



Call for Papers

FESI Conference on Engineering Structural Integrity Assessment

ESI A2008

Engineering Structural Integrity Assessment – Its Contribution to the Sustainable Economy

21-22 October 2008, Manchester UK

This is next in the series of FESI national and international conferences on the topic of Engineering Structural Integrity Assessment that have been organized over the last 15 years. The Conferences are now established as a major forum for dissemination and discussion amongst industrial, academic and regulatory bodies in this field. It addresses all aspects of this multi-disciplinary subject including the status of assessment technologies and methodologies in relation to operating plant, structures and components.

THEME

As the demand for products and services continues apace, there will be an increasing stress on the world's limited resources. Thus engineers both today and in the future are, and will be asked to use the declining resources more efficiently and produce less waste. To prepare for these challenges, engineers will need to understand the impact of their decisions on built and natural systems. They must become adept at working closely with planners and decision makers. They must also bear in mind how aware the general public is. Sustainable Engineering requires us to take the long term view rather than adopting short term fixes. Structural Integrity Assessment is in the position to be able to lead this approach through its influence on safe, reliable and cost effective design, manufacture and operation of plant, businesses and services.

TECHNICAL AREAS

Inspection and monitoring
Fretting, wear and surface engineering
Welding and joining

Fracture and crack growth mechanics
Fatigue
Environmental effect (corrosion, stress corrosion and oxidation)
Impact damage
High temperature failure
Minimization of the carbon footprint
Recycling and environmental issues

MAIN TOPICS

Fundamental ESI research and new technology
Assessment methodologies (sustainable management, risk and safety)
Standards for design and assessment
Operational experience including case studies
Application
New build and design for sustainability
Environmental impact and consequences
Waste management, recycling and sustainability
Carbon footprint of plant and equipment
Maintenance – planning and avoidance
Reducing CO₂ emissions – reducing energy in production methods
Minimization of the carbon footprint
Recycling and environmental issues

SCOPE

It is anticipated that papers will come from and be of interest to the following industry sectors:

- o Power Generation
- o Renewable Energy – onshore and offshore
- o Defence systems
- o Aerospace



- o Transport (Rail, Automotive)
- o Offshore Oil & Gas
- o Process Plant
- o Civil Engineering, Construction and Infrastructure
- o Biomedical Engineering
- o Safety Critical Components
- o Micro and Nano Electronic Engineering.

It will also be of interest to associated consultancies and university researchers.

KEYNOTE PAPERS

Each theme will be introduced by an internationally recognised authority, drawn from the industry, business and academic communities.

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ASSOCIATED AREAS

Insurance
 Environment Risk
 Legal
 Financial

CALL FOR PAPERS

1. Extended abstracts of two A4 pages (including one table, one figure [or no table but 2 figures] and four key references) in MS Word format (Times New Roman)/MicrosoftXP are invited.
2. Abstracts should indicate the theme and topic area to which it is appropriate and contain the presentation title, the author's name(s) and affiliation(s), five key words and the full contact details of the corresponding author.
3. There is a template on the FESI website to assist in laying out your Abstract –

www.fesi.org.uk/esia2008 – then click on Call for Papers.

4. N.B.: Papers are accepted on the understanding that an author will attend to present the paper at the Conference.

DATES TO NOTE

Abstracts must be submitted –

31 January 2008

Authors will be notified of acceptance –

28 February 2008 (with guidelines).

Submission of Full Paper for review –

30 April 2008

Final full papers from authors - **30 June 2008** (for inclusion in the Conference Proceedings CD).

EXHIBITION

An exhibition of equipment and software related to the overall theme will be an integral part of the Conference. Exhibition space is limited. Dedicated time will be set aside to view the exhibition. For information on cost and availability, please contact the Conference Organising Committee.

SPONSORSHIP

There are various Conference Events available for sponsoring including the Conference itself, Conference Reception dinner, Conference Dinner, and Conference handouts. For further information please contact the Conference Organising Committee.

VENUE

Manchester Conference Centre, University of Manchester, Manchester, UK

CONFERENCE SECRETARIAT CONTACT DETAILS:

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