

## Introduction

The present state of air particulate pollution is a serious issue both nationally as well as on the global level.

Combustion processes including emissions from motor vehicles, fossil fuel burning for power generation and large industrial processes are main contributors to the inventory of these pollutants. To understand the role of air particulates in these processes, it is important to quantify the anthropogenic and natural components, the regional and seasonal variations, as well as to identify possible sources.

Present day concerns are focused on fine atmospheric particles that have been found to play a key role in global climatic changes, pollution transport and adverse affects on human health. Fine particles with diameters less than 2.5  $\mu\text{m}$  are small enough to penetrate deep into the lungs and hence pose significant health risk for humans. It is therefore important for environmental monitoring agencies to understand and quantify sources of fine particles air pollution in urban environments through logical modeling of the raw data.

The main aim of this workshop is to impart know how about the different softwares used for the quantitative source apportionment of air pollution.

The workshop, second in the series will help the participants acquire up-to-date practical and theoretical background of mathematical models that can be applied for the interpretation of airborne elemental pollution.

These softwares will help to interpret the local and regional data and to fully understand the new sources for formulation of strict legislations concerning emission control strategies for new as well as for older industry.

The scope of the workshop includes:

- Significance of monitoring fine particles with diameter of  $\text{PM}_{2.5}$
- APM elemental data handling prior to application of software.
- Calculation of reconstructed mass (RCM)
- Application of source identification software
  - Positive Matrix Factorization (PMF).
  - Possibility of identification of weaker but harmful sources.
- Application of Hysplit model for cross boundary pollution migration sources

### Experts:

International and National experts will conduct the workshop

### Participation:

The workshop is open for scientists and engineers from environmental protection and regulatory bodies, industries, commercial and research institutes, universities and public health agencies etc.

### Collaborators:

- International Atomic Energy Agency (IAEA).
- Pakistan Institute of Engineering and Applied Sciences (PIEAS)
- International Union for Conservation of Nature (IUCN)
- Clean Air Initiative (CAI-Asia)

### Deadline:

Registration: August 13, 2010  
Registration fee: Rs.3500/-  
University students: Rs.1500/-

### Venue:

Pakistan Institute of Engineering and Applied Sciences (PIEAS), P. O. Nilore, Islamabad

### Accommodation:

Accommodation will be available in desired Hotels on payment. Details and reservation forms will be sent on demand.

## 2<sup>nd</sup> National Workshop

on

## Advanced Software for Analysis and Interpretation of Air Quality Data

Organized by

**PINSTECH, PAEC**

**October 25-26<sup>th</sup>, 2010**

**Islamabad, Pakistan**

Recent  
Photograph

### Registration

Name \_\_\_\_\_

Institution \_\_\_\_\_

Address \_\_\_\_\_

Telephone: \_\_\_\_\_

Telefax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Please return this Form before August 13, 2010

2<sup>nd</sup> National Workshop on

on

**Advanced Software for Analysis  
and  
Interpretation of Air Quality Data**

Organized by

**PINSTECH, PAEC**

**October 25-26<sup>th</sup>, 2010**

**Islamabad, Pakistan**

**Announcement**



**CHIEF PATRON**

**Dr. Ansar Parvez**  
Chairman PAEC

**PATRONS**

**Dr. Shoaib Ahmad**  
Member Physical Science, PAEC  
**Dr. Muhammad Aslam**  
Rector, PIEAS  
**Dr. Jamshed Hussain Zaidi**  
Director General, PINSTECH

**ADVISORY COMMITTEE**

**Dr. Asif Salahuddin**  
Director General Int. Affairs, PAEC  
**Dr. Riffat Qureshi**  
Director Coordination, PINSTECH  
**Dr. Javed Iqbal Akhtar**  
Director Science, PINSTECH  
**Dr. Mufazzal Saeed**  
Head Chemistry Division, PINSTECH  
**Dr. Andreas Markwitz**  
IAEA Representative  
**Dr. Wanna Wimolwattanpun**  
IAEA Representative  
**Mohammad Aqib Uddin**  
Deputy Project Manager, IUCN

**ORGANIZING COMMITTEE**

Dr. Muhammad Arif,  
Dr. Muhammad Tufail, PIEAS  
Dr. Muhammad Mansha Ch., PIEAS  
Dr. Sohaila Rahman  
Dr. Muhammad Daud  
Dr. Muhammad Wasim  
Mr. Yasir Faiz

To:

**Coordinator**  
**Dr. Shahida Waheed**

Deputy Chief Scientist  
Chemistry Division,  
Directorate of Science, PINSTECH  
P. O. Nilore, Islamabad Pakistan

Tel 092-51-2208032  
Mobile 0303-5570261  
Fax 092-51-9290275  
E-mail [swaheed161@hotmail.com](mailto:swaheed161@hotmail.com)  
[swaheed@pinstech.org.pk](mailto:swaheed@pinstech.org.pk)

**Dr. Naila Siddique**

Principal Scientist  
Chemistry Division,  
Directorate of Science, PINSTECH  
P. O. Nilore, Islamabad Pakistan

Tel: 092-51-2208032  
Fax:092-51-9290275  
E-mail: [naila@pinstech.org.pk](mailto:naila@pinstech.org.pk)

Background: Hysplit backtrajectories for  
dust storm from Iran

**Pakistan Atomic Energy Commission  
(PAEC)**