

3rd INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN NANOSCIENCE AND NANOTECHNOLOGY (ICRANN-2025)

20th - 21st December 2025

ICRANN-2025 Program Glance

Day 1 - December 20, 2025 - Saturday

8:30-9:30	Registration	
9:30-9:35	Lighting Lamp	
9:35-9:40	Welcome Address	By Chairperson, SCNS
9:40-9:45	Highlights of ICRANN-2025 & SCNS, JNU	By Convener of the Conference
9:45-9:50	Chief Guest Address	Prof. Suman Kumar Dhar, Vice-Chancellor, TERI SAS
9:50-10:00	Guest of Honour Address	VC or Rector-I or Rector-II, JNU
10:00-10:30	Inaugural Talk/ PL-01 by Prof. Suman Kumar Dhar, Vice-Chancellor, TERI SAS Title: <i>Plasmodium falciparum</i> cysteine protease Falcipain 3: A potential enzyme for proteolytic processing of histone acetyltransferase PfGCN5	
10:30-11:00	Inaugural Talk/PL-02: Prof. Nagendra Kaushik, Kwangwoon University, Seoul, South Korea Title: Biological Physics and Plasma Bioscience	
11:00-11:20	High Tea Break	
	Session-1 (Session Chairs: Prof. Rajendra Dhaka (Indian Institute of Technology, Delhi) & Prof. Paulraj (SES, JNU)	
11:20-11:40	IL-01: Dr. Dhiraj Bhatia, Biological Sciences and Engineering, IIT Gandhinagar, Gujarat Title: Plant-based Biodegradable and Biocompatible Polymers for Tissue Engineering Applications	
11:40-12:00	IL-02: Dr. Neha Kaushik, The University of Suwon, South Korea Title: Multimodal Nanotherapeutic Platforms Targeting Tumor Metabolism and Oxidative Stress	
12:00-12:20	IL-03: Dr. Asmita Das, Delhi Technological University, Delhi Title: Visual, rapid, and cost-effective BK virus detection system for renal transplanted patients using gold nanoparticle coupled loop-mediated isothermal amplification (nano-LAMP)	
12:20-12:40	IL-04: Dr. Sameera R. Gunatilake, Institute of Chemistry Ceylon, Sri Lanka Title: Biochar–Nanoscale Iron Composites for Sustainable Water Remediation	

12:40-13:00	IL-05: Dr. Subhash Chandra Yadav, AIIMS, New Delhi Title: Magnetic nanoparticles and quantum dots coupled immune nano-fluorescence assay for visual detection of HPV16- induced cervical cancer cells from cytology/ biopsy samples
13:00-13:20	IL-06: Dr. M. Chandra Shekhar Nayak, Scientist & Assistant Professor (AcSIR), CSIR, Bhopal Title: Nanomaterials in Wastewater Remediation
13:20-14:00	Lunch Break
	Session-2 (Session Chair: Prof. Satyabrat Patnaik (SPS) & Prof. Satyendra Singh, SCNS, JNU
14:00-14:25	KL-01: Dr. Sudhir Husale (National Physical Laboratory (NPL) Title: Proximity induced superconductivity in topological insulator based nanodevices
14:25-14:45	IL-07: Prof. Zisan Khan (Jamia Millia Islamia, New Delhi) Title: Studies on Perovskite materials for the next generation photovoltaic technology
14:45-15:05	OL-01 – 08 @ Lect. Hall-1: Title: Oral Talks (16 Talks) in 2 parallel sessions Session Chair OL 09 – 16 @ Seminar Room: Prof. Naik, & Dr. Pratima; SCNS, JNU
15:05-15:25	Tea Break
15:25-18:30	Poster Session (50 Posters) Session Chairs/Judges: Dr. Prakash, Dr. Balaji, Dr. Sandeep
18:30-21:00	Dinner/Culture Evening

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Day 2 - December 21, 2025 – Sunday

Session-3 (Session Chairs: Prof. Manoj K. Khanna (Uni. of Delhi, South Campus) & Prof. Pawan Kuleria (SoE, JNU)

09:15-09:45	PL-03: Prof. T. S. Kalkur, University of Colorado, Colorado, USA Title: Material Technologies for future RF communications (Online Talk)
09:45-10:10	PL-03: Prof. Pranaba Kishor Muduli (Department of Physics, Indian Institute of Technology, Delhi) Title: Spintronics using 2D Materials
10:10-10:30	IL-08 by Dr. Susmita Saha, Department of Physics, Ashoka University Rajiv Gandhi Education City, Sonipat, Haryana Title: Magnetization Dynamics from Femto to Nanosecond Time Scale
10:30-10:50	IL-09 by Dr. Sucheta Mondal; Department of Physics, School of Natural Sciences, Shiv Nadar Institution of Eminence (Delhi NCR) Title: Accelerated Ultrafast Magnetization Dynamics at Graphene/CoGd Interfaces
10:50-11:10	IL-10 by Dr. Sachin Gupta (Ph.D.), Physics Department, School of Engineering and Applied Sciences, Bennett University, Greater Noida Title: Emerging Spintronic Materials for Future Technological Applications
11:10-11:30	Tea Break
	Session-4 (Session Chair: Prof. Dinesh Mohan, JNU & Dr. Manoj Kumar, NIT, Delhi
11:30-11:55	KL-02 by Prof. Prashant Mishra, IIT-Delhi Title: Rationally designed protein A surface molecularly imprinted magnetic nanoparticles for the capture and detection of <i>Staphylococcus aureus</i>
11:55-12:20	KL-03 by Prof. Rajan Patel, Center for Interdisciplinary Research in Basic Sciences, (JMI) Title: Protein Stability and Activity in different solvent mediums (Ionic Liquids, Gemini Surfactants)
12:20-12:35	IL-11 : Dr. Mukti Ram Poudel, Paklihawa campus, Tribhuvan University, Nepal Title: Mitigation of abiotic stress in Nepalese wheat genotypes for unravelling the potentialities of Future wheat breeding
12:35-12:50	IL-12 Dr. Yogesh Pratap (UDSC), Title: Modelling, Simulation and Characterisation of Nano electronic devices

12:50-01:05	IL-13 Dr. Anil Kumar (NII) Title: Towards investigating the anticancer role of gut microbiota-derived metabolites
1:05-01:20	IL-14 by Dr L Radha Piyari Devi, SSPL, DRDO Title: Fabrication of 2D Film Based THz and Optoelectronic Devices
1:20-14:00	Lunch Break
	Session-5 (Session Chair: Prof. Kashyap Dubey (SBT, JNU) & Prof. Ram Prasad Prajapati (SPS, JNU)
14:00-14:15	IL-15 by Dr. Poonam Khullar, GNDU Amritsar Title: Cyclodextrin-Functionalized Magnetic Nanoparticles as Next-Generation Extractants for Nanometallic Pollutants
14:15-14:30	IL-16 Dr. Arindam, Amity Title: Lipids as promising nanomaterials for translational research in cancer therapeutics
14:30-14:45	IL-17 by Prof. Prashant Singh, Atma Ram Sanatan Dharm College, University of Delhi Title: ZnO based materials in sensing of Volatile Organic Compounds in early diagnosis of Lung Cancer
14:45-15:30	Oral Talks (8 Talks) in 2 parallel sessions Session Chair @ Seminar Room: Dr. Tulika, Prof. Pankaj, Dr. Vinod
15:30-16:00	Tea Break
17:30-18:30	Valedictory Function
18:30	Dinner