

**Workshop**  
on  
**Health Effects of Particulate  
Air Pollution**

November 26-27, 2009



Patron-cum-Chairman  
**Dr. Abhijit Mukherjee**

President  
**Dr. K.K. Raina**

Conveners  
**Dr. Susheel Mittal**  
**Dr. Prabhat Gupta (NPL)**

Organizing Secretary  
**Dr. Ravinder Agarwal**

**THAPAR UNIVERSITY, PATIALA**  
(Established under Section 3 of the UGC Act,  
1956 vide notification no. F.9-12/84-U.3 of Govt.  
of India)

**(Punjab) 147004**

**Patiala** is one of the famous princely cities of erstwhile PEPSU State. Patiala has developed into an important educational centre in all diversified fields. It is located at about 260 Kms in north of Delhi, the capital of India and is well connected by road and rail. Patiala is about 65 kms from Chandigarh, the great city of architectural paradigm of the country. Another historical place about 240 Km from Patiala is Amritsar, which is the holy city and is famous for the Golden Temple. Prominent hill stations of north India like Shimla, Kullu-Manali, Kangra, Dalhousie, etc. are under approachable distance from Patiala. The weather of the city during the month of November is moderate with the temperature ranging between 18 – 24 °C.

### **THE HOST UNIVERSITY**

Thapar University is one of the three organizations located in the 250 – acre campus, known as Thapar Technology Campus, in the historic city of Patiala. Thapar University is today recognized among the leading privately managed grant-in-aid engineering institutions of the country and the best of its kind in the north-western region of India. The university is accredited from NAAC (UGC) and NBA (AICTE). It is an ISO 9001-2000 certified university by the STQC, MoIT (Govt. of India).

### **ABOUT THE WORKSHOP**

Air pollution causes ill health and sickness is well recognized. Air pollution is caused by both natural and man-made sources. Major man-made sources of ambient air pollution include, automobiles, power generation and industries. In indoor environments, tobacco smoke and combustion of solid fuels for cooking and heating are the most significant sources. In addition, construction material, furniture, carpeting, air conditioning and home cleaning agents and insecticides can also be significant sources of chemical and biological pollutants. This workshop is not limited to the discussion of air pollution but its effects on health to man-made sources of air pollution. It is also proposed to deliberate on health effects of air pollution due to crop residue burning.

Agriculture crop residue burning and fuel combustion are the primary sources of a large number of health-damaging air pollutants, including fine and respirable particulate matter (PM<sub>2.5</sub> and PM<sub>10</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), volatile organic compounds (VOCs), ozone (O<sub>3</sub>) and atmospheric lead. Some of these pollutants are direct by-products of fuel combustion, but others (such as O<sub>3</sub>) are

formed in the air through chemical reactions with other agents in the atmosphere.

Air pollution has both acute and chronic effects on human health. Health effects range anywhere from minor irritation of eyes and the upper respiratory system to chronic respiratory disease, heart disease, lung cancer and death. Air pollution has been shown to cause acute respiratory infections in children and chronic bronchitis in adults. It has also been shown to worsen the condition of people with preexisting heart or lung disease.

## Theme

- **Traceability in Air Pollution Measurements**
- **Biomass burning and human health**
- **Environment related diseases**
- **Analysis of pollution levels in the environment**
- **Correlation between environmental conditions and diseases**

## REGISTRATION FEE

The registration fee is to be paid through a Bank Draft in favour of HEPAP'09,

Thapar University, Patiala payable at Patiala under the following categories of Delegates from by November 20, 2009

- **Students / Research Scholars Rs. 1000/-**
- **Academic/Research Organizations Rs. 2000/-**
- **Corporate Sector / Industries Rs. 3000/-**

Selected candidates will be intimated by November 06, 2009 through email.

## ACCOMMODATION

Accommodation can be booked before November 20, 2009 on payment basis Rs. 550/- per person per night on sharing basis on the campus Guest House or Rs 200/- in the Hostel. If required, please inform sufficiently in advance through the Registration Form.

## For further information, contact:

Dr. Ravinder Agarwal, Organizing Secretary, HEPAP-09,  
Thapar University, Patiala – 147004,  
email: [husic@thapar.edu](mailto:husic@thapar.edu)  
Tel.: 0175-2393058; Fax: 0175-2393005

## CO-SPONSORS

The conference is likely to be cosponsored by government agencies such as DST, CSIR, UGC, AICTE, DRDO, PPCB, MoEF, etc. and industries.

## ADVISORY COMMITTEE

- Dr. D.R. Sikka, Ex-Director, Indian Institute of Tropical Meteorology (IITM), Pune
- Dr. Girija Jayaraman, FNASc, Professor, Centre for Atmospheric Sciences, IITD, New Delhi
- Dr Sneh Anand, Prof. & Head, Biomedical Centre, IITD, New Delhi
- Dr. C.P Kaushik, TEQIP Coordinator, Guru Jambheshwar University Of Sci & Tech. Hissar
- Dr. P. Sanjiva Rao, Sci.– G, Deptt of Science & Technology, New Delhi
- Dr. S.K. Chhabra, Professor & Head, Vallabhbhai Patel Chest Institute, Delhi University, Delhi
- Dr. Babu Ram, Member Secretary, PPCB, Patiala
- Dr. Amod Kumar, Scientist G, Head PID, CSIO, Chandigarh.
- Dr. C. M. Seth, Ex-Chairman J&K Pollution Control Board, Jammu.
- Mr. Krunesh Garg, Environmental Engineer, PPCB, Patiala

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**REGISTRATION FORM**

**Name**  
**Designation**

**Organization**

**Correspondence**  
**Address**

**Tel (O)                      (R)**  
**Email:**  
Please find enclosed Bank Draft of  
Rs            no.            dated            in  
favour of HEPAP'09, Thapar University,  
Patiala payable at Patiala  
Accommodation Required:    YES / NO  
Hostel / Hotel on payment basis

**Place:**  
**Signature of the Delegate**

**Signature of Sponsoring Authority /**  
**Signature of Head of Dept. for students**

The complete information may be sent to **Dr.  
Ravinder Agarwal, Organizing Secretary  
HEPAT09, Thapar University, Patiala  
147004** before **October 30, 2009**.

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