

BSSM Workshop: The Measurement of Residual Stress using Diffraction Methods



BRITISH SOCIETY FOR
STRAIN MEASUREMENT

**Organisers: Judith Shackleton and João Fonseca,
University of Manchester**

Meeting information

Date: 14th February 2007

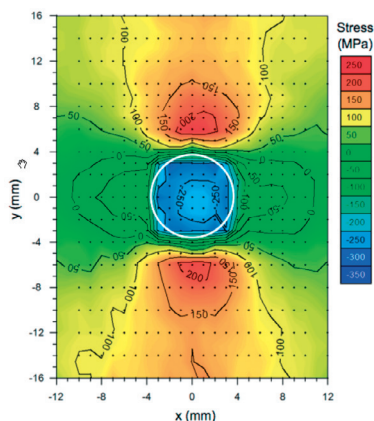
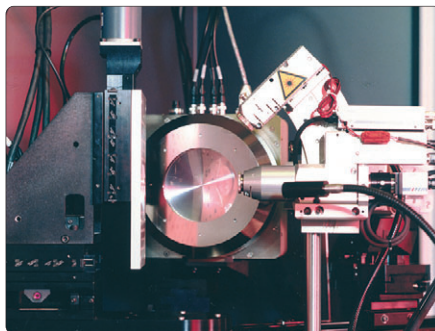
Time: 10am to 4pm

**Venue: Materials Science Centre,
University of Manchester**

Residual stress is one of the most common causes of catastrophic and unexpected failures in engineering components.

Today, engineers are developing tools and strategies for managing detrimental residual stresses and for introducing beneficial ones across component scales ranging from those experienced in microelectronics through to aeroengine assemblies.

This workshop is aimed at anyone who would like to know more about measuring residual stress using diffraction techniques. It is suitable for beginners, as well as those with experience. The workshop aims to cover all diffraction methods, neutron, synchrotron and X-ray. Consequently, it is also of interest to those who already have experience in one field and would like to extend their knowledge into others. The workshop will cover sample preparation as well as layer removal by electro polishing. There will be an opportunity to make a measurement using Manchester's "state of the art" stress diffractometer.



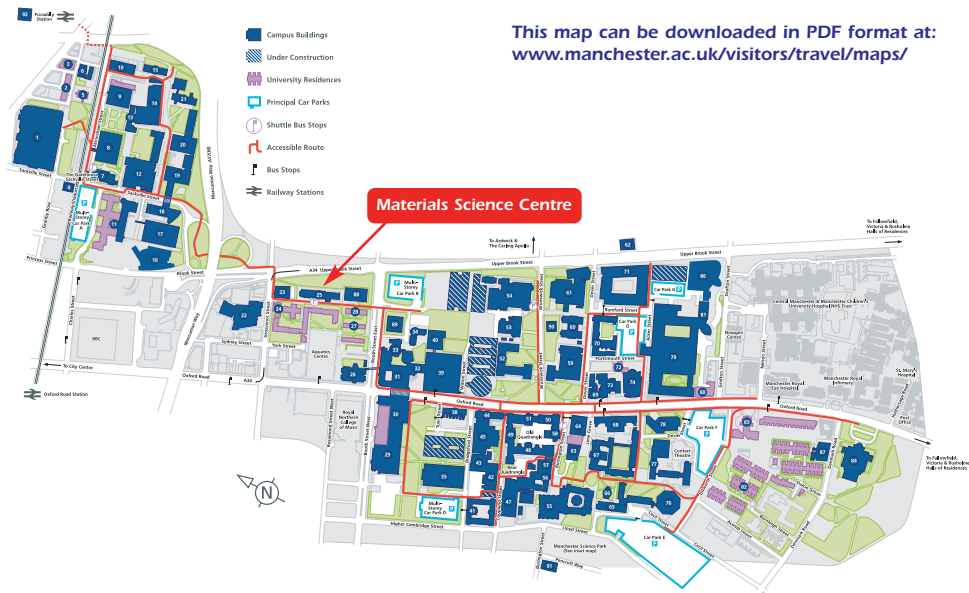
This workshop will be run by João Fonseca, Judith Shackleton and Jo Kelleher who are all members of 'The Residual Stress & Damage Characterisation Unit' at Manchester which is a centre of expertise for diffraction methods.

Venue details

Workshop to be held at
The Materials Science Centre,
University of Manchester,
Grosvenor Street,
MANCHESTER,
M1 7HS.

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