



CENTRAL POLLUTION
CONTROL BOARD (CPCB)



Sponsored Training Programme
On

Air Quality Management – Plans using Decision Support System – **UrbAirIndia**

August 25-27, 2015



Organized by

प्रगत संगणन विकास केंद्र

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Venue: C-DAC, 3rd Floor, RMZ Westend Center-III, Aundh, Pune - 411007

Training Focus

Air pollution is serious concern for everyone including planners and managers associated with the monitoring and management of pollution. Rapid development in the urban landscapes is responsible for deteriorating air quality in different cities around the country. Latest tools and technologies may play pivotal role for various stakeholders for sustainable management of air quality for healthy life of urban areas. UrbAirIndia - an integrated web based GIS enabled system for Indian urban air quality management is combination of various tools and technologies. It is an expert system that deals with various components of air quality management viz. Air quality monitoring, Emission inventory, Dispersion and Receptor modeling and Multiple scenario analysis. The system combines air quality monitoring data of user-defined campaigns/projects, emission inventory, query mechanism for data analysis and future scenarios, dispersion and receptor modeling with plug-play facility using GIS platform. UrbAirIndia can be used to assess air pollution impacts from present and future development for a sustainable future.

The training programme aims to provide conceptual knowledge on “Air Quality Management – Plans” and their related fields as well as hands-on training of UrbAirIndia software. The training will include lectures, case studies, discussions and hands-on sessions. Application of GIS in various contexts will be brought out through appropriate case studies by experienced faculties from C-DAC, CPCB, IITs and NEERI.

UrbAirIndia can be effectively utilized for conducting source apportionment studies at state level, development of city air quality management plans, city emission inventory preparation, environmental researchers/ scientists for analysis of dispersion and receptor models using control scenario and for air quality information to general public. The training will be helpful to policymakers and to take science based decision.

Training Modules

❖ Air Quality Management

❖ Geographical Information System (GIS)

- ◆ Introduction
- ◆ Data structure
- ◆ Data preparation
- ◆ Query and analysis

❖ UrbAirIndia Hands-on

- ◆ Introduction
- ◆ Air quality monitoring
- ◆ Emission inventory
- ◆ Receptor modeling
- ◆ Dispersion modeling
- ◆ Scenario analysis
- ◆ Data templates

Participation

The 3 days training programme is designed for full time and committed participants: Central and State Pollution Control Boards/ Committees members, State and City Environment Departments, Recognized Environmental Laboratories, R&D institutes, NGOs, Universities. The list of participants will be finalized and approved by the Central Pollution Control Board (CPCB). The seats are limited for the training programme. Additional interested candidates may participate with a payment of Rs 10000/- (Rupees Ten Thousand Only) per person.

Registration

The workshop is funded by CPCB. Participants will be provided with training material, lunch and refreshments during the training program.

Please send your application to: Ms. Asima Mishra, Joint Director– SS&DM Group, C-DAC, RMZ Westend Center-III, Aundh, Pune– 411007, Tel: (020) 25503236/ 25503233 Fax: (020) 25503231, Email: asima@cdac.in and vsivakumar@cdac.in

Accommodation

Accommodation on twin sharing basis will be provided to outstation candidates. TA/DA will be borne by the participants.

Deadlines

Receipt of Applications (Scanned copy by e-mail, Fax or Hard copy by post)	July 30, 2015
Intimation of Selection by e-mail	August 07, 2015
Confirmation by participants	August 11, 2015

About C-DAC

C-DAC is a scientific society of the Ministry of Communication and Information Technology, Govt. of India.

Spatial Sciences and Disaster Management (SS&DM) Group has carved its own niche through its contribution to numerous application and research & development oriented projects using Geo-spatial technologies. To share its vast experience and expertise in the field of Geomatics, SS&DM runs training course wherein students can get opportunities to work in live projects and interact with experts from various fields. Further, SS&DM organizes training programmes of varied duration and skill sets to working professionals as per their requirement. SS&DM group has trained around 2500 students and professionals from defence, forestry, scientific organizations etc. in GIS and other Geo-spatial technologies This group is fully equipped with the skills to fulfill the needs of the Geo-spatial technology industries.

The Computational Earth Sciences (CES) Group at C-DAC is engaged in the application of High Performance Computing (HPC) to Atmospheric, Oceanic and Environmental Sciences. CES group is involved in research and technology by providing a complete computational environment, modeling and simulation services, data analysis/ processing tools and HPC related skilled manpower resources. CES group is actively involved in air quality research using latest technologies and modelling systems like AERMOD, CALPUFF, WRF-CHEM, WRF-CMAQ. CES Group is also engaged in Weather Forecasting, Seasonal Monsoon Forecasts, Computational Environment Development and Scientific Tools and technology development.

