



The 4th State

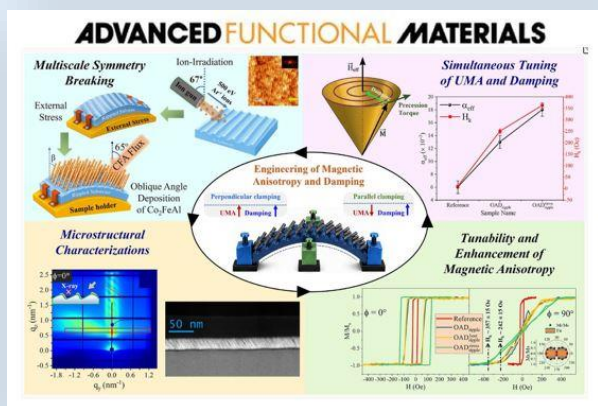
Newsletter of the Institute for Plasma Research, Gandhinagar, Gujarat (India)

Issue 159

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Highlights of the Issue

High Impact Publication



Invest Fusion event by AIC



Fresher's Day Event @ IPR



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हिंदी दिवस समारोह एवं छठा अखिल भारतीय राजभाषा सम्मेलन

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गृह मंत्रालय, भारत सरकार के राजभाषा विभाग द्वारा हिंदी दिवस एवं छठा अखिल भारतीय राजभाषा सम्मेलन 14 और 15 सितंबर 2026 को सिडको प्रदर्शनी केंद्र, वाशी, नवी मुंबई (महाराष्ट्र) में आयोजित किया गया था। इस सम्मेलन का उद्घाटन केंद्रीय गृह एवं सहकारिता मंत्री अमित शाह जी द्वारा किया गया। इस सम्मेलन का मुख्य उद्देश्य हिंदी भाषा को बढ़ावा देना और अन्य भारतीय क्षेत्रीय भाषाओं के साथ समन्वय स्थापित करना था। इस सम्मेलन में केंद्र सरकार के विभिन्न मंत्रालयों व विभागों के अधिकारी, सार्वजनिक क्षेत्र के उपक्रमों तथा बैंकों के प्रमुख, और देश भर की नगर राजभाषा कार्यान्वयन समितियों के अध्यक्ष व सदस्य सचिव शामिल हुए थे। इसके साथ ही इसमें जाने-माने भाषाविद, विद्वान और हिंदी व क्षेत्रीय भाषाओं के साहित्यकारों ने भी मुख्य प्रतिभागी के रूप में हिस्सा लिया।

इस अवसर पर वर्ष 2025-26 के लिए प्रतिष्ठित 'राजभाषा कीर्ति' और 'राजभाषा गौरव' पुरस्कार प्रदान किए गए। सम्मेलन के दौरान नराकास (कार्यालय), गांधीनगर को हिंदी प्रोत्साहन गतिविधियों को सक्रियता से आयोजित करने के लिए 'सर्वश्रेष्ठ' श्रेणी के नराकास के रूप में चयनित एवं सम्मानित किया गया।

संस्थान की ओर से इस सम्मेलन में डॉ. सूर्यकान्त गुप्ता, सह अध्यक्ष, राभाकस, श्री हरीशचन्द्र खण्डूरी, प्रशासनिक अधिकारी, सुश्री फाल्गुनी शाह, लेखा अधिकारी, श्रीमती सीमा दीनू कुरुप, क्रय अधिकारी एवं डॉ. संध्या दवे, हिंदी अधिकारी ने भाग लिया।

सम्मेलन में भाग लेने वाले संस्थान के अधिकारियों की सामूहिक फोटो



High Impact Publication

A collaborative work of Dr. Mukesh Ranjan titled "Multiscale Symmetry Breaking Enables Tunable Magnetic Anisotropy and Damping in Co₂FeAl Thin Films" is published in highly reputed journal Advance Functional Material (Impact Factor : 20). Using FCIPT/IPR low energy ion beam facility, surface nanoripple patterns of ~30 nm wavelength were produced and later 25 nm Co₂FeAl thin films was deposited on the bent-rippled substrate at an oblique angle of $65^\circ \pm 5^\circ$ from the substrate normal using electron beam evaporation at UGC-DAE consortium, Indore (Figure Shown below). Samples Grazing incidence small angle x-ray scattering (GISAXS) and magnetic measurements were performed at various prestigious labs (DESY-Germany, CNRS-France, IISC-Bangalore, IIT-Kanpur). By combining nanoscale ripple templating, oblique-angle deposition (OAD), and mechanical strain, we created a magnetic architecture composed of conformally tilted nanocolumns embedded within a strain-biased energy landscape. This cooperative design generates a robust and tunable in-plane uniaxial magnetic anisotropy (UMA), with the anisotropy field increasing from ≈ 20 Oe in the isotropic reference film to ≈ 250 Oe ($\sim 1200\%$) in the OAD-ripple template film and further to ≈ 360 Oe (1700%) under strain, while simultaneously driving a threefold enhancement of the effective damping. Correlative structural, spectroscopic, and magnetic measurements reveal physically distinct, dominant microscopic mechanisms driving UMA and damping: anisotropy is governed primarily by ripple-directed shape anisotropy and magnetoelastic energy, whereas damping is enhanced by nanocolumnar structure and strain-induced orbital-moment unquenching leading to strengthened spin-orbit coupling. This work establishes nanoscale morphology and mechanical deformation as tunable design parameters for adaptive spintronics, and strain-tunable magnonics.

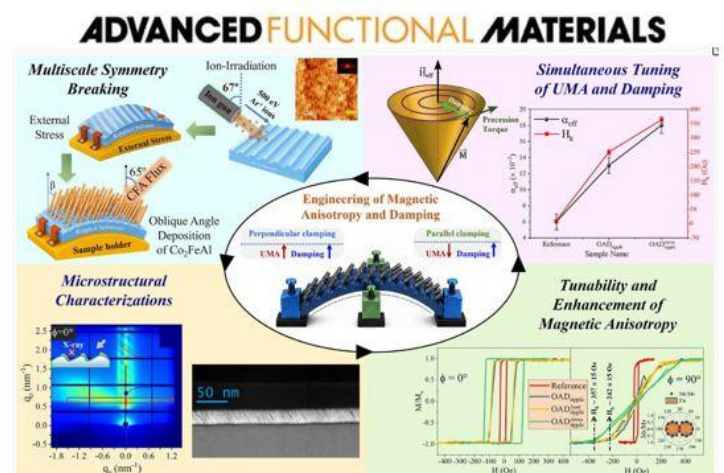


Figure: Pictorial abstract of the work



INVEST FUSION event by AIC - Plasmatech and IIMA Ventures

AIC-IPR Plasmatech Innovation Foundation (An Atal Incubation Centre of IPR, DAE) in association with IIMA Ventures (IIM A'bad's Business Incubator) organized a deeptech investor meet titled "INVEST FUSION: Unlocking opportunities in Fusion Technology" on 20th & 21st August 2026 at IPR Gandhinagar. The event was aimed at bringing together deeptech investor to support indigenous fusion technology roadmap through engagement with deeptech startups in the domain of fusion energy and other ecosystem partners such as fusion industry officials and policy makers from NITI Aayog. The event started off with a quick fire-side chat with Mr. Pawan Chandana, Co-founder of Skyroot Aerospace Pvt. Ltd and Ms. Priyanka Chopra. The event was graced by the presence of Prof. Abhay Karandikar, Member - NITI Aayog and shared his vision on Fusion Energy Roadmap @ 2047 and beyond. Dr. Tapas Ganguli, Director - IPR delivered a talk on Fusion in India : Critical Gaps & Challenges while Dr. Mahenderjit Singh, Project Director - ITER India delivered a talk related to the efforts of ITER India in building domestic fusion industry capability. Subsequently, Prof. Abhay Karandikar delivered his speech on how Government initiatives and policies were supporting indigenous deeptech innovation ecosystem targeting fusion energy roadmap by 2047 and beyond. Talks by Dr. Indranil Bandhyopadhyay elaborated different fusion device concepts across the globe and Mr. Kunal Upadhyay, Co-Founder of IIMA Ventures elaborated how IIMA Ventures was supporting deeptech innovation initiatives. Following this, the talk by Dr. Nirav Jamnapara showcased how DAE's Atal Incubation Centre established by IPR has been successfully nurturing the deeptech startups in the field of plasma & fusion energy. The sessions followed with a VC panel discussion on the ecosystem. The event concluded with a round table discussions with inputs from different stakeholders and a vote of thanks from AIC. Subsequently, all the participants were given a group lab tour showcasing the tokamak research activities undertaken at Institute for Plasma Research.

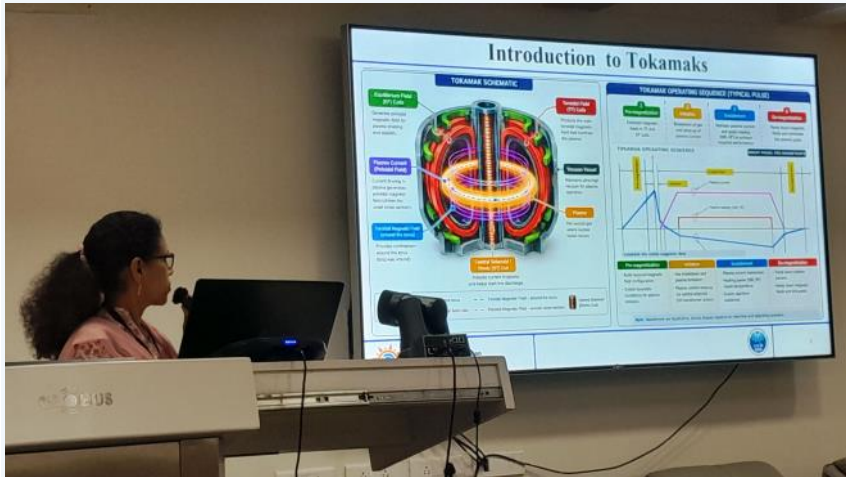


Participants of Invest Fusion Event



One day Industry Meet @ IPR

One day Industry Meet event on the requirements of Megawatt (MW) scale power supplies for tokamaks was organized by IPR and AIC-Plasmatech on 27th August 2026 at IPR Bhat, Gandhinagar. Several industry representatives from within Gujarat participated personally while a few from out of state had participated online. The programme included introductory talk about IPR and ITER-India and the power supply requirements on both organizations was presented. A talk on AIC-Plasmatech, the technology translation company established by IPR, DAE under the Atal Innovation Mission of NITI Aayog for supporting collaboration between startups/industries and the Institute (IPR) was also delivered to the participants. Subsequently, talks on specific power supply requirements such as central solenoid power supply, new vertical field power supply, divertor power supply and prototype PF coil power supply were also presented. A detailed lab tour of the aditya power supply lab was also conducted for the participants. The participant companies presented their company profiles and capabilities including systems developed/demonstrated by them. The companies expressed their willingness to collaborate with IPR on its developmental and supply of specialized power sources related projects/tenders. The company representatives expressed their content on good explanation of the requirements of tokamak systems which shall enable them to prepare for future tender / collaboration possibilities. The companies were also happy to note that the deeptech startup ecosystem within the country is growing exponentially and that they would be willing to support such deeptech startups as incubated at AIC-Plasmatech.



Ms. Supriya Anil Nair, CAO, IPR, and Dr. Nirav I. Jamnapara presenting the talk



Participants of the One day Industry Meet



Plasma Exhibitions at Moodubidire (Karnataka), Coimbatore and Tirunelveli (Tamilnadu)

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The Outreach Division of IPR arranged Plasma Exhibitions at the following places : at Moodubidire in association with **Alva's Institute of Engineering and Technology** during 27-31 July, at Coimbatore in association with **PSGR Krishnammal College for Women (KCW)** during 03-07 August and at Tirunelveli in association with **District Science Center** (National Council of Science Museums, Ministry of Culture, GOI) during 10-14 August. This program is part of IPR's rural scientific outreach activity in various states of India. The programme consisted of an exhibition on plasma, its applications as well as introductory talks on plasma for visiting students. In all these events, the voluntary students from respective institutions were trained to explain the exhibits and accordingly they explained in the local language as necessary.



Group of Student volunteers from Alva's Institute of Engineering and Technology, Mangaluru



Group of Student volunteers from PSGR Krishnammal College for Women, Coimbatore



Plasma exhibition at District Science Center, Tirunelveli



Academic Visits to IPR

Date	Institution	Visitors
09 Jun 2026	Ganpat University, Mehsana	79 Students, Computer Science (A/N Batch)
24 Jun 2026	Anand Niketan, Sugad	28 Students, Cl. XI, XII
03 Jul 2026	LDRP-ITR, Gandhinagar	79 Students, EC- 3rd sem.
14 Jul 2026	Swaminarayan University, Kalol	40 Students, B.Sc. Chem,Phy.Bio.
15 Jul 2026	LDRP-ITR, Gandhinagar	93 Students, IT, sem.5, I/J Dn.
16 Jul 2026	LDRP-ITR, Gandhinagar	92 Students, IT, sem.5, J/K Dn.
17 Jul 2026	Gems Genesis International School, Ahmedabad	70 Students, Class 8.
22 Jul 2026	Apollo International School - Tragad	58 Students, XI & XII Science
23 Jul 2026	Tapovan International School	94 Students, XI & XII Science
28 Jul 2026	SHREE SWAMINARAYAN INSTITUTE OF TECHNOLOGY	118 Students, BE Mech, CSE, IT, Civil
29 Jul 2026	L.D College of Engineering	51 Students, B.E sem 3&5, MCA
04 Aug 2026	Silver Oak University, Ahmedabad	40 Students, Diploma & B.Tech EE
07 Aug 2026	Govt. Engineering College, Gandhinagar	42 Students, B.E Mech sem V
12 Aug 2026	Swaminarayan Dham Internation School, Gandhinagar	57 Students, ECE Sem I
18 Aug 2026	Indus Institute of Technology and Engineering	70 Students, ECE Sem I
19 Aug 2026	Indus Institute of Technology and Engineering	82 Students, ECE Sem I
20 Aug 2026	Indus Institute of Technology and Engineering	82 Students, ECE Sem I

Plasma Exhibition @ Science City (Ahmedabad)

Science City, Ahmedabad, celebrated Space Day from 21 to 23 August, 2026 with various educational activities to promote awareness of space science and technology among students and the public. IPR participated in the celebration by showcasing selected plasma and fusion-related exhibits, providing visitors an opportunity to learn about plasma science and its applications. The event encouraged scientific curiosity and highlighted the importance of science outreach in inspiring young minds.



IPR volunteers are explaining the exhibits to visitors



Participation of IPR Scientists as Jury Members — 53rd RBVP 2026

PM SHRI Jawahar Navodaya Vidyalaya, Hathijan, District Ahmedabad, invited Scientists/Experts from IPR as Jury Members/Judges for its National Level Science, Mathematics and Environment Exhibition under the 53rd Rashtriya Bal Vaigyanik Pradarshani (RBVP) 2026 — aimed at fostering scientific temperament, creativity, innovation and environmental awareness among school students. While Shri Manu Bajpai and Shri Dharmesh K. Purohit joined the Jury on Day 1, Shri Manu Bajpai and Dr. V. Prahlad, joined on Day 2. These IPRites, along with other members from various institutions evaluated student projects under: Green Energy (renewable generation, storage, smart distribution and efficiency); Emerging Technologies (AI/ML, Robotics and Automation, IoT, and AR/VR); and Recreational Mathematical Modeling (mathematical games and puzzles, geometry in nature and art, and statistical/predictive models)



Inaugural session, Day 1



Welcome session, Day 2



Project evaluation, Day 2

हिंदी दिवस समारोह एवं छठा अखिल भारतीय राजभाषा सम्मेलन

प्लाज्मा अनुसंधान संस्थान (आईपीआर), भाट, गांधीनगर में राजभाषा कार्यान्वयन समिति के सौजन्य से हिंदी प्रतियोगिता समिति द्वारा 01 से 16 सितंबर 2026 तक हिंदी पखवाड़ा समारोह का आयोजन किया गया। इस दौरान हिंदी निबंध लेखन, चित्र देखो-वर्णन करो, टिप्पण, पत्र लेखन एवं अनुवाद, श्रुत लेखन, हिंदी प्रश्नोत्तरी, मोनो एक्टिंग, आशुभाषण, गीत गायन आदि विभिन्न प्रतियोगिताएँ आयोजित की गईं। कर्मचारियों के परिवार के सदस्यों के लिए "पाक-कला-रील" तथा आईपीआर एवं नराकास, गांधीनगर के सदस्य कार्यालयों के कार्मिकों के लिए "प्रेरक प्रसंग" वीडियो प्रतियोगिता भी आयोजित की गई। विभिन्न प्रतियोगिताओं में कुल 250 प्रतिभागियों ने उत्साहपूर्वक सहभागिता की। पखवाड़े के दौरान "डिजिटल जागरूकता एवं कृत्रिम बुद्धिमत्ता" विषय पर विशेष हिंदी कार्यशाला आयोजित की गई, जिसमें एआई के व्यावहारिक उपयोग, विभिन्न एआई टूल्स, कार्यालयीन कार्य, दस्तावेज़ एवं डेटा विश्लेषण तथा साइबर सुरक्षा से संबंधित जानकारी एवं व्यावहारिक प्रदर्शन दिया गया। 17 सितंबर 2026 को समापन समारोह के अवसर पर माननीय गृह मंत्री श्री अमित शाह जी के हिंदी दिवस के अवसर पर दिए गए संदेश का वाचन निदेशक महोदय द्वारा किया गया। इसके पश्चात हिंदी दिवस के अवसर पर परमाणु ऊर्जा विभाग के अध्यक्ष डॉ. ए. के. मोहंती के संदेश का वाचन संस्थान के डीन (अनुसंधान एवं विकास), डॉ. पारितोष चौधरी द्वारा किया गया। इसके उपरांत विभिन्न हिंदी प्रतियोगिताओं के विजेताओं को माननीय निदेशक महोदय, डीन (आर एंड डी) एवं अन्य वरिष्ठ अधिकारियों द्वारा पुरस्कार प्रदान किए गए। 17 सितंबर 2026 को आयोजित समापन समारोह में माननीय गृह मंत्री श्री अमित शाह एवं परमाणु ऊर्जा विभाग के अध्यक्ष डॉ. ए. के. मोहंती के हिंदी दिवस संदेशों का वाचन किया गया। इसके पश्चात विभिन्न प्रतियोगिताओं के विजेताओं को पुरस्कार प्रदान किए गए। वर्ष 2025-26 के लिए अंतर-अनुभागीय चल राजभाषा शील्ड क्रय अनुभाग को प्रदान की गई तथा राजभाषा सम्मान से श्री अतुल गर्ग, श्री आनंद विसानी एवं श्रीमती सुविधा कर्ता को सम्मानित किया गया। समारोह में अधिकारियों, कर्मचारियों एवं उनके परिवार के सदस्यों की उत्साहपूर्ण सहभागिता रही।



हिन्दी पखवाड़ा पुरस्कार वितरण समारोह के अवसर पर राष्ट्रगीत एवं राष्ट्रगान गाते हुए स्टाफ सदस्य



हिंदी दिवस समारोह एवं छठा अखिल भारतीय राजभाषा सम्मेलन

हिंदी पखवाड़ा समारोह 2026 के विजेताओं की सूची

हिंदी पखवाड़ा समारोह 2026 के विजेताओं की सूची					
दिनांक	प्रतियोगिताएं	पुरस्कार	क' भाषा वर्ग	ख' भाषा वर्ग	ग' भाषा वर्ग
01 सितंबर 2026	हिंदी निबंध लेखन	प्रथम	भूषण वानोडे	प्रीत पुराणी	सुविता कर्ता
		द्वितीय	प्रियंका वर्मा	योगेश गोविंद येवले	शुभमिता भूनिया
		तृतीय	रितेश सुगंधी	रवि शिशांगिया	---
02 सितंबर 2026	चित्र देखो, वर्णन करो	प्रथम	घनश्याम मीणा	रजनीकांत भटासणा	समीरन मुखर्जी
		द्वितीय	योगेश दाधीच	प्रकाश परमार	गट्टू रमेश
		तृतीय	शैफाली शर्मा	भूपेन्द्र पटेल	---
03 सितंबर 2026	टिप्पण, पत्र लेखन एवं अनुवाद	प्रथम	अरविंद सिंह पटेल	पराग पंचाल	सत्यप्रसाद अक्कीरेड्डी
		द्वितीय	राहुल विश्वकर्मा	सुहानी पटेल	गट्टू रमेश बाबू
		तृतीय	प्रतिभा गुप्ता एवं बसंत रंग रंजन	राखी धर्मदासानी	---
07 सितंबर 2026	श्रुत लेखन	प्रथम	विशाल नागरे	जतिन कुमार पटेल	सत्यप्रसाद अक्कीरेड्डी
		द्वितीय	अरविंद सिंह पटेल	अपूर्व कोठारी	जी. रवि
		तृतीय	आभा माहेश्वरी	पूजा राठवा	गट्टू रमेश
07 सितंबर 2026	पाक-कला रील	प्रथम	चिराग भवसार (स्नेहल भवसार)		
		द्वितीय	डिकेंस क्रिश्चन (अर्पिता क्रिश्चन)		
		तृतीय	कौशल पंड्या (रश्मि पंड्या) पराग पंचाल (नीता पंचाल)		
08 सितंबर 2026	हिंदी प्रश्नोत्तरी	प्रथम	अंकुर जायसवाल	ओमकार चांद्रात्रे	बालाराम
		द्वितीय	आयुषमणि त्रिपाठी	हार्दिक शिशांगिया	जयराम जोनाडा
		तृतीय	शिवसागर	बादल सेवक	बिस्वरंजन साहू
09 सितंबर 2026	प्रेरक प्रसंग वीडियो	1. रितेश सुगंधी 2. रेखा सिंह 3. रजनीकांत भटासणा			
10 सितंबर 2026	मोनो एक्टिंग	प्रथम	योगेश दाधीच	रजनीकांत अमलियार	---
		द्वितीय	आर के राज	प्रचिंते मजूमदार	---
		तृतीय			
11 सितंबर 2026	आशुभाषण	प्रथम	नितिन बैरागी	विपुल दत्तानिया	---
		द्वितीय	रितेश सुगंधी	पिनाकिन देवलुक	---
		तृतीय	मिथुन कुमार	मुनाफ हनिफ	---
16 सितंबर 2026	गीतगायन	प्रथम	अश्विनी भारद्वाज	प्रचिंते मजूमदार	पबित्र कुमार मिश्रा
		द्वितीय	सन्नी कुमार	यमन परमार	सुमन आइच
		तृतीय	अंकित कुमार	प्रशांत थानकी	सुविधा कर्था
राजभाषा सम्मान		भाषा वर्ग 'क'	भाषा वर्ग 'ख'	भाषा वर्ग 'ग'	
		अतुल गर्ग	आनंद विसानी	सुविधा कर्ता	
अंतर अनुभागीय राजभाषा शील्ड		क्रय अनुभाग (राजभाषा शील्ड)			



Conference Presentations

Dr. Harshita Raj gave an Invited lecture on "Edge Fluctuations in ADITYA-U Tokamak and their Consequences" at the International Workshop on Plasma Turbulence: New Challenges from Magnetic Confinement, held during 24-28 August 2026 at International Centre for Theoretical Sciences (ICTS – TIFR), Bengaluru.

Dr. Harshita Raj is delivering the invited lecture



Alumni Interaction Event

Dr. S. Sunil gave an invited talk on "LIGO-India: Concept to Reality" at Alumni Interaction event held at Bharata Mata College, Thrikka-kara, Kochi, Kerala, on 19 August 2026



Dr. S. Sunil is delivering the invited talk on "LIGO-India: Concept to Reality"

CPP Outreach Programme at Lady Keane College, Shillong

The Outreach Cell of the Centre of Plasma Physics – Institute for Plasma Research (CPP-IPR) organised “Spark of Science – A One-Day Workshop on Plasma with Live Demonstration” at Lady Keane College, Shillong, Meghalaya, on 11 September 2026, in collaboration with the Alumni Association of Lady Keane College. The workshop was attended by 103 participants, comprising students, alumni, and teachers of the college. The programme aimed to introduce the participants to the fascinating field of plasma physics and provide them with an opportunity to understand plasma phenomena through interactive demonstrations. Dr. Rakesh Moulick and Dr. Ngangom Aomoa delivered talks covering various aspects of plasma physics, its fundamental concepts, applications, and relevance to modern science and technology. The lectures were followed by live demonstrations of glow discharge plasma, arc plasma, Jacob’s ladder, and a plasma globe, which generated considerable interest and enthusiasm among the participants.



Participants attending one day workshop

Past Events @ IPR

- ◆ **Dr. S Sunil**, gave an invited talk on "LIGO-India: Concept to Reality" at Alumni Interaction, Bharata Mata College, Thrikkakara, Kochi, Kerala, 19th August 2026
- ◆ **Mr. Ankit Kumar**, gave a talk on "Plasma Rotation in ADITYA-U Tokamak" on 16th September 2026
- ◆ **Dr. Hirakjyoti Sarma**, gave a talk on "Simulation studies of finite dust clusters under anisotropic confinement geometries: Comparison with dusty plasma experiments" on 21st September 2026
- ◆ **Mr. Suman Dolui**, gave a talk on "Effect of pulsed gas injection on intrinsic plasma disruptions, detachment, and studies on volume runaway electron dynamics in the ADITYA-U Tokamak" on 29th September 2026
- ◆ **Mr. Sagar Choudhary**, gave a talk on "Gyrokinetic Investigations of Transport in Weak Temperature Gradient Tokamak Plasmas" on 29th September 2026

Upcoming Events

- ◆ IAEA Technical Meeting on Tungsten and Hydrogen in Edge Plasmas, Saint-Paul-Lez-Durance, France, 6-9 October 2026; <https://www.iaea.org/events/evt2404180>
- ◆ DAE-BRNS Symposium on Nuclear Probes for Materials, Medicine and Industry (NPMMI-2026), 8-10 October 2026; <https://www.barc.gov.in/symposium/NPMMI-2026/index.pdf>
- ◆ 10th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2026), Busan, Korea, 11-16 October 2026; <https://www.aappsdp.org/DPP2026/>
- ◆ FuseNet PhD Event 2026, Viterbo, Italy, 13-15 October 2026; <https://indico.fusenet.eu/event/66/overview>
- ◆ European Cryogenic Days 2026, Grenoble, France, 13-15 October 2026; <https://www.ecd-2026.fr/>
- ◆ IAEA Third Technical Meeting on Long-Pulse Operation of Fusion Devices, Hefei, China, 20-23 October 2026; <https://conferences.iaea.org/event/452/program>
- ◆ 5th International Workshop on Cooling Systems for HTS Applications, Enschede, Netherlands, 26-29 October 2026; <https://conferences.iaea.org/event/452/>
- ◆ 14th International Conference on Atomic and Molecular Data and Their Applications (ICAMDATA 2026), University of Mons, Belgium, 26-30 October 2026; <https://icamdata2026.sciencesconf.org/>
- ◆ International Conference on Radiation Research: Impact on Human Health and Environment (ICRR-HHE 2026) & 5th Biennial Meeting of Society for Radiation Research (SRR), Inter-University Accelerator Centre (IUAC), New Delhi, 30 October- 01 November 2026; https://www.barc.gov.in/symposium/icr_hhe2026/index.pdf

Award

Ms Pratibha Gupta, Scientific Officer-G participated in rangoli competition held during space week 2026 held from 21st August to 23rd August at Gujarat science city. Her rangoli made on "Gaganyaan" was awarded the third prize. The prize and winner's certificate were presented to her by Mr Arjun Modhwadia, Minister for Science and Technology of Gujarat.





Fresher's Day Event @ IPR

Freshers' Night, "NEOSTAR SOIREE," was organized by second year research scholars on 19 September 2026 at the H2 Common Area, Institute for Plasma Research (IPR), Gandhinagar, to warmly welcome the newly joined PhD research scholars to the institute. The event commenced at 7:00 PM and provided an informal and engaging platform for the newly joined scholars to interact with senior research scholars & faculty members of the IPR research community. The faculty members Dr. Daniel Raju, Dr. Shantanu Karkari, Dr. Jinto Thomas, Dr. Devendra Sharma, Dr. Shishir Purohit & Dr. Nitin Bairagi representing academic, hostel and anti-ragging committees participated in the event. The programme included various interactive and entertainment activities, creating a friendly and welcoming atmosphere for the new scholars. The event was further enriched by the presence and active participation of faculty members, who joined the celebrations and contributed to the programme through special performances. At the conclusion of the programme, dinner was arranged for all the participants, providing an opportunity for everyone to interact and conclude the evening together.



Group Photograph from the Fresher's Day Event

Know Your Colleague

Mr. Dheeraj Kumar Sharma completed his B.E. in Mechanical Engineering and started his professional career with Essar Steel, Hazira, as an Assistant Manager. He joined the Institute for Plasma Research (IPR) on 1 September 2010 through the Technical Training Program (TTP) and is presently working as Scientific Officer–E. During his tenure at IPR, Dheeraj has been associated with the design, analysis, development, integration and testing of high-voltage and fusion-related components. His major contributions include the mechanical design and development of a porcelain-based 100 kV High Voltage Bushing (HVB) for the Indian Test Facility and an Alumina-FRP insulator-based 50 kV prototype HVB for the ITER Diagnostic Neutral Beam (DNB). Dheeraj has also contributed to the indigenous development of large non-circular spring-energized metallic seals and vacuum-brazed RF vacuum barriers. His other technical activities include Electron Beam (EB) welding of dissimilar materials, residual stress assessment of ceramic-metal brazed assemblies, and supporting Quality Assurance Responsible Officer (QARO) activities for the development of the Second Calorimeter for Indian Test Facility (INTF). He received the First Prize in the PSSSI Z.H. Sholapurwala Award (PLASMA-2022) for his work titled "Manufacturing Experience of Indigenously Developed Dished Head–Sub Assembly (DH-SA) for High Voltage Bushing of INTF." Currently, Dheeraj is involved in the technical coordination and procurement of the ITER-DNB High Voltage Bushing, DNB-Passive Magnetic Shielding (PMS) and Active Compensation and Correction Coils (ACCCS) design review activities, and integration of INTF High Voltage Bushing (HVB) interfaces. Beyond work, Dheeraj enjoys swimming, volleyball, cricket, table tennis and gardening.



Mr. Dheeraj Kumar Sharma

IPR Newsletter Team

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