

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

20th - 21st December 2025

ICRANN-2025 Program Glance

Auditorium # 1, JNU Convention Centre

Day 1 - December 20, 2025 (Saturday)

8:30-9:30	Registration	
9:30-9:35	Lighting Lamp	
9:35-9:40	Welcome Address	Prof. Bijoy Kumar Kuanr, Conference Chair
9:40-9:45	About ICRANN-2025 & SCNS	Prof. Satyendra Singh, Conference Convener
9:45-9:50	Chief Guest Address 1	Prof. More Ramulu, Advisor-I, AICTE, Government of India
9:50-9:55	Chief Guest Address 2	Mr. Vishal Bhatnagar, General Manager, R&D Division, Samsung
9:55-10:00	Guest of Honour Address	Hon. Vice Chancellor Prof. S. Dhulipudi Pandit, JNU
10:00-10:30	Inaugural Talk/ PL-01: Prof. Suman Kumar Dhar, Vice-Chancellor, TERI SAS Title: DNA Replication in <i>Plasmodium falciparum</i> and some potential inhibitors including nano formulations of Artemisinin	
10:30-11:00	Inaugural Talk/PL-02: Prof. Nagendra Kaushik, Kwangwoon University, Seoul, South Korea Title: Plasma Based Nanotechnology and Biomedical Applications	
11:00-11:20	High Tea Break	
	Session-1 Auditorium # 1; (Session Chairs: Prof. Rajendra Dhaka (IIT, Delhi) & Prof. Paulraj Rajamani (SES, JNU)	
11:20-11:40	IL-01: Dr. Dhiraj Bhatia, Biological Sciences and Engineering, IIT Gandhinagar, Gujarat Title: DNA based programmable nanodevices to instruct biological systems	
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: Rethinking Chemotherapy: Natural Synergies for Resilient Cancer Treatment	
12:20-12:40	IL-04: Dr. L. Radha Piyari Devi, SSPL, DRDO, Delhi Title: Fabrication of 2D Film Based THz and Optoelectronic Devices IL-04: Dr.	

12:40-13:00	IL-05: Dr. Poonam Khullar, GNDU, Amritsar Title: Cyclodextrin-Functionalized Magnetic Nanoparticles as Next-Generation Extractants for Nanometallic Pollutants	
13:00-13:20	IL-06: Dr. M. Chandra Shekhar Nayak, Scientist & Assistant Professor (AcSIR), CSIR AMPRI, Bhopal Title: Nanomaterials in Wastewater Remediation	
13:20-14:00	Lunch Break	
	Session-2 Auditorium # 1 (Session Chairs: Prof. Satyabrata. Patnaik (SPS, JNU) & Prof. Satyendra Singh (SCNS, JNU)	
14:00-14:25	KL-01: Dr. Sudhir Husale, National Physical Laboratory, New Delhi Title: Proximity induced superconductivity in topological insulator based nanodevices	
14:25-14:45	IL-07: Prof. Zishan Khan, Jamia Millia Islamia, New Delhi Title: Studies on Perovskite materials for the next generation photovoltaic technology	
14:45-16:15	OL-01 – 09 @ Auditorium # 1 Title: Oral Talks (Physical Sciences) Session Chair: Prof. Satyabrata Patnaik (SPS, JNU) & Prof. Satyendra Singh, (SCNS, JNU)	OL 01 – 09 @ Lecture Hall-1 Title: Oral Talks (Chemical & Biological Sciences) Session Chairs: Prof. Ketavath Kumar Naik & Dr. Pratima Solanki (SCNS, JNU)
16:15-16:30	Tea Break	
16:30-18:30	Poster Sessions (52 Posters) Session Chairs/Judges: Dr. Prakash Kanoo, Dr. Balaji Birajdar, Dr. Sandeep Kumar, (SCNS, JNU)	
18:30-21:00	Dinner	

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Day 2 - December 21, 2025 – Sunday
Auditorium # 1, JNU Convention Centre

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

9:30-10:00	PL-03: Prof. T. S. Kalkur, University of Colorado, Colorado, USA Title: Material Technologies for future RF communications (Online Lecture)
10:00-10:25	KL-02: Prof. Pranaba Kishor Muduli (Department of Physics, Indian Institute of Technology, Delhi) Title: Spintronics using 2D Materials
10:25-10:45	IL-08: Dr. Susmita Saha, Department of Physics, Ashoka University, Sonipat, Haryana Title: Magnetization Dynamics from Femto to Nanosecond Time Scale
10:45-11:05	IL-09: 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
11:05-11:25	IL-10: Dr. Sachin Gupta, Physics Department, School of Engineering and Applied Sciences, Bennett University, Greater Noida Title: Emerging Spintronic Materials for Future Technological Applications
11:25-11:35	Tea Break
	Session-4 Auditorium # 1, (Session Chair: Prof. Dinesh Mohan, JNU & Dr. Manoj Kumar, NIT Delhi)
11:35-12:00	KL-03: Prof. Prashant Mishra, Department of Biochemical Engineering & Biotechnology IIT-Delhi Title: Nanomaterial-based bacterial detection and therapeutics
12:00-12:25	KL-04: Prof. Rajan Patel, Centre for Interdisciplinary Research in Basic Sciences, JMI Title: Protein Stability and Activity in different solvent mediums (Ionic Liquids, Gemini Surfactants)
12:25-12:45	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
12:45-13:05	IL-12: Dr. Yogesh Pratap, University of Delhi, South Campus Title: FET Biosensor Technology for Early-Stage Cancer Detection: Design, Challenges and a Research Opportunity
13:05-13:25	IL-13: Dr. Anil Kumar, National Institute of Immunology, New Delhi Title: Towards investigating the anticancer role of gut microbiota-derived metabolites

13:25-13:45	IL-14: Dr. Sameera R. Gunatilake, Institute of Chemistry Ceylon, Sri Lanka Title: Biochar-Nanoscale Iron Composites for Sustainable Water Remediation	
13:45-14:30	Lunch Break	
	Session-5: Auditorium # 1, (Session Chairs: Prof. Kashyap Kumar Dubey (SBT, JNU) & Prof. Ram Prasad Prajapati (SPS, JNU)	
14:30-14:50	IL-15: Dr. Subhash Chandra Yadav, AIIMS, New Delhi Title: Visual cervical cancer screening and confirmatory detection kit	
14:50-15:10	IL-16: Dr. Arindam, Amity University Title: Lipids as promising nanomaterials for translational research in cancer therapeutics	
15:10-15:30	IL-17: 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	
15:30-17:30	OL-01 – 09 @ Auditorium # 1 Title: Oral Talks (Physical Sciences) Session Chairs: Prof. Kashyap Kumar Dubey (SBT, JNU) & Prof. Ram Prasad Prajapati (SPS, JNU)	OL 01 – 09 @ Lecture Hall-1 Title: Oral Talks (Chemical & Biological Sciences) Session Chairs: Prof. Pankaj Thakur, & Dr. Tulika Prasad, SCNS, JNU
17:00-17:15	Tea Break	
17:15-17:35	Industry Talk: Dr. Subhabrata Mukhopadhyay, Deputy Editor, Wiley Title: Wiley's Journals and Today's Publication Landscape	
17:35-18:15	Valedictory Function (Prof. Bijoy Kumar Kuanr & Prof. Pankaj Thakur)	
18:30	Gala Dinner	