Nanomechanical Testing

Theory and Applications

4th and 5th August 2018

Venue: Hall 3, IC&SR Building, IIT Madras

Technical Program

Day 1: 4th August 2018

Time	Topic	Faculty
8.30-8.50	Registration	
8.50 – 9.00	Inauguration	
9.00 – 9.45	Fundamentals of Nano-indentation	Dr. Pijush Ghosh *Associate Professor, IIT Madras*
9.45 – 10.30	The use of depth sensing indentation systems for small scale mechanical properties of coatings and surface layers	Dr.Vikram Jayaram *Professor, IISc Banglore*
10.30 – 11.00	Coffee/Tea Break	
11.00 – 11.45	Recent Advancements in Nanomechanical Characterization	Dr. S. A. Syed Asif *Director- R&D, Bruker Nano Surfaces*
11.45 – 12.30	Nanoindentation in Gas Turbine Repair Technology Developments - Case Studies	Dr. Dheepa Srinivasan *Adjunct Professor, IIT Ropar*
12.30 – 14.00	Lunch	
14.00 – 14.45	Electromechanical characterization of materials using in-situ conductive nanoindentation	Dr. Kiran Mangalampalli *Assistant Professor, SRM Institute of Science and Technology*
14.45 – 15.30	Webinar / Q & A: Nanoindentation, Scratch and nanoDMA: Innovations for Atomic Force Microscope:	
15.30 – 16.00	Coffee/Tea Break	
16.00 – 16.45	Webinar / Q & A: Dynamic Nanoindentation Characterization – nanoDMA III	

Day 2: 5th August 2018

Time	Topic	Faculty
9.00 – 9.45	Nanoscratch testing and its applications	Dr. Srinivasa Rao Bakshi *Associate Professor, IIT Madras*
9.45 – 10.00	Coffee/Tea Break	
10.00 – 10.45	Application of high temperature nanoindentation	Dr. Praveen Kumar *Associate Professor, IISc Bangalore*
11.00-12.30	Demonstration and Webinar / Q & A: "Nanoscale Tribology"	
12.30-14.00	Lunch Break	
14.00-16.30	Demonstration and Webinar / Q & A: "XPM: High Speed Nanoindentation and Mechanical Property Mapping"	
16.30-17.00	Valedictory Function	