

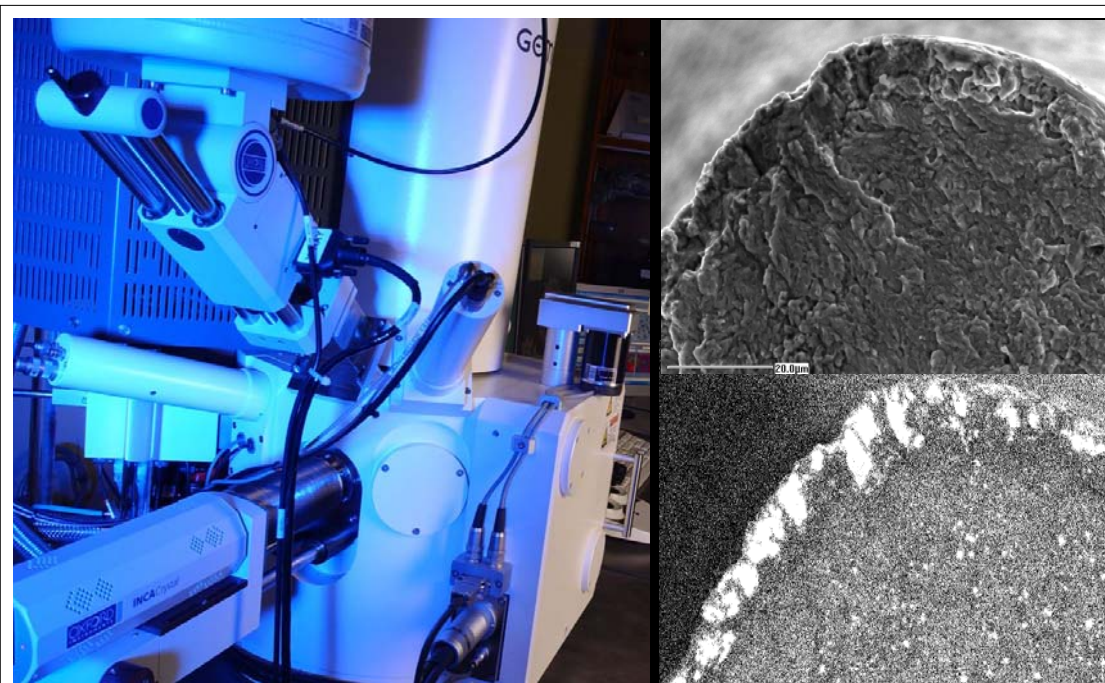
Practical Scanning Electron Microscopy

Three-day continuing professional development courses

Brunel
UNIVERSITY
WEST LONDON

IOP Institute of Physics

ETCbrunel
www.ETCbrunel.co.uk



Brunel University, founded in 1966 and located in West London, is named after the celebrated nineteenth century engineering genius, Isambard Kingdom Brunel, famous for a range of ambitious and highly innovative projects. The ethos of our world renowned namesake is reflected in the design of our courses which combine academic rigour with a practical and imaginative approach.



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The three-day course, "Practical Scanning Electron Microscopy" gives delegates theoretical and practical knowledge of scanning electron microscopy (SEM). The programme introduces imaging techniques, high resolution SEM, and energy dispersive X-ray analysis, which provides compositional information. Attendees will investigate the theory and practice of both standard SEM, and the Centre's advanced field emission scanning electron microscope (FEG-SEM), which combines ultra-high resolution with variable pressure mode allowing optimum imaging of a range of sample types. A combination of lectures, demonstrations and hands-on experience will explore the theory, practice and application of these powerful analytical tools. With its highly practical approach, running from sample preparation through image collection and compositional analysis, this course is designed to give delegates a sound working knowledge and confidence in operating scanning electron microscopes.

Above: (left) ETCbrunel's Zeiss Supra FEG-SEM (right) SEM image of fatigue failure (top) and compositional map (below) showing elemental distribution
Overleaf: SEM image showing grain structure and boundary phases in tin oxide electronic material.

For more details and course scheduling please contact:
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