

# PROJECTS AT C-MMACS

## R & D PROJECTS

### Sponsored Projects

1. Ocean modelling, Phase II; DOD
2. A neural network based atmospheric prediction system; DST
3. Development of a PC based demonstration system to MONTCLIM manpower development programme, DST.
4. Determination of material properties of road pavement component layers from surface measurements: development of mathematical model and software; DST (Collaborating lab: CRRI).

### Collaborative Projects

1. Studies in geological fluid mechanics with NGRI, Hyderabad
2. Investigating strain fields in zones of recent seismicity in southern peninsular India with NGRI, Hyderabad
3. Atmospheric photochemical modelling to study the global change and remote computing with NPL, Delhi
4. Computer aided chemistry with IICT, Hyderabad
5. Characterisation of the dynamics of a model biochemical reaction pathway with CCMB, Hyderabad

6. Development of software packages for chaos game representation of DNA RNA Protein Sequences with IICB, Calcutta
7. Prognostic modelling of landslides with CBRI, Roorkee
8. Computer simulation of air-frame and turbomachinery components for NC Machining with NAL, Bangalore
9. Strength contours of leather surfaces with CLRI, Madras
10. Computer aided design of tunnels with CMRI, Roorkee Centre, Roorkee
11. Modelling of dispersion characteristics of thermal discharges in Dahanu Creek with NEERI, Reg. Centre, Bombay
12. Development of software package for simulation of solidification in castings with RRL, Trivandrum

### In House Projects

1. Studies in stochastic modelling and data analysis; Leader: N.K. Indira
2. Modelling stress in the Indian lithosphere and earthquake genesis; Leader: V.K. Gaur
3. Augmentation of computing facilities; Leader: R.P. Thangavelu