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7<sup>th</sup> International Conference on

# Luminescence and its Applications (ICLA-2023)

July 3 – 6, 2023

Venue: IICT, Tarnaka, Hyderabad, Telangana, India

Organized by



**Luminescence Society of India [1990-2023]**

**CSIR-Indian Institute of Chemical  
Technology, Hyderabad, (CSIR – IICT)**

**co-organizers**

**Indian Institute of Technology – Hyderabad (IIT-H)**

**National Institute of Technology – Warangal (NIT-W)**

**Jawaharlal Nehru Technological University, Hyderabad (JNTU-H)**

**Telangana University – Nizamabad (TU)**

**MG University, Nalgonda**



Industrial Partner

**Nucleonix Systems Pvt. Ltd, Hyderabad, India**

**Kwality Photonics, Hyderabad**



International Conference on Luminescence and its Applications (ICLA-2023)

July 3 – 6, 2023

**Theme of ICLA-2023: Energy Harvesting Materials**

## **ICLA-2023 Organizing Committee**

### **Patterns:**

Dr.D. Srinivasa Reddy, Director,CSIR-IICT, Hyderabad  
Prof. B S Murty, Director, IITHyderabad  
Prof. N. V. Ramana Rao, Director, NIT Warangal  
Prof. K.Narasimha Reddy, VC JNTU Hyderabad  
Prof. D. Ravinder, VC Telangana University  
Prof. Ch. Gopal Reddy, VC MG University

### **Chairman: Dr. K. V. R.Murthy**

President Luminescence Society of India

Email: [drmurthykvr@yahoo.com](mailto:drmurthykvr@yahoo.com): 0091 9327225568

Convener: **Dr. L.Giribabu**, CSIR-IICT, Hyderabad

Email: [giribabu@iict.res.in](mailto:giribabu@iict.res.in), 0091 9849408496

Co-convener: Prof. S J Dhoble, RTM Nagpur University

Co-convener: Prof. M. Srinivas, Osmania University, Hyderabad

### **International Advisory Committee**

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Dr. N. Kalaiselvi : DG, CSIR, New Delhi  
Dr. A. K. Tyagi, BARC, Mumbai  
Dr. D. K. Shukla, Chairman, AERB, Mumbai

### **Notable Key note/ Plenary Talks and International Speakers**

Prof. B. V. R. Chowdari , Singapore, **Thematic Speaker**

**Key Note Speaker:** Dr. A. K. Tyagi, BARC, Mumbai

**Key Note Speaker:** Prof. K. V. R. Murthy, MS University, Baroda

**Key Note Speaker** Prof. LiozEtgar, The Hebrew University of Jerusalem, Israel

### **Plenary Speakers**

Prof. Dirk Poelman, Ghent University, Belgium,

Prof. Frederic Sauvage, Universite' de Picardie Jules Verne, France

Dr. R.P. Rao, Speciality Phosphors, USA

Dr. Seema Vinayak, DRDO, Delhi

Dr. A. V. R Reddy, GII Mumbai

### **Invited Speakers**

: Prof. K. V. R. Chary, Rowan University, USA

Prof. Ashraf Islam, National Institute of Material Science, Japan

Prof. Hari Upadhyaya, London , South Bank University, UK

Prof. J Subash, Rowan University, USA

Prof. S Jonnalagadda, South Africa

Prof. Kalyana Sundaram, EPFL, Switzerland

Prof. Senthilarasu Sundaram, Edinburgh Napier University, Scotland

Prof. Xueyuan Chen, China

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Prof. Atef El-Taher, Egypt

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Prof. María Elena Zayas Saucedo, Mexico

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Dr. Ostuki, Nehoul University Japan

Prof. Saeki, Osaka University, Japan

Prof. Hayashi, Okayama University, Japan

Prof. Philippe, France

Prof. Nicolo, France

Prof. Akthar, Malaysia

Prof. O Anitha, Australia

Dr. Selivia, Italy

Prof. Louis, Brazil

Zayakhuu Gerelkhuu, South Korea

Ziyafer Gizem Portakal Uçar, Turkey

Mouftahou B Latif, Nigeria

Elcin Ekdal Karali, Turkey

Dr. Vijay Singh, South Korea

Prof. Rong-Jun Xie, Xiamen University, China

Prof. Lilia Coronato Courrol, UNIFESP, Brazil

Dr. K R Nagabhushana, UNIFESP, Brazil

### **Group Presentations**

Prof. A K Tyagi BARC group , Convener: Dr. Sudarshan, BARC

Prof. D Haranath, NIT Warangal

Prof. Namita Brahme and Prof. D Bisen, Pt RS University Raipur

Prof. S J Dhoble, RTM Nagpur University

## **National Speakers**

Prof. S. J. Dhoble, RTMNU, Nagpur  
Dr. Karunakaran Venugopal, CSIR-NIIST – Trivandrum  
Dr. Santhosh Babu – CSIR-NCL – Pune  
Prof. Subi George – JNCASR – Bangalore  
Prof. Anunay Samanta – University of Hyderabad – Hyderabad  
Shri. J N Reddy, Nucleonix Systems, Hyderabad  
Shri. K V K Gupta, Kwaliti Photonics, Hyderabad  
Prof. D. P. Bisen, PtRSU  
Dr. S P Singh, CSIR-IICT  
Dr. C. Shivakumara, IISc, Bangalore  
Prof. Nameeta Brahme, PtRSU  
Prof. Soma Venugopal Rao – HCU  
Dr. Sai Santosh Kumar R. – IIT – Hyderabad  
Prof. D. Haranath – NIT – Warangal  
Dr. Abhijit Hazarika – CSIR-IICT – Hyderabad  
Dr. Raghu Chitta – NIT – Warangal  
Prof. Dorendrajit Singh, Manipur  
Prof. Reji Varghese – IISER – Trivandrum  
Dr. C. Vijayakumar – CSIR-NIIST – Trivandrum  
Dr. Joshy Joseph – CSIR-NIIST – Trivandrum  
Dr. Jatish Kumar – IISER – Tirupati  
Dr. Jino George – IISER – Mohali  
Dr. Ravi Kumar Kanaparthi – Central University of Kerala  
Dr. Ratish Kumar – IISER – Kolkata  
Prof. Mahesh Hariharan – IISER – Thiruvananthapuram  
Dr. S. Prasanth Kumar – CSIR-IICT – Hyderabad  
Dr. Rahul Dev Mukhopadhyay – Ramananda College – Kolkata  
Dr. Vishal D. – CSIR-CECRI – Chennai  
Dr. Sreejith Shankar – CSIR-NIIST – Trivandrum  
Dr. N. Unni – CSIR-NIIST – Thiruvananthapuram  
Prof. Prasun Kumar Mandal, IISER, Kolkata  
Prof. Santanu Bhattacharaya, IISER Berhampur  
Dr. Subhasis Panja, CSIR-NPL-New Delhi  
Prof. R Gupta, IIT, Kanpur  
Prof. Ran Veer, IIT, Mandi  
Prof. Sapala, IIT, Delhi  
Prof. Monojit Bag, IIT, Roorkee  
Prof. Tata Narasinga Rao, ARCI, Hyderabad

### **Invited Technical Speakers**

Dr. P. R. Bangal – CSIR-IICT  
Dr. Vikas Dubey, BIT, Raipur  
Prof. M Srinivas, OU, Hyderabad  
Dr. RamAsish C, DRDO, Delhi  
Dr. O.P Thakur, DRDO, New Delhi  
Dr. Pradip Kumar, AERB, Mumbai  
Dr. N Gopakumar, Kerala University  
Dr. VikasDubay, BITS Raipur  
Dr. Prasantha, Bangalore  
Prof. Jagjeet Kaur, Durg  
Prof. Y H Gandhi, Baroda  
Prof. O.P. Pandey, Thapar Institute Patiala  
Prof. N L Singh, Delhi  
Dr. Sudeshna Ray, Bhopal  
Prof. M Srinivas, MSU, Baroda.  
Dr. R P Patel, GGCU Bilaspur  
DR. Jai Singh, GGCU Bilaspur  
Dr. Isewar P Sahoo, TU, Amarkantak  
Dr. S. V. Manorama – CSIR-IICT  
Dr. Pratyay Basak – CSIR-IICT  
Dr. Abhijit Hazarika – CSIR-IICT  
Dr. M. Chandrasekharam – CSIR-IICT  
Dr. Rakesh Rai, GEC, Ujjain  
Dr K SenthilKannan, Nagapattinam  
Dr. S. Masilla Moses Kennedy, Chennai  
Dr. S.C. Prashantha, Bangalore  
Dr. Selvin Christopher, HBNI, Mumbai  
Dr. V Sivakumar, IIT Hyderabad  
Prof. Jagjeet Kaur Saluja, Durg  
Prof. P.K. Mohapatra, BARC, Mumbai  
Dr. V. Sudarsan, BARC, Mumbai  
Dr. S N Achary, BARC, Mumbai  
Dr. Bhaskar Sanyal, BARC, Mumbai  
Dr. Pradip Kumar, AERB, Mumbai  
Prof. P D Sahare, Delhi University  
Dr. N. Lakshmi Narasimhan, CECRI  
Prof. H Nagabhushana, RIT, Bangalore  
Prof. P.K. Mohapatra, BARC, Mumbai  
Dr. A R Lakshmanan, SEC Chennai  
Dr. V. Ponnusamy, Anna University  
Dr. A.K. Bakshi, BARC Mumbai  
Shri. Sripal Desai, GII Mumbai  
Prof. R K Kuraria, Jabalpur  
Dr. C Pandurangappa, RNSIT, Bangalore  
Dr. B S Chakrabarty, Baroda

Dr. Ananthanarayanan, SRM Chennai\  
Dr. Mahesh, SRM, Amaravati  
Dr. A. Milton Franklin Benial, Madurai

### **CSIR-Indian Institute of Chemical Technology (CSIR-IICT)**

CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Hyderabad, established in 1944, is a constituent laboratory of the Council of Scientific and Industrial Research (CSIR), New Delhi. With its expertise in chemistry and chemical technology, it provides solutions to challenges faced by Industry, Government Departments and Entrepreneurs through basic and applied research, and process development. The institute is internationally recognized for its contributions to chemistry research and is an ideal place for taking ideas to commercialization through state-of-the-art research and development. CSIR-IICT during its seventy five year journey has made its mark as a dynamic, innovative and result-oriented R&D organization. The clientele spans all corners of the globe. In India, it is CSIR-Indian Institute of Chemical Technology (CSIR-IICT) is one of the oldest National Laboratories the reliable destination of chemical and biotech industries. Department of Polymers & Functional Materials has involved in both basic and applied research activities that includes dyes, additives and small organic molecules are the most important and widely expanding area of research and development for the modern society for variety of applications, *viz.*, energy generation (excitonic solar cells) and storage, infrastructure, housing, healthcare including diagnostics, strategic sector including aerospace, paints/coatings/composites, *etc.* The reputation that CSIR-IICT could establish amongst the industrial clients as a reliable R&D partner, can be largely attributed to its rich pool of scientists with expertise in broad-ranging research areas and simple and effective business development strategies.

**Luminescence Society of India (LSI):** Luminescence Society of India (LSI), formed in 1990 [venue of 3<sup>rd</sup> CECRI Luminescence conference, Karaikudi, January 1990, India]. The conferences list, provides a forum for interaction for Indian scientists and technologists having affiliation to different universities and research institutions in the field of luminescence and their applications by organizing annual conferences regularly. Four international conferences were successfully organized wherein Indian researchers were joined by a large number of foreign scientists. During the past thirty two years, in addition to scientific sessions, there has been an increase in the participation of delegates from industry as exhibitors of their products and for technical presentations. Moreover rapporteur and oral sessions are being held regularly for the past 32 years in order to accommodate the papers of all participants in the technical sessions.

**The conference:** International Conference on Luminescence and its Applications (ICLA-2023) is a prestigious event of the Luminescence Society of India (LSI). ICLA-2023 is going to be held during 3-6<sup>th</sup> July 2023 at Hyderabad being organized by CSIR-Indian Institute of Chemical Technology (CSIR-IICT) in association with Luminescence Society of India (LSI). The other co-organizers are CSIR-National Geophysical Research Institute (CSIR-NGRI), Indian Institute of Technology – Hyderabad (IIT-H), Osmania University (OU), Jawaharlal Nehru Technological University – Hyderabad (JNTU-H), National Institute of Technology – Warangal (NIT-W) and Telangana University – Nizamabad (TU). In addition, industrial partners Nucleonix Systems Pvt. Ltd and Kwality Photonics Hyderabad are ready to participate at ICLA-2023.

Luminescence Society of India had organized an International Symposium cum Workshop on Luminescence Materials (ISWLM-2015) during 18th -19<sup>th</sup> December, 2015 at Baroda, India as a celebration in the YEAR OF LIGHT-2015. Since the inception of LSI, this conference is the 27th in a series of annual conferences organized by LSI. The conference is the follow-up of previous one NCLA-2021 (Govt. V.Y.T.PG. Auto. College Durg)NCLA-2020 (NIT-Warangal),ICLA-2019 (Pt. RSS University, Raipur), NCLA-2018, (NIIST, Trivandrum), NCLA-2017, (IICT, Hyderabad) NCLA-2016, (R.T.M. Nagpur University, Nagpur), ICLA-2015 (PES University, Bengaluru), NCLA-2014 (Jabalpur), NCLA-2013 (PESIT, Bengaluru), ICLA2012 (IICT, Hyderabad), NCLA-2011 (Pt. RSS University, Raipur), NCLA-2010 (GRU, Gandhigram), NCLA-2009 (CGCRI, Kolkata), ICLA-2008 (NPL, New Delhi), NCLA-2007 (BU, Coimbatore), NCLA-2006 (SGB University, Amravati), NCLA-2005 (BU, Bengaluru), ICLA-2004 (BARC, Mumbai), NCLA-2003 (NPL, New Delhi), RDU, NCLA-2002 (Jabalpur), NCLA-2001 (OU, Hyderabad), ICLA-2000 (MSU, Baroda), NCLA-1998 (MU, Imphal), NCLA-1997 (Bilaspur), NCLA-1995 (RU, Raipur), , NCLA-1994 (Jabalpur), NCLA-1991 (MSU, Baroda).

### Themes of ICLA-2023

ICLA 2023 envisages diversified and multi-disciplinary technical sessions; amongst few are plenary lectures and an exhibition of equipment and other materials. Latest developments in the field of luminescence research and its applications will be reviewed and the conference is expected to provide an interactive platform to the academia, researchers and the industry. Participations from different industries, universities and academic institutions from all over the globe are anticipated. The organizing committee hereby invites scientists/technologists engaged in basic as well as applied research in Universities, Research Institutions and Industries to participate. The scientific sessions will comprise plenary talks, invited talks and contributed papers (both oral and poster) on the following topics:

### Format of ICLA-2023

Key Notes -4 50 Minutes	Plenary Talks-4 45Minutes	Invited Talks-40 30Minutes	Invited Technical Talks- 20Minutes Total-40	Group Presentations 7	Oral Presentations	Poster Presentations
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1. Photoluminescence
2. Electroluminescence
3. Thermoluminescence
4. Phosphors and nanophosphors (preparation and characterization)
5. Photonic materials and lasers
6. Luminescence for improving efficiency of solar cells
7. Luminescence from glasses and glass ceramics
8. Luminescence from organic compounds

9. Luminescence in gemstones and diamonds
10. Luminescence for improving agriculture productivity
11. Optical materials (nanomaterials, quantum dots, biomaterials, ceramics etc.)
12. Optically Stimulated Luminescence (OSL)
13. Mechano, Sono and chemiluminescence
14. Optoelectronic devices (LEDs, OLEDs, Fiber optic sensors, etc.)
15. Radiations effects on luminescence and dosimetry
16. Luminescence dating [TL and OSL]
17. Luminescence instrumentation
18. Phosphors for LED applications
19. Phosphors for bio-medical and security applications
20. Biodegradable phosphor composites
21. Novel applications of luminescence
22. Industrial applications of phosphors
23. Theoretical aspects of luminescence
24. Luminosity of Universe. And Space dosimetry
25. Material Science and functional materials and glasses.

**Conference language:** The conference presentations and deliberations will be in English.

#### **Call for abstracts**

Authors should submit an abstract of an original, unpublished paper not exceeding 300 words without figures or tables. The abstract format can be downloaded from the conference or LSI web sites i.e. [www.lumsocindia.org](http://www.lumsocindia.org). The abstract must be submitted by online through conference web site [google form]. Each registered participant can submit one abstracts only. If there is any difficulty during the abstract submission please contact via e-mail: [iclaiict2023@gmail.com](mailto:iclaiict2023@gmail.com)

#### **Proceedings**

All the abstracts accepted from registered participants will be published in the conference proceeding with ISBN number. Papers presented at ICLA-2023 are planned to be published in the International Journal of Luminescence and its Applications after regular refereeing process. The journal format for manuscripts can be downloaded from the web sites i.e. [www.lumsocindia.org](http://www.lumsocindia.org) and <http://ijlaindia.org>.

**Registration Guidelines:** Registration fee (Nonrefundable) should be paid on line bank transfer or at the counter. Registration fee includes conference kit, Lunch and High Tea. Only one abstract will be accepted for one registration [ Google form for Indian participants: <https://forms.gle/4H3W2Ez3PjEBW7248>].

#### **Sponsors (Tentative)**

DST, DAE- BRNS, AERB, CSIR, UGC, AICTE, DRDO, DIT, ICMR, DET.

**Registration Fee for Overseas foreign participants in USD or equivalent:** UG, PG students: USD 250/- Research [Ph.D] students: 300/- Faculties: 400/- Industry Delegates: 500/-. For invited speakers USD 200/- [Conference fee can be paid by bank transfer or on arrival] There



will not be any late fee. Spouse Registration: USD 200/-. Registration fee includes conference kit, Lunch and High Tea and Banquet.

**Overseas participants** abstract submission to : [iclaiict2023@gmail.com](mailto:iclaiict2023@gmail.com). Last date 12<sup>th</sup> June, 2023.

Registration Fee for Indian Participants (In INR) : UG, PG students: 2500/- Research students: 3000/- Faculties: 4000/- Industry Delegates: 5000/- [ All Luminescence Society of India life members will get Rs.500.- discount] Spouse Registration: INR 2000/-. Registration fee includes conference kit, Lunch and High Tea and Banquet.

**Impartment dates:**

Abstract submission last date: **12<sup>th</sup> June, 2023.**

Notification of program: **15<sup>th</sup> June, 2023**

**ICLA-2023 Registration Convener:** Prof. A S Sai Prasad, VCE, Hyderabad

Contact details: [asp59in@yahoo.co.in](mailto:asp59in@yahoo.co.in), Cell: 0091 9959418896

Co-Conveners: Dr. P S Anjana, All Saints College, Thiruvananthapuram.

Members: Dr. B S Rao, Dr. J Kishore Babu, GRIET, Hyderabad

**Accommodation**

For first 50 registered students accommodation will be free, participants are required to inform the [iclaiict2023@gmail.com](mailto:iclaiict2023@gmail.com) well in advance with registration fee details. Budget accommodations are available around and near the conference venue ranging from USD20/- onwards: Indian Rupees 1500/-

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**Committees ICLA-2023**

<b>Committees</b>	<b>Convener</b>	<b>Members</b>
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	Dr. L Giribabu	
Travel Support TA/DA	Convener Prof. Y H Gandhi <a href="mailto:yasheshgandhi@yahoo.co.in">yasheshgandhi@yahoo.co.in</a> cell; 0091 9427541572	
Accommodation	Request to be sent to e-mail: <a href="mailto:iclaiict2023@gmail.com">iclaiict2023@gmail.com</a>	drmurthykvr@yahoo.com
Transportation	Anjaneyulu, IICT Transport Department	B D Sanjay
Reception and Stage Management	Dr. Ramanuj Narayan – CSIR-IICT	K. Sriram, IICT
Banquet and Ice breaking , Food	Prof. D Dinakar, NIT Warangal	Dr. B S Rao, Dr. B W Ratna Kumar, Dr. M Sridhar, Dr. V Ravi Kumar K. Sriram, IICT
Media and Publicity	Rajendra Reddy IICT Media Department	
<b>Exhibition and Display of Products and Souvenir</b>	All instruments related to characterization of materials and related luminescence measurements. e-mail: <a href="mailto:iclaiict2023@gmail.com">iclaiict2023@gmail.com</a>	<b>Interested can contact the Exhibition Convener:</b> <a href="mailto:iclaiict2023@gmail.com">iclaiict2023@gmail.com</a> Prof. A S Sai Prasad, VCE, Hyderabad Dr. M Sridhar, GRIET, Hyderabad
Food		
Website	Dr. Rakesh Chandran S B	R. Krishnam Raju, VCE, Hyderabad

**Organizing committee: IIT Hyderabad**

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Dr. Sai Santhosh Raavi  
Dr. Vanadana Sharma  
Dr. Shinde Satish Laxman  
Dr. Yogesh Srivastava  
Dr. V. Sivakumar

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Dr. C J Panchal, MSU Baroda  
Prof. S K Omanwar, Amaravati  
Dr. Ravi Sharma, Raipur  
Dr. B G Sharma, Raipur  
Dr. Bhuvanservi Verma, Raipur  
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Dr. K. G Chowdari, Mumbai  
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