

**The Engineering
Integrity Society**

The Challenges of Structural Integrity at High Temperature

**Phoenix Materials
Testing Ltd, Brierley Hill
4 October 2018**



This seminar is aimed at engineers with hands on involvement in the world of high temperature applications, either for the design, or validation and testing, of materials, components and models. This seminar will stimulate discussion and the sharing of information, techniques and challenges across a range of sectors.

Programme

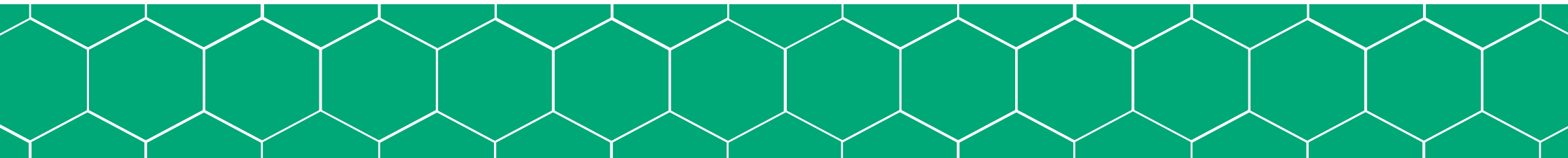
Abstracts are available on the EIS website.

- 09.00 Registration, Tea and Coffee
- 09.20 Introduction to the EIS - Robert Cawte (EIS)
- 09.30 **Challenges involved in implementing and maintaining high temperature control accuracy during complex mechanical testing - Jonathan Jones, Swansea University**
- 10.00 **Controlled Higher Resolution Non-Uniform Heating and Applications - Akram Wahab, Phoenix Materials Testing Ltd**
- 10.30 Tea, Coffee and Exhibition
- 11.00 **Stress cracking and fatigue testing of nickel based superalloys in a hot corrosion environment - Laurie Brooking, Cranfield University**
- 11.30 **High strength steels at elevated temperature - Dorothy Winful, TWI**
- 12.00 Lunch, Exhibition and Lab Tour
A tour of the Phoenix Materials Testing laboratory which specialises in testing to support product research and development, including a range of high temperature and environmental facilities.
- 13.30 **Determining Damage Evolution using Advanced Monitoring Techniques at High Temperatures (>800°C) - Christopher Newton, Swansea University**
- 14.00 **Creep Fatigue Interaction for Nuclear Fusion - Mike Gorley, UK Atomic Energy Authority**
- 14.30 **In situ synchrotron measurements of stress relaxation in Titanium alloys - Yi Xiong, Oxford University**
- 15.00 Tea and Coffee
- 15.15 **In-situ creep fatigue testing at the diffraction facilities - Abdullah Al Mamun, University of Bristol**
- 15.45 Q&A Forum and Closing Comments

BOOKING FORM

	EIS Member	Non EIS Member
Delegate	£100+VAT	£125+VAT
Student/Apprentice	£25+VAT	
	UK	Rest of the World
Personal Membership of the EIS	£25 per year	£30 per year
I enclose a cheque for £_____ made payable to the Engineering Integrity Society. Payment can also be made by BACS.		
Name:		
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Any Special Dietary Requirements		
Please tick this box if you are happy to have future contact with the EIS. We limit the emails we send and will never pass your details to any other organisation. You are able to unsubscribe at any time. Our privacy statement can be viewed on our website.		
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Please return completed forms to the following address:
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The **Engineering Integrity Society** is an independent not-for-profit organisation which aims to inspire all engineers, both experienced and newly qualified, across a broad spectrum of technologies. The Society is committed to promoting events and publications, providing a forum for engineers to discuss present industrial needs, new technologies and to stimulate both company and personal development.

The annual subscription rates are £25 for UK residents and £30 for non-UK residents. Upon joining the Society you will also have the additional advantages of preferential attendance rates at EIS events, together with selected events held by some of the associated organisations. In addition you will have access to CDs containing archived copies of EIS presentations.

Phoenix Materials Testing Ltd are experts in materials testing and materials testing equipment, with a focus on developing specialist systems to support research and validation into material and component performance under challenging mechanical, thermal and environmental conditions.

The **Engineering Integrity Society** is pleased to acknowledge the support of the following organisations:

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