

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 five educational institutes, from primary to post graduate level as well as doctoral studies. After completing a successful half century, 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 institute 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), 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

In conjunction with other tools of research Electron Microscope is widely used in the fields of biological sciences, chemical sciences, physical sciences, industry etc. It is a well established fact that electron Microscopy, both transmission and scanning have revolutionized our understanding of many aspects of research investigations. However, there is a great dearth in the availability of skilled and experienced persons to train the researchers, academicians, scientists and other desirous persons for proper preparation of samples and the interpretation of results. As a result, the utility of electron microscope in understanding the microcharacters of materials is diminishing.

SICART of Charutar Vidyamandal, Vallabh Vidyanagar, Which excel 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 electron microscopy. 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 TEM and FEG-SEM etc.

Topics intended to cover

Introduction to Electron microscopy Preparation of samples(Biological, chemical & industrial etc.) for TEM.Surface topographic studies of samples under scanning Electron Microscope.

Who can attend the workshop

This programme has been specially designed for the benefit of scientists, researchers, academics and technician. In addition, desirous people working in commercial addition and industries. However the participants will be limited to have meaningful hands on experience.

REGISTRATION FORM

Name:

Designation:

Address:

Tele. /Mobile No.:

Fax:

E-mail.:

Whether Accommodation required? Yes/No
(Accommodation charge will be extra)

I shall be attending the workshop on FEG SEM and TEM course 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 12th December, 2014. The registration fee includes participation in Workshop programme and Lunch / Tea.

Registration FEE for participants

Participants from University Rs.4000/-
Participants from Industry Rs.6000/-

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



FEG Neno Nova SEM 450



TEM Tecnai 20, Philips, Holland

PATRON

Dr. C. L. Patel, Chairman, CVM

Organizing Committee

Prof. (Dr.) V. S. Patel
Director

Dr. Sanjay Patel

Dr. G. R. Chauhan

Mr. Vikas Patel

Mr. Vipul Patel

Supporting Members

Dr. K. K. Tiwari

Dr. M. R. Tiwari

Dr. Mitesh Patel

Mr. Nikunj Patel

Mr. Pranav Patel

Ms. Rima Sheth

Mrs. Miral Patel

Workshop on “ELECTRON MICROSCOPY” (FEG-SEM with EDAX & TEM)

(Theoretical, Operational, Analytical and Applied Aspects)

December, 15 to 20, 2014

Organized by



Sophisticated Instrumentations Centre for Applied Research & Testing (SICART)
Vallabh Vidyanagar-388120, Gujarat

ADDRESS FOR CORRESPONDENCE:

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Director

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