



**6<sup>th</sup> International Conference on  
Luminescence and Applications  
[ICLA-2019]  
January 7-10, 2019**



**Organizers**

**School of Studies in Physics and Astrophysics  
Pt. Ravishankar Shukla University  
(Accredited with 'A' Grade by NAAC)  
Raipur-492010, Chhattisgarh, INDIA**

**&**

**Luminescence Society of India (LSI)**

**Co-organizers**

**Department of Physics  
National Institute of Technology, Raipur - 492001, Chhattisgarh, INDIA  
Government Nagarjuna Post Graduate College of Science, Raipur - 492001,  
Chhattisgarh, INDIA**

**The University**

Pt. Ravishankar Shukla University (PRSU), established in 1964, is the largest and the oldest academic institution of Chhattisgarh state. It is well connected by air, rail and road between Howrah and Mumbai, and lies on NH-6. The campus is located at about 25 kilometres from the airport and about 4 kilometres from the railway station. The PRSU has 300 acres sprawling campus and grown enormously over the last 53 years in terms of population of students (approx. 2 lakhs) as well as disciplines, viz. arts, science, life science, humanities, law, education, pharmacy, management, physical education, etc. There are 29 schools of studies and around 180 educational institutions affiliated to the University, which is spread over different districts of Chhattisgarh. Recently it has been accredited with "A" grade by NAAC.

**School of Studies in Physics and Astrophysics**

The School of Studies in Physics & Astrophysics was established in the year 1972. Since its very inception, the department has been imparting quality education at PG level and advanced research in frontline areas of Physics with major focus on Solid State/Condensed Matter Physics/Materials

Science and Astronomy & Astrophysics (A&A), so that students of this region get academically benefited at par with any leading National/International institutions. It is worth mentioning that Pt. Ravishankar Shukla University is one amongst only few Indian Universities, and the one in the new state of Chhattisgarh, where teaching and research in Astronomy and Astrophysics (A&A) is being carried out in the Physics Department. In material Science, two groups are there: Luminescent materials research group and solid state Ionics group. The department was recognized as Center of Excellence (1987-1992) by M.P. Uchcha Shiksha Anudan Ayog, Bhopal. The department has received DST-FIST twice. The second DST FIST program has been approved to initiate two-semester specialization course on Physics of Nanomaterials for M.Sc student.

### **About Luminescent Society of India (LSI)**

Luminescent Society of India (LSI), founded in 1990, provides a forum for the interaction amongst Indian scientists and technologists affiliated to different universities and research institutions in the field of Luminescence and their applications. The annual conference under auspices of LSI has been a regular feature. Five international conferences have been successfully organized wherein Indian researchers have established rapport with a large number of foreign scientists. During the past twenty five years, in addition to holding scientific sessions, the participations of delegates from industry as exhibitors of their products have increased. Moreover, rapport building and holding oral sessions are regularly done for past 25 years which accommodate the papers of all participants in the technical sessions.

### **Raipur- The Capital City**

The city of Raipur is the capital of Chhattisgarh. It represents the administrative, education, business and industrial seat of the State of Chhattisgarh. In its immediate neighbourhood lies the Steel city of INDIA-Bhilai, where one of the Asia's largest Steel Plants is located. In the South of Raipur, the Tribal heart of India-the Bastar, where the tribal culture, art and philosophy are still preserved in pristine form along with the natural habitat in deep and thick woods. Raipur is located about 300 km from Nagpur in the East on the Mumbai-Kolkata trunk line. It is well connected with major cities of India by Air, Rail and Road. In January, the climate of Raipur is usually pleasant. Normal winter clothing and other outfit will suffice.

### **Themes of ICLA-2019**

Participations from different industries, universities and academic institutions from all over the world are anticipated. 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 delegates of industries. The organizing committee hereby invites scientists / technologists engaged in basic as well as applied research from various Universities, Research Institutions and Industries to participate. The scientific sessions will comprise Key notes, plenary talks, invited talks, technical talks and the presentation of research papers (both oral and poster).

1. Photoluminescence
2. Thermoluminescence
3. Optically Stimulated Luminescence (OSL)
4. Bioluminescence
  
5. Cathodoluminescence
6. Ionoluminescence
7. Electroluminescence
8. Luminescence dating
9. Mechano, Lyo, Sono, Chemiluminescence
10. Theoretical aspects of luminescence
11. Nanophosphors: Physics and materials
12. Space dosimetry
13. Radiations effects and dosimetry
14. Organic luminescence and OLEDs
15. Phosphors for solar cell
16. Third generation solar cells
17. Luminescence in Gemstones and diamonds
18. Luminescence instrumentation and Low Temperature TL
19. Role of Luminescence in allied Applications

20. Industrial applications of phosphors
21. Optical properties of Nano-materials and Quantum Dots
22. Phosphor materials preparation and Characterization
23. Luminescence in amorphous materials
24. Luminescence/ Phosphors in Medical Applications

#### Characterization techniques of optical materials

- Luminescence mechanisms and energy transfers
- Theory and modelling of optical processes
- Ultrafast-laser processing of materials
- Luminescence thermometry
- Physical, chemical and biological sensing using optical methods
- Optical sensors
- Medical imaging and bioimaging
- Advanced optical materials in photovoltaics and biophotonics
- Devices: lasers and amplifiers, LED and OLED, plasmonic light sources, photovoltaics
- Photothermal and photoacoustic spectroscopy and phenomena

#### Call for abstracts

Author should submit an abstract original, unpublished paper not exceeding 500 words without figures and tables. The abstract should include:

- Title MS Word in Arial (Size 16 Points) in single spacing.
- Authors name MS Word in Arial (Size 14 Points).
- Affiliation MS Word in Arial (Size 12 Points).
- Abstract MS Word in Arial (Size 12 Points) in single spacing.

Abstract should briefly include the purpose of study, methods, results and conclusions. At the bottom of the page, please indicate the category (thrust area). Abstract Submission of abstract can be made on line through the official website 'www.lumsocindia.org' or by e-mail to **Prof.V.Natarajan**, Secretary, Technical Committee : [iclarai2019@gmail.com](mailto:iclarai2019@gmail.com).

#### Tentative funding agencies:

**UGC, DST, AERB, BRNS, DBT, DIT, DRDO, CGCOST**

**All the sponsoring fund can be transferred to:**

Head SOS in Physics RSU Raipur

Bank Name : State Bank of India  
Account No. : 10049592188  
IFSC Code : SBIN0003739  
Branch Code : 03739  
Branch : Pt. Ravi Shankar Shukla, University, Raipur

**Registration Fee**

Registration fee should be paid either in cash or Electronic transfer to

Registration fee to : Luminescence Society of India  
By Bank Transfer : Bank of Baroda, AC No.05780100004045  
Swift Code : BARB0DANDIA (0= ZERO)

**Registration Fee**

***LSI Life Members***

Till 30<sup>th</sup> November 2018 : Rs. 4,000/-  
After 30<sup>th</sup> November 2018 : Rs. 4,500/-

***Students***

Till 30<sup>th</sup> November 2018 : Rs. 3,000/-  
After 30<sup>th</sup> November 2018 : Rs. 3,500/-

**All student participants who register before Dec. 1, 2018 are eligible for free accommodation at appropriate places.**

***Delegates from Industry***

Till 1<sup>st</sup> November 2018 : Rs. 5,000/-  
After 1<sup>st</sup> November 2018 : Rs. 6,000/-  
Accompanying Person\* : Rs. 2,000/-

***Overseas Delegates***

Invited speakers : \$ 300  
Regular Delegates : \$ 600  
Students# : \$ 400  
Accompanying person\* : \$ 100

Delegate registration fee will cover Conference Literature (kit), Working Lunch, Dinner, Tea & Snacks.

# Students should send their registration form through their guide

\* Accompanying person's registration fee will cover working lunch, dinner, tea & snacks

**Important Dates**

Abstract submission opens : 20 September 2018  
Registration opens : 20 September 2018  
Abstract submission ends : 20 November 2018  
Acceptance of Abstracts : 30 November 2018  
Early registration : 01 December 2018  
Accommodation request : 10 December 2018  
Manuscripts submission : 31 December 2018

**Hotel Accommodation:**

One can book the following hotel nearer to conference venue. The following is the tariff exclusively for ICLA-2019, Raipur. [www.sarovarhotels.com](http://www.sarovarhotels.com)

Occupancy	CP (Bed & Breakfast)	MAP (Bed, Breakfast & one major meal)	AP (Bed, Breakfast & two major meal)
SINGLE	INR 2400 + GST	INR 2900 + GST	INR 3400 + GST
DOUBLE/TWIN	INR 2900 + GST	INR 3900 + GST	INR 4900 + GST

**For accommodation contact:**

**Prof. D. P. Bisen**

Convener, ICLA-2019

Email: [dpbisen@rediffmail.com](mailto:dpbisen@rediffmail.com),

Mb: 0091 9406201131

**Local Organizing Committee****Chief Patrons:**

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Pt. R.S. University, Raipur, India

**Prof. S. K. Pandey**

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Polish Academy of Sciences, Wrocław, Poland  
w.strek@intibs.pl

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Wushan Road 381, Guangzhou 510641, China

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Dr. D. Harnath, NIT, Warangal, India

#### **Thematic Convener**

Dr. R. P. Rao

Industrial Applications of Phosphors and/ Nano phosphors-Physics and Materials, USA

Dr. Morthekai, P. Birbal Sahni Institute of Palaeosciences, Lucknow

### **Overseas invited speakers**

Prof. W. Strek, ILSR, Poland- Key Note Speaker  
Prof. B. V. R. Chowdari, NTU, Singapore  
Prof. Dirk Poelman, Ghent University, Belgium  
Dr. Regina DeWitt, East Carolina University, USA  
Prof. P. J. Deren, ILSR, Poland  
Prof. Marek Grinberg, Gdansk University, Poland  
Dr. R. P. Rao, Speciality Phosphors, USA  
Prof. Bert Hintzen, Netherlands  
Prof. K. V. R. Chary, Rowen University, USA  
Prof. Serguei Sekatski, EPFL, Switzerland  
Prof. G. Polymeris, Ankara University, Turkey  
Prof. Ravindra Pandey, Michigan Technological University, USA  
Prof. Oscar L. Malta, UFPE, Brazil  
Prof. Makaiko Chithambo, Rhodes University, South Africa  
Prof. J. F. D. Chubaci, University of Sao Paulo, Brazil  
Dr. Sonia Tatumi, University of Sao Paulo, Brazil  
Prof. T. K. G. Rao, University of Sao Paulo, Brazil  
Dr. Mayank Jain, Risoe-DTU, Denmark  
Dr. Suchinder Sharma, Germany  
Dr. Sumiko Tsukamoto, Germany  
Dr. Naomi Porat, Israel  
Prof. Marek Samoć, Wrocław University of Technology, Poland  
Prof. Philippe Smet, Ghent University, Belgium  
Prof. Luis Diaz Carlos, Aveiro University,  
Prof. Thomas Jüstel, Münster University,  
Prof. Martin Nikl, Academy of Sciences of The Czech Republic,  
Prof. Bruno Viana, Institut de Recherche de Chimie Paris,  
Prof. Peter Dorenbos, Delft University of Technology, Netherlands  
Prof. Mike Ried, University of Canterbury, New Zealand  
Prof. Adolfo Speghini, Verona University, Italy  
Prof. Philippe Boutinaud, Institut de Chimie de Clermont-Ferrand, France  
Prof. Miroslav Dramicanin, University of Belgrade, Serbia  
Prof. Joan Josep Carvajal, Universitat Rovira i Virgili, Spain  
Prof. Philippe Goldner, Institut de Recherche de Chimie Paris, France  
Prof. Antonio Benayas, University of Quebec, Canada  
Dr. Jumpei Ueda, Kyoto University, Japan  
Prof. Ga-Lai Law, The Hong Kong Polytechnic University,  
Prof. Chong-Geng Ma, Chongqing University of Posts and Telecommunications, China  
Dr. Fabio Piccinelli, Verona University, Italy  
Prof. Murat Erdem, Marmara University, Turkey  
Prof. Mingmei Wu, Sun Yat-Sen University, Guangzhou, China  
Prof. Hari Upadhyay, Brunel University, UK  
Dr. L. A. Peteanu, Carnegie Mellon University, USA  
Dr. R. N. Bhargava, NCT, USA



### **Indian Invited Speakers/ Technical Speakers:**

Prof. M. D. Sastry, GIT, Mumbai  
Prof. B. N. Jagtap, IIT, Mumbai  
Dr. K. V. R. Murthy, M S University, Baroda  
Prof. S. J. Dhoble, RTMNU, Nagpur  
Dr. P. Prabhakara Rao, CSIR-NIIST, Trivandrum  
Dr. Jeyamgonda Perumal, WIHG, Dehradun  
Dr. Morthekai, P., Birbal Sahni Institute of Palaeosciences, Lucknow  
Prof. G. Krishnamoorthy, IIT, Guwahati  
Dr. V. Sivakumar, NIT, Rourkela  
Prof. Jairam Manam, IIT, Dhanbad  
Prof. A. K. Tyagi, BARC, Mumbai  
Prof. M. S. Kulkarni, BARC, Mumbai  
Prof. V. Sudarsan, BARC, Mumbai  
Prof. D. K. Koul, BARC, Mumbai  
Prof. R. M. Kadam, BARC, Mumbai  
Dr. N. Lakshmi Narasimhan, CECRI, Karaikudi  
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Dr. M. T. Jose, IGCAR, Kalpakkam  
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Dr. Robindro Singh, NEHU, Shillong  
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Prof. B. M. Nagabhushana, MSRIT, Bangalore  
Prof. Christopher Selvin, Bharathiar University, Coimbatore  
Dr. P. K. Sharma, IIT, Dhanbad  
Dr. Karthik Shinde, NS Science and Arts college, Bhadravati  
Dr. Rakesh. K. Rai, Govt. Engineering College, Ujjain  
Dr. Moses Kennedy, Chennai  
Dr. S. C. Prashanta, EWIT, Bangalore  
Dr. H. Nagabhushana, Tumkur University, Tumkur.  
Dr. Sudeshna Ray, ISECTU, Bhopal  
Dr. M. Kottaisamy, Trichy  
Dr. Latha Israni, Pondicherry university  
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Dr. K. R. Nagabhushana, EC Member, LSI  
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Dr. Hitesh Mandavia, Morbi

### **Address for Correspondence**

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**PASSPORT DETAILS REQUIRED FROM OVERSEAS PARTICIPANTS**

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Designation & Affiliation : \_\_\_\_\_

Nationality : \_\_\_\_\_

Passport Number : \_\_\_\_\_

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Passport Issuing Authority : \_\_\_\_\_

Expiry Date of Passport : \_\_\_\_\_

Present Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Permanent Address : \_\_\_\_\_

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\_\_\_\_\_

Telephone : (O) \_\_\_\_\_ (R) \_\_\_\_\_ FAX : \_\_\_\_\_

Email : \_\_\_\_\_

Date : \_\_\_\_\_

Signature : \_\_\_\_\_

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**Registration Form: ICLA-2019**

Full Name : \_\_\_\_\_

Designation & Affiliation : \_\_\_\_\_

Nationality : \_\_\_\_\_

Present Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Title of the Paper/Talk : \_\_\_\_\_

\_\_\_\_\_

Telephone : (O) \_\_\_\_\_ (R) \_\_\_\_\_ FAX : \_\_\_\_\_

Email : \_\_\_\_\_

Date : \_\_\_\_\_

Signature : \_\_\_\_\_

The registration form and the passport details (overseas participants) can be sent by email to

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