

Structural Integrity Monitoring: Its Role in the Structural Integrity Assessment Process

Chairman: Prof Peter Flewitt, Bristol University
 Date: 5 April 2011
 Venue: The Royal Academy of Engineering, London

Purpose

Engineering Structural Integrity Assessment is a key procedure used across industry sectors in the safe and economic management of structures and components throughout their life cycle. Structural Integrity Monitoring/Structural Health Monitoring (SIM/SHM) is an important tool in providing data relating to the life expectancy of a structure, and together with non-destructive evaluation (NDE), they provide key information for the structural integrity assessor.

The purpose of this seminar is to show how structural integrity monitoring and NDE methods can be applied to structures and components for a wide range of industrial applications and how these are being developed to meet increasingly stringent demands on perceived safety and challenging operating conditions. The seminar will address:

- The interpretation of monitoring data for enabling life extension.
- The role of SIM/SHM/NDE in the overall safety and integrity strategies.
- How monitoring data help to support the predictions and analysis derived through structural integrity and materials modelling.

Who Should Attend

This seminar will be of interest to engineers of all disciplines, regulators and policy makers, managers from across the industry sector, technology suppliers and academia. The Registration Form can be downloaded on-line at www.fesi.org.uk and www.simonet.org.uk

Programme

09:00	Registration	13:05	Lunch
09:30	Introduction Prof Peter Flewitt, Bristol University	14:00	Monitoring Large Structures - Research Developments Paul Fromme, UCL
09:40	Monitoring and Evaluation of Components and Structures for Integrity Assessment: their Value in Expert Witness Evidence Iain Le May, MCS Ltd	14:30	Investigating the Built Environment – Non Destructive Options Simon Brightwell, Fugro-Aperio
10:20	Offshore Life extension - an Overview John Sharp, Cranfield University; Alex Stacey, HSE; Philip May, Atkins	15:00	Wind Energy Feargal Brennan, Cranfield University
11:00	Coffee	15:30	Refreshments
11.15	Civil Infrastructure Brian Bell, Network Rail (Transport) and Alan Hodder, National Grid (Utilities)	15:40	An Overview of the IMAJINE Project: Monitoring Joint Integrity Richard Lee, ESR Technology
11:55	The NDE Role Keith Newton, RCNDE; John Taggart, Serco	16:10	Open Discussion – Chaired by Prof John Sharp
12:30	Fit for Purpose John Lilley, Sonomatic	16:45	Finish

Registration Form
FESI/SIMoNET Seminar – 5 April 2011 – Royal Academy of
Engineering, London

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DELEGATE DETAILS

Title

First Name

Last Name

CONTACT DETAILS

Contact Name (if different
from above):

Co./Org. Name:

Address:

Post Code:

Tel:

Fax:

E-mail Address:

Authorised Signature:

Date:

PRICES

Registration price includes lunch, mid-morning coffee, afternoon refreshments and workbook

Cost per delegate: £160 + VAT (£192.00)

A cost for FESI Members/Corporate Sponsors, SIMoNET and RCNDE members of £110 + VAT (£132.00)

Student rate is £50 + VAT (£60.00)

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