

REFRESHER COURSE ON PHOTONICS AND MATERIALS

sponsored by

INDIAN ACADEMY OF SCIENCES, BANGALORE

at

**NATIONAL CENTRE FOR ULTRAFAST PROCESSES,
UNIVERSITY OF MADRAS, CHENNAI**

13–25 February 2005

A Refresher Course on 'Photonics and Materials' for postgraduate college and university teachers will be held at the National Centre for Ultrafast Processes, University of Madras, Taramani Campus, Chennai 600 113 during 13–25 February 2005.

The aim of the Refresher Course is to motivate the chemistry and physics teachers to introduce the application of lasers in the chemistry and physics teaching and research.

The **two-week** course will introduce the basics of lasers, including principles of laser action, laser active materials, solid state lasers, dye lasers and gas lasers, CW and pulsed lasers, modes of laser, mode locking, Q-switching, nonlinear optical materials, electro-optic and magneto-optic materials, liquid crystalline materials, luminescent devices, imaging, microscopy, nanomaterials in photonics. It also includes laboratory demonstration experiments in selected areas of fluorescence, pump-probe methods and laser experiments.

Teachers who wish to participate in the Refresher Course should send their brief curriculum vitae (including name, date of birth, e-mail and postal address, educational qualifications, teaching experience, courses taught, positions held, etc.) along with a brief write-up as to why they would like to participate in this course and their expectations from the Course, to the Course coordinator.

Applications may be sent to:

Dr Ramamurthy
Course Coordinator
Refresher Course on Photonics and Materials
National Centre for Ultrafast Processes
University of Madras
Taramani Campus
Chennai 600 113

Telephone: 044-2448 0962, 044-2492 5006; Fax: 044-2492 6709; e-mail: prm60@hotmail.com

Preference will be given to teachers below 45 years of age. Selected teachers will be provided local hospitality and round trip train fare (I Class or III AC).

Last date for receipt of application: 15 December 2004