

## **Interaction Meet on Utilization of Laser Technology in Industry & Medicine at RRCAT**

A two-day interaction meet on utilization of lasers in industry and medicine was organized during 28<sup>th</sup> -29<sup>th</sup> April 2011 at Raja Ramanna Centre for Advanced Technology, Indore. The meet, organized by Indian Laser Association (ILA) in association with RRCAT, was a part of the celebrations to mark 50 years on invention of laser. The motive of this meet was to foster interaction between academic/research institutions of the country and Indian industry. The prime objective of the meet was to showcase indigenous technologies developed in the area of the industrial and medical applications of lasers in major academic and research institutions of the country and to promote active interaction between academic/research institutions of the country and Indian industry.



The meet was inaugurated by Dr. P.K. Gupta, President, ILA. The inaugural talk on technology generation and incubation was delivered by Shri A.M. Patankar, Head TT& CD of BARC. The key features of the meet were-presentations by laser export explaining rudiments of laser applications. Presentations by industrial delegates outlining their experiences & prospective use of laser technology in their industry, and technology showcase sessions involving presentations of indigenous laser technologies. The meet was attended by about 30 participants from 25 different companies. There were about 35 different posters on various technologies developed at various R&D centers in India presented at the meet.

In forenoon session of the first day, presentations were made by Dr. L.M. Kukreja and Shri Rakesh Kaul covering the fundamentals of laser materials processing and an overview of technology showcase session. Shri A.M. Patankar delivered an informative talk on the modalities of technology transfer from DAE units to industrial partners. In the afternoon, three-hour technology showcase session provided a platform for one-to-one technical discussions between researchers and industrial delegates. This was followed by presentations by industrial participants. Interesting presentations were made by delegates from Tata Motors Limited Pune, Bharat Heavy Electrical Limited Hyderabad, Larsen & Toubro Limited Mumbai and Archaeological Survey of India Indore. The proceedings of the day were concluded with a group

discussion session chaired by Dr. P.K. Gupta. The session witnessed lively discussions among delegates further strengthening the interaction between laser research community and indigenous industries.

On the second day, the first talk was delivered by Prof. B. D. Gupta, Indian Institute of Technology Delhi on optical sensors for process monitoring. This was followed by a presentation by Dr. Sunita Belgamwar, Nexus Mechatronics Pune on laser therapy. Subsequent talks on optical spectroscopy and imaging for bio-medical diagnosis were delivered by Dr. Diwakar Rao and Dr. S.K. Majumder respectively, while Dr. Sendhil Raja S. made a presentation on laser based metrology & inspection. These presentations were followed by a detailed informative presentation by Dr. P.S. Raju, Technology Development Board (TDB) Department of Science and Technology (DST) on various DST funding schemes. The meet was concluded with a group discussion session chaired by Dr. P.S. Raju.