**Recent Advancements in Nanomechanical Testing and Applications**

Abstract:

Quantitative material characterization at nanoscale cannot be reliably performed using traditional techniques such as tensile testing or AFM. True nanoscale sensitivity and the ability to be quantitative are necessary to understand the structure and properties of nanoscale components in ordered to achieve desired performance. In the current talk I will try to give an overview of the “Recent Advancements in Nanomechanical & Nanotribological Testing and Applications”.

I will also present a case study on nanoscale tribology, this topic is about understanding the mechanical and tribological surface modifications in lubricated contacts.

Pratyank Rastogi:

He has completed his Master’s degree in Nanoscale Science and Technology from the University of Sheffield. Currently, he is working as Snr. Application / Customer Service Engineer with Bruker Nano Surface, amounting the total experience of 7 years with Nanomechanical Testing equipment. In last 7 years, he has been significantly involved in internal development and collaborated Application projects such as with IISc Bangalore and IIT Bombay.

