



## Director's desk ...

The present issue of RRCAT Newsletter - the second one after our Centre was renamed as "Raja Ramanna Centre for Advanced Technology" in December last year - covers all the major aspects of the progress made on the Synchrotron Radiation Source, Indus-2. In addition, the issue contains other notable contributions, such as, the use in an actual power reactor, namely, Unit 1 of Narora Atomic Power Station (NAPS) of a Nd: YAG laser-based system, which we had built for cutting and welding of coolant channels. This successful exercise, of using the system for enmasse replacement of the coolant channels of Unit 1 of NAPS, has given Nuclear Power Corporation of India Ltd. (NPCIL) enough confidence that it will be deployed at other plants also in the coming year, besides being deployed at Unit 2 at NAPS. The issue also carries an article based on the lecture given by Prof. S.K. Joshi at the Foundation Day function on February 20, 2006. Highlights of the 6th Graduation Function of the RRCAT Training School at which Prof. M.G.K. Menon was the Chief Guest, are also included. Some of the other notable events, spilling into later half of 2006 are also included, since the publication of this issue had been somewhat delayed. In addition, the highlights of the R & D work done at the Centre are covered in the usual format.

I am happy that the Editorial Team has been able to put together a very comprehensive issue in a praiseworthy fashion. Therefore, I would like to place on record my appreciation for the Editorial Board to ensure that the technical developments carried out in this Centre are being disseminated to a wider audience through the forum of this Newsletter.

**V.C. Sahni**  
November 2006

## Editorial desk ...

It is our pleasure to bring out the second issue of RRCAT Newsletter of 2006, which due to unavoidable reasons could not be brought out in July. The Editorial Board regrets the delay, but used this period to include some of the additional events.

The issue highlights the major achievements of the Centre in last one year. There are two theme articles from Indus-2 namely "Indus-2 beam diagnostics systems" and "Indus-2 control system". These articles are continuation of a series of articles we have been publishing on Indus-2 Synchrotron Facility. There is also a theme article on "Application of Nd:YAG Laser in Indian nuclear power programme". These theme articles clearly reflect the high-end technology developed at RRCAT, in the field of Lasers and Accelerators.

We celebrated the Foundation Day of the Centre on February 20, 2006. This was the first Foundation Day celebration after the renaming of the Centre (in December 2005) as Raja Ramanna Centre for Advanced Technology. Distinguished, scientist Prof. S.K. Joshi delivered the Foundation Day address. His inspiring talk on this occasion has been reproduced in this newsletter.

Graduation Function of RRCAT Training School was held on August 30, 2006. Prof. M.G.K. Menon, FRS, was the chief guest for this Function. We have also included a picture of the function held at Rani Durgavati Vishwavidyalaya, Jabalpur, where the university awarded Honorary Doctor of Science to Dr.V.C. Sahni.

We gratefully acknowledge the guidance provided by Dr.V.C. Sahni in bringing out this issue of newsletter.

**Editorial Board**  
November 2006