

Introduction

For sustainable socio-economic development, progress in the agricultural, industrial and health care sector including environmental protection is of prime importance. Exposure to environmental pollution is posing serious risks to mankind especially the children and needs immediate attention. The toxic industrial effluents, excessive use of fertilizers, uncontrolled spray of pesticides and many other aspects have led to the development of critical issues of public health concern, water and soil pollution which directly or indirectly influence the pace of sustainable development.

Considering the importance of reliable monitoring of toxic metals and poisonous organic compounds to determine the quality of surface and ground water sources, potable and bottled water, soil and sediments, other environmental samples and industrial products, Central Analytical Facility Division (CAFD) has organized this training program. The program is designed to meet the practical needs of working scientists/researchers in the fields of environment and analytical chemistry in academic and research institutions as well as industry. CAFD has a range of advanced analytical techniques and an effective human resource development program.

The training program shall cover the theoretical aspects of various analytical techniques, their applications and significance of such analyses along with practical demonstrations of the techniques. The following techniques will be covered during the course:

- ◆ Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
- ◆ Inductively coupled Plasma Optical Emission Spectrometry (ICP-OES)
- ◆ Atomic Absorption Spectrophotometry (AAS)
- ◆ High Performance Liquid Chromatography (HPLC)
- ◆ Gas Chromatography (GC)
- ◆ Gas Chromatography - Mass Spectrometry (GC-MS)
- ◆ X-ray Fluorescence Spectrometry (XRFS)



Training course on Advanced Analytical Techniques for Sustainable Development

Central Analytical Facility Division

P.O. Nilore, Islamabad

September 20 October 1, 2010

Registration Form

Name: _____

Father's Name: _____

NIC No.: _____

Highest Qualification: _____

Designation/Post: _____

Organization/Establishment: _____

Mailing Address: _____

E-Mail: _____

Ph: Office: _____

Mobile: _____

Signature (Participant): _____

Date: _____

Recommendation by the Head of nominating Establishment: _____

Signature/Date _____

Stamp

Note: Participants from Universities/ academic institutions/industry and other non-strategic organizations are required to submit security clearance form (copy attached) along with two photographs at least **two weeks before** the start of training course.

Training Course Program

September 20 October 1, 2010

Course Venue

PINSTECH, Nilore, Islamabad
P.O. Nilore, Islamabad

Eligibility

Graduate from a recognized university

Registration

Registration Form duly recommended by the Head of Establishment should reach Head, CAFD, PINSTECH, P.O. Nilore, Islamabad before August 30, 2010.

Registration Fee

Payable at Registration Desk by cheque in favor of Head LAO, PINSTECH

Rs. 20, 000/- per participant

Rs. 10, 000/- per head for university students

Accommodation/ Travel

Participants will have to make arrangement of stay in Islamabad/ Rawalpindi at their own. TA/ DA is the responsibility of nominating organization / establishment.

Pick & Drop to Venue

Enroute pick & drop from Rawalpindi / Islamabad to the Course venue (PINSTECH, Nilore) will be provided.

Patron-in-Chief: Dr. Shoaib Ahmad
Member (Physical Sciences)

Patron: Dr. Jamshed Hussain Zaidi. T.I.
Director General, PINSTECH

Advisory Committee:
Dr. Riffat Mahmood Qureshi
Director Coordination

Dr. Malik Muhammad Ishfaq
Director, Systems & Services

Engr. Nisar Ahmed
Director Technology

Dr. Javed Iqbal Akhtar
Director Science

Organizing Committee:
Dr. Ishrat Rehana, DCS Convener

Dr. Bashir Mohammad, DCS Member

Ms. Farhat Waqar, DCS Member

Dr. Shahid Bilal Butt, DCS Member

Ms. Saida Jan, PS Member

Mr. Abdul Ghaffar, PS Member

Mr. Habib-ur-Rehman, PS Member

Dr. Kashif Naeem, SS Member

Registration:
Mr. M. Hakim, SS
Mr. Saqib Aziz, SA-II

Course Coordinator:
Ms. Wasim Yawar
Head
Central Analytical Facility Division

Pakistan Institute of Nuclear Science and Technology

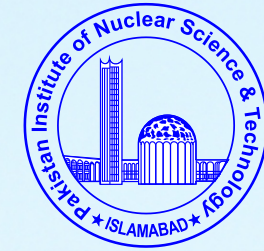
P.O. Nilore, Islamabad, Pakistan

Phone (office): 051-2207372; Mobile: 0301-8564435

Fax: 051-9248808

E-mail: wasimy@pinstech.org.pk

Fountain004@yahoo.com



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Central Analytical Facility Division
Directorate of Systems and Services
Pakistan Institute of Nuclear Science & Technology
P.O. Nilore, Islamabad