ICNAN '25
3rd International Conference on Nanoscience and Nanotechnology
December 16-19, 2025

Slot	Time	16/12/2025 (Tuesday)			17/12/2025 (Wednesday)				18/12/2025 (Thursday)				19/12/2025 (Friday)			
		Auditorium			Hall 1	Hall 2	Hall 3		Hall 1	Hall 2	Hall 3		Hall 1	Hall 2	Hall 3	
S1	9:30 to 10.15 AM	Inaugration			Dr. James Chapman Griffith University, Australia Synthesis and Characterisation of Stimuli-Responsive Antimicrobial Materials for Biointerface Applications	Dr.Jayan Thomas University of Central Florida, USA Structural Energy Storage: Building the Future of Electrified Mobility	Dr. Ahmad R. Kirmani Rochester Institute of Technology, USA Perovskites for Space Power: From Defect Physics to Mission-Ready Qualification		Dr. Aravind Vijayaraghavan University of Manchester, United Kingdom Graphene surface engineering and applications in sensors, composites and water purification	Dr. Roland Kádár Chalmers University of Technology, Sweden What if we could control long-range arbitrary nanostructure alignment in polymer nanocomposites?	Dr. Cheong Kuan Yew Universiti Sains Malaysia, Malaysia Design and Development of Bio-Organic Resistive Switching Memory		Dr. Pranab Goswami IIT- Guwahati, India Advancing Power Generation in Microbial Fuel Cells Towards Practical Applications	Dr. Narendra Kurra IIT-Hyderabad, India Design of Two-dimensional MXene-Organic Hybrids for Advanced Energy Storage Devices	Dr. G. Arthanareeswaran NIT,Trichy, India Emerging developments in organic frameworks nanocomposites for next generation membrane manufacturing and sustabilble applications	
S2	10:15 to 11 AM				Dr. Unyong Jeong Pohang University of Science and Technology, South Korea Soft Ion-Electronic Tactile Sensors for Practical Artificial Skins	Dr. Adam Lee Griffith University, Australia Thermal and photocatalytic routes to sustainable chemicals and fuels	Dr. Lorenzo Pavesi University of Trento, Italy Neuromorphic Photonics: From Neural Interfaces to Computing Paradigms		Dr. Tiju Thomas IIT-Madras, India From materials design to system implementation: glimpses from sustainability research	Dr. K. Selvaraj NCL- Pune, India Powering India's Green Hydrogen Future: The Journey to the Nation's First Indigenous AEM Electrolyser Technology	Dr. V. Ganapathy ARCI-Hyderabad, India Design and Development of Alkaline Electrolyzers for Sustainable Green Hydrogen Production		Dr. Prasad P Phadnis BARC, Mumbai, India Development of luminescent nanoparticles-based formulations for theragnostic applications in cancer treatment	Dr. Ajay Thakur IIT- Patna, India Sustainable and Responsive Hydrogels: Wearable Energy Harvesting and Soft Microforce Sensing	Dr. Prasanta Kumar Sahoo NIT -Roorkee, India Expanding Horizons with Elastomeric 3D Graphene–Metal Nanocomposites: Multifunctional Materials for Energy Storage, Electrochemical Sensing, and Environmental Remediation	
	11 to 11:15 AM	Tea Break														
		Auditorium			Hall 1	Hall 2	Hall 3		Hall 1	Hall 2	Hall 3		Hall 1	Hall 2	Hall 3	Hall 4
S3	11:15 to 12 PM	Special Inaugural talk Dr. Moungi Bawendi, Nobel Laurette Massachusetts Institute of Technology, USA TBA			Dr. Manish Chhowalla University of Cambridge, United Kingdom Ultra-clean interfaces in atomically thin materials for electronics	Dr. Deepa Khushalani Tata Institute of Fundamental Research (TIFR), India From Sun to Storage: Next-Gen Solar Batteries Using Earth Abundant Elements	Dr.Santanu Das IIT- BHU, India Advances in 2D Materials: From Nanoelectronics to Energy Applications		Dr. Sarathlal Koyiloth Vayalil Deutsches Elektronen-Synchrotron (DESY), Germany In-situ GISAXS real-time growth investigation of metallic nanostructures on self-organized templates	Dr. Raman Singh Monash University, Australia Circumventing Challenges in Developing CVD Graphene on Steels for Extraordinary and Durable Corrosion Resistance	Dr. Johnson Goh Kuan Eng IMRE, A*STAR, Singapore 2D Semiconductors for Quantum Devices		Dr. N. Ponpandian Bharathiar University, India Bifunctional Effects of Strong Metal–Support Interaction and Hydrogen Spillover in Boosting Hydrogen Evolution	Dr. Ashish Arora IISER Pune, India Experiments on low-dimensional semiconductors using light and magnetic fields	Dr.Marc-Olivier Coppen University College London, United Kingdom Nature-inspired engineering of functional materials via a systematic design methodology	
S4	12:00 to 12:45 PM				Dr. Sudarsanam Putla IIT-Hyderabad, India Morphology-tuned metal-based nanocatalysts for plastic waste recycling and biomass valorization	Dr. Kothandaraman R IIT- Madras, India Inside the Layered Lattice: Structure–Property Rules for Next-Gen Li-Ion Cathodes	Dr. Anandan S NIT, Trichy, India Zinc tailored Cobalt Prussian Blue Analogue (PBA) as a Prospective Candidate for Supercapacitor Applications		Dr. Muthu Senthil Pandian SSN Institutions, India Development of Technologically Important Unidirectional NLO Materials for Device Applications	Dr. Satheesh Krishnamurthy University of Surrey, United Kingdom Plasma Printing of 2D materials	Dr. Anupma Thakur IISc, Bengaluru, India Atomistic Design and Engineering of Two-dimensional MXenes for Electrocatalysis	12:00 to 12:15 12:15 to 12:30 12:30 to 12:45 12:45 to 1	O17 O21 O25 O29	O18 O22 O26 O30	O19 O23 O27 O31	O20 O24 O28 O32
	12:45 to 2 PM	Lunch Break														

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S5	2 to 2:45 PM	Dr. Ajayan Vinu University of Newcastle, Australia Functional Carbon Nitride Based Nanostructures for Clean Hydrogen Production	Dr. Anuradha Ashok PSG Institute of Advanced Studies, India Pathways for the enhancement of thermoelectric efficiency in oxide materials	Dr. Saikat Talapatra Southern Illinois University, Carbondale, USA A Perspective on Emerging Nano Porous and Layered Materials & their Related Applications	Dr. Karen Wilson Griffith University, Australia Nanoengineering multifunctional heterogeneous catalysts for biorefining	Dr. Michael Naguib Tulane University, USA Engineering 2D Materials from the Atomic to Nano Scales for Energy Applications	Dr.K. S. Narayan JNCASR, India Low Melting Alloy Electrodes For Flexible Electronics	AMETEK Hands-on Workshop	Dr. Venkata D.B.C. Dasireddy Griffith University, Australia Development of Ru-based catalysts for the CO2 reduction: power to gas process	Dr. Balakumar S University of Madras, Chennai, India Rational Design and Nanoarchitectonics of Metal–Organic Frameworks for Energy Storage	Dr. Yogendra Kumar Mishra University of Southern Denmark, Denmark Tetrapods based Smart Materials for Advanced Technologies	2:00 to 2:15 2:15 to 2:30 2:30 to 2:45 2:45 to 3	O33 O36 O39 O42	O34 O37 O40 O43	O35 O38 O41 O44	O45 O46 O47 O48
S6	2:45 to 3:30 PM	Dr.Sudhagar Pitchaimuthu Heriott Watt University, United Kingdom From Water Splitting to Sustainable Solutions: Expanding the Horizons of Photoelectrocatalysis	Dr.Kornelius Nielsch Technische Universität Dresden (TUD), Germany Tailored Interface Engineering of Thermoelectric Materials via Atomic Layer Deposition	Dr.R. Jayavel Anna University, Chennai- India Two-Dimensional Quantum Materials for Sustainable Energy Storage Applications	Dr.Nanasaheb Devappa Thorat University of Limerick, Ireland Lipid Nanomedicine and Artificial Intelligence–Driven Cancer Theranostics	Dr. A Manuel Stephan CSIR-CECRI, India Anodeless lithium batteries: Materials and Challenges	Dr. Wim Deferme Hasselt University, Belgium Droplet-based deposition of Organic Light Emitting Diodes: Applying Ultrasonic Spray Coating and Spray-on-Screen for large-area ultra-thin coatings and devices		Industrial Talk Memfill Tech Private Ltd. Swaminathan, India	Dr. Ilangovan University of Madras, Chennai, India Magnetoresistance study on ferromagnetic and ferroelectric materials for nonvolatile memory applications	Dr. C V Yelamaggad CeNS, Bangalore TBA		Panel Discussion on Women in STEM			
	3:30 to 3:45 PM	Tea Break														
		Hall 1	Hall 2	Hall 3	Hall 1	Hall 2	Hall 3		Hall 1	Hall 2	Hall 3					
S7	3:45 to 4:30 PM	Dr.D. D. Sarma IISc, Bengaluru, India Why does Mn glow when doped into semiconductor quantum dots?	Dr.Manoj Gupta National University of Singapore, Singapore Magnesium Based Nanocomposites and Relevance of Cryogenic Treatment	Dr.John V. Kennedy GNS Science, New Zealand Ion Beam Engineered Catalytic Materials for Low Carbon Future	Dr. David Jenkins University of Plymouth, United Kingdom The Role of Nanotechnology in Early Disease Diagnostics and Disease Prevention- for Health and Well Being	Dr. P. Saravanan DRDO - DMRL, Hyderabad, India Interfacial Engineering of Sm-Co Magnetic Thin Films on Si(100) for MEMS Applications	Dr. Seiichi Takamatsu State University of New York, Binghamton, USA Soft ultrasound imager toward wearable hospital grade diagnostic tools		Dr. Rajendrakumar Sharma SPEL capacitor, Pune, India Title	Dr. K. Pandian University of Madras, Chennai, India Emerging Light Emitting Diodes: Synthesis of Perovskite Nanocrystals and Fabrication of multicolour LED Devices	Dr. Dhanalakshmi DRDO-CVRDE, India Nanotechnology for Futuristic Armored Fighting Vehicles - An Overview		Valedictory			
S8	4:30 to 5:15 PM	Dr. Suman Singh CSIR-CSIO, Chandigarh, India Nano-inspired Biosensing Technologies	Dr. Muthukumarasamy Packirisamy Concordia University, Canada Energy harvesting from photosynthesis of blue green algae	Industrial Talk HHV, Bangalore Industrial Talk SINSIL, Bangalore	4:30 to 4:45 4:45 to 5 5 to 5:15 5:15 to 5:30	O1 O5 O9 O13	O2 O6 O10 O14	O3 O7 O11 O15	O4 O8 O12 O16	Dr. Pratap Kollu University of Hyderabad, India From Abundance to Energy: Powering Tomorrow with Sodium	Dr. Bruno D'Aguanno Lincoln College, United Kingdom Thermodynamic equilibrium and stability of systems with an external surface - From simulation to experimental validation	Dr. Chamil Abeykoon University of Manchester, United Kingdom Synthetic to Sustainable Composites – Role of Nano and Sustainable Fillers					
S9	5:45 to 7 PM				Poster (100)				Poster(100)							
S10	7:00 PM	Culturals			Conference Dinner											
	7:30 to 8:30 PM	Conference Dinner														

O = Oral Presentation TBA = To be announced