand Canonical Monte Carlo (GCMC) simulations** were used to investigate equilibrium adsorption behaviour in zeolites [3], while periodic **Density Functional Theory (DFT)** calculations provided insights into the interaction of hydrogen with active sites in transition metal-ion modified zeolites [4]. The calculations demonstrated that metal-ion incorporation can strengthen hydrogen binding and enhance adsorption capacity, providing valuable design insights for the development of next-generation adsorbents for FFC.



Cryosorption of Hydrogen Isotopes on Zeolites for Application in Nuclear Fusion Systems

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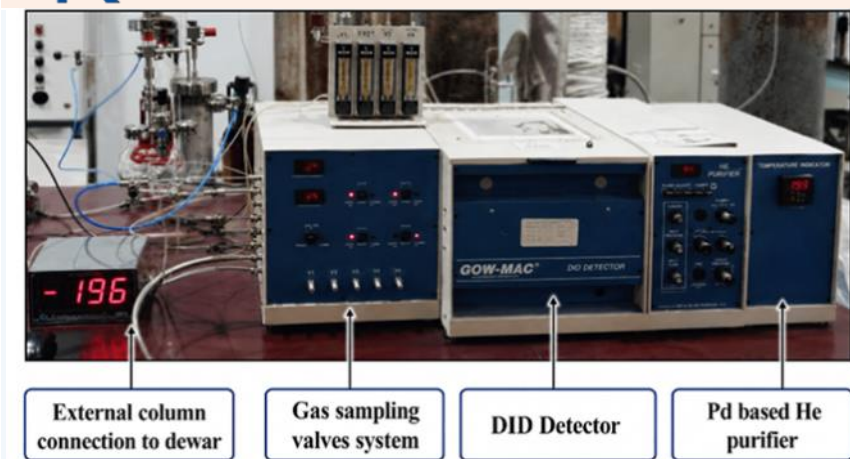


Figure 3: Gas chromatograph system

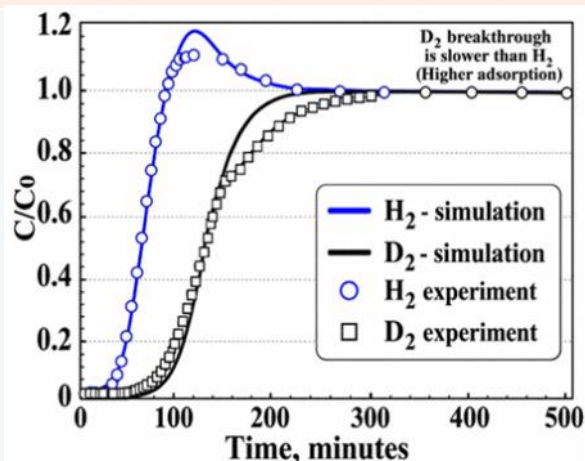


Figure 4: Binary breakthrough curve for H₂-D₂ removal from helium

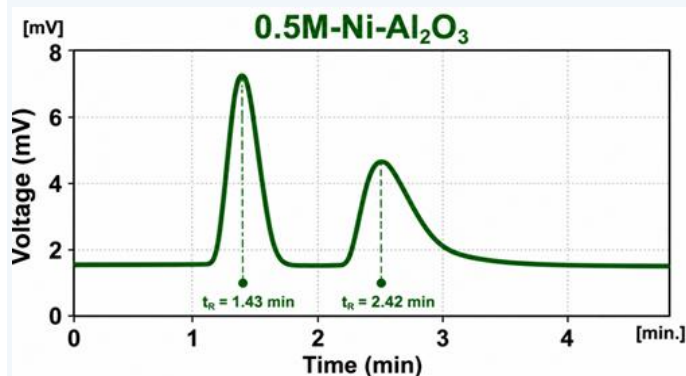


Figure 5: H₂-D₂ separation chromatograms obtained from GC system

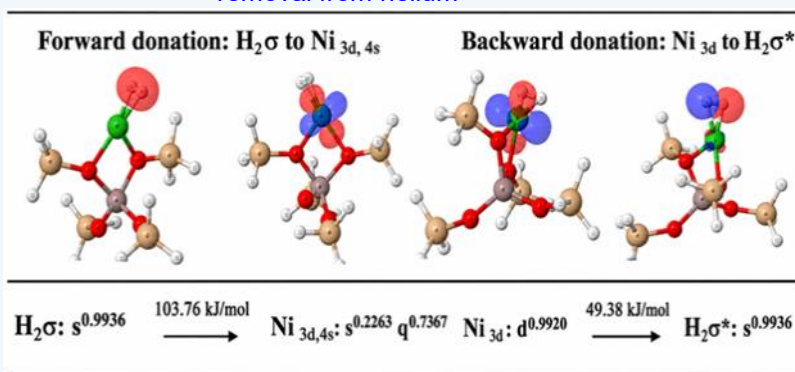


Figure 6: Natural Bond Orbital (NBO) analysis to quantify orbital interaction between hydrogen and Ni ion for the development of future adsorbents

To summarize, this research integrates **experimental investigations, process modelling, analytical monitoring and computational materials studies** to develop efficient technologies for a sustainable FFC system.

References:

1. V. Gayathri Devi, A. Kannan, D. Yadav, P. Dhorajiya, R. Bhattacharya and A. Sircar, **Microporous and Mesoporous Materials**, 385 (2025), article 113464.
2. V. Gayathri Devi, Aroh Shrivastava, Vrushank Mehta, Aravamudan Kannan, Rajendra Bhattacharya, Paritosh Chaudhuri and Amit Sircar (2026) , **International Journal of Hydrogen Energy**, 225 (2026), article 154420.
3. V. Gayathri Devi, A. Kannan, D. Yadav and A. Sircar, **Fusion Engineering and Design**, 188 (2023), article 113401.
4. V. Gayathri Devi, A. Kannan, A. Sircar, **Fusion Science and Technology**, 80 (2024), article 56744.

This doctoral Thesis work by Dr. Gayathri Devi has been awarded the **Dr. V. Ganesan Dissertation Award** by IIT Madras in the area of thermal-fluid sciences.

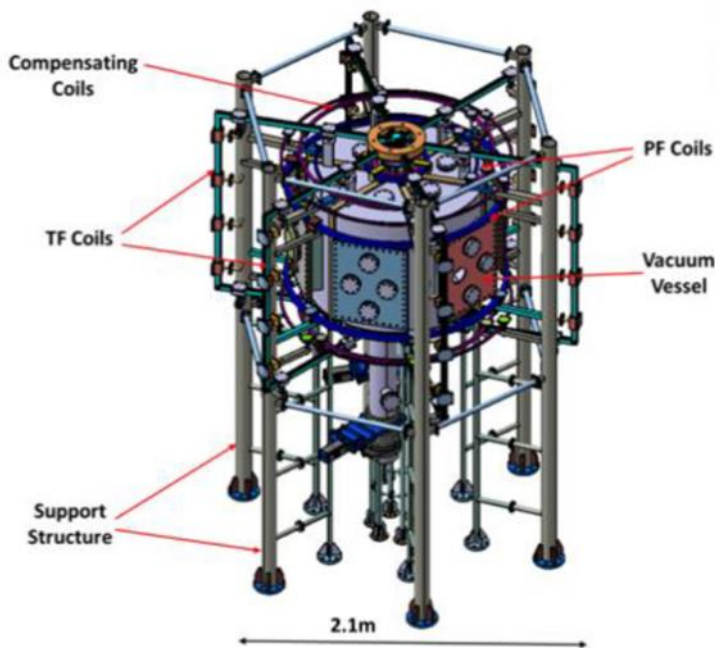
Dr. Gayathri V Devi receiving the award from Dr. Ashish Lele, Director, CSIR-National Chemical Laboratory (CSIR-NCL) in the presence of Dr. Niket Kaisare, HOD, Dept. of Chemical Engg., IIT, Madras





Seminar Series on Spherical Tokamak (ST) at IPR

A seminar series on Spherical Tokamak (ST) research at IPR was recently organized to highlight the newly installed and commissioned ST device at the institute. The ST team, comprising largely next-generation young scientists and engineers mentored by the senior group, came forward to share their work, understanding, and lessons learned during the initial commissioning activities and early plasma experiments on the machine.



A CAD model with a scale and commissioned machine is shown side by side for comparison

The Director, IPR, in his introductory remarks, welcomed this initiative as a valuable platform for the next generation to present their experiences and receive feedback from the wider community.

The seminar began with an overview of the ST device by team lead Dr. Kishore Mishra, titled “**Overview of Spherical Tokamak at IPR and its Future Prospects**”, followed by the following six presentations by young colleagues:

1. Machine Commissioning and Preparation for First Plasma by Mr Aditya Verma;
2. Establishing Vacuum Integrity for the First Plasma by Mr. Vishal Verma;
3. Power Supply Systems and First Plasma Operation by Mr. Urmil Thaker;
4. Magnetic Field Measurements and Basic Plasma Characterization by Dr. Shekar Goud;
5. Simulation and Measurement of Induced Vessel current and its Effect on Plasma Start-up by Ms. M. Sheetal;
6. Current Status, Up-gradation and Future Plan of ECR Experiment in ST Device by Mr. Jagabandhu Kumar

The seminar attracted a large audience including Deans, senior faculties and students together with a significant number of online participants. All the talks were highly informative and led to lively, important discussions at the end of each presentation. The speakers found the seminar particularly motivating and inspiring, noting the engaging questions and feedback from the audience. At the end of the seminar, Dr. Mishra thanked the participants for their attendance and support and announced that the ST seminar series will be continued in the coming months.



Dr. Kishore Mishra giving an overview talk on Spherical Tokamak at IPR



LaTeX Workshop at IPR

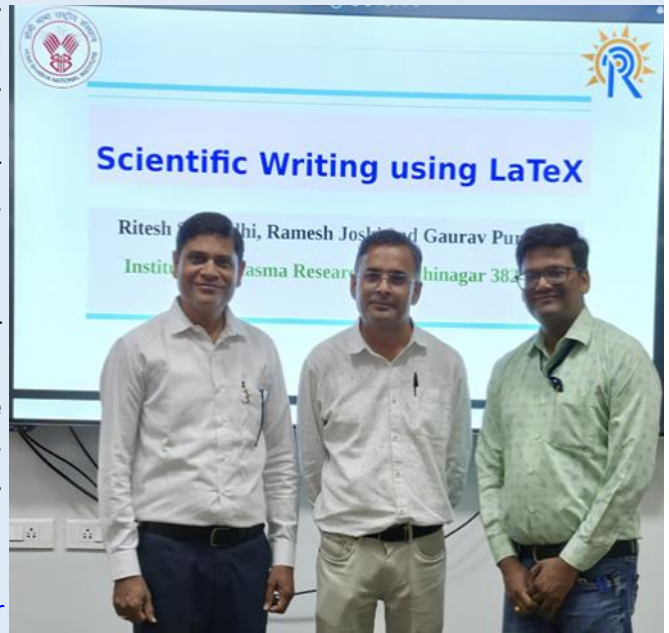
One-day hands-on workshop titled "**Scientific Writing Using LaTeX**" was conducted on 06 August 2026 at IPR in hybrid mode. The workshop was targeted for researchers preparing scientific documents such as thesis, research papers, technical reports, and presentations at various stages of their research journey.

The workshop had five practical sessions covering: (a) fundamental of LaTeX for text reports preparation, (b) mathematical equation along with data representation using tables and figures, (c) reference management using BibTeX, indices etc., (d) practical exposure of scientific manuscripts preparation for journals such as IEEE transaction, Elsevier etc., and (e) preparation of presentation using beamer class.

The practical were executed on Overleaf online LaTeX editor platform. The workshop was jointly conducted by Dr. Ritesh Sugandhi, Dr. Ramesh Joshi, and Mr. Gaurav Purwar. The interactive workshop was beneficial in enhancing the participant's skills in scientific writing and technical document preparation using LaTeX.

Team members conducting workshop.

(L-R) Dr. Ramesh Joshi, Dr. Ritesh Sugandhi and Mr. Gaurav Purwar



Group photograph of the participants

Conference Presentations

Dr. Mainak Bandyopadhyay gave the Keynote lecture title "**Leveraging low-temperature plasma sources for heating fusion plasma**" at the 3rd Global Forum and International Conference on Industrial Plasma Processes and Diagnostics 2025 (IPPD 2025), held during July 01-03, 2026 at IIT Delhi.



Dr. Mainak Bandyopadhyay giving the keynote lecture (L).
Receiving the appreciation (R)



Plasma Exhibition at M.N. College, Visnagar

The Institute for Plasma Research (IPR), in collaboration with M.N. College, Visnagar, organized a three-day **Plasma Exhibition** from **08 to 10 July 2026**. **Dr. R. D. Modh, Principal, M.N. College, Visnagar, and Dr. C. K. Chauhan, Coordinator of the Plasma Exhibition**, invited more than **12 schools and 16 colleges** from Visnagar to participate in the event.

Around **50 student volunteers** from the host institute were trained by the IPR team to demonstrate and explain the various plasma exhibits to visitors. During the three-day exhibition, about **3,000 visitors**, including students, teachers, and members of the general public, were introduced to **plasma, tokamak, and various aspects and applications of plasma science** through interactive exhibits and live demonstrations.

The exhibition provided an excellent platform for creating awareness and generating interest in plasma science and fusion research among students and the general public.



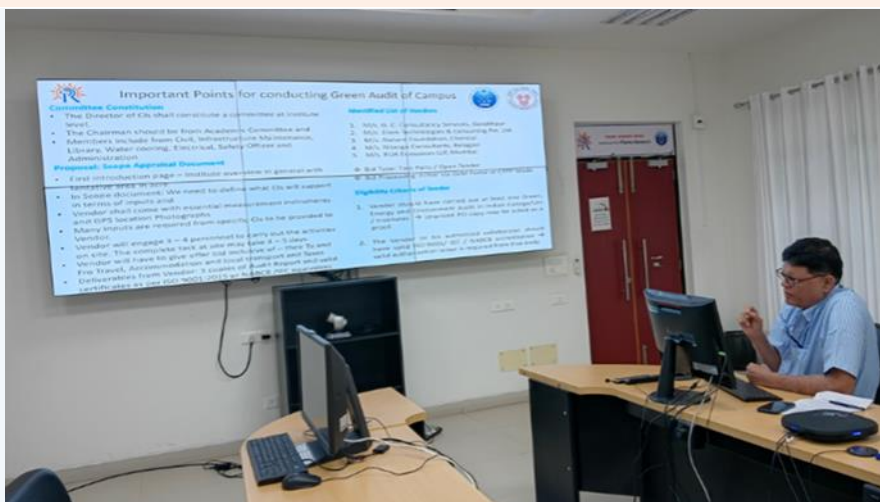
Glimpses of the Plasma Exhibition at M.N. College, Visnagar, Gujarat



Talk on Green Audit Procedure adopted by IPR

Prof. Dr. Vipul Tanna, Chairman, Green Audit Committee IPR delivered a talk on the Green Audit Procedure adopted by IPR at the meeting of the "Internal Quality Assurance Cell Implementation Committee" (IQACIC) held on 20th August 2026 at Conference Hall, Training School Complex, Anushaktinagar, Mumbai in the hybrid mode.

Prof. Naveen Kumar, Chairman, IQACIC, welcomed all the members present for the meeting. In his opening remarks, Prof. Naveen Kumar observed that HBNI's contribution to higher education and research has been quite impressive since its inception and emphasized upon the role played by IQAC to achieve greater heights with the aim of improvement in quality of education for all the stakeholders. He emphasized that inputs from all members and stakeholders are welcome in this regard. Representing IPR, the meeting was attended by Prof. Dr. Suryakant B. Gupta Nodal Officer, IPR-HBNI and Prof. Dr. Vipul Tanna Chairman Green Audit Committee IPR in online mode.



Prof. Dr. V. L. Tanna delivering his Talk at HBNI IQACIC meeting

Aditya-U Tokamak on I-STEM Portal

The Indian Science Technology and Engineering facilities Map (I-STEM) is a national online portal of the Government of India that helps researchers and innovators discover and access high-cost, publicly funded scientific equipment across the country. IPR's [Aditya-U Tokamak](#) facility is registered and now available on the portal. The device has been categorized under [PRISM](#) Service Category D. Visit the [I-STEM Web Portal](#)

The screenshot displays the I-STEM portal interface. At the top, there's a navigation bar with links like Login, Register, Institutions, and Support Hub. Below this is the I-STEM logo and the text "Indian Science Technology and Engineering facilities Map". A secondary navigation bar contains various service categories like About I-STEM, Govt. Orders, Operator Training Programme, Software Through I-STEM, Operator Job Openings, Events, Opportunities, REACH, Support Center, and Team. The main content area shows the "Equipment Info" for the "ADITYA U Tokamak".

Equipment Info

ADITYA U Tokamak

Equipment Code : 2453388
Make : IPR
Model : Divertor Type
Institution : Institute for Plasma Research Gandhinagar
Department : ADITYA U Division
Funding Agency Details : DAE, Govt. of India
Pooling of Equipment slot : No
AMC End Date (Valid Till) :
PRISM Service Category (About PRISM) : D
Pre-Experiment Support (including sample preparation, setup assistance and pre-experimental guidance) :
Post-Experiment Support (including result interpretation, data analysis and post-experimental reporting) :
Equipment Certification (if any) (No document available):
Equipment Calibration (if any) (No document available):
Remarks / Special Instructions (if any):
Description :



Past Events @ IPR

- ♦ **Talks presented at 12th Plasma Science Society of India-Plasma Scholar's Colloquium (PSSI-PSC 2026), Institute of Advanced Study in Science and Technology (IASST), Guwahati & Plasma Science Society of India (PSSI), 09-11 July 2026**
 - **Mr. Chingangbam Amudon**, gave an oral paper presentation on "Maxwellization of Nonthermal Velocity Distribution"
 - **Ms. Tanushree Kar**, gave a poster presentation on "Experimental Excitations of Nonlinear Circular Wave Fronts in a Flowing Complex Plasma Medium"
- ♦ **Mr. Jagabandhu Kumar**, gave a talk on "LHCD in SST-1/ADITYA-U Tokamak; Physics, Systems overview, and Antenna Topologies" on 30th July 2026
- ♦ **Dr. Pintu Bandyopadhyay**, gave a talk on "Experimental excitation of multi-dimensional precursor and pinned solitons in a flowing dusty plasma" on 5th August 2026
- ♦ **Dr. Toijam Suma Chanu**, gave a talk on "Plasma assisted synthesis of metal oxide nanomaterials embedded in a polymer matrix for efficient and reusable photocatalyst" on 07th August 2026
- ♦ **Ms. Arzoo Malwal**, gave a talk on "Monte-Carlo simulations approach to three-dimensional scrape-off layer transport characteristics of inboard limited tokamak plasmas" on 13th August 2026
- ♦ **Dr. Akhil Khajuria**, gave a talk on "Microstructural and mechanical properties of handheld laser beam welded dissimilar joints of IN-RAFMS and SS316L and Hot deformation behaviour study of IN-RAFMS" on 17th August 2026
- ♦ **Dr. Aman Bhatia**, gave a talk on "Self-Focusing of Structured Laser Beams in Inhomogeneous Plasmas" on 19th August 2026

Upcoming Events

- ♦ Applied Superconductivity Conference 2026 (ASC 2026), Pittsburgh, Pennsylvania, USA, 6-11 Sep 2026; <https://www.appliedsuperconductivity.org/asc2026/>
- ♦ 22nd International Conference on the Physics of Highly Charged Ions (HCI 2026), Huizhou, China, 7–11 Sep 2026; <https://www.mdpi.com/about/announcements/18104>
- ♦ 20th International Workshop on H-mode Physics and Transport Barriers (H-Mode Workshop 2026), Seoul, Korea, 8–11 Sep 2026; <https://www.hmws2026.kr/>
- ♦ Euro-Asian Pulsed Power Conference, International Conference on High-Power Particle Beams, International Symposium on Electromagnetic Launch Technology (EAPPC/BEAMS/EML 2026), Nigata, Japan, 13–17 Sep 2026; https://smartconf.jp/content/EAPPC_BEAMS_EML_26
- ♦ 9th International Symposium on Liquid Metal Applications for Fusion (ISLA-9), Eindhoven, The Netherlands, 14-18 Sep 2026; <https://www.differ.nl/isla-9>
- ♦ 70th IAEA General Conference 2026, Vienna, Austria, 14-18 Sep 2026; <https://www.iaea.org/about/governance/general-conference/gc70>
- ♦ 34th Symposium on Fusion Technology (SOFT 2026), Aix-en-Provence, France, 21–25 Sep 2026; <https://irfm.cea.fr/en/evenement/34th-soft-conference/>
- ♦ Joint Varenna-Lausanne International Workshop 2026: Theory of Magnetic Confinement Systems, Varenna, Italy, 21 – 25 Sep 2026; <https://www.varenna-lausanne.ch/>
- ♦ IPP Summer University for Plasma Physics and Fusion Research, Greifswald, Germany, 21–25 Sep 2026; <https://www.ipp.mpg.de/summeruni>
- ♦ IAEA Fourth Technical Meeting on Plasma Disruptions and their Mitigation, Saint Paul-lez-Durance, France (at ITER), 28 Sep 2026 - 1 October 2026; <https://conferences.iaea.org/event/451/>
- ♦ Karlsruhe International School on Fusion Technologies, Karlsruhe, Germany, 28 Sep 2026 - 2 October 2026; <http://summerschool.fusion.kit.edu/>



सेवानिवृत्ति संवाद : अनुभवों की यात्रा

सेवानिवृत्ति संवाद श्रृंखला के अंतर्गत दिनांक 24 अगस्त 2026 को संस्थान में 29 वर्षों की दीर्घ सेवाएँ पूर्ण कर 31 अगस्त 2026 को सेवानिवृत्त हो रही सुश्री शिरीन भेसानिया के साथ एक आत्मीय संवाद सत्र का आयोजन किया गया।

इस अवसर पर श्री हरीशचन्द्र खण्डूरी, प्रशासनिक अधिकारी एवं श्री पिनाकिन देवलुक, लेखा अधिकारी ने सुश्री शिरीन भेसानिया के साथ संवाद करते हुए लगभग तीन दशकों की उनकी आईपीआर यात्रा, कार्यानुभवों और संस्मरणों पर चर्चा की। सुश्री शिरीन ने चिकित्सा एवं लेखा अनुभाग में अपने कार्यकाल के अनुभव साझा किए तथा अपनी विदेशी यात्राओं से जुड़ी सुखद स्मृतियों को भी सभी के साथ साझा किया।

उन्होंने अपने अनुभवों के आधार पर भावी पीढ़ी को अपने कार्य के प्रति समर्पित रहने, मन लगाकर कार्य करने की प्रेरणा दी। कार्यक्रम के समापन पर डॉ. परितोष चौधरी, डीन, अनुसंधान एवं विकास ने समिति की ओर से सुश्री शिरीन भेसानिया को स्मृति-चिह्न प्रदान कर उनके दीर्घ एवं समर्पित सेवाकाल के लिए शुभकामनाएँ दीं।



संवाद सत्र के दौरान श्री पिनाकिन देवलुक (बाएं), सुश्री शिरीन (मध्य) एवं श्री हरीश खण्डूरी (दाएं)



स्मृति चिह्न प्रदान करते हुए डॉ. परितोष चौधरी



कार्यक्रम के अंत में लेखा अनुभाग के साथ ग्रुप फोटो

Superannuation



Ms. Shirin L. Bhesania, Accounts Section, got superannuated from IPR on 31 August 2026 after more than 29 years of service.

IPR wishes her a very Happy and Healthy retired life.

अखिल भारतीय हिंदी वैज्ञानिक संगोष्ठी

आरआरकेट, इंदौर द्वारा दिनांक 24 एवं 25 जुलाई, 2026 को अखिल भारतीय हिंदी वैज्ञानिक संगोष्ठी का आयोजन किया गया। इस संगोष्ठी का मुख्य विषय था “विकसित भारत 2047 : स्वदेशी एवं उन्नत तकनीकियों का चरणबद्ध विकास (शृंखला-1) – त्वरक आधारित प्रौद्योगिकियां एवं उनकी उपयोगिता”। इस संगोष्ठी में हमारे संस्थान की ओर से निम्नलिखित 4 स्टाफ सदस्यों ने भाग लिया एवं विभिन्न संबंधित विषयों पर मौखिक प्रस्तुति दी:

क्रम सं	प्रतिभागी का नाम एवं पदनाम	प्रस्तुति का शीर्षक
1.	श्री रवि पांडे, वैज्ञानिक अधिकारी-ई	ऋणात्मक आयन स्रोतों के लिए वैक्यूम-ब्रेज्ड सक्रिय रूप से ठंडा किए गए त्वरक ग्रिड प्रौद्योगिकी का स्वदेशी विकास
2.	श्री धीरज कुमार शर्मा, वैज्ञानिक अधिकारी-ई	उच्च निर्वात एवं उच्च वोल्टेज अनुप्रयोगों हेतु स्वदेशी रूप से निर्मित INTF 100 kV उच्च वोल्टेज बुशिंग (HVB) की असेंबली एवं प्रमाणीकरण”
3.	श्री हार्दिक शिशांगिया, वैज्ञानिक सहायक-ई	संलयन(Fusion) अनुप्रयोग हेतु न्यूट्रल बीम प्रणालियों के सक्रिय रूप से शीतित त्वरक अवयवों के लिए तांबे विद्युत-निक्षेपण का स्वदेशी विकास
4.	डॉ. हीरल जोशी, तकनीकी सहायक-डी	प्लाज्मा त्वरण एवं विकिरण अनुप्रयोगों हेतु एक संक्षिप्त सघन प्लाज्मा फोकस उपकरण का डिज़ाइन एवं विकास

Blood Donation Camp at FCIPT-IPR

IPR Staff Club in collaboration with Indian Red Cross Society organized a Blood Donation Camp at FCIPT-IPR, Gandhinagar on 14 August 2026. The camp was especially organized to help the children suffering from Thalassemia.

IPR employees, Research Scholars and other temporary staff voluntarily donated blood.

A total of 20 units of blood was donated from FCIPT-IPR during the camp.



Photos of the Blood Donation Camp at FCIPT-IPR

IPR Library Orientation to the new Research Scholars

The newly joined Research Scholars were given the library orientation on 05 Aug 2026. The students were introduced to the activities carried out by the library. They were given an orientation to the library facilities and services. The students then took a guided tour of the library. They were enrolled as Library Members.



New Research Scholars during Library Orientation

Know Your Colleague

Mr. Deepak Assudani joined IPR in August 2024 as Technical Officer-C. He is currently working with the Project & Technology Transfer Section (PTTS). He had earned his Bachelor's in Mechanical Engineering from the University Institute of Technology (UIT-RGPV), Bhopal in year 2018. He is involved in technology commercialization, industry engagement and licensing activities as part of the PTTS. He is also supporting deep-tech start-ups with his proactive contribution to the activities of AIC-IPR Plasmatech Innovation Foundation. Before joining IPR, he has worked with organizations such as the ISRO, Indian Railways, and Coal India Limited. By virtue of this journey he has a diverse set of experiences across multiple sectors including energy, railways, mining & space research. At ISRO's Liquid Propulsion Systems Centre (LPSC) Trivandrum, he served as Scientist/Engineer-SC in the Quality Assurance Department. He was also associated with the historic Chandrayaan-3 mission, which marked a significant milestone in India's journey to space. Apart from work, he also enjoys exploring the evolving technology and innovation landscape and investment, and playing chess. He is an avid reader with a liking for the books on psychology, decision-making, and business.



Mr. Deepak Assudani

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