



# National Conference on Liquid Crystals



NCLC 2016

Dec. 07-09, 2016

Organized by : Department of Applied Physics, Indian School of Mines, Dhanbad-826004 (Jharkhand) INDIA

In Association with : Indian Liquid Crystal Society

## Overview

Liquid crystals (LC) are the substances that blend the structure and properties of the disparate liquid and crystalline solid. Liquid crystals exhibit a plethora of unique and attractive properties that offer tremendous potential for fundamental science as well as innovative technological, scientific, artistic, and medical applications. Today they are best known for their exceptionally successful applications in the flat panel displays. Liquid crystals have also been demonstrated successfully for controlled drug delivery & reporting agents for biological activities. Liquid crystal based technologies have clearly been established as the top few industrial technologies of modern era. In this background, looking to the future and the diversification of liquid crystal applications, this highly interdisciplinary field promises an important role for scientists and engineers trained in this exciting technology. The objective of this conference is to provide a common platform to researchers, scientists, engineers and industrialists to share their ideas and expertise and to get acquainted with latest advances in research & developments in liquid crystals and related fields.

## Indian Liquid Crystal Society and NCLC

The Indian Liquid Crystal Society (ILCS), established in the year 1992, is a prestigious scientific society of India. It consists of more than 350 life members along with many annually subscribing institutional and student members. National Conference on Liquid Crystals (NCLC) is held annually under the auspices of Indian Liquid Crystals Society in different parts of the country.

## Scientific Topics

- ✓ Physics and chemistry of soft matters
- ✓ Synthesis and molecular design
- ✓ Thermotropic/ lyotropic liquid crystals
- ✓ Liquid crystal polymers and elastomers
- ✓ Biological and bio-inspired liquid crystals
- ✓ Photosensitive liquid crystals
- ✓ Active liquid crystals
- ✓ Colloids, fibers and polymers
- ✓ Phase transitions, phase structures and defects
- ✓ Theory and modeling of liquid crystals, colloids and biological systems
- ✓ Hydrodynamics and rheology
- ✓ Optics and photonics
- ✓ Nanomaterials and nano-composites
- ✓ Dielectric, ferroelectric and flexoelectric properties
- ✓ Ferromagnetic liquid crystals
- ✓ Instabilities, pattern formation and chaos
- ✓ Surfaces and nanostructures
- ✓ Confined systems
- ✓ Applications of liquid crystal in displays
- ✓ Liquid crystal optics and applied systems: lasers and nonlinear optical devices, sensing devices and systems, energy saving films, energy conversion
- ✓ Applications of liquid crystals in earth sciences, mining and petroleum industries, etc.

## Invited Speakers

- |                              |                                |                              |
|------------------------------|--------------------------------|------------------------------|
| A. M. Biradar, New Delhi     | K. S. Krishnamurthy, Bangalore | R. Pratibha, Bangalore       |
| B. T. Thaker, Surat          | M. K. Das, Siliguri            | Ravi K. Shukla, Dehradun     |
| C. V. Yelamaggad, Bangalore  | M. B. Pandey, Kanpur           | Sandeep Kumar, Bangalore     |
| D. S. Shankar Rao, Bangalore | M. Srinivasulu, Manipal        | Satyendra Kumar, USA         |
| Geetha G. Nair, Bangalore    | N. Jayaraman, Bangalore        | Sri Singh, Varanasi          |
| Jagdish K. Vij, Ireland      | P. R. Alapati, Itanagar        | S. Krishna Prasad, Bangalore |
| K. A. Suresh, Bangalore      | R. Dhar, Allahabad             | T. V. Ramakrishnan, Varanasi |
| K. K. Raina, Dehradun        | R. Manohar, Lucknow            | Yashwant Singh, Varanasi     |

## Important Date

Events	Date
Start of Abstract submission	August 1, 2016
Deadline for the abstract submission	September 10, 2016
Notification of Acceptance	October 10, 2016
Deadline for registration	October 31, 2016
Conference Dates	December 7-9, 2016

## Registration Fee\*

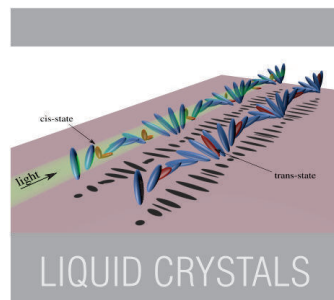
Participant	Before 31 <sup>st</sup> Oct., 2016	After 31 <sup>st</sup> Oct., 2016
Regular	Rs. 3500/-	Rs. 4000/-
ILCS Member	Rs. 3000/-	Rs. 3500/-
Ph.D. Students	Rs. 2000/-	Rs. 2500/-
Ph.D. Student ILCS Member	Rs. 1500/-	Rs. 1500/-
UG and PG Students	Rs. 1200/-	Rs. 1500/-
Corporate	Rs. 7000/-	Rs. 7500/-



\*Registration fee include conference kit, breakfast, lunch and dinner. Accommodation will be provided within ISM campus on payment basis.

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 Dr. M. R. Singh, APH, ISM Dhanbad  
 Dr. (Mrs.) B. Panda, APH, ISM Dhanbad  
 Dr. U. Tripathy, APH, ISM Dhanbad  
 Dr. B. Bhaduri, APH, ISM Dhanbad

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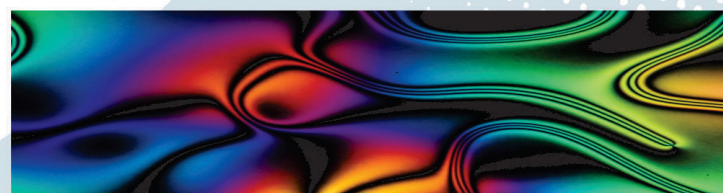
## Weather

Dhanbad experiences mild cold weather with sunny days in the month of December. The temperature may range between 15°C to 25°C.

## About the Venue



Established in 1926, Indian School of Mines (ISM) is a fully residential institute with all the amenities of a world class academic centre. It is situated in the heart of the country's prime coking coal belt, with a serene campus spread over an area of 393 acres, (with 218 acres of existing campus and 175 acres under acquisition and development). ISM is located in the City of Dhanbad, Jharkhand, 250 Km away from Kolkata on Howrah-New Delhi Grand Chord Railway route. The city is very well connected through Railways and road transport (NH2) to various parts of the country. Kolkata and Ranchi are two nearest international airports.



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