



**The Engineering
Integrity Society**



Forum for Engineering Structural Integrity

Engineering Integrity of Structures & Components Subjected to Degradation Mechanisms

**Cranfield University
11 September 2018**



This is a joint seminar between the Engineering Integrity Society (EIS) and the Forum for Engineering Structural Integrity (FESI). The degradation mechanisms being considered are primarily fatigue, creep and corrosion. Presentations will be delivered by experts in the field of these technical areas from both industry and academia. The event will provide a state-of-the-art review as well as outlining the future challenges and ongoing development work. The seminar aims to give a cross-industry perspective and is primarily aimed at structural integrity engineers, researchers and students looking to gain an up-to-date understanding and appreciation of the aspects associated with these technical areas.

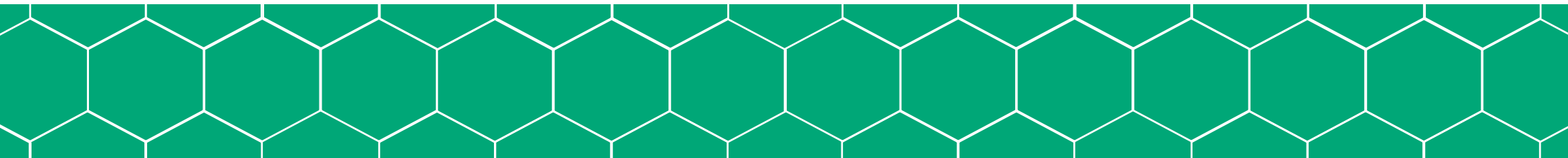
PROGRAMME

09:00	Tea, Coffee and Registration
09:20	Welcome and Introduction
09:30	Reducing the Level of Conservatism in Structural Integrity Assessment of Off shore Wind Turbine Monopile Foundations” – Ali Mehmanparast, Cranfield University
10:10	State of the Art Testing Methods for Fatigue and Corrosion – Stuart Medway, Wood
10:50	Tea/Coffee
11:10	Development of Fatigue Design Rules for Structures and Equipment John Wintle, TWI
11:50	Creep-fatigue deformation and damage in 316 Stainless Steel - David Knowles, Atkins
12:30	Lunch
13:30	The interaction of oxidation and carburisation with creep-fatigue Marc Chevalier, EDF
14:10	The effect of residual stress on fatigue and other failure mechanisms - Jeferson Oliveira, Open University
14:50	Tea/Coffee
15:00	PWR Environmental Fatigue – Developments & Future Challenges - Keith Wright, Rolls Royce
15:40	Predicting fatigue degradation in an age of big data - Phil Irving, Cranfield University
16:20	BS7910 Guidance Relating to Fatigue, Creep and Corrosion - Isabel Hadley, TWI
17:00	Closing comments and optional tour of the Structural Integrity Laboratory.

BOOKING FORM

	EIS/FESI Member	Non EIS/FESI Member
Delegate	£115+VAT	£140+VAT
Student/Apprentice	£30+VAT	
<p>I enclose a cheque for £_____ made payable to the Engineering Integrity Society.</p> <p>Payment can also be made by BACS. Please send me an invoice <input type="checkbox"/></p>		
Name:		
Company:		
Address:		
Telephone:		
Email:		
Any Special Dietary Requirements		
<p>Please tick this box if you are happy to have future contact with the EIS & FESI. 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. <input type="checkbox"/></p> <p>Please tick this box if you do not want to receive any information from the EIS or FESI <input type="checkbox"/></p>		

Please return completed forms to the following address:
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 Telephone: +44(0)1623 884225 Email: info@e-i-s.org.uk



THE ENGINEERING INTEGRITY SOCIETY

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 EIS organises seminars, exhibitions and training programmes, which are valued for their informal yet informed character. The Society also holds an annual Instrumentation, Test and Measurement exhibition, including forums on topics of current interest to engineers. We are constantly looking for new ways to help companies to get the best from their investment in testing, design and people.

THE FORUM FOR ENGINEERING STRUCTURAL INTEGRITY

FESI is the membership organisation for engineering structural integrity (ESI) in the UK. FESI disseminates the latest advances in ESI, promotes the exchange of ESI technologies and knowledge between industrial, regulatory, academic, and professional organisations, encourages best practice in ESI, and provides a practical resource for anyone working in ESI. One of FESI's chief aims is to help improve the safe performance of and realise the economic potential inherent in the UK's engineering assets.

This is mainly achieved through the organisation of seminars and training courses, and the publication of the biannual FESI Bulletin and various textbooks and pamphlets through our publishing arm FESI Publishing.

