

IoE Sponsored Workshop on Applications of Advanced Analytical Techniques in Research & Industry

Venue: P.C. Saxena Hall & VMCC, IIT Bombay

Day 1: 18th February, 2025

Venue - P.C. Saxena Hall

P C Saxena Hall	Time Hrs	Title	Speaker
	8:30 - 9:00	Registration at P C Saxena - Front Desk	
	9:00 - 9:30	Inauguration and Welcome. Brief introduction of CSIF, SAIF, & INAE	Prof. A. B. Pandit, Vice Chancellor, ICT Mumbai Head CSIF, IIT Bombay, Prof. Suparna Mukherji and Prof. S V Kulkarni (INAE)
	9:30 - 9:50	About ISTEM (Indian Science, Technology, and Engineering facilities Map)	Dr. Harilal Bhaskar, National Co-Ordinator, I-STEM, Bangalore
	9:50 - 10:10	Advances in IR Imaging Microscopy	Sponsor - I ---- Dr. Shreeram Oak - Country Head, Bruker India Scientific Pvt. Ltd.
	10:10 - 10:20	Emerging Trends in Multi-Element Analysis	Sponsor - II ---- Mr. Anthony Thomas, Spectro Ametek
	10:20 - 10:30	Applications of Mass Spectrometry	Sponsor - III ---- Mr. Chandrakant Pawar, Thermo Fisher Scientific India Pvt. Ltd.
	10:30 - 10:50	Experience about SATHI	Prof. Sameer Sapra, IIT Delhi
	10:50 - 11:15	Tea Break (PC Saxena Back Foyer)	
	11:15 - 11:30	Move towards VMCC	

Venue – VMCC (Parallel Sessions)

V M C C	Session I --- Hall No. 23, 2 nd Floor			Session 2 --- Hall No. 13, 1 st Floor		
	Time Hrs	Title	Speaker	Time Hrs	Title	Speaker
	11:30 - 12:15	Measuring Molecular Dynamics from Picoseconds to Seconds using Time-Resolved Fluorescence Spectroscopy: An Introduction	Prof. Sobhan Sen JNU, New Delhi	11:30 – 12:15	X-ray diffraction: An indispensable tool in research and industry	Dr. A. K. Tyagi, BARC, Mumbai
	12:15 - 13:00	2D NMR spectroscopy: a valuable tool for characterisation of organic compounds	Prof. Suvarn S Kulkarni Chemistry Dept, IIT Bombay	12:15 – 13:00	Fundamental & applications of FTIR & LRIS	Prof. Dipanshu Bansal, Mechanical Engg. Dept, IIT Bombay
	13:00 - 14:30	Lunch Break (3rd Floor)				
	14:30 - 16:00	Poster Session (VMCC Canopy Area, 2 nd Floor)				
	16:00 - 16:15	Tea Break (VMCC Canopy Area, 2 nd Floor)				
	16:15 - 18:00	Poster Session (VMCC Canopy Area, 2 nd Floor)				

Day 2: 19th February, 2025

Venue – VMCC (Parallel Sessions) and PC Saxena Hall

Session I --- VMCC, Hall No. 23, 2 nd Floor				Session 2 --- VMCC, Hall No. 13, 1 st Floor		
VMCC	Time Hrs	Title	Speaker	Time Hrs	Title	Speaker
	9:30 - 10:15	Decoding the role of mycobacterial lipid remodelling and membrane dynamics in antibiotic tolerance	Prof. Sobhana Kapoor, Chemistry Dept. IIT Bombay	9:30 –10:15	Introduction to SAXS for structure determination	Prof. Guruswamy K Chemical Engg. Dept IIT Bombay
	10:15 - 10:30	Tea Break		10:15 - 10:30	Tea Break	
	10:30 - 11:15	Mass Spectrometry in Pharmaceuticals: Analysing Small Molecules and Nucleic Acid-Based Therapeutics	Dr. Sangeeta Mirgal, Sun Pharma Advanced Research Company, Mumbai	10:30 – 11:15	Small-Angle Scattering: An Invaluable tool for Nano-materials and Soft Matter	Dr. Sugam Kumar BARC, Mumbai
	11:15 - 12:00	Evolution of pesticide residue analysis methods in India based on GCMS & LCMS	Dr. Kaushik Banerjee, ICAR, Pune	11:15 – 12:00	Applications and Advancement in analytical methods for trace and isotopic measurement using Q-ICPMS and MC-ICPMS	Prof. Sameer Ranjan, Earth Science Dept. IIT Bombay
P C Saxena Hall	12:00 - 12:15	Move to P C Saxena Hall				
	12:15 – 13:00	Modern Techniques in Structural Biology, <i>P C Saxena Hall</i>		Prof. Ruchi Anand, Chemistry Dept. IIT Bombay		
	13:00 - 14:15	<i>Lunch Break (VMCC, 3rd Floor)</i> <i>Move to P C Saxena Hall post lunch</i>				
	14:30 - 16:30	<i>Flash Presentations by Selected Students, (10 mins each) P C Saxena Hall</i>				
	16:30 - 16:45	<i>Tea Break</i>				
	16:45 onwards	<i>Concluding Session & Award distribution, P C Saxena Hall</i>				