Nanoscale Characterization of Glass & Ceramics Surfaces

Wednesday, June 1st, 2022 | 13:00 BST | 14:00 CEST

Bruker is dedicated to providing a complete range of high-performance metrology techniques for the nanometer-scale surface characterization of glass and ceramic products. Join us for this virtual Surface Lab session where we will present a range of characterization techniques, their features, capabilities, and applications

Workshop Highlights

- LIVE demos on cutting-edge Bruker instruments.
- Nanoscale Investigation of glass & ceramics: Gorilla glass, float glass, and metallic glass
- Measurements on silicon coatings
- Thin Film Analysis

The following techniques will be covered

- **Atomic Force Microscopy:** For high-resolution, topographical, nanomechanical, nanoelectrical, and nanoelectrochemical characterization of materials.
- **Nano-Indentation:** Nano-mechanical characterization using nano-indentation methods.
- **Optical Profilers:** For 2D roughness surface characterization and advanced 3D mapping and measurement of thin film thickness, stress, surface roughness and form.

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14:00 Welcome & Introduction
Dr Peter De Wolf, Worldwide Application Director, Bruker Nano Surfaces & Metrology

14:10 Nanoscale investigation of Glass and Ceramic Materials using AFM
Talk and live demos: Dr Vishal Panchal, Application Scientist & Dr Mickael Febvre, Application Manager Europe, Bruker

- Characterization of Glass and thin film properties
- Roughness, topography, mechanical behavior
- Electrical behavior

14:40 Using Optical Profilers to investigate Glass and Ceramic Surfaces
Talk and live demo: Dr Udo Volz, Application Scientist, Bruker

- Measurement of topography, roughness, stress, and defects
- Automation

15:10 Nanoscale Mechanical Testing using NanoIndentation
Talk and live demo: Dr Ude Hangen, Applications Manager, Bruker

- Indentation and Scratch testing

15:40 Q&A
Dr Peter De Wolf

16:00 Closing

Please don't hesitate to contact us at productinfo.emea@bruker.com if you have any questions.