Boundary Elements and other Mesh Reduction Methods XXXIII

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LOCATION

The New Forest is one of the UK's premier tourist destinations. It offers various attractions for visitors all year round including picturesque forest villages as well as beautiful scenery. It is located in Southern England, spreading over 150 square miles of Hampshire. In the New Forest the well-being of the animals and the special needs of the countryside come first. The Forest is unarguably recognised as one of the most unique and important wilderness areas in Western Europe.

CONFERENCE VENUE

Ashurst Lodge is the home of the Wessex Institute and is located in the beautiful New Forest. The Lodge is situated only 10km from the centre of Southampton. It has excellent rail connections with London (100km) and is reasonably close to the two main airports in Britain: Heathrow (90km) and Gatwick (120km).

Ashurst Lodge is an ideal venue for conferences and boasts a newly built conference centre, and an excellent standard of accommodation for visitors. The surroundings are equally attractive to those who enjoy walking, horse riding, cycling, sailing and fine landscapes.

DISPLAY FACILITIES

There will be space for organisations to display products, services and literature related to the theme of the conference. Further details are available from the Conference Secretariat.

BENEFITS OF ATTENDING

- Conference papers are peer-reviewed by members of the International Scientific Advisory Committee and other colleagues. Papers are rapidly processed for publication in **hard-cover** and **digital** book form. The books are available to delegates at registration and are also widely distributed throughout the world by WITPress.
- Papers are also available in **digital format** to the international scientific community through the Wessex Institute eLibrary http://library.witpress.com
- Conference participants will be invited to submit an extended version of their paper to the **International Journal of Engineering Analysis with Boundary Elements** (EABE) associated with WIT.
- Papers presented at Wessex Institute conferences appear regularly in notable reviews, publications and databases.
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INTRODUCTION

The conference on **Boundary** Elements and Mesh Reduction Methods is the recognised international forum for the presentation and discussion of the latest advances in these methods and their applications in science and engineering.

The continuous success of the conference since the first meeting took place in 1978 indicates the strength of the research carried out by different groups around the world. The history of this conference, now in its 33rd annual meeting, traces the evolution of advanced methods since the first successful development of boundary integral techniques into BEM took place to the recent and most sophisticated Mesh Reduction Methods. The objective of the meetings is the further development of technologies that reduce or eliminate the type of meshes required by first generation computational methods such as finite differences and finite elements. The aim is being achieved first through the emergence of BEM as a method that eliminates the need for an internal mesh and more recently through the development of a series of advanced techniques for further mesh reduction approaches culminating in the emergence of meshless methods.

Since 1978 the conference has produced a series of volumes in which all major developments in the field have been represented. This valuable collection has been available in digital form since 1993 when the volumes started to be archived in the eLibrary of the Wessex Institute (http://library.witpress.com) where they can be easily accessed by the international scientific community.

WHO SHOULD ATTEND

The BEM/MRM conference attracts a substantial number of well established and leading researchers in the field. The meetings have always had a special appeal to young researchers and are characterised by a friendly atmosphere in which delegates at different stages of their careers can interact with each other.

Engineers and scientists within the areas of numerical analysis, boundary elements and meshless methods will benefit from attending the meeting.

CONFERENCE TOPICS

- Advanced meshless and mesh reduction methods
- Heat and mass transfer
- Electrical engineering and electromagnetics
- Fluid flow
- Advanced formulations
- Computational techniques
- Advanced structural applications
- Dynamics and vibrations
- Damage mechanics and fracture
- Material characterisation
- Financial engineering applications
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EABE MEETING

The Annual Meeting of the Editorial Board of the International Journal of Engineering Analysis with Boundary Elements and other Mesh Reduction Methods (EABE) will take place during the conference. The Journal has successfully become the main publication not only for Boundary Elements but for many other papers in the important field of mesh reduction techniques.

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SUBMISSION INFORMATION

Papers are invited on the topics outlined and others falling within the scope of the meeting. Abstracts of no more than 300 words should be submitted ***as soon as possible.*** We strongly encourage the submission of abstracts online.

Abstracts should clearly state the purpose, results and conclusions of the work to be described in the final paper. Final acceptance will be based on the full-length paper, which if accepted for publication, must be presented at the conference. To be fair to all participants, each registered delegate will only be able to submit one paper.
The language of the conference will be English.

Journal Submission

Delegates attending BEM / MRM 2011 will be invited to submit an expanded version of their paper for publication in the **International Journal of Engineering Analysis with Boundary Elements (EABE)**, associated with the Wessex Institute of Technology.

OPEN ACCESS

Participants who opt to have their paper permanently and openly accessible in the Wessex Institute eLibrary will receive a USB Flash Drive containing all the papers presented at previous conferences in this series since 1993.

We strongly believe that removing barriers to research published online will greatly aid progress in many scientific and technical disciplines.

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Please submit your abstract with BEM / MRM 2011 in the subject line. Include your name, full address and conference topic.

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Fax or mail a copy of your abstract with the completed Enquiry Form overleaf to the secretariat below.

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BEM / MRM 2011

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In addition the conference papers will be:

- Published by WIT Press in a volume of WIT Transactions on Modelling and Simulation in paper and digital format (ISSN:1746-4064).
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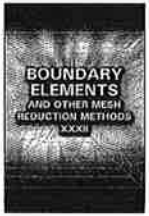

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