

Charutar Vidya Mandal(CVM)

CVM is charitable trust established by eminent engineer Shri Bhailalbai Patel and devoted educationalist Shri Bhikhabhai Patel in 1945. It is the largest trust of its kind in Gujarat which founded the township of Vallabh Vidyanagar in 1946, presently manages forty nine educational institutes, from primary to post graduate level as well as doctoral studies. After completing successful 70 year, CVM is now poised to meet the challenges of the complex time ahead. Establishment of Sophisticated Instrumentation Centre for Applied Research & Testing (SICART) is one of the major steps taken by CVM towards meeting challenges of globalization and liberalization through research and testing of samples from industries and academic organizations using sophisticated instrumentation.

SICART is equipped to handle the analysis of wide variety of materials that includes chemicals, plastics/polymers, pharmaceutical etc. It houses the following state of art analytical instruments: UV-VIS NIR Spectrometer, FT-IR Spectrometer, High Performance Liquid Chromatography (HPLC), GPC, GC, Gas Chromatography with Head space (GC-HS), GC-MS, HPTLC Systems, 400 MHz FT-NMR (with Solid Probe), Ion Chromatography (IC), LC-MS-MS, Inductive Coupled Plasma-Optical Emission Spectrometer (ICP-OES), Laser Particle Size Analyzers, Laser Flash Thermal Conductivity Meter, Mercury Porosimeter, Micro-Hardness Tester (MHT), C,H,N,S & O Analyzer, Thermal System (DSC, TGA & DTA),STA, Universal Testing Machine (UTM), X-Ray Diffractometer (XRD), Wavelength Dispersive X-Ray Dispersive Spectrometer.(WD-XRF), Environment Scanning Electron Microscope (ESEM) with EDAX, Field Emission Gun Scanning Electron Microscope (FEG-SEM) with EDAX (with

Mapping facility) and Transmission Electron Microscope (TEM) with CCD Camera. SICART is funded by the Department of Science & Technology (DST) and recognized as a Scientific & Industrial Research Organization (SIRO) by DSIR, New Delhi, Government of India, New Delhi). And as Schedule-I Environment Auditor by Gujarat State Pollution Control Board (GPCB).

SCOPE

Wavelength Dispersive X-ray Fluorescence (WD-XRF) is a technique used to determine the elemental composition of all kinds of materials. Applications are very broad and that includes metals, cement, Soil surveys, Mining, Steel, Ceramic and glass manufacturing, Metallurgy, Environmental studies Petroleum industry, Field analysis in geology etc.

X-ray powder diffraction (XRD) is a rapid analytical technique primarily used for phase identification of a crystalline material. and can provide information on unit cell dimensions. X-ray powder diffraction is most widely used for the structure related identification of unknown crystalline materials (e.g. minerals, inorganic compounds etc). Determination of unknown solids is critical to studies in geology, environmental science and material science.

SICART of Charutar Vidyamandal at Vallabh Vidyanagar, which is excellent in this field with expertise and infrastructure, proposes to conduct this workshop. It is envisaged that this workshop will help to disseminate the knowledge and to train the man power in the field of X-ray spectroscopy. This workshop will also provide an excellent opportunity for those who are already in this field for enrichment of their knowledge on recent advances in WD-XRF and XRD.

Topics intended to cover

Basic Theory, Operation and Applications of WD-XRF and XRD.

Who can attend the workshop ?

This program has been specially designed for the benefit of scientists, researchers, academics and technicians from any organization. In addition, desirous people working in commercial addition and industries can also participate. However the participants will be limited to have meaningful hands on experience.

REGISTRATION FORM

Name:

Designation:

Address:

Tele. /Mobile No.:

Fax:

E-mail.:

Accommodation will be with own responsibility:

I shall be attending the workshop on “**WD-XRF & XRD**” workshop and I enclose the registration Fee.

Amount Rs.

Signature:

Date:

By Cash / D.D. No.:

F.W.C Head of the Institution /
Organization

REGISTRATION

Attached registration form duly filled should reach the Convener on or before 16th May, 2016. The registration fee includes participation in Workshop program and Lunch / Tea.

Registration fees for participants

Participants from students: Rs.1000/-
Participants from Academic staff: Rs.1500/-
Participants from Industry Rs.2000/-
(Service tax extra @ 14.50%)

Registration should be made through by cash/Demand Draft/multicity payable cheque in favor of SICART-CVM, payable at Vallabh Vidyanagar- 388120



WD-XRF



XRD

Chief PATRON
Dr. C. L. Patel, Chairman, CVM

PATRON
Dr. J. D. Patel, Hon. Secretary

Convener
Dr. A. R. Jani
Hon. Director, SICART

Co-Convener
Dr. S. V. Patel

Coordinator
Dr. G. R. Chauhan

Organizing Committee

Dr. Mitesh Patel
Dr. M. R. Tiwari
Dr. K. K. Tiwari
Mr. Nikunj Patel
Mr. Vipul Patel
Mr. Vikas Patel
Ms. Rima Sheth
Ms. Dhanvi Patel
Mr. Dipen Patel
Mr. N. C. Solanki

Workshop on

“WD-XRF & XRD”

May, 20 - 21, 2016

Organized by



Sophisticated Instrumentations Centre
for Applied Research & Testing
(SICART)

Address for Correspondence & contact:

Dr. A. R. Jani
Hon. Director, SICART

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