

Scientific Program

Monday-Wednesday, October 21-23, 2019

DAY-1		MONDAY - 21 st Oct, 2019	
7:15 am – 8:15am	BREAKFAST		
	VENUE: DINING HALL, NITTTR, SECTOR-26, CHANDIGARH		
8:15 am – 9:00 am	Departure from NITTTR to Chitkara University, Punjab		
9:00 am – 9:45 am	REGISTRATION		
	VENUE: EXPLORETORIUM / SUN HALL (TURING BLOCK)		
9:45 am –10:50 am	INAUGURAL FUNCTION		
	VENUE: EXPLORATORIUM		
10:50 am –11:30 am	KEYNOTE ADDRESS: K K RAINA		
	Title: Liquid Crystals: Journey from Cholesteryl Benzoate to Cancer Detection Technology through the Golden Era of LCDs		
11:30 am –12:00pm	HIGH TEA		
	VENUE: EXPLORATORIUM		
TECHNICAL SESSION-1			
SESSION CHAIR: PROF. RAVINDRA DHAR			
VENUE: SUN HALL, TURING BLOCK			
12:00 pm – 12:30 pm	IL-01: Kattera A Suresh		
	Title: Nano Scale Electrical Conductivity in Ultrathin Films of Nickel Octabutoxy Phthalocyanine/Graphene Oxide System		
12:30 pm – 1:00 pm	IL-02: C V Yelamaggad		
	Title: Anomalous Odd-even Effect in Light-emitting Chiral Nematic Dimmers		
1:00 pm – 1:20 pm	OP-01: Amitabha Bhattacharyya		
	Title: Surfactant Activity and Preliminary Spectroscopic Characterization of Zephyranthes Carinata Extract		

1:20 pm – 1:35 pm	OP-02: Marlin Baral Title: Polymer Confinement of an Antiferroelectric Liquid Crystal: Thermal and Dielectric Behaviour
1:35 pm – 2:30 pm	LUNCH BREAK VENUE: THE DHABA
TECHNICAL SESSION-2 SESSION CHAIR: PROF. SANDEEP KUMAR VENUE: SUN HALL, TURING BLOCK	
2:30 pm – 3:00 pm	IL-03: Shri Singh Title: Effect of External Perturbations on Phase Transition Properties of Ferroelectric Liquid Crystals
3:00 pm – 3:30 pm	IL-04: Malay K Das Title: Induction of TGB Phase in Binary Mixtures of Achiral Hockey Stick-Shaped and Chiral Mesogen
3:30 pm – 3:50 pm	OP-03: Jai Prakash Title: Temporally Variable Dielectric Behavior of Liquid Crystal-Dimethylsulphoxide Mixture
3:50 pm – 4:10 pm	OP-04: Bharat Kumar Title: Determination of Hydrodynamic Radius of Peptides/proteins by Surface Manometry
4:10 pm – 4:30 pm	TEA/COFFEE BREAK VENUE: OUT SIDE SUN HALL
TECHNICAL SESSION-3 SESSION CHAIR: PROF. GEETHA G NAIR VENUE: SUN HALL, TURING BLOCK	
4:30 pm – 5:00 pm	IL-05: Pankaj Mishra Title: Nematic-isotropic Phase Transitions in a System of Gay-Berne Mesogens Confined to Two-dimensions
5:00 pm – 5:15 pm	OP-05: Govind Pathak

	Title: Study of Different Physical Parameters of Liquid Crystals with Dispersion of Dopants
5:15 pm – 5:30 pm	OP-06: Vinod Kumar Vishwakarma Title: Room Temperature Columnar Liquid Crystalline Materials Based on Pyrazino[2,3-G]Quinoxaline for Bright Green OLEDs
5:30 pm – 6:30 pm	GENERAL BODY MEETING OF ILCS VENUE: SUN HALL, TURING BLOCK
5:30 pm – 7:00 pm	POSTER SESSION (PP-01 to PP-37) VENUE: EINSTEIN HALL, GALILEO BLOCK
7:00 pm – 8:00 pm	CULTURAL PROGRAMME VENUE: EXPLORATORIUM
8:00 pm – 8:45 pm	Departure from Chitkara University, Punjab to NITTTR
8:45 pm – 10:00 pm	DINNER VENUE: DINING HALL, NITTTR, SECTOR-26, CHANDIGARH
DAY- 2	TUESDAY – 22nd Oct, 2019
7:15 am – 8:15 am	BREAKFAST VENUE: DINING HALL, NITTTR, SECTOR-26, CHANDIGARH
8:15 am – 9:00 am	Departure from NITTTR to Chitkara University, Punjab
	TECHNICAL SESSION-4 SESSION CHAIR: PROF. K. K. RAINA VENUE: PIERRE HALL, LE CORBUSIER BLOCK
9:00 am –9:30 am	IL-06: Jagdish K Vij Title: Recent Discoveries of Twist Bend Nematic and Smectic Phases in Achiral Bimesogens and Bent-core Systems
9:30 am –10:00 am	IL-07: S Krishna Prasad Title: Enhanced Photoluminescence in a Chiral Nematic Liquid Crystal through Polymer Stabilization and an Erasable 3-state Memory Device
10:00 am –10:30 am	IL-08: M Srinivasulu

	Title: Phase Abundance and Thermal Stabilities of Hydrogen Bonded Liquid Crystalline Binary Mixtures
10:30 am – 10:50 am	OP-07: Banani Das Title: Electro-optic Investigations on the Bi-component Orthoconic Antiferroelectric Liquid Crystalline Mixtures
10:50 am – 11:10 am	OP-08: Gautam Singh Title: Twist-bend Nematic Phase in Hybrid Bent-core-rod Trimer Mesogens
11:10 am – 11:30 am	TEA/COFFEE BREAK VENUE: PIERRE HALL, LE CORBUSIER BLOCK
TECHNICAL SESSION-5 SESSION CHAIR: PROF. SHRI SINGH VENUE: PIERRE HALL, LE CORBUSIER BLOCK	
11:30 am – 12:00 pm	IL-09: Sandeep Kumar Title: Discotic Liquid Crystals in Organic Photovoltaics
12:00 pm – 12:30 pm	IL-10: Geetha G Nair Title: Photonic Band Gap Tuning via Combined Effect of Electric and Optical Fields in a Blue Phase Liquid Crystal
12:30 pm – 12:50 pm	OP-09: RKNR Manepalli Title: Spectroscopic Studies on Liquid Crystalline P-N Decyloxy Benzoic Acid (10oba) with the Dispersion of Citrate Capped Gold Nanoparticles
12:50 pm – 1:10 pm	OP-10: Upendra Kumar Pandey Title: Mobility vs Alignment in Organic Semiconductors: A Case Study of Triindole Based Discotic Liquid Crystals
1:10 pm – 1:30 pm	OP-11: Rohit Verma Title: Thermal and Electrical Features of a Room Temperature Nematic Liquid Crystal Display Material and Gold Nanoparticle Composites

1:30 pm – 2:30 pm	LUNCH BREAK VENUE: THE DHABA
TECHNICAL SESSION-6 SESSION CHAIR: PROF. S KRISHNA PRASAD VENUE: PIERRE HALL, LE CORBUSIER BLOCK	
2:30 pm – 3:00 pm	IL-11: Ravindra Dhar Title: Liquid Crystals: Beyond Applications in Display Devices
3:00 pm – 3:30 pm	IL-12: D S Shankar Rao Title: Influence of Gold Nanorods on the Structure and Photonic Band Gap in a Twist Grain Boundary Phase with Smectic C* Blocks
3:30 pm – 3:50 pm	OP-12: Kamendra P Sharma Title: Self-assembled Hybrid Materials from Liquid Crystal Droplets and Proteins
3:50 pm – 4:10 pm	OP-13: Praveen Malik Title: Role of Magnetic Nanoparticles on the Electro-optic and Dielectric Properties of Ferroelectric Liquid Crystals
4:10 pm – 4:30 pm	TEA/COFFEE BREAK VENUE: PIERRE HALL, LE CORBUSIER BLOCK
TECHNICAL SESSION-7 SESSION CHAIR: PROF. R MANOHAR VENUE: PIERRE HALL, LE CORBUSIER BLOCK	
4:30 pm – 5:00 pm	IL-13: M B Pandey Title: Nematic Liquid Crystals and Single Wall Carbon Nanotubes Composites
5:00 pm – 5:15 pm	OP-14: Smriti Mitra Title: Investigation of Critical Behaviour Near the SmA-N Phase Transition of a Polar-polar Binary System from Specific Heat Capacity and Optical Birefringence Measurement
5:15 pm – 5:30 pm	OP-15: Joydip De

	Title: Room-temperature Columnar Liquid Crystals as Efficient Pure Deep Blue Emitters in Organic Light-emitting Diodes with an External Quantum Efficiency of 4.0%
5:30 pm – 5:45 pm	OP-16: Madhu Babu Kanakala Title: Synthesis and Characterization of Optically Active Calamitic Liquid Crystals Stabilising Room Temperature Chiral Phases
5:45 pm – 6:00 pm	OP-17: Indu Bala Title: Room Temperature Discotic Liquid Crystalline Triphenylene-Pentalkynylbenzene Dyads as an Emitter in Blue OLEDs and their Charge Transfer Complexes with Ambipolar Charge Transport Behaviour
6:00 pm – 7:00 pm	POSTER SESSION (PP-38 to PP-74) VENUE: EINSTEIN HALL, GALILEO BLOCK
7:00 pm	Departure from Chitkara University to Hyatt Regency, Chandigarh
8:00 pm – 10:30 pm	BANQUET DINNER VENUE: HYATT REGENCY, CHANDIGARH
DAY-3 WEDNESDAY – 23rd Oct, 2019	
7:15 am – 8:15 am	BREAKFAST VENUE: DINING HALL, NITTTR, SECTOR-26, CHANDIGARH
8:15 am – 9:00 am	Departure from NITTTR to Chitkara University, Punjab
TECHNICAL SESSION-8 SESSION CHAIR: PROF. D S SHANKAR RAO VENUE: PULITZER HALL, PICASSO BLOCK	
9:00 am – 9:30 am	IL-14: B T Thaker Title: Effect of Terminal Substituents on Mesomorphic Property of Liquid Crystalline Compounds Involving Ester-azo Linking Groups
9:30 am – 10:00 am	IL-15: R Manohar Title: Impact of Nanomaterials on Liquid Crystal Applications

10:00 am – 10:20 am	OP-18: Ramesh Manda Title: Dynamic Control of Photonic Band Gap of Monodomain Blue Phase Liquid Crystal Stabilized by Chiral Monomer
10:20 am – 10:35 am	OP-19: Irla Siva Kumar Title: Novel Annulated Triphenylene Discotic Liquid Crystals Generated by Pictet-Spengler Cyclization
10:35 am – 10:55 am	OP-20: Pankaj Kumar Tripathi Title: Swift Switching and Memory Effect of Ferroelectric Liquid Crystals with the Suspension of Iron Oxide Nanoparticle
10:55 am – 11:25 am	TEA BREAK VENUE: OUTSIDE PULITZER HALL, PICASSO BLOCK
TECHNICAL SESSION-9 SESSION CHAIR: PROF. KATTERA A SURESH VENUE: PULITZER HALL, PICASSO BLOCK	
11:25 am – 11:55 am	IL-16: Santanu K Pal Title: Highly Efficient Ambipolar Charge Carrier Transport Properties in Discotic Liquid Crystals
11:55 am – 12:25 pm	IL-17: Ravi K Shukla Title: Lyotropic Liquid Crystals for Nano Templating and Dye Sequestration
12:25 pm – 12:45 pm	OP-21: V. N. Vijayakumar Title: Observation of Thermochromic Effect in Nematic Hydrogen Bonded Liquid Crystals
12:45 pm – 1:05 pm	OP-22: Tatipamula Arun Kumar Title: Improved Electro-optical Properties of Liquid Crystal Cells Prepared with Chalcogenide Glasses
1:05 pm – 1:20 pm	OP-23: Rahul Uttam Title: Strengthening of Columnar Hexagonal Phase of a Room Temperature Discotic Liquid Crystalline Material by Using

	Ferroelectric Barium Titanate Nanoparticles
1:20 pm – 1:35 pm	OP-24: Sanjay K. Varshney Title: Study of Environmental Sensitivity Properties of Discotic Liquid Crystals
1:35 pm – 2:30 pm	LUNCH BREAK VENUE: THE DHABA
2:30 pm – 4:00 pm	VALEDICTORY FUNCTION VENUE: SUN HALL, TURING BLOCK
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