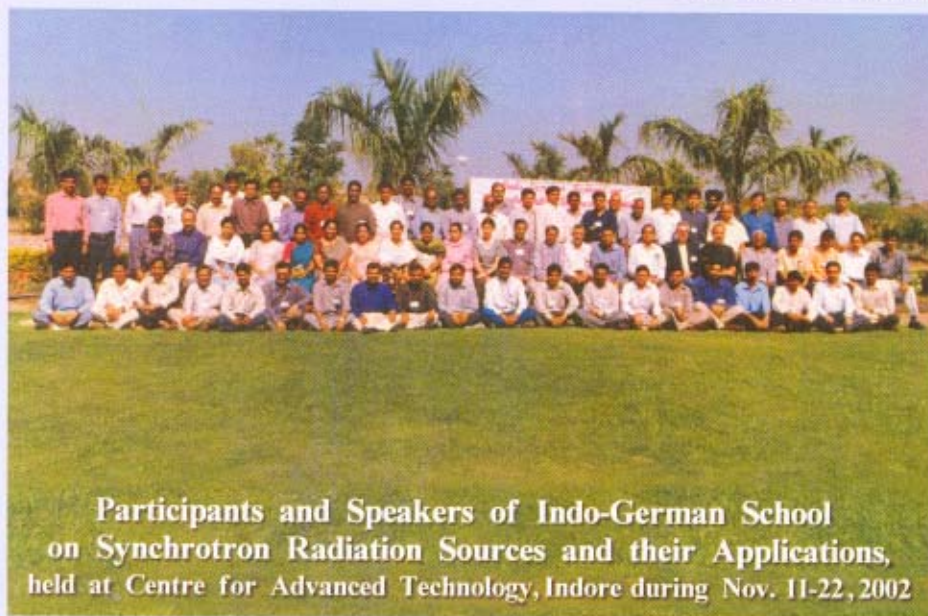


OTHER ACTIVITIES / NEWS

SEMINAR/ CONFERENCE REPORTS:

1. An Indo-German School on Synchrotron Radiation Sources and their Applications was conducted from Nov. 11 - 22, 2002 at CAT, Indore.



Participants and Speakers of Indo-German School on Synchrotron Radiation Sources and their Applications, held at Centre for Advanced Technology, Indore during Nov. 11-22, 2002

Fifty scientists from Universities and National Laboratories including from BARC, CAT, IGCAR, VECC and IUC-DAEF attended this school. Four German scientists came from BESSY, Germany and delivered talks on subjects like insertion devices, beamline design, magnetic circular dichroism and reflectivity. From Indian side also speakers from CAT, BARC, IUC and different universities delivered lectures on topics like machine design, SRS, insertion devices, beamline design, EXAFS, high resolution spectroscopy, imaging and medical applications, infrared spectroscopy, photo electron spectroscopy, protein crystallography, small angle x-ray scattering x-ray diffraction, x-ray microprobe, etc.

On the last day of the school, feed back session was also held and it was felt by many participants as well as speakers (including Germans) that this school should be held regularly in CAT either once in a year or once in two years.

Dr. R. V. Nandedkar, (Synchrotron Utilization Division, CAT), was the Convener of this School and Dr. S. M. Sharma, (SRS Section, BARC) was the Co-Convener.

2. DAE-BRNS National Laser Symposium - 2002 (NLS-2002) was jointly organized by CAT, Indore, from Nov. 14-16, 2002 at Sree Chitra Tirunal Institute for Medical Science & Technology (SCTIMST), Thiruvananthapuram Kerala. More than 200 participants attended the seminar. There were 5 plenary talks, 23 Invited talks, 25 Orals presentations and 253 Posters presentations during three days. The theme of the seminar was on medical application of lasers. A mini symposium was organised on theme topic. The organisers of the seminar were: Dr. L M Kukreja, CAT (Convener), Dr. A K Gupta, SCTIMST (Co-convener), Dr. S K Dixit, CAT (Secretary), Dr. V P M Pillai, KU (Co-secretary).

In conjunction with the National Laser Symposium-2002, Indian Laser Association has conducted the following short courses on 13th November 2002.

1. "Thermal lensing and Z-scan" by Prof. V P N Nampoore, CUSAT, Cochin and Dr. K. S. Bindra, CAT, Indore.

2. "Laser tissue Interaction with practical demonstrations", by Prof. V. B. Kartha, MAHI, Manipal and Prof. S. Ganesan, Anna University, Chennai. Dr. A. K. Gupta, SCTIMST, Thiruvananthapuram and his colleagues conducted practical.

NEWS

- Science day was celebrated in the Centre for Advanced Technology on March 2, 2002. More than 1200 students from Institutions of areas in and around Indore participated.
- A team of laser scientists Dr. P.K. Gupta, Raktim Dasgupta and S.K. Mohanty at CAT have developed the first indigenous laser tweezers.
- CAT Indore has signed a memorandum of understanding with Pune based public sector undertaking Bharat Electronics Limited for transfer of laser technologies developed here for production of industrial and medical laser equipment.



- The Superconducting Magnet team at CAT has crossed the century of Superconducting MCS and MCDO magnets for LHC/CERN. On 26th April, 2002, Dr. D.D. Bhawalkar, Director CAT formally handed over 100th magnet to Dr. Albert Ijspeert, Leader LHC/ICP Division CERN, who specially flew to India for this occasion.
- Dr. Anil Kakodkar, Chairman, Atomic Energy Commission and Secretary, Department of Atomic Energy (DAE) distributed certificates and medals to graduates of second batch of CAT Training School on Aug. 31, 2002. The Homi Bhabha Gold Medal went to Alam Anoop Singh Walia who topped the class.



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SNIPPETS

- Centre for Advanced Technology has bagged the Rajbhasha shield for exceptional work in Hindi and good implementation of Rajbhasha policies.
- The paper entitled "20 kW CW CO₂ Laser System - An Indigenous Development" by C.P.Paul, T Reghu, P. Bhargava, M.O. Ittoop, V. Mandaloi, D.D. Saha, and A.K. Nath, has been awarded as the Best Paper in DAE-BRNS Symposium on Applications of Plasma, Laser and Electron Beams in Material Processing, PBAMP-2002, held on September 25-28, 2002 at BARC Mumbai.
- The paper entitled "Design, fabrication and testing of an energy meter based on pyroelectric effect in TGS crystal", by S. Satapathy, B. N. Upadhyay and V. K. Wadhawan, won the best poster award at National Conference on Sensor Technology (NCST-2002).
- The paper entitled 'Women in Science & Technology: Critical Analysis of the Status' by Smt. Alpana Rajan in the National Conference on 'Emerging Technologies & Women (ETWOM - 02)' held at Shri G.S. Institute of Technology and Science, Indore during 25-26 October 2002, was awarded as the 'Second Best Paper' presented in the conference.
- Shri Tarun Kumar Sharma has won the Indian Laser Association's Best Thesis Award for the year 2002 at the DAE-BARS National Laser Symposium held at SCTIMST, Thiruvananthapuram.
- Shri Alam Anoop Singh Walia received Dr. Veer Singh Award, for excellence in academics.
- The paper entitled: "Coupled field analysis in LINACS-SFDTL as case study" by Shri Vikas Jain was judged as second best paper in the "ANSYS user conference 2002" held at Bangalore on Nov. 7-8, 2002.

RETIREMENTS

On 31.8.2002, Indus-2 Project Manager Shri A.S. Raja Rao retired on superannuating. Shri Raja Rao who completed 62 this month had got two years of extension earlier. He served the Department of Atomic Energy for 33 years.

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