



24th National Conference on Liquid Crystals (NCLC-2017)
October 11 - 13, 2017
IISER Mohali, Punjab
 in association with
Indian Liquid Crystal Society (ILCS)

PROGRAMME SCHEDULE

TUESDAY, OCT 10, 2017 (CONFERENCE EVE)

Registration: 5:30 - 7:30 pm **Venue:** Ground Floor, Visitors Hostel
Conference Eve Dinner: 8 pm **Venue:** Dining Hall 1, Ground Floor, Visitors Hostel

WEDNESDAY, OCT 11, 2017	
07.30 - 9.00 am	BREAKFAST Venue: Dining Hall 1, Ground Floor, Visitors Hostel
07.30 - 9.00 am	Registration Venue: Lecture Hall Complex, Ground Floor
9.00 - 10.00 am	Inaugural function Venue: LH7, Auditorium
10.00 - 10.40 am	Keynote address: <i>N. Jayaraman</i> Dendritic liquid crystals and dendritic monomer-polymer assemblies
10.40 - 11.10 am	High Tea Venue: Lecture Hall Complex, Ground Floor
Technical Session - 1 Chairperson: K. S. Viswanathan Venue: LH7, Auditorium	
11.10 - 11.40 am	IL- 1: <i>C. T. Imrie</i> The twist-bend nematic phase
11.40 - 12.10 pm	IL- 2: <i>Shri Singh</i> Description of phase transitions in chiral ferroelectric liquid crystals
12.10 - 12.30 pm	OP- 1: <i>A. S. Achalkumar</i> Bay-Annulated perylene tetraesters as electroluminescent liquid crystals



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12.30 - 12.50 pm	OP- 2: <i>Banani Das</i> Orthoconic anti-ferroelectric liquid crystalline mixtures for application in optical modulators
12.50 - 2.00 pm	LUNCH Break Venue: Dining Hall 1, Ground Floor, Visitors Hostel
Technical Session - 2 Chairperson: K. S. Krishnamurthy Venue: LH7, Auditorium	
2.00 - 2.30 pm	IL- 3: <i>Kattera A. Suresh</i> Phase and thickness behaviors of films of cholesterol and cholesteryl esters at interfaces
2.30 - 3.00 pm	IL- 4: <i>G. H. Mehl</i> Understanding the structure and structural parameters of systems with two nematic phases
3.00 - 3.30 pm	IL- 5: <i>Pratibha R</i> Cellular structures in dynamically asymmetric liquid crystalline mixtures
3.30 - 3.50 pm	OP- 3: <i>Alpana Nayak</i> Mimicking biological synapse by discotic LC-based atomic switch device
3.50 - 4.10 pm	OP- 4: <i>P. Vishwanath</i> Structure and wettability studies on the blends of amorphous and semi-crystalline ferroelectric polymers
4.10 - 4.30 pm	OP- 5: <i>Amitabha Bhattacharyya</i> Surfactant activity and spectroscopic characterization of saponin from <i>Albizia procera</i> extract
4.30 - 5.00 pm	TEA / COFFEE Break Venue: Lecture Hall Complex, Ground Floor
4.30 - 6.00 pm	General Body meeting of ILCS Venue: LH7, Auditorium



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4.30 - 8.00 pm	Poster Session Venue: Lecture Hall Complex, Ground Floor and First Floor
8.00 - 9.30 pm	DINNER Venue: Dining Hall 1, Ground Floor, Visitors Hostel
THURSDAY, OCT 12, 2017	
Technical Session - 3 Chairperson: Arvind Venue: LH7, Auditorium	
9.00 - 9.30 am	IL- 6: <i>Sandeep Kumar</i> Search of new discotic liquid crystals
9.30 - 10.00 am	IL- 7: <i>Jon A Preece</i> Serendipitous discovery of triphenoxazoles
10.00 - 10.30 am	IL- 8: <i>Ravindra Dhar</i> Enhanced efficiency of photo voltaic cells through columnar phases of discotic liquid crystalline materials
10.30 - 10.45 am	OP- 6: <i>Sathyanarayana Paladugu</i> Tunable electrophoresis of colloids in liquid crystalline electrolytes
10.45 - 11.15 am	TEA / COFFEE Break Venue: Lecture Hall Complex, Ground Floor
Technical Session - 4 Chairperson: D. S. Shankar Rao Venue: LH7, Auditorium	
11.15 - 11.45 am	IL- 9: <i>S. Krishna Prasad</i> On the photonic band gap, photoluminescence and fast switching of emission
11.45 - 12.15 pm	IL- 10: <i>Malay Kumar Das</i> Critical behavior of birefringence in re-entrant nematic liquid crystal mixtures



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12.15 - 12.30 pm	OP- 7: <i>Susanta K. Nayak</i> Supramolecular hybrid materials showing luminescent and liquid crystalline properties
12.30 - 12.45 pm	OP- 8: <i>Ashwathanarayana Gowda</i> Extension of triphenylene discotic liquid crystal core
12.45 - 1.00 pm	OP- 9: <i>Sharmistha Ghosh</i> Insights into the blue phases derived from short-core bent shaped liquid crystal molecules
1.00 - 2.00 pm	LUNCH Break Venue: Dining Hall 1, Ground Floor, Visitors Hostel
Technical Session - 5 Chairperson: Ravindra Dhar Venue: LH7, Auditorium	
2.00 - 2.30 pm	IL- 11: <i>B. T. Thaker</i> Thermotropic rod-like liquid crystals involving naphthalene ring and their metallomesogens
2.30 - 3.00 pm	IL- 12: <i>Geetha G. Nair</i> Photo-driven change in the polar environment tunes gelation in a nematic liquid crystal
3.00 - 3.15 pm	OP- 10: <i>Marlin Baral</i> Carbon nanotube reinforced polymer stabilized liquid crystal device: Lowered and thermally invariant threshold with accelerated dynamics
3.15 - 3.30 pm	OP- 11: <i>Marouan Chemangui</i> Doping the nematic liquid crystalline material with Iron (III) oxide (Fe_2O_3) nanoparticles
3.30 - 3.45 pm	OP- 12: <i>Pankaj Kumar</i> Low threshold field driven polymer dispersed liquid crystal with augmented electro-optic characteristics
3.45 - 4.00 pm	OP- 13: <i>Pankaj Kumar Tripathi</i> Dielectric and electro-optical properties and absorbance spectra of pristine and silica oxide nanospheres dispersed ferroelectric liquid crystal KCFL10S systems



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4.00 - 4.30 pm	TEA / COFFEE Break Venue: Lecture Hall Complex, Ground Floor
Technical Session - 6 Chairperson: B. T. Thaker Venue: LH7, Auditorium	
4.30 - 5.00 pm	IL- 13: <i>D. S. Shankar Rao</i> Influence of chirality on the thermal and electric properties of the columnar mesophase exhibited by homomeric dipeptides
5.00 - 5.30 pm	IL- 14: <i>Pankaj Mishra</i> Density functional theory of two-dimensional nematic colloids
5.30 - 5.45 pm	OP- 14: <i>Sandipan Dutta</i> Emergence of protein functions
5.45 - 6.00 pm	OP- 15: <i>Subrata Nath</i> Star-shaped π -gelators based on oxadiazole and thiadiazoles: A structure-property correlation
7.00 - 10.00 pm	CONFERENCE DINNER Venue: Hotel Hometel, Industrial Area Phase-I, Chandigarh
FRIDAY, OCT 13, 2017	
Technical Session - 7 Chairperson: Shri Singh Venue: LH7, Auditorium	
9.00 - 9.30 am	IL- 15: <i>Jagdish K. Vij</i> Ferroelectric liquid crystals with large electro-clinic effect in SmA* phase and unusual low-layer shrinkage in SmC* phase
9.30 - 10.00 am	IL- 16: <i>K. S. Krishnamurthy</i> Morphological and interfacial features of twist-bend nematic drops of CB7CB
10.00 - 10.30 am	IL- 17: <i>C. V. Yelamaggad</i> Self-assembly of liquid crystal-gold nanoparticle conjugates into helical lamellar superstructures; the first occurrence



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10.30 - 10.50 am	OP- 16: Praveen Malik Nanoparticles/polymers stabilized blue phase liquid crystals
10.50 - 11.10 am	OP- 17: Bharat Kumar Scanning probe microscopy for dielectric measurements of ultra-thin films of soft materials
11.10 - 11.30 am	TEA / COFFEE Break Venue: Lecture Hall Complex, Ground Floor
Technical Session - 8 Chairperson: S. Krishna Prasad Venue: LH7, Auditorium	
11.30 - 12.00 pm	IL- 18: Rajiv Manohar Graphene and its oxide induced changes in characteristics of ferroelectric liquid crystals
12.00 - 12.30 pm	IL- 19: Abhishek Chaudhuri Living liquid crystals: Cytoskeletal dynamics and their role in clustering of cell surfaces proteins
12.30 - 1.00 pm	IL- 20: Ravi K. Shukla Metal salts dispersed lyotropic liquid crystalline phases and gels for electrolytes applications
1.00 - 2.00 pm	LUNCH BREAK Venue: Dining Hall 1, Ground Floor, Visitors Hostel
Technical Session - 9 Chairperson: Kattera A. Suresh Venue: LH7, Auditorium	
2.00 - 2.30 pm	IL- 21: Maddasani Srinivasulu Synthesis and characterization of new Schiff's base liquid crystals with various terminal groups
2.30 - 3.00 pm	IL- 22: Manoj Bhushan Pandey Nematic colloids: defect around high and low symmetric colloidal particles



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3.00 - 3.20 pm	OP- 18: <i>Gurumurthy Hegde</i> Nanoscale alignment of liquid crystals using light as a tool: Future generation displays
3.20 - 3.35 pm	OP- 19: <i>Yuvaraj A. Rajkumar</i> Optical storage capability of azodyes substituted gold nanoparticles
3.35 - 3.50 pm	OP- 20: <i>Pabitra Maity</i> Interaction of sodium salts with positively charged phospholipid vesicle and comparison with negatively charged membrane
3.50 - 4.05 pm	OP- 21: <i>Srinatha M. K.</i> Self-assembly of thiocyanine dyes in water for the synthesis of active hybrid nanofibres
4.05 - 5.00 pm	Valedictory Function Venue: LH7, Auditorium
5.00 - 5.30 pm	High Tea Venue: Lecture Hall Complex, Ground Floor
5.30 - 8.00 pm	Sightseeing
8.00 pm	DINNER Venue: Dining Hall 1, Ground Floor, Visitors Hostel