



Three day Training Program
on
**Air Quality Assessment, Prediction and
Control for Industrial Areas**

17-19 September, 2015

Venue: ISM, Dhanbad



Organized by



Dept of Environmental Science & Engineering
Centre of Mining Environment
INDIAN SCHOOL OF MINES, DHANBAD (JHARKHAND)

About the institute



The Indian School of Mines was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967 it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956. Since its establishment, ISM has undergone considerable expansion of its activities, and presently it can be considered as a total technology education institute. The departments of Petroleum Engineering and Applied Geophysics were established in 1957. The departments of Mechanical Engineering and Mining Machinery Engineering, Fuel and Mineral Engineering, Management Studies, and Electronics and Instrumentation Engineering were added in 1975-1977. The Centre of Mining Environment, the Computer Centre, the Centre of Longwall Mine Mechanisation, and the departments of Applied Chemistry, Applied Physics, and Applied Mathematics were established between 1975 and 1987. The department of Computer Science and Engineering was added in 1997. The expansion of the institute into a total technology institute was further accelerated with the establishment of the Department of Electrical Engineering in the year 2005, the Department of Environmental Science and Engineering in 2006, Department of Chemical Engineering in 2010 and the Department of Civil Engineering in 2012.

About the department

The Department of Environmental Science & Engineering is created out of existing Centre of Mining Environment (Established in 1987 as center of excellence in the field of mine environment by the Ministry of Environment and Forests, Govt. of India) at Indian School of Mines in June 2007 with the commencement of a regular B.Tech. program in Environmental Engineering under IIT-JEE (first of its kind offered by any national institute). Apart from B.Tech. in Environmental Engineering, department is also offering M.Tech. in Environmental Science & Engineering from 1991 and Ph.D. in Environmental Science and Environmental Science & Engineering from inception in 1987. Department is well equipped with state of art laboratory in all the components of environment. Department is also offering services to industry in form of Research and Consultancy. Department successfully completed various ministry sponsored R&D projects, provided guidelines for making rules & regulation and answers to parliament questions. Department is also running Information system (ENVIS center on Environmental Problems of Mining) sponsored by Ministry of Environment, Forest & Climate Change.

Location

Situated in the heart of the country's prime coking coal belt, 260 km from Kolkata with a campus spread over an area of 393 acres, (with 218 acres of existing campus and 175 acres under acquisition and development) the fully residential ISM has all the facilities of world class academic institute. Well connected through Howrah Delhi main railway line. It takes 3 hours from Howrah / Sealdah railway station via rajdhani/shatabdi express. The nearest airport is Netaji Subhas International airport, 280 km away from ISM.



About the Training Program

Air Quality has been a complex issue in most of the urban and industrial areas due to a variety of source contribution through fugitive and line emissions. Air pollution results in long-term reduction of productivity leading to deterioration of economic condition of a country. Air pollution includes particulate matter (SPM, PM_{10} & $PM_{2.5}$), gaseous pollutant (SO_x , NO_x , CO, NH_3), PAH and heavy metals (Pb, Ni, As). Therefore, controlling air pollution to reduce risk of poor health, to protect the natural environment and to contribute to our quality of life is a key component of sustainable development. High levels of suspended particulate matter increase respiratory diseases such as chronic bronchitis and asthma, while gaseous emissions contribute to respiratory, cardiovascular, and cerebral problems according to Lockwood et al. reported (2009). All the anthropogenic air pollution emissions could be attributed to industries, mobile sources, construction, garbage burning, agriculture, etc. The sources are becoming more complex day by day as also emissions.

Proposed course will provide methodology for sampling and analysis of air, various control techniques and their applicability and prediction methodologies along with hands on sampling, analysis and prediction.

Course Content

- Basics of Air Pollution and health impacts
- Monitoring and analysis of Air samples
- Various control techniques
- Vehicular pollution and control
- Prediction techniques and various available models

Date & Venue

17-19 September 2015 at ISM, Dhanbad

Participants

Executives engaged in Industries, maintenance, planning, environmental management, researchers, academicians and policy makers.

Course Fee

Rs. 15,000/- per head inclusive of service tax, which will include of course materials, lodging and boarding at EDC, ISM Dhanbad .

Nomination & Payments

The nomination letter should reach the coordinator on or before 01st September 2015 (e-mail/post) in the address along with course fee through DD, RTGS in favour of "Registrar, Indian School of Mines, Dhanbad-826004"

Bank Details

Canara Bank, Branch: Saraidhela, Dhanbad; A/c No: 0986101009746; IFSC code: CNRB0000986; RTGS : CNRB 0000986; MICR 826015003.

A copy of e-payment transaction details is requested to be sent to the course coordinator. ISM, Dhanbad is exempted from Income Tax being an educational institute. PAN No. of ISM: AAAI 0686D; Service Tax Regn. No. DNB/05/ISM/2001.

Course Coordinators:-

Dr. Manish Kumar jain

Associate Professor & Coordinator
Dept of Environmental Science & Engineering
Centre of Mining Environment
Indian School of Mines, Dhanbad -826004
Mobile: +91-9431711095; manishjkm@gmail.com

Prof. A. K. Pal

Professor & Co- Coordinator
Dept of Environmental Science & Engineering
Centre of Mining Environment
Indian School of Mines, Dhanbad -826004
Mobile: +91-9939160256 , palasim2003@yahoo.co.in

Dr Suresh pandian E

Assistant professor & Co- Coordinator
Dept of Environmental Science & Engineering
Centre of Mining Environment
Indian School of Mines, Dhanbad -826004
Mobile: +91-9471191073; sureshpandiane82@gmail.com

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Registration Form

1. Name: (Capital Letters)

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2. Designation:

3. Organisation:

4. Mailing Address with PIN Code:

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5. Phone No with Code:

Off..... Res.....

Mobile.....

6. Fax:

7. Email:

Place :

Date :

Signature