

Please submit this form for registration:

Poul Gosney at FESI—UK Forum for Engineering Structural Integrity
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Please tick if you are applying for reduced fee:

Retired fulltime student FESI member (10%) discount

Method of payment. Please tick preferred payment method:

1. Cheque: Made payable to **FESI Ltd**

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4. Total amount payable: £.....

I will attend the Conference Dinner.

If accompanied by your partner and you require an extra Conference Dinner place, please indicate here and add £75.00 to your total registration fee.

For details about exhibiting please indicate here



13th International Conference on Engineering Structural Integrity

ESIA 13

19 - 20 May 2015

Manchester Conference Centre
Manchester

Sponsored by



FESI Corporate Members are :

EDF Energy, Rolls-Royce, Magnox, Cranfield University, Frazer-Nash Consultancy, Manchester University, Atkins, ESR Technology, National Nuclear Laboratory, TWI, NPL, HBM-nCode, Bristol University, Sellafield Ltd, DNV-GL, MCS (Canada), Amec Foster Wheeler, Penspen, Coventry University, Horizon Nuclear Power, Sheffield University, OCE (USA), Centrica, the Design Unit and the Open University.

It is supported by:

HSE, ONR , HSL and the Lloyds Register Foundation

Every two years FESI organises an International Conference on Engineering Structural Integrity Assessment which is intended to provide a forum for the presentation, review and discussion on the latest developments of key structural integrity issues for plant, components and structures together with buildings and the infrastructure. ESI is the science and practice of increasing and improving engineering reliability and safety. We will be considering how in this time of austerity, our economic challenges can be safely accommodated in both new design and in the operation of existing plant. To this end, the conference will have four types of presentations:

1. Keynote Presentations fill the two morning sessions and examine the status of Engineering Structural Integrity across the industry sector and associated technology. This provides a training/CPD opportunity
2. The afternoon sessions are devoted to a variety of technical presentations on: Inspection and monitoring; Fracture analysis; Integrity assessment; Modelling; Material behavior
3. There will be a Poster session illustrating current research projects in Structural Integrity related areas with authors attending. The posters will be on view for the of the conference
4. A desk-top exhibition will provide the opportunity to display SI-related products and recruitment opportunities

Organising Body

FESI - UK Forum for Engineering Structural Integrity (Chairman: Dr Brian Tomkins FEng) provides a forum for the development and enhancement of best practice in Engineering Structural Integrity in the UK and overseas .

Terms and Conditions - Payment methods

The registration fee includes a copy of the proceedings, all refreshments and the Conference Dinner To register, please complete the registration form and return it to the address below.

Registration Fee

(VAT @ 20.%)	Conference 2 day attendance		Conference 1 day attendance	
	Fee (net)	Fee (gross)	Fee (net)	Fee (gross)
Delegate	450.00	540.00	300.00	360.00
Presenting Author	300.00	360.00	200.00	240.00
Co-author	350.00	420.00	240.00	288.00
Retiree/Student/ student author/poster	80.00	96.00	60.00	72.00

All FESI Members and co-sponsors will receive a 10% discount

Cancellations

In the event of cancellation, the fees paid will be returned, less a cancellation charge of 20%. If less than 14 days' notice is given, the organisers reserve the right to retain the whole fee. Cancellations must be confirmed in writing.

Who to contact

Enrolments and general enquiries: Poul Gosney - esia@fesi.org.uk - tel: +44 (0)1925 843429

Programme - Day One

Current Position of ESI

Keynote Papers from:

Prof John Knott OBE, FRS, FEng, Birmingham University

- **Fifty Years of Structural Integrity in the UK— Lessons Learned and Directions for the Future**

Thore Lund, Consultant, SKF, Sweden

- **Fatigue Propensity in Bearings**

Prof Rob Ritchie FEng, H. T. & Jessie Chua Distinguished Professor of Engineering, University of California

- **Bio Mechanics**

Prof David Ewins FRS FEng Bristol University

- **Machine Dynamic Assessment**

Keith Wright, Rolls-Royce plc

- **Are Codes Keeping Up? An Update on ASME**

Prof Erik Schlangen, Delft University, The Netherlands

- **Assessment of Self-Healing Concrete**

Prof Shang-Tung Tu, East China University, Shanghai,

- **Constraint effect on Creep Fracture**

To complete Day 1, there will be papers on:

- **Materials Behaviour**
- **Modelling**
- **Integrity Assessment**

This will be followed by the **Poster Session** accompanied by a drinks reception

After Dinner Speaker:

Prof Richard Clegg, Managing Director, Lloyds Register Foundation

- **Lloyds Register Foundation and ESI**

Programme - Day Two

Further Requirements for ESI

Keynote Papers from:

Dr Peter Budden, EDF Energy

- **Development in Assessment Methodologies**

Prof Su Jun Wu, Beihang University, Beijing, PR China

- **Materials Issues Relating to SI for the Aerospace Industry**

Prof Phil Irving, Cranfield University

- **Why Fatigue is Still a Problem**

Prof Peter Cawley FRS, FEng, Head of Mechanical Engineering, Imperial College London

- **Challenges for Inspection and Monitoring**

Dr David Knowles, Director, Atkins

- **Offshore Monopole Wind Turbine Foundations: fatigue damage assessment and asset management**

Future Challenges for ESI

Eddie Morland, Chief Executive of Health and Safety Laboratory and Commercial Director of the HSE

- **Recent Challenges for the HSE**

Prof Helen Atkinson CBE, FEng, Head of Mechanical Engineering, University of Leicester

- **Teaching of ESI - is the Universities' Approach Fulfilling Industry's needs?**

Dr Jan Przydatek, Lloyds Register Foundation

- **The Lloyds Register Foundation Structural Integrity Initiatives**

- **Panel Discussion**

Chaired by Dr Brian Tomkins FEng, Chairman of FESI and Presenters

To complete Day 2, there will be papers on:

- **Fracture Criteria**
- **Inspection**

A full conference programme will be available on our website by 15 April 2015