Workshop on EDS-Micro-XRF-EBSD-Pico Indentation in the SEM

Venue: IIT Madras, Chennai

Date: 20th July, 2017

The EDS-EBSD workshop will focus on the latest developments in these techniques. There are exciting technological developments in the field of energy dispersive spectroscopy (EDS) and micro-X-ray fluorescence spectroscopy (µ-XRF) in the SEM for accurate chemical analysis on a local scale. Similarly there are new developments in Electron Back Scatter Diffraction (EBSD) for improved orientation accuracy and improved spatial resolution through transmission EBSD. Nano and pico indentation are new in-situ tools that facilitate characterization of multiphase microstructures to understand their mechanical behavior. There will be a talk on in-situ pico indentation in the SEM and live demo on this technique. The maximum number of participation in this workshop is restricted to 30 only.

Tentative program for the EDS-EBSD workshop

- 9.30 – 1015 h: New Applications on MICRO XRF and EDS system integrated on Scanning Electron Microscope: Dr. John Gilbert
- 1015 – 1100 h: EBSD/EDS integration and optimizing the SEM time / post data processing capabilities: Dr. Laurie Plasse
- 1115 – 1200 h: Transmission Kikuchi Patterns in SEM – New Developments: Dr. Laurie Plasse
- 1200 – 1245 h: The Application of in-situ indentation (in SEM TEM and X ray miccroscopes) - Mr. Pratyank Rastogi
- 1245 - 1300 h: LUNCH
- 130 – 1430 h: Demo of T-EBSD through web: Dr. Daniel Goran
- 1430 – 1730 h: Live demonstration the Pico indenter on an SEM: Mr Pratyank Rastogi