

National Advisory Committee

Aswal, D. K.	NPL, New Delhi
Banerjee, S.	HBNI, Mumbai
Bhaduri, A. K.	IGCAR, Kalpakkam
Bhawalkar, D. D.	Indore
Chaturvedi, S.	IPR, Gandhinagar
Das, B. K..	IRDE, Dehradun
Das, D.	RRCAT, Indore
Dhar, U.	SVVV, Indore
Gupta, P. D.	Indore
Gupta, P. K.	Indore
Lionel , B.	DIC, New Delhi
Mohanty, A. K..	BARC, Mumbai
Naik, P. A.	BITS-Pilani, Goa
Nath, A. K.	IIT Kharagpur, Kharagpur
Nayak, J.	CHESS, DRDO, Hyderabad
Padmanabham, G.	ARCI, Hyderabad
Rao, D. N.	University of Hyderabad, Hyderabad
Ravindra Kumar, G.	TIFR, Mumbai
Sarkar, S. K.	SPPU, Pune
Sharma, S. K.	NPCIL, Mumbai
Singh, B. P.	IIT Bombay, Mumbai
Som, S.	VECC, Kolkata
Sood, A. K.	IISc, Bengaluru
Srivastava, H. B.	LASTEC, DRDO, New Delhi
Vasudev Rao, P. R.	HBNI, Mumbai
Vinayak, S.	SSPL, DRDO, New Delhi
Vyas, K. N.	DAE, Mumbai

**Symposium Organizing Committee**

Bhanage, V. P.	RRCAT, Indore
Bindra, K. S.	RRCAT, Indore
Bisht, P. B.	IIT Madras, Chennai
Chakera, J. A.	RRCAT, Indore
Datta, A.	IIT Bombay, Mumbai
Datta, P. K.	IIT Kharagpur, Kharagpur
Dixit, S. K.	RRCAT, Indore
Guruprasad, K. N.	SVVV, Indore
John, R.	IIT Hyderabad, Hyderabad
Joseph, J.	IIT Delhi, New Delhi
Khare, A.	IIT Guwahati, Guwahati
Krishnamurthy, M.	TIFR, Hyderabad
Kundu, S.	BARC, Mumbai
Majumder, S. K.	RRCAT, Indore
Arya, R.	RRCAT, Indore
Moorthy Babu, S.	Anna University, Chennai
Rajawat, A.	SVVV, Indore
Rapol, U. D.	IISER, Pune
Ray, A.	BARC, Mumbai
Razdan, A. K.	LASTEC, New Delhi
Sanyal, D. N.	NPCIL, New Delhi
Sharma, A.	BARC, Mumbai
Tata, B.V.R.	University of Hyderabad, Hyderabad
Upadhyay, A.	Webmaster, NLS-29, RRCAT, Indore
Saxena, P.	General Secretary, ILA
Katariya, N.	Co-Secretary, NLS-29, SVVV, Indore
Agrawal, P. K.	Secretary, NLS-29, RRCAT, Indore
Sharma, U.	Co-Convenor, NLS-29, SVVV, Indore
Mishra, S. R.	Convener, NLS-29, RRCAT, Indore
Nakhe, S. V.	Chairman, NLS-29, RRCAT, Indore

Local Organizing Committee**Patrons**

Shri Purushottamas Pasari Chancellor, SVVV, Indore	Shri Debasish Das Director, RRCAT, Indore
Prof. (Dr.) Upinder Dhar Vice Chancellor, SVVV, Indore	

Chairperson, Local Organizing Committee

Dr. Santosh Dhar

Dean- Faculty of Doctoral Studies & Research, SVVV, Indore

Members

Dubey, J.	SVVV, Indore
Jain, P.	SVVV, Indore
Khan, M.P.	SVVV, Indore
Patel, S.	SVVV, Indore
Rawat, R.	SVVV, Indore
Sheikh, S.	SVVV, Indore
Telang, S.	SVVV, Indore
Thakur, S.	SVVV, Indore
Agrawal, P. K.	Secretary, NLS-29, RRCAT, Indore
Saxena, P.	Secretary, ILA, RRCAT, Indore
Misra, P.	Treasurer ILA, RRCAT, Indore
Upadhyay, A.	Web-master, NLS-29, RRCAT, Indore
Agrawal, S. K.	Treasurer, NLS-29, RRCAT, Indore
Dave, I. A.	RRCAT, Indore
Narwat, D.	RRCAT, Indore
Ram, S. P.	RRCAT, Indore
Talwar, S.	RRCAT, Indore

NATIONAL LASER SYMPOSIUM

NLS 29
February 12 – 15, 2021

Organized Online by

Raja Ramanna Centre for Advanced Technology (RRCAT), Indore
and
Shri Vaishnav Vidhyapeeth Vishwavidyalaya (SVVV), Indore

Architectural vision of the campus

**Sponsored by**

Board of Research in Nuclear Sciences
Department of Atomic Energy
In Collaboration with

**Indian Laser Association**

Symposium Overview

The 29th National Laser Symposium, 20th 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 Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore during February 12-15, 2021. The symposium aims to create a platform for scientific interaction among the researchers working in the field of laser physics, technology and applications and also to network with eminent scientists in the field. The Symposium will cover invited talks by leading experts, poster presentation of the contributed papers, and thesis presentation by Ph.D. students. The Indian Laser Association will also conduct short courses prior to the Symposium. The Symposium organizing committee cordially invites all the scientists, engineers and students engaged in the 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 and Fiber based Instrumentation

ILA Short Courses and Exhibition

The Indian Laser Association (ILA), the collaborator of NLS-29, will organize short tutorial courses on February 10-11, 2021 in online mode. ILA will announce the details of these courses separately. ILA will also award prizes for the "Best Thesis" and "Best Poster" presentations. The paper selected for the "Best Poster Award", and articles based on the work of "Best Thesis Award", will be published in 'Kiran', the ILA Newsletter. The invited talks will also be published in 'Kiran'. The annual general body meeting of ILA will also be held during the symposium in online mode.

ILA is also organizing an online industrial exhibition for lasers and related products during NLS-29. For updates of NLS-29 and ILA courses please visit the symposium website <http://www.ila.org.in/nls29>

Important Dates

Paper submission deadline	January 22, 2021
Thesis summary submission deadline	January 22, 2021
Intimation of paper/ thesis acceptance	February 02, 2021
Last date for registration fee payment	February 05, 2021

Venue

City of Indore is known as commercial capital of the state of Madhya Pradesh. It is also known as "The City of Holkars". Indore has a great historical and cultural significance. Presently, Indore is the cleanest city of the country for several years.

Shri Vaishnav Vidyapeeth Vishwavidyalaya (SVVV) is a private university established under Madhya Pradesh Niji Vishwavidyalaya (Sthapana Avam Sanchalan) Adhiniyam in 2015 at Indore (India). The University has been established with a vision to be leader in shaping better future for mankind through quality education, training and research. University is focused to provide education in the disciplines of Engineering, Forensic Science, Architecture, Management, Science, Social Sciences, Humanities, Arts, Journalism and Mass Communication and Computer Applications. Shri Vaishnav Vidyapeeth Vishwavidyalaya is governed by 137 years old Shri Vaishnav Group of Trusts initiated by compassionate philanthropists of Indore in 1884. The SVVV has Center of Excellence for Plasma Research. Plasma Centre has completed several research projects with research grant from different funding agencies.

Paper / Thesis Summary Submission

Authors are requested to upload on NLS-29 web-page a full-length paper manuscript in the specified format by January 22, 2021, as per the guidelines and instructions provided on ILA web-page. 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 short abstract (maximum 100 words) should be a part of paper manuscript submitted. The accepted paper will be presented by the author during NLS-29 via online mode.

Ph.D. students who have submitted their thesis by January 01, 2021 for award of degree, or those who have been awarded Ph.D. degree after January 01, 2020, are eligible for the thesis presentation in NLS-29. Those interested in their thesis presentation should upload by January 22, 2021 the following documents : (i) a four-page summary of their thesis, (ii) a certificate from Ph.D. guide specifying date of submission of thesis or award of the degree, (iii) list of publications related to thesis work. On the acceptance of this thesis summary, the student is expected to make a short presentation on the thesis work during NLS-29 .

The registration is compulsory for authors presenting papers and thesis summaries during the NLS-29.

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	Life members of ILA	Nil
2	Other participants	₹ 100

Registration fee will be accepted through electronic bank transfer into NLS-29 account. Details will be available on the website.

Addresses for Correspondence

Dr. S. R. Mishra
Convener, NLS-29

Head, LPAS
R & D Block-A
RRCAT, Indore
Phone : 0731-248 8377
e-mail : nls@ila.org.in

Shri Praveen Agrawal
Secretary, NLS-29
Head, CVLEL , LPSD,
RRCAT, Indore.
Phone : 0731- 244 2419
e-mail: nls@ila.org.in

Dr. UTTAM SHARMA
Co-convener, NLS-29

Professor & HOD
Shri Vaishnav Institute of Science,
SVVV, Indore
Phone : 0731-272 9071
e-mail : uttamsharma@svvv.edu.in

Dr. Nitu Katariya
Co-Secretary, NLS-29
Asstt. Professor.
SVVV, Indore.
Phone: 0731-272 9071
e-mail : nitukatariya@svvv.edu.in

For ILA courses

Shri Piyush Saxena
General Secretary, ILA
RRCAT, Indore
Phone : 0731-244 2422
e-mail : secretary@ila.org.in

For NLS information on web

Dr. Ajit Upadhyay
Plasma Simulation Activity
LTD, RRCAT, Indore
Phone : 0731-2442007
e-mail : admin@ila.org.in