

## Workshop on "Plasma Diagnostics"

The first academic activity at CAT

Major programmes in the field of high temperature, high density plasmas, laser induced inertially confined plasma, magnetically confined plasma etc. have been taken up at various laboratories in India including BARC, Bombay; Institute of Plasma Research, Ahmedabad and Saha Institute of Nuclear Physics, Calcutta. With a view to bring together various scientists working in Indian laboratories in the field of plasma diagnostics (experimental and theoretical), a Workshop on "Plasma Diagnostics", was organised by BARC in collaboration with Plasma Physics Programme, Ahmedabad. The Workshop was sponsored by the Electronics & Instrumentation Committee of the Board of Research in Nuclear Sciences and was held at CAT, Indore from January 20-25, 1986. The Workshop was inaugurated by Dr. P. K. Iyengar, Director, BARC and was attended by nearly 90 delegates from various research laboratories and universities. Even though the surrounding area at CAT was not yet fully developed and facilities were not up to the mark, the Workshop was warmly enjoyed by one and all. Twenty three research papers were presented. It should be noted that the very idea of organising this Workshop at CAT was initiated by Dr. D. D. Bhawalkar and Dr. P. K. Kaw. Shri H. C. Pant and Shri P. I. John were the convenors, whereas Shri S. Sharma and Shri S. K. Iyengar were the Organising Secretaries. Shri S. S. Purohit, Liaison Officer, CAT, Indore along with his team extended all possible co-operation and support to make the Workshop a successful event.

—S. Sharma

## Computer Facility

A sophisticated and modern computing facility is a necessity for a Research Centre like CAT. A Computer Centre has been established at CAT to cater to all computing needs of CAT.

Presently the Computer Centre has the following Hardware and Software facilities:

### Hardware:

- Two 68020 based super mini UNIX machines, each with 4MB RAM, 500 MB hard disk, mag. tape, cartridge tape & 600 LMP printer. Each machine has 10 intelligent PC terminals installed all over CAT.
- Two drafting workstations based on PC/AT computer. Each has 2.5 MB RAM, 40 MB hard disk, EGA card, high resolution colour monitor, digitizer, plotter and mouse.
- Ten PC, XT's with 640 KB RAM, 20 MB hard disk and color Monitors.

### Software:

- Universally accepted industry standard UNIX System V.3 O.S. with all standard utilities, f77, SSP, NAG Library, etc. Software

for other scientific & Commercial applications is also available..

- PC, XT's & AT's are having MS DOS 3.2 with Software for Scientific computation, drafting, data base management & Word Processing etc..

The Computer Centre has been established keeping in mind the requirements and development in the field of Computer Science. Presently Computers are effectively used for following applications:

- Scientific Computations required by scientists.
- Interfacing instruments with personal computers.
- Monitoring of Purchase & Procurement.
- Computer aided drafting.
- Administration, Accounts, Text/Word Processing.

Since Computer field is expanding at a rapid pace, training becomes a continuing process. Following training programmes were conducted by Computer Centre:

- A two week hands on extensive course on drafting was package AUTOCAD.
- A two day exposure Programme on UNIX O.S.



Dr. P.K. Iyengar, Director, BARC Inaugurating the Plasma Diagnostics Workshop at CAT. Seated on the dais (from L to R) are—Shri S.K. Iyengar, Shri S. Sharma, Dr. P.K. Kaw, Dr. D.D. Bhawalkar & Shri H.C. Pant.