

Disordered and Soft Systems: Recent trends (DSSR)

March 27-28, 2024



Conference organized by
Centre for Nano and Soft Matter Sciences (CeNS)
 Shivanapura, Bengaluru – 562162, INDIA



Program Schedule

Venue: Lecture hall, IDC-JNCASR@CeNS campus

Day 1

8.00	Breakfast	<i>Dining hall, IDC-JNCASR@CeNS campus</i>
8.30-9.00	Registration	<i>Foyer, IDC-JNCASR@CeNS campus</i>
9.00-9.15	Inauguration	Opening remarks by Prof. B. L. V. Prasad
Session 1		Chair: Dr. Pralay K. Santra, CeNS
9.15-9.45	Invited Talk 1	Prof. G. U. Kulkarni, JNCASR, Bengaluru <i>Neuromorphic devices based on self-formed Ag nanostructure</i>
9.45-10.15	Invited Talk 2	Prof. N. Jayaraman, IISc, Bengaluru <i>Carbohydrate Mesogens in the Modern Garb of Thermotropic Liquid Crystals</i>
10.15-10.45	Tea break and group photo	<i>Dining hall, IDC-JNCASR@CeNS campus</i>
Session 2		Chair: Dr. Ashutosh Singh, CeNS
10.45-11.15	Invited Talk 3	Prof. V. A. Raghunathan, RRI, Bengaluru <i>Reemergence of Inter-particle Repulsion in Strong Electrolytes at High Concentrations</i>
11.15-11.45	Invited Talk 4	Prof. Santanu K. Pal, IISER, Mohali <i>Self-assembled Discotic Liquid Crystals as Molecular Semiconductors</i>
11.45-12.15	Invited Talk 5	Prof. Bhoje Gowd, NIIST, Thiruvananthapuram <i>Hierarchically Architected Semicrystalline Polymer Aerogels with a Desired Polymorph</i>
12.15-12.45	Invited Talk 6	Prof. Arun Roy, RRI, Bengaluru <i>Novel smectic phases of bent-core liquid crystals</i>
12.45-1.30	Lunch break	<i>Dining hall, IDC-JNCASR@CeNS campus</i>
Session 3		Chair: Dr. Kavita A. Pandey, CeNS
1.30-2.00	Invited Talk 7	Prof. Ranjini Bandyopadhyay, RRI, Bengaluru <i>Onset of desiccation cracks in aqueous clay suspensions</i>
2.00-2.30	Invited Talk 8	Prof. Achal Kumar, IITG, Guwahati <i>Superior Electron Mobility, Red Electroluminescence with High quantum efficiency from Printable Room Temperature Columnar Liquid Crystalline Perylene Bisimide</i>
2.30-3.00	Invited Talk 9	Prof. Gurumurthy Hegde, CHRIST (Deemed to be University), Bengaluru <i>Tuning and turning of light towards optimizing the optical storage devices</i>
3.00-3.30	Tea break	<i>Dining hall, IDC-JNCASR@CeNS campus</i>
Session 4		Chair: Dr. Goutam Ghosh, CeNS
3.30-4.00	Invited Talk 10	Prof. Aloka Sinha, IITD, Delhi <i>Next-Generation Liquid Crystal Technologies: Advancing Optics and Energy Solutions</i>
4.00-4.30	Invited Talk 11	Prof. Subi J. George, JNCASR, Bengaluru <i>Bio-inspired, Non-Covalent Synthesis of Precision Supramolecular Polymers</i>

4.30-5.00	Invited Talk 12	Dr. Srividhya Parthasarathi, IISc, Bengaluru <i>Bacterial Membrane microscopic signatures capture onset and reversal of Colistin Resistance-Insights into emergence of resistance through super-resolution Nanoscopy</i>
5.00-5.30	Invited Talk 13	Dr. S. Krishna Prasad, CeNS, Bengaluru <i>Behaviour of liquid crystal and plastic phases in confined geometries</i>
5:30-6:30	Tech Talks	by Sponsors
7:00	Dinner	Dining hall, IDC-JNCASR@CeNS campus

Day 2

8.00	Breakfast	Dining hall, IDC-JNCASR@CeNS campus
Session 5		Chair: Dr. P. Viswanath, CeNS
9.30-10.00	Invited Talk 14	Prof. S. Ramakrishnan, IISc, Bengaluru <i>Photo-cross-stitching Folded Polymer Chains</i>
10.00-10.30	Invited Talk 15	Prof. P. B. Sunil Kumar, IITM, Chennai <i>Water Vapor Responsiveness of Chitosan: An Experimental and Simulation Analysis</i>
10.30-11.00	Invited Talk 16	Dr. C. V. Yelamaggad, CeNS, Bengaluru <i>Stereospecific Synthesis of Dipeptides with High Enantiomeric Excess and their Self-Assembly into Ferroelectrically Switchable Columnar Structure</i>
11.00-11.30	Tea break	Dining hall, IDC-JNCASR@CeNS campus
Session 6		Chair: Dr. Geetha G. Nair, CeNS
11.30-12.00	Invited Talk 17	Prof. B. L. V. Prasad, CeNS, Bengaluru <i>Self-assembled nanoparticle monolayers</i>
12.00-12.30	Invited Talk 18	Prof. Shankar Ghosh, TIFR, Mumbai <i>Decoding tire wear: Power law distribution and possible aerosolization</i>
12.30-1.00	Invited Talk 19	Prof. H. A. Nagarajaram, Univ. Hyderabad, Hyderabad <i>Contribution of Physicists to the Progress of Modern Biological Research</i>
1.00-1.45	Lunch break	Dining hall, IDC-JNCASR@CeNS campus
1.45-3.30	Poster session	Foyer, IDC-JNCASR@CeNS campus Coordinator-Dr. Goutam Ghosh, CeNS
3.30-4.00	Valedictory	Announcement of poster prizes, Concluding remarks & Words of Thanks
4.15	Felicitation	Multipurpose hall, CeNS
5.45	High Tea	Multipurpose hall, CeNS