



UK FORUM FOR ENGINEERING STRUCTURAL INTEGRITY

# First Announcement and Call for Papers

## 11<sup>th</sup> International Conference on Engineering Structural Integrity Assessment

### ESIA11

## Engineering Structural Integrity Assessment: from plant and structure design, maintenance to disposal

24 - 25 May 2011, Manchester UK

### Background

This is the eleventh in the series of FESI international conferences on the topic of Engineering Structural Integrity Assessment. The Conferences are a major forum for dissemination and discussion amongst industrial, academic and regulatory bodies in this field. All aspects of this multi-disciplinary subject are addressed including the status of assessment technologies and methodologies in relation to design, operation and disposal of plant, structures and components.

The continuing need for industry sectors to provide economic advantages to both its investors and customers, has shown that there is a need for greater investment. New plant, components and systems must be able to provide increased output at reduced cost - safely and sustainability. Alternatively, there is often an economic argument to extend the life of components and systems. Running parallel is the requirement for clean disposal of out-of-commission plant and components. This latter topic is an increasingly important issue in view of the potential environmental impact.

### Theme

This FESI Conference will be based around the theme of "Engineering Structural Integrity Assessment: from plant and structures design to disposal". The aim is to show how outputs from recent research and development can lead to improved integrity of structures and components in the area of design and new build, enhance their longevity and develop a greater understanding of the issues surrounding decommissioning and long term storage. It will:

- consider all major industry and business sectors, including energy, transport, process and civil structures.

- address through the development and deployment of condition evaluation and assessment tools; integration into methodologies and their application to the current situation and future planning, both deterministically and probabilistically based; operational challenges of life cycle management for newly designed plant,
- consider case histories demonstrating the applicability to specific plant problems to the improved life management of existing and new structures and components and their disposal (papers here will be particularly welcome),
- examine current needs in terms of sustainable management concepts, strategies and methodologies, regulatory requirements, economic benefits and societal impact,
- address research and development directed to improving inspection and monitoring techniques, basic understanding of mechanisms and analytical procedures that will be used subsequently to enhance assessment methodologies and strategies.

### Dates to Note

- Abstracts must be submitted by 1 October 2010. The abstract should be 200-300 words plus key words, 1 table and picture and references
- Authors will be notified of acceptance by 1 November 2010 (with full paper format guidelines)
- Submission of the Full Paper for review by 15 February 2011. All papers received at that date will be included in the printed conference proceedings of ESIA11 to be included in the Conference pack

Full details go on our website:  
[www.fesi.org.uk/esia11](http://www.fesi.org.uk/esia11)

or contact Poul Gosney at: [poul.gosney@fesi.org.uk](mailto:poul.gosney@fesi.org.uk)

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