



**Sophisticated Analytical Instrument Facility (SAIF) /  
Centre for Research in Nanotechnology & Science (CRNTS)  
&  
Centre for Sophisticated Instruments and Facilities (CSIF)  
IIT Bombay, Mumbai, India  
&  
Indian National Academy of Engineering (INAE)**



*Jointly Organized*

**Workshop on  
Applications of Advanced Analytical Techniques in Research & Industry**

**18 – 19<sup>th</sup> February, 2025**

This workshop on advanced analytical techniques will focus on the fundamentals and applications of the selected instruments. These instruments are used for measuring, analyzing, and characterizing materials, chemicals and biological samples. The goal of the workshop is knowledge sharing on the latest technologies in analytical instrumentation and their applications.

There will be 3-4 invited speakers in each session along with interactive question and answer sessions. Flash presentations and poster sessions will be included to encourage participation from diverse sections.

The workshop would cover the following instruments

- **Infrared Spectroscopy (FTIR)**
- **Nuclear Magnetic Resonance (NMR)**
- **Laser Raman Imaging System (LRIS)**
- **CHNSO Elemental Analyzer**
- **Total Organic Carbon (TOC)**
- **Inductively Coupled Plasma Mass Spectrometry (ICP-MS)**
- **Inductively Coupled Plasma Atomic Absorption Emission Spectrometer (ICP-AES)**
- **High-Resolution Gas Chromatography with Mass Spectrometry (HRGC-MS)**
- **High-Resolution Liquid Chromatography with Mass Spectrometry (HRLC-MS)**
- **Two-Dimensional Gas Chromatography-Time of Flight Mass Spectrometer Facility (GC-GC-TOF-MS)**
- **Small Angle X-ray Scattering (SAXS)**
- **Time Resolved Fluorescence Spectroscopy and Microscopy**
- **Protein Crystallography Facility**

***Advisory Committee***

Prof. Guruswamy Kumaraswamy, Chemical, IIT Bombay  
 Prof. Ashutosh Kumar, BSBE, IIT Bombay  
 Prof. Suryendu Dutta, Earth Science, IIT Bombay  
 Prof. Asim Tewari, Mechanical Engg., IIT Bombay  
 Prof. Anil Kottantharayil, Electrical Engg., IIT Bombay  
 Prof. Sankara Sarma V Tatiparti, DESE, IIT Bombay  
 Prof. Anshuman Kumar, Physics, IIT Bombay

***Conveners***

Head, SAIF/CRNTS, Prof. Suparna Mukherji, IIT Bombay  
 Head, CSIF, Prof. Anindya Datta, IIT Bombay  
 Co-Chair, INAE Mumbai Chapter, Prof. S.V. Kulkarni, IIT Bombay

***Call for Abstracts***

Abstracts for Poster presentations are invited from various fields. Kindly prepare the abstract as a word file (max. 250 words) in the specific format  
[www.saif.iitb.ac.in/workshop/AAATRI.html](http://www.saif.iitb.ac.in/workshop/AAATRI.html) and send to the email address [office.saif@iitb.ac.in](mailto:office.saif@iitb.ac.in) or [Click here for Submission of Abstract](#) by **12<sup>th</sup> January, 2025.**  
 The acceptance of the abstract will be communicated to the corresponding author by 20<sup>th</sup> January, 2025.

### **Organizing Committee**

Prof. Ruchi Anand, Chemistry, IIT Bombay  
Prof. Sanjeeva Srivastava, BSBE, IIT Bombay  
Prof. Rajdip Bandyopadhyaya, Chemical, IIT Bombay  
Prof. Harish Phuleria, ESED, IIT Bombay  
Prof. Vikram Vishal, Earth Science, IIT Bombay  
Prof. Shobhna Kapoor, Chemistry, IIT Bombay  
Prof. Ishita Sengupta, Chemistry, IIT Bombay  
Prof. Kamendra P. Sharma, Chemistry, IIT Bombay  
Prof. Amritanshu Shrivastav, ESED, IIT Bombay  
Prof. Sunita Srivastava, Physics, IIT Bombay  
Prof. M. Aslam, Physics, IIT Bombay  
Dr. Mayuri Gandhi, SAIF/CRNTS, IIT Bombay  
Dr. Gajender Saini, SAIF/CRNTS, IIT Bombay  
Dr. Nutan Agadi, SAIF/CRNTS, IIT Bombay

### **Best Poster Award**

Three Best Poster Awards will be conferred for outstanding research and presentation

### **Registration Fees**

Rs. 1000 + GST  
(without accommodation and transport)

### **Accommodation**

Limited accommodation would be available in the IIT Bombay hostel on payment basis.

### **Sponsorship Slabs**

- **Diamond:** 2.5 lakh or above: A single day of the workshop will be announced as “Company name Day”, one stall & one lecture slot ( 15 min.), logo on website/banner
- **Platinum:** 1.5 lakh: one stall & one lecture slot (10 min.), logo on website/banner
- **Gold:** 1 lakh: one stall, logo on website/banner
- **Silver:** 0.5 lakh: logo on website/banner
- **Others:** less than 0.5 lakhs: logo on website/banner

For more details please contact:

SAIF Office, IIT Bombay

E mail : [office.saif@iitb.ac.in](mailto:office.saif@iitb.ac.in)

Telephone: 022- 2576 7691/2

### **Venue**

Victor Menezes Convention Center (VMCC), Indian Institute of Technology Bombay, Mumbai, India

### **Important Dates**

**Abstract submission:** 12<sup>th</sup> January, 2025

**Acceptance of the abstracts:** 20<sup>th</sup> January, 2025

**Registration:** 20<sup>th</sup> January to 10<sup>th</sup> February, 2025

More details including a list of speakers are available on the website: [www.saif.iitb.ac.in](http://www.saif.iitb.ac.in)

**Email:** [workshop.crnts@iitb.ac.in](mailto:workshop.crnts@iitb.ac.in)

**Website:** [www.saif.iitb.ac.in](http://www.saif.iitb.ac.in)