



**International Conference on
Molecular Materials: Trails, Perspectives, and Reminiscences (MolMat: TPR 2025)
4th and 5th July 2025**

Program Schedule

Venue: BITS Pilani Hyderabad Campus Auditorium

DAY 1: Friday, 4 th July 2025 Venue: BITS Hyderabad Auditorium	
8:30 – 09:15 AM	Registration and Breakfast (Venue: Auditorium Foyer)
9:30 – 09:45 AM	Inauguration
Scientific Session 1	
Chair: Prof. G. Narahari Sastry, IIT Hyderabad	
09:45 – 10:15 AM	Prof. V. Ramgopal Rao, BITS-Pilani <i>Inaugural Talk (IL-1): Advanced Materials and Integrated Systems for Future CMOS and MEMS Technologies</i>
10:15 – 10:45 AM	Prof. T. Nakamura, Hiroshima University, Hiroshima, Japan <i>IL-2: Type-I Multiferroic Induced by Supramolecular Cation Motion in Magnetic Metal Complex</i>
10:45 – 11:15 AM	Prof. M. G. Krishna, University of Hyderabad, Hyderabad <i>IL-3: Metal/Semiconductor/Metal Trilayer Structures for Memory and White Light Photodetector Applications</i>
11:15 – 11:45 AM	Tea Break and Group Photo Session
Scientific Session 2	
Chair: Prof. C.V Sastri, IIT Guwahati	
11:45 – 12:15 PM	Prof. K. George Thomas, IISER Thiruvananthapuram <i>IL-4: Exciton and Biexciton Dynamics in Semiconductor Nanocrystals</i>
12:15 – 12:45 PM	Prof. Sarit S. Agasti, JNCASR Bangalore <i>IL-5: Lighting up Biology: Advanced Molecular Engineering for Next-Gen Fluorescence Imaging</i>
12:45 – 01:15 PM	Prof. D. Narayana Rao, University of Hyderabad, Hyderabad <i>IL-6: Nonlinear Optical and Biological Properties of Ag Nanoparticles Extracted Through Green Synthesis and Our Current Methods to Achieve Field Enhancement</i>
1:15 – 03:15 PM	Lunch & Poster Session 1 (PP 01 – PP 35) (Venue: Auditorium Foyer)

DAY 1: Friday, 4 th July 2025	
Venue: BITS Hyderabad Auditorium	
Scientific Session 3	
Chair: Prof. N. Rajesh, BITS Hyderabad	
3:15 – 3:45 PM	Prof. Tushar Jana, University of Hyderabad, Hyderabad <i>IL-7: Polymer Membranes for Water Electrolyzer</i>
3:45 – 4:15 PM	Prof. S. Ramakrishnan, IISc Bangalore <i>IL-8: Hyperbranched Polymers: Growing Richer in Flavors with Time</i>
4:15 – 4:45 PM	Prof. Y. Soujanya, CSIR-IICT Hyderabad <i>IL-9: Materials Modelling: Applications, Challenges and Research</i>
4:45 – 5:15 PM	Prof. Balaji R. Jagirdar, IISc Bangalore <i>IL-10: Design and Development of Hybrid Catalysts for Reversible Hydrogen Storage in Liquid Organic Hydrogen Carriers</i>
5:15 – 5:30 PM	Tea Break
Scientific Session 4	
Chair: Prof. Muga Vittal, Osmania University	
5:30 – 6:00 PM	Prof. C. Retna Raj, IIT Kharagpur <i>IL-11: Sustainable Energy Materials for Aqueous Batteries</i>
6:00 – 6:45 PM	Vendors/ Publishers talk: Toshniwal Brothers Pvt. Ltd., Molecular Devices, WILEY
7.00 – 9:00 PM	Dinner (Venue: Auditorium Foyer)

DAY 2: Saturday, 5 th July 2025 Venue: BITS Hyderabad Auditorium	
8:30 – 9:30 AM	Breakfast (Venue: Auditorium Foyer)
Scientific Session 5 Chair: Prof. C V Ramana, NCL Pune	
9:30 – 10:00 AM	Prof. E. D. Jemmis, IISc Bangalore <i>IL-12: An Extended Rudolph Diagram to Explain the Structural Chemistry of Boron</i>
10:00 – 10:30 AM	Prof. C. Malla Reddy, IIT Hyderabad <i>IL-13: Crystal Engineering of Adaptive Smart Materials</i>
10:30 – 11:00 AM	Prof. S. Natarajan, IISc Bangalore <i>IL-14: The Quest Towards Developing New Materials: Is There a Role for Minerals?</i>
11:00 – 11:15 AM	Tea break
Scientific Session 6 Chair: Prof. Archita Patnaik, IISER Berhampur	
11:15 -11.45AM	Prof. R. Tsunashima, Yamaguchi University, Yamaguchi, Japan <i>IL-15: Design and Control of Solid Solutions in Molecular Crystals: Toward Functional Organic Materials</i>
11:45 – 12:00 PM	Prof. Jaya Prakash, NIT Rourkela <i>Flash talk-1: Breaking of J-Aggregates in Fluorescent Covalent Organic Cage Molecular Materials Through Solid State Grinding with Metal Salts: Chemo-Sensing and Light-Emitting Diode Applications.</i>
12.00-12.15 PM	Dr. Balanagulu Busupalli, Pandit Deendayal Energy University, Gandhinagar <i>Flash talk-2: Chemobronic Architectonics</i>
12.15-12.30 PM	Prof. Chanchal Chakraborty, BITS Hyderabad <i>Flash talk-3: From Windows to Watts: Harnessing Redox-Active Polymers for Energy-Saving Smart Windows to Indicative Energy Storage</i>
12.30-12.45 PM	Dr. Subash C K, CeNS Bangalore <i>Flash talk-4: Impact of WO₃ Nanofiller's Structural and Surface Properties on Polyvinylidene Fluoride's Piezoelectric Performance</i>
12.45-1.00 PM	Ms. Anu Bovas, University of Hyderabad, Hyderabad <i>Flash talk-5: Catalytic 'Gelectrodes' Based on Co and Ni-Fe Oxy/ Hydroxides for Sustainable and Enhanced Oxygen Evolution Reaction</i>
1.00 – 3.00 PM	Lunch & Poster Session 1 (PP 36 – PP 70) (Venue: Auditorium Foyer)
03.15 – 3.45 PM	Valedictory Session with Distribution of Awards
04:00 -10.00 PM	Felicitatation and Dinner

