

Enhanced SEM sample preparation with the Hitachi IM4000 Hybrid Ar+ ion mill

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This workshop will explore the applications of low energy Ar+ ion milling provided by the Hitachi IM4000 Hybrid ion mill - including cross sectioning and flat sample polishing.

Flawless cross sectioning of composite and laminated materials will be investigated, including studies of materials which are impossible to cross section in any conventional way.

The benefits of damage-free flat surface polishing for greatly enhanced EBSD analysis will also be explored. The workshop will also consider mechanisms for sample transfer into the microscope without exposure to air.