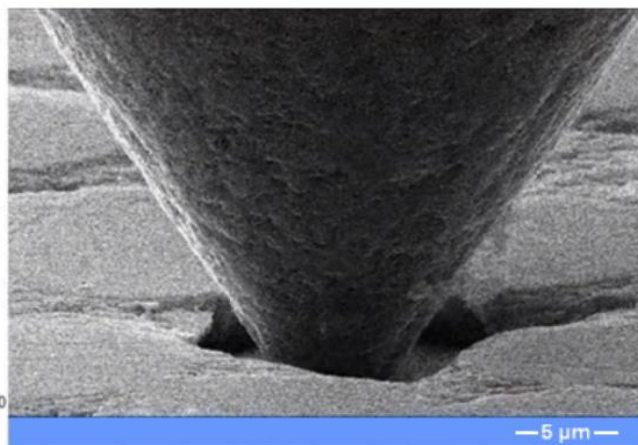
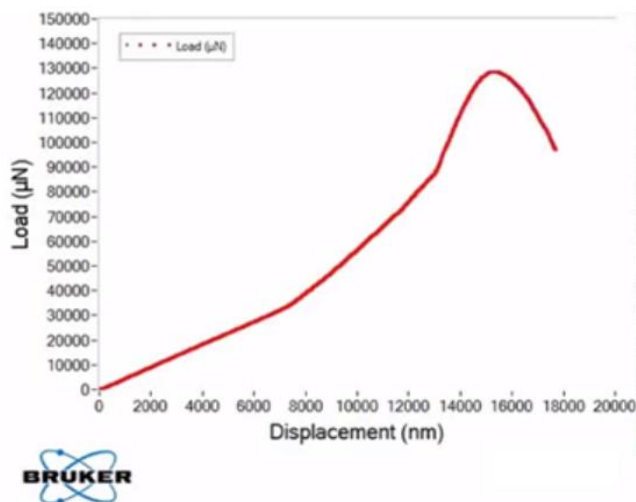


Mechanical Testing at Small Length Scales | Online Seminar | 20, 21 Oct 2020



Probing the mechanical behaviour of materials at the nanoscale is necessary for the development of new nanostructured materials and continued miniaturization of engineering devices electronic components, thin films and surface coatings. This program will cover topics related to cutting edge developments in nanoscale mechanical characterization of materials such as metals, alloys, ceramics and organic crystals; which will be used for such applications. The talks will demonstrate both operando and in-operando mechanical testing techniques such as high throughput testing, high temperature testing, in-situ measurements as well as introduce data science approaches for the same. The lecture themes are relevant to both audiences from academia and industry.

20 Oct, Tues Program Schedule (India Standard Time) – [Register/Click Here](#)

Session Chair : Prof Suresh Neelakantan, IIT- Delhi

10:00 am – 10:15 am	Opening Remarks Prof R L Narayan, IIT - Delhi
10:15 am – 11:15 am	Keynote Talk: Dynamic Applications of Nanoindentation: Beyond Hardness and Modulus Prof Jae-il-Jang, Hanyang University
11:15 am – 11:45 am	Small Scale Fracture Testing Prof Nagamani Jaya Balila, IIT - Bombay
11:45 am – 11:50 am	Break
11:50 am – 12:20 pm	In-Situ Electromechanical Characterization Techniques and Applications Prof Kiran Mangalampalli, SRM University
12:20 pm – 12:50 pm	Application of Nanoindentation in Hydrogen Embrittlement Study: Examples in Metallic Glass and High-Entropy Alloy Dr Yakai Zhao, Nanyang Technological University
12:50 pm – 01:20 pm	Tribochemistry and Triboprinting via Nanoscale Sliding Mechanical Contacts Prof Nitya Nand Gosvami, IIT - Delhi
01:20 pm – 01:30 pm	Closing Remarks

21 Oct, Wed Program Schedule (India Standard Time) – [Register/Click Here](#)

Session Chair : Prof Jayant Jain, IIT- Delhi

05:00 pm – 06:00 pm	In-Situ Nanoscale Mechanical Testing under Monotonic and Cyclic Loading Prof Ming Dao, Massachusetts Institute of Technology
06:00 pm – 06:30 pm	Understanding Deformation Twinning in Magnesium using In-Situ Experiments Prof. Eswara Prasad Korimilli, IIT - Indore
06:30 pm – 06:35 pm	Break
06:35 pm – 07:05 pm	Probing Mechanically Soft Organic Crystals by Nanoindentation Prof C.M. Reddy, Indian Institute of Science Education & Research - Kolkata
07:05 pm – 07:35 pm	Recent Developments in In-Situ Nanomechanical Testing Dr S.A.Syed Asif, Industron Nanotechnology Pvt Ltd
07:35 pm – 07:55 pm	In-Situ Nanomechanical Testing Demonstration
07:55 pm – 08:00 pm	Closing Remarks

For further enquiries

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Joint Organizers

