



Anusandhan
National
Research
Foundation



Day 1 : 08 Oct. 2026

Registrations: 07:30-08:20 AM

Inaugural ceremony (8:30 AM-9:30 AM)

High Tea: 09:30-10:00 AM

Inaugural Lectures (Venue: LT4): 10:10 AM - 11:30 AM

Session Chair: Prof. Guido Schmitz, Univ. Stuttgart, Germany

Time	Talk	Speaker	Title
10:10 to 10:50 AM	Inaugural Talk 1	Prof. Ashutosh Sharma, (Padma Shri), IIT Kanpur	Anatomy and Physiology of Soft Materials in Adhesion and Wetting
10:50 to 11:30 AM	Inaugural Talk 2	Prof. Rajeev Ahuja, Director, IIT Ropar	Computational materials science for advanced energy materials

Short Break- 11:30-11:40 AM

Session 1 (Venue: LT4): 11:45 AM-01:15PM

Session Chair: Prof. Navendu Goswami, IIIT Noida

11:45 AM-12:15 PM	Keynote	Prof. Guido Schmitz, Univ. Stuttgart, Germany	Electrochromic studies of atomic/ionic transport kinetics in battery materials
12:15 AM-12:45 PM	Invited	Prof. Chandrashekhar Sharma, IIT Hyderabad	Uncovering the Potential of Candle Soot Nanocarbon for Energy Storage Applications
12:45 to 01:15 PM	Invited	Prof. Dinesh Pratap Singh – University of Santiago, Chile	Graphene Based Electrode Materials for Efficient Energy Storage as a Supercapacitor

01:15-2:15 PM LUNCH

Session 2 (Venue: LT4): 02:15 PM-03:30PM

Session Chair: Prof. Sandeep Chokkar, IIIT Noida

02:15-02:45 PM	Invited	Prof. Amartya Mukhopadhyay- IIT Bombay	Development of sustainable and high energy density Na-ion batteries: Water- stable 'layered' transition metal oxide based cathodes and 'alloying reaction' based anode
2:45-3:15 PM	Invited	Dr. Ranjith Krishna Pai DST, Delhi	From Advanced Energy Storage Materials to Hydrogen Valley Innovation Clusters: Accelerating India's National Green Hydrogen Mission
3:15-03:30 PM	Invited	Dr. Shristi Thapliyal, Editor, Wiley Advanced Energy Materials	Publishing Opportunities and Research Impact with Wiley.

Tea Break & Poster 3:30-4:00 PM: ACS Sustainable Resource Manage: Poster IDs(P0006, P0024, P0059, P0061, P0063, P0064, P0066, P0109, P0133, P0160, P0165, P0173, P0176, P0183, P0184, P0210, P0213, P0029, P0162)

Session 3 (Venue: LT4): 04:00-05:00 PM

Session Chair: Prof. R. K. Dwivedi, IIIT Noida

04:00-04:30 PM	Invited	Prof. Anchal Srivastava – BHU, India	A walk through the realm of atomically thin materials: From Graphene and beyond
4:30-5:00 PM	Invited	Prof. M.A. Shaz-BHU, India	Hydrogen storage materials : A structural perspective on thermodynamics and kinetics

Day 2 : 09 Oct. 2026

Parallel Sessions: 08:00-09:00 AM

08:00-09:00 AM	LT1: 5 Oral Presentation (O0007, O0022, O0030, O0008, O0039, O0048)	LT4: 5 Oral Presentation (O0001, O0021, O0010, O0018, O0023, O0034)	G12: 5 Oral Presentation (O0044, O0052, O0049, O0054, O0051, O0002, O0006)
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Session 4 (Venue: LT4): 09:00-11:00 AM

Session Chair: Prof. Anil Malik, CCS University

09:00-09:30 AM	Invited	Prof. Gagan Kumar – IIT Ropar, India	Recent advances in terahertz metamaterials
09:30-10:00 AM	Invited	Prof. Rajendra K. Singh, BHU Varanasi, India	Sodium ion Conducting Gel Polymer Interlayer for Suppressing Polysulfide Shuttle and Enhancing Performance of Room Temperature Sodium-Sulfur Batteries
10:00-10:30 AM	Invited	Prof. S.A. Hashmi, University of Delhi	Magnesium-Sodium Hybrid Battery with Flexible Dual-Ion Gel Polymer Electrolyte
10:30-11:00 AM	Invited	Prof. P. Muthukumar – IIT Tirupati, India	Design, development and testing of metal hydride based devices for hydrogen storage, purification and compression applications

Tea Break & Poster Presentation, 11:05:11:35 AM: ACS Materials Au: Poster IDs(P0007, P0033, P0034, P0042, P0048, P0051, P0057, P0069, P0071, P0078, P0084, P0089, P0093, P0105, P0107, P0114, P0121, P0128, P0139, P0157, P0164, P0167, P0168, P0171, P0178, P0192, P0212, P0220, P0221, P0225)

Session 5: 11:40 AM-01:00 PM

Parallel Sessions

Session Chair: Prof. Manoj Chauhan, IIIT NOIDA (Venue:LT4)

Session Chair: Dr. Yogendra Guatam, CCS University (Venue:LT1)

11:40-12:10 PM	Invited	Prof. Rajendra Singh, IIT Delhi	Role of Quantum Materials and Devices for Quantum Technology applications	11:40-12:10 PM	Prof. T.P. Yadava-University of Delhi	Hydrogen Storage in High Entropy Alloys
12:10-12:35 PM	Invited	Prof. J. P. Singh, IIT Delhi	Hierarchal 3D Plasmonic Structures: Fabrication and Their Applications	12:10- 12:35 PM	Dr. Vinayak Kamble – IISER Trivandrum, India	From Defects to Intelligence: Engineering Semiconductors for Sustainable Sensing
12:35- 1:00 PM	Invited	Dr. Neetu Jha, ICT Mumbai	Ways to improve charge storage and tackle dendrite issue at anode in Zinc Ion Battery			

01:00-01:55 PM LUNCH

Session Chair: Prof. Suneet. K. Awasthi, IIIT NOIDA

INYNAS Panel Discussion: From Classroom to Cutting-Edge Technology: AI, Semiconductors, Energy & Advanced Material at (IIIT128 Bodhkaksh:02:00-03:00 PM), Panelist: 1. Dr. Mohit Tyagi, BARC, 2. Dr. Ramendra Sundar Dey – INST Mohali, India, 3. Dr. Pankaj Kumar (Scientist F) IUAC Delhi, 4. Prof. Ashish Mishra, IITBHU, 5. Dr. Vinayak Kamble – IISER Trivandrum, India

Session 6: 03:05-05:00 PM

Parallel Sessions

Session Chair: Prof. Navneet K. Sharma, IIIT NOIDA (Venue: LT4)

Session Chair: Prof. Anshu Varshney – IIIT Noida (Venue: LT1):

03:05-03:35 PM	Invited	Prof. Manika Khanuja – JMI Delhi, India	Machine Learning–Assisted Advancement of Environmental Remediation Using Metal–Organic Frameworks	03:15-03:35 PM	Prof. Ranjit Thangavel, IIT Tirupati	Realizing Dendrite Free Sodium Metal Anodes using Hybrid Artificial Solid Electrolyte Interphase (SEI) Layer for Energy Storage Application
03:35-04:05 PM	Keynote	Prof. Dimitry Dunikov, Russian Academy of Sciences	Investigations on Hydrogen From Sources of Natural Origin In Russia	03:35-03:55 PM	Prof. Neeraj Panwar, CCS University	Bias-Driven Transition from Capacitive Coupling to Nonvolatile Resistive Switching in PVA–Graphene Oxide Thin-Film Devices -
4:05-04:30 PM	Invited	Prof. Dheeraj K. Singh – University of Delhi, India	2D Halide-based Hybrid Perovskite Nanomaterials for Efficient Solar and Heat Energy Harvesting	03:55-04:15 PM	Dr. Sweta Singh, Mahatma Gandhi Central University, Motihari, Bihar	Advanced Porous Carbon Aerogels for Energy Storage and Efficient Dye Removal from Water
4:30-5:00 PM	Invited	Dr. Ramendra Sundar Dey – INST Mohali, India	Emerging Materials for Interfacial Electrochemistry: Fundamental Insights to Sustainable Technologies	04:15-04:40 PM	Dr. Gaurav, FRI, Dehradun	Biomass-Assisted Defect Engineering of Metal Oxide Nanomaterials for Sustainable Environmental Applications

Tea Break & Poster Presentation 05:05-05:35: ACS Applied Energy Materials: Poster IDs(P0003, P0009, P0010, P0011, P0012, P0013, P0014, P0017, P0018, P0020, P0026, P0036, P0037, P0044, P0045, P0046, P0050, P0053, P0055, P0060, P0062, P0068, P0073, P0075, P0076, P0079, P0086, P0088, P0091, P0096, P0100, P0103, P0104, P0106, P0110, P0111, P0117, P0119, P0125, P0127, P0129, P0140, P0141, P0142, P0145, P0146, P0147, P0148, P0151, P0175, P0187, P0195, P0196, P0205, P0211, P0219, P0223)

Cultural Evening 05:30 -7:00 PM

Gala Dinner (08:00 PM Onwards)

Day 3 : 10 Oct. 2026					
Session 7: 08:00-09:00 AM					
Parallel Sessions					
08:00-09:00 AM	LT1: 5 Oral Presentation (O0013, O0035, O0045, O0050, O0055, O0031, P0067)		G12: 5 Oral Presentation (O0019, O0020, O0029, O0036, P0122, O0042)		LT4: Best Thesis Presentations (O0009, O0047, P0074, P0077, P0056, P0170, P0193, A0103)
Session 8 (Venue: LT4): 09:00-11:20 AM					
Session Chair: Prof.O.P. Sinha, Amity University, Noida					
09:00-09:25 AM	Invited	Prof. Ashish Mishra, IITBHU	2D Materials for Zinc and Iron Based Batteries		
09:25-09:55 AM	Invited	Prof. Prabhakar Singh, IIT BHU Varanasi	Morphology-Dependent Electrocatalytic Performance of Co3O4 Nanostructures for Alkaline Water Splitting		
09:55-10:25 AM	Invited	Prof. Ajay Mishra , University of the Western Cape, South Africa	Sustainable Green Nano Materials for Waste Water Remediations		
10:25-10:50 AM	Invited	Dr. Viktor Kudiiarov, Tomsk Polytechnic University, Russia	Mechanisms of hydrogen storage properties enhancement in magnesium hydride composites modified with carbon nanotubes, metal-organic frameworks, and nanoscale metal powders”		
10:50-11:20 AM	Invited	Prof. R. Nagarajan, University of Delhi	Manifesting multifunctions in PrFeO3		
Tea Break & Poster 11:20AM-11:50 AM: Energy & Fuels: Poster IDs(P0005, P0016, P0021, P0025, P0027, P0030, P0032, P0070, P0090, P0098, P0126, P0137, P0138, P0158, P0159, P0161, P0169, P0179, P0180, P0186, P0224, O0011,P0065,P0191,P0015,P0166, P0155)					
Session 9 (Venue: LT4): 11:55 AM-01:20 PM					
Session Chair: Prof. Papia Chowdhary, IIIT					
11:55-12:20 PM	Invited	Dr. Dinesh Kumar Shukla – Scientist-F, UGC DAE Indore Centre	Strongly Correlated Electron Materials for Energy Applications		
12:20-12:50 PM	Invited	Prof. A. Srivastava, IIITM, Gwalior	Waste to Wealth: Computational Design of Waste-Derived Graphene for Sustainable Energy Storage		
12:55- 1:20 PM	Invited	Prof. Jai Singh, University of Delhi	Future Materials for Thermoelectric and Field Emitter Materials		
Parallel Sessions: 02:20 PM- 03:50 PM					
01:20-2:20 PM LUNCH					
Session Chair: Prof. N. K. Singh – Lucknow University, India (Venue LT4)			Session Chair: Prof.Prof. Vivek Shukla, GBU Greater Noida (Venue LT1)		
02:20-02:50 PM	Keynote	Dr. D.S. Rawal, Associate Director, DRDO	Compound Semiconductor Technology: Enabling India’s Future in RF, Power and Photonics	Dr. Saiful Anwar Che Ghani, University of Malaysia Pahang	AI-Enabled Digital Twin for Energy Management, HVAC and Storage Solutions for Healthcare Buildings
02:50-03:20 PM	Invited	Prof. V.C. Srivastava, IIT Roorkee	Dual-Waste Porous Carbon Composites for High-Performance Sustainable	Dr. Ankit Agrawal Northwestern University,	AI for Materials Science and Engineering: Leveraging GNNs, LLMs, XAI, and Nanocombinatorics
03:20-3:50 PM	Invited	Prof. O.P Thakur, DRDO Delhi	Wide-Bandgap Semiconductor Materials: Silicon Carbide for Advanced Electronic and Power Applications		
Tea Break 4:00-4:30 PM					
Validatory: 04:30 PM onwards (LT4)					