



National Advisory Committee

Aswal, D. K.	NPL, New Delhi
Basu, S.	DAE, Mumbai
Bhattacharyya, K.	IACS, Kolkata
Bhawalkar, D. D.	Indore
Bora, D.	IPR, Gandhinagar
Gupta, P. D.	RRCAT, Indore
Gupta, P. K.	RRCAT, Indore
Jagatap, B. N.	BARC, Mumbai
Manna, I.	IIT Kanpur, Kanpur
Mathur, D.	TIFR, Mumbai
Mathur, P. P.	KIIT Univ., Bhubaneswar
Muraleedharan, K.	CGCRI, Kolkata
Naik, P. A.	RRCAT, Indore
Nath, A. K.	IIT Kharagpur, Kharagpur
Negi, S. S.	IRDE, Dehradun
Radhakrishnan, P.	CUSAT, Kochi
Rama Rao, P.	BRNS Hyderabad
Rao, D. N.	Univ. of Hyderabad, Hyderabad
Rao, G. N.	LEOS, ISRO, Bengaluru
Ravindra Kumar, G.	TIFR, Mumbai
Sahoo, N. K.	BARC, Mumbai
Samanta, A.	KIIT Univ., Bhubaneswar
Sarkar, S. K.	Indian Laser Association
Satya Murty, S. A. V.	IGCAR, Kalpakkam
Sharma, R. K.	SSPL, DRDO, Delhi
Sharma, S. K.	NPCIL, Mumbai
Srivastava, D. K.	VECC, Kolkata
Srivastava, H. B.	LASTEC, Delhi
Singh, B. P.	IIT Bombay, Mumbai
Sood, A. K.	IISc, Bengaluru
Thyagarajan, K.	IIT Delhi, Delhi
Umapathy, S.	IISc, Bengaluru

Symposium Organizing Committee

Arya, Rajesh	RRCAT, Indore
Bisht, P. B.	IIT Madras, Chennai
Chari, R.	RRCAT, Indore
Dalal, D. K.	BRNS, Mumbai
Datta, P. K.	IIT Kharagpur, Kharagpur
Jain, Rajiv	RRCAT, Indore
Jayasankar, C. K.	Sri Venkateswara University, Tirupati
Jha, S. N.	BRNS, RRCAT, Indore
Joseph, Joby	IIT Delhi, New Delhi
Khare, Alike	IIT Guwahati, Guwahati
Krishnamurthy, M.	TIFR, Mumbai
Kumar, Manoj	Indian Laser Association
Moorthy Babu, S.	Anna University, Chennai
Nakhe, S. V.	RRCAT, Indore
Palit, D. K.	BARC, Mumbai
Paul, C. P.	RRCAT, Indore
Razdan, A. K.	LASTEC, New Delhi
Ramachandran, Hema	RRI, Bengaluru
Rawat, H. S.	RRCAT, Indore
Ray, Alok	BARC, Mumbai
Santhosh, C.	Manipal Institute of Technology, Manipal
Sen, Ranjan	CGCRI, Kolkata
Singh, Bijendra	RRCAT, Indore
Sinha, Sucharita	BARC, Mumbai
Tata, B. V. R.	IIT Palakkad, Kerala
Tyagi, R. K.	LASTEC, Delhi
Vasdev	BARC, Mumbai
Vora, H. S.	RRCAT, Indore
Bindra, K. S.	Convener, RRCAT, Indore
Das, S. K.	Co-Convener, KIIT Univ., Bhubaneswar
Saxena, P.	Secretary, RRCAT, Indore
Parashar, S. K. S.	Co-Secretary, KIIT Univ., Bhubaneswar



Local Organizing Committee

Chief Patron

Prof. A. Samanta (Founder KIIT and KISS)

Patrons

Prof. N. L. Mitra, Chancellor, KIIT University

Prof. P. P. Mathur, Vice Chancellor, KIIT University

Shri R. N. Dash, Secretary, KIIT University

Prof. S. Samanta, Registrar, KIIT University

Chairperson, Local Organizing Committee

Prof. P. Pattojoshi, Dean, School of Applied Sciences, KIIT University

Members

Bera, N. C.	KIIT University, Bhubaneswar
Bhusan, B.	KIIT University, Bhubaneswar
Biswal, L.	KIIT University, Bhubaneswar
Das, P. K.	KIIT University, Bhubaneswar
Dash, P. C.	KIIT University, Bhubaneswar
Deshpande, P. P.	Department of Atomic Energy
Devi, M.	KIIT University, Bhubaneswar
Jain, R.	Department of Atomic Energy
Kole, A. K.	KIIT University, Bhubaneswar
Mangal, S.	KIIT University, Bhubaneswar
Mishra, S.	KIIT University, Bhubaneswar
Mukharjee, R. N.	KIIT University, Bhubaneswar
Nanda, L.	KIIT University, Bhubaneswar
Panigrahi, M. R.	KIIT University, Bhubaneswar
Parashar, K.	KIIT University, Bhubaneswar
Pradhan, S.	Department of Atomic Energy
Praharaj, S.	KIIT University, Bhubaneswar
Rath, P.	KIIT University, Bhubaneswar
Rout, D.	KIIT University, Bhubaneswar
Roy, S.	KIIT University, Bhubaneswar
Sahoo, S. K.	KIIT University, Bhubaneswar
Sahu, B. B.	KIIT University, Bhubaneswar
Santi, N.	KIIT University, Bhubaneswar
Saxena, P.	Department of Atomic Energy
Tripathy, J.	KIIT University, Bhubaneswar
Verma, S.	Department of Atomic Energy

Addresses for Correspondence

Dr. K. S. Bindra Convener Solid State Laser Division R & D Block - G RRCAT, Indore - 452 013 Phone : 0731 - 2442317 E-mail : convenernls25@gmail.com	Dr. S. K. Das Co - Convener Department of Physics School of Applied Sciences KIIT Univ., Bhubaneswar - 751 024 Phone : 91 - 9658039777 E-mail : skdasfpy@kiit.ac.in
Shri Piyush Saxena Secretary Laser Electronics Support Division R & D Block - C1 RRCAT, Indore - 452 013 Phone : 0731 - 2442422 E-mail : psaxena@rrcat.gov.in	Dr. S. K. S. Parashar Co - Secretary Department of Physics School of Applied Sciences KIIT Univ., Bhubaneswar - 751 024 Phone : 91 - 9438730872 E-mail : sksparasharfpy@kiit.ac.in

For ILA courses

Dr. Manoj Kumar
Secretary, Indian Laser Association
RRCAT, Indore - 452 013
Phone : 0731 - 2488388
E-mail : gmanoj@rrcat.gov.in

For NLSinfo on web

Shri Rajiv Jain
Laser Electronics Support Division
RRCAT, Indore - 452 013
Phone : 0731 - 2442405,06
E-mail : rajiv@rrcat.gov.in



**25th DAE-BRNS
NATIONAL LASER SYMPOSIUM**



NLS-25



December 20 – 23, 2016

Organized at

**Department of Physics
School of Applied Sciences
KIIT University, Bhubaneswar – 751 024
Odisha, India**



Sponsored by
**Board of Research in Nuclear Sciences
Department of Atomic Energy**

In Collaboration with



Indian Laser Association

www.ila.org.in/nls25



Symposium Overview

The 25th National Laser Symposium, 16th in a series sponsored by the Board of Research in Nuclear Sciences of the Department of Atomic Energy, will be organized in collaboration with Indian Laser Association and KIIT University, Bhubaneswar during **December 20-23, 2016**. The NLS aims to create a platform for researchers in laser physics and technology to interact with eminent scientists in the field. The symposium will have invited talks by leading experts, poster presentation of contributed papers and thesis presentation by Ph.D. students.

The symposium organizing committee cordially invites all the scientists, engineers and students engaged in basic and applied research in the broad areas of laser and related fields to participate in the symposium.

Topics of Interest

- ❖ Physics and Technology of Lasers
- ❖ Lasers in Nuclear Science & Technology
- ❖ Laser Materials, Devices and Components
- ❖ Nonlinear, Quantum and Atom Optics
- ❖ Ultrafast Lasers and Applications
- ❖ Lasers in Materials Science
- ❖ Laser - Plasma Interaction
- ❖ Lasers in Industry and Defense
- ❖ Laser Spectroscopy and Applications
- ❖ Lasers in Chemistry, Biology & Medicine
- ❖ Laser Based Instrumentation
- ❖ Electronics and Instrumentation for Lasers

ILA Short Courses and Exhibition

The **Indian Laser Association** (ILA), the co-organizer of NLS-25, will organize short tutorial courses on **December 18-19, 2016** at the conference venue. ILA will announce the details of these courses separately. ILA will also award prizes for the "Best Thesis" and "Best Poster" presentations. The annual general body meeting of ILA will also be held during the symposium.

ILA is also organizing an industrial exhibition for lasers and related products during NLS-25. For updates of NLS-25 and ILA courses please visit the symposium website

<http://www.ila.org.in/nls25>

Important Dates

Paper submission deadline	August 31, 2016
Thesis summary submission deadline	August 31, 2016
Intimation of paper/ thesis acceptance	September 30, 2016
Last date for registration with payment	October 15, 2016
For accommodation request with payment	October 31, 2016



Venue

The Symposium is being organized at KIIT University, Bhubaneswar. The university spreads over 25 sq. k.m. area and has come a long way within short span of time as world class institution. Since its inception in 1992, KIIT has emphasized on quality education and it was declared university in 2004. It has been granted "A-Category" status by MHRD and is accredited by NAAC of UGC in 'A Grade'. The multi-disciplinary university has professional institutes of medicine, engineering, law, management, film and media sciences. The university is making strong headway in research as well. Kalinga Institute of Social Sciences (KISS), a sister concern of KIIT University offers holistic education from Kindergarten to Postgraduate, accommodation, food, health care and all other basic necessities to 25000 tribal children of the poorest of the poor background absolutely free!

Department of Physics, School of Applied Sciences also offers Ph.D. programmes in Physics. Frontier research work on various fields of basic and applied Physics is the back bone of this department. Beside various programme specific courses at post graduate level are also offered in different schools.

The weather at Bhubaneswar during symposium period is quite pleasant and the expected day time temperature is between 20 – 22 °C. The venue is about 12 km from railway station and about 15 km from the Bhubaneswar airport. Puri, Konark, Chilka, Dhualagiri, Khandagiri, Nandankanon Zoo are famous tourist places near Bhubaneswar.

Paper Submission

Authors are requested to submit a full-length manuscript in the specified format by **August 31, 2016**, as per the guidelines and instructions provided in the NLS-25 website. Use MS word 2007 or higher version in '.doc' format. The length of the manuscript should be at least 2 pages and not more than 4 pages (including figures, references, tables etc.). A separate short abstract (maximum 100 words) as per the guidelines should also be submitted.

Ph.D. students who have submitted their thesis in the topics of interest of the symposium, or expect to submit the thesis by **October 31, 2016**, and those who have been awarded Ph.D. degree after **January 1, 2016**, are eligible for thesis presentation. Those interested should send a four-page summary of their thesis by **August 31, 2016** along with a certificate from their Ph.D. guide specifying the date of submission of thesis or award of the degree.

A 'Book of Abstracts' containing abstracts of peer reviewed contributed papers, invited talks, and thesis summaries, and a CD containing full manuscripts, will be made available to the participants during the symposium.

A poster board of area of 1m x 1m will be provided for each poster presentation.

The invited talks, papers selected for the "Best Poster Award", and articles based on the work of "Best Thesis Award", will be published in Kiran, the ILA Newsletter.



Registration

S.No.	Category	Registration Fee
1.	Students	₹ 800/-
2.	Delegates from educational institutes and Govt. organizations	₹ 2,500/-
3.	Delegates from public sector undertakings and Industries	₹ 5,000/-

For payment of registration and accommodation fee please see the details on the NLS-25 website. Registration fee and advance amount for accommodation booking will be accepted through electronic bank transfer into NLS-25 account. Details will be available on the website.

Financial Assistance

Financial assistance towards local hospitality and travel by train (sleeper class) by the shortest route can be provided to a limited number of deserving students. Applications for the assistance with a letter of recommendation from research guide / head of the department and addressed to the Convener, NLS-25 should reach on or before **7th November 2016**.

Accommodation

Hostel accommodation on double sharing basis will be provided to the student participants. Other participants will be accommodated in hotels in single / sharing (AC / non-AC) rooms. For more details about the hotels, please visit the NLS-25 website. All accommodation requests should be uploaded on the NLS-25 website. Please note that accommodation in hotels would be provided only after receipt of an advance payment. Participants can also directly book the accommodation using the link provided on symposium website.

S.No.	Hostel/Hotel Accommodation	Charges per day
I	Sharing non-AC Hostel room (per person)	₹ 200/-
II	Sharing AC Hostel room (per person)	₹ 300/-, 400/-
III	Single Guest house room AC (limited)	₹ 1000/-, 1500/-
IV	Single Hotel room AC	₹ 2500/-, 3500/-
V	Single Hotel room AC (Deluxe)	₹ 5,500/-