

Keynote Lecture – Ambience 08:

New Developments in Technical Textiles and Composites

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The presentation will involve a review of technical textiles and their applications in fibre reinforced composites. Techniques that can be used to characterise the materials will be discussed and new methods to follow fibre deformation will be described. In particular techniques such as Raman spectroscopy and synchrotron micro-focus X-ray diffraction, which can be used to follow deformation in both individual fibres and fibre yarns, will be introduced and their applications in technical textiles and composites will be described.