

# SERC SCHOOL ON LASER PHYSICS & TECHNOLOGY

12<sup>th</sup> to 30<sup>th</sup> March 2012

Raja Ramanna Centre for Advanced Technology, Indore 452013, India.



Applications are invited from research scholars, post-doctoral fellows and young researchers from academic institutions and R&D centers for participation in the above mentioned School. Final year students of M.Sc / M.Tech with interest in pursuing research in Lasers may also apply. The School is sponsored by Science and Engineering Research Council (SERC), Department of Science and Technology, Government of India.

The faculty for the school will comprise of experts from around the country. The objective of the School is to provide an in-depth knowledge of the important aspects of laser physics and technology. The topics covered will include fundamental of laser physics, laser resonators, Q-switching, mode-locking, chirped pulse amplification, frequency stabilization, non-linear optics etc. Important laser systems such as diode pumped solid state lasers, ultrashort pulse lasers, fiber lasers, semiconductor lasers, free electron lasers, terahertz sources, widely tunable laser systems will also be discussed. The School will also address some important applications of lasers in high resolution spectroscopy, material processing, charged particle acceleration, biophotonics, instrumentation etc. The participants will also be provided opportunity to do hands-on experiments designed to facilitate understanding of the topics discussed during the School. Further, a few evening lectures will be arranged to provide a perspective of the present status and future prospects for physics & technology of lasers in the country.

The number of participants is restricted to about forty. All the selected participants will be provided to-and-fro train fare (up to II AC) and local hospitality. Interested persons should send to the School Director, via e-mail (preferred) or by post, (i) CV (including full postal address and e-mail), (ii) a brief write-up of the current research activities, (iii) list of publications (if any), (iv) letter of recommendation from guide or Head of Department, and (v) a short write-up indicating how the School is expected to benefit the research activities of the candidate.

## **National Organizing Committee:**

P K Gupta, RRCAT, Indore.

L N Hazra, Calcutta University, Kolkata

B M Suri, BARC, Mumbai

D N Rao, Univ. of Hyderabad, Hyderabad

A K Gupta, IRDE, Dehradun

M P Kothiyal, IIT, Chennai

Amitava Roy, DST, New Delhi

## **Important Dates:**

Last date for the receipt of applications: 20<sup>th</sup> January 2012

Intimation to selected candidates: 30<sup>th</sup> January 2012.

## **For further details contact:**

Dr. P. K. Gupta,

Director

SERC School on Laser Physics and Technology,

Laser Biomedical Applications and Instrumentation Division,

Raja Ramanna Centre for Advanced Technology, Indore 452013.

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**Website: [www.rrcat.gov.in/SERC2011](http://www.rrcat.gov.in/SERC2011)**