



Workshop

on

ATOM PROBE TOMOGRAPHY (APT) – 2025

organized by

Advanced Centre for Materials Science (ACMS)

in conjunction with

Department of Materials Science & Engineering (MSE)

Indian Institute of Technology Kanpur, India.



11th September 2025 (Thursday)

Session I

(Venue: Faculty Building, FB 421)

08:30 – 09:00

Registration

09:00 – 09:05

Welcome Address by Workshop Coordinator

Dr. Niraj M. Chawake (Coordinator NFAPT-IITK Nodal Facility, ACMS)

09:05 – 09:10

Address by

Prof. Anish Upadhyaya (Head, ACMS, IIT Kanpur)

09:10 – 09:15

Address by

Prof. Kantesh Balani (Head, MSE Department, IIT Kanpur)

09:15 – 10:00

Talk #1: Atom probe tomography – fundamentals and applications

Dr. Heena Khanchandani (MSE Department, IIT Kanpur)

10:00 – 10:45

Group Photograph and High Tea

Session II

(Venue: Faculty Building, FB 421)

10:45 – 11:30

Talk #2: 3D nanoscale characterization of engineered materials and natural materials meant for extreme environments

Dr. Arun Devaraj (Pacific Northwest National Laboratory, United States)

11:30 – 12:15

Talk #3: Role of electron microscopy and atom probe tomography in design of new generation of structural alloys

Dr. Surendra Makineni (Indian Institute of Science (IISc), Bengaluru)

12:15 – 01:00

ACMS Lab Visit (Coordinated by Dr. Niraj M. Chawake)

01:00 – 02:00

Lunch Break

Session III

(Venue: Faculty Building, FB 421)

02:00 – 02:45

Talk #4: Role of atom probe tomography in materials design

Dr. Se-Ho Kim (Korea University, South Korea)

02:45 – 03:30

Talk #5: Insights into defect-assisted phase transformation mechanisms in medium Mn steels via Atom Probe Tomography

Dr. Rama Srinivas Varanasi (Tohoku University, Japan)

03:30 – 04:00

Tea Break

Session IV

(Venue: Faculty Building, FB 421)

04:00 – 04:45

Valedictory Session

For details, please visit ACMS website (www.iitk.ac.in/acms)



Designed by:
Mr. Pushpendra Kumar
Mr. Ashutosh Yadav