

For Further Information

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The Engineering Integrity Society

The Engineering Integrity Society is a professional body formed in 1985. The objectives are to stimulate the exchange of ideas and information between engineers and technologists whose interest lie in designing, developing or manufacturing products which must achieve high standards of integrity.

The society comprises three groups: Durability & Fatigue, Simulation Test & Measurement and Noise Vibration & Harshness. The society groups have made a recognisable and significant contribution to advancing Engineering Science. Over the last twenty-three years the EIS has established itself as a professional body dedicated to the engineering integrity of manufactured products.

The ENGINEERING INTEGRITY SOCIETY is pleased to acknowledge the support and sponsorship of the following organisations:

Arup	AWE Aldermaston
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Sponsored by:



The Engineering Integrity Society

*Durability and Fatigue
Advances in Wind, Wave and Tidal Energy*

*to be held at
BAWA, Filton, Bristol*

Tuesday 4th November 2008

*Co-sponsored by:
ESIS, IMechE, Simonet*



Institution of
**MECHANICAL
ENGINEERS**



Durability and Fatigue Advances in Wind, Wave and Tidal Energy

Tuesday 4 November 2008

This one-day event in Bristol brings together developers, professionals and academics in the rapidly developing world of renewable energy systems. The event is focused on the technical durability assessment of renewable energy structures and, in particular highlights the design and development of offshore systems, which includes recent progress in power generation from the wind, wave and tide energy. The speakers are drawn from established companies in this sector as well as from emerging technologies together with experienced professionals in advanced monitoring and theoretical assessment of renewable energy structures. The event is suitable to everyone involved with renewable technology and is held at BAWA centre near Airbus UK, Filton Bristol with easy access by car (M4 and M5) and by train (Parkway station is 10 minutes by taxi).

Programme- subject to change

- 09:00 -09:30** **Registration & Coffee**
- 09:30** **Keynote Presentation**
Dr C. Gamble - Nordic Wind Power
Wind Energy - Growing Pains
- Dr R. Luo** - Trelleborg Industrial AVS
Teeter bearing springs in wind turbines.
- Prof. J. Rosinski** – Transmission Dynamics
Type testing of high power wind turbine gear boxes.
- 11.00 - 11.15** **Coffee/Tea**
- T. Morgan** - E.ON Climate & Renewables
Wind turbine integrity - an owners experience.
- R. Wood** - Dantec Dynamics
NDT and Strain/Deformation measurement technologies for Green Energy Applications
- 12:30 - 13:30** **Lunch**
- 13:30** **Prof. S Noroozi** - University of Bournemouth
Optimizing wind turbine blades performance using smart materials.
- D. Naylor** - Aquamarine Power Ltd
Simply complicated; fatigue design and analysis of bottom hinged wave energy converters.
- B. Candlin** - Zettlex Printed Technologies Ltd
RF Sensors for measurement of displacement or deformation.
- 15.00 - 15.15** **Coffee/Tea**
- Prof. M. R. Ayat** - Iran University of Science & Technology
Effects of Wind and Wave loads on stress intensity factors of a cracked offshore structure.

P. Harper - Bristol University & **A. Fleming** - Aviation Enterprises Ltd
Improved Materials and Design Techniques for Tidal Turbines.

P. Hansen - Merl
Advanced Composite Materials in Wind Turbine Applications

16:45 **Closing Discussion**

17:00 **End**

Presentations may vary. Please check the website for the latest information.

Registration Form (BLOCK CAPITALS PLEASE)

Durability & Fatigue Advances in Wind, Wave and Tidal Energy Tuesday 4, November 2008

TARIFF	EIS member	Non Member
Delegate	£110+VAT	£135+VAT
Students	£30+VAT	£30+VAT
Leaflet Insert in the delegate pack	£50+VAT	£50+VAT
Sponsorship of Event	£250+VAT	£250+VAT
Yearly Personal membership of EIS	£25 (UK)	£30(Overseas)
Life Membership	£200	

Surname Title

First Name

Organisation/Company

Mailing Address

.....

Telephone Facsimile

E-mail

Invoice Address

.....

I enclose a cheque for £payable to The Engineering Integrity Society

Please invoice me using purchase order number(Terms 30 days)

I do not wish to receive future EIS mailings

I require a vegetarian meal

I require a certificate of attendance (attendance will count towards your continued professional development (CPD))

RESERVATIONS TO: **Lisa Mansfield, Engineering Integrity Society**
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