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WIT Transactions on the Built Environment
International Journal of Computational
Methods and Experimental Measurements

HPSM 2012 follows the success of the previous five conferences in the series, held in Seville (Spain) in 2002; Ancona (Italy) in 2004; Ostend (Belgium) in 2006; the Algarve (Portugal) in 2008 and Tallinn (Estonia) in 2010. The conference addresses issues involving advanced types of structures, particularly those based on new concepts or new materials. Contributions will highlight the latest developments in design, optimization, manufacturing and experimentation in these areas.

The use of novel materials and new structural concepts nowadays is not restricted to highly technical areas like aerospace, aeronautical applications or the automotive industry, but affects all engineering fields including those such as civil engineering and architecture.

Most high performance structures require the development of a generation of new materials, which can more easily resist a range of external stimuli or react in a non-conventional manner.

Particular emphasis will be placed on intelligent structures and materials as well as the application of computational methods for their modelling, control and management.

The list of topics gives an idea of the wide range of applications to be discussed during the meeting. Contributions on topics not listed are also welcome if they fall within the scope of the conference.

Benefits of Attending

Conference Books Papers are published in paper and digital format and widely distributed throughout the world. Delegates will receive a copy of the book in paper or digital format at the time of registration. Papers are also archived at http://library.witpress.com

Open Access Authors have the option to make their work available in Open Access format for wider dissemination.

Journal Papers Presenters will be invited to submit a paper to one of the six International Scientific Journals edited by the Wessex Institute.

Networking Participants can present their research and interact with experts from around the world, becoming part of a unique community.

The New Forest



Conference Chairmen

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Vrije Universiteit Brussels, Belgium

C A Brebbia

Wessex Institute of Technology, UK

S Hernandez

University of A Coruña, Spain

International Scientific Advisory Committee

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Kanagawa University, Japan

K Tanaka

Doshisha University, Japan

Conference Topics

Composite materials and structures

Lightweight structures

Nanocomposites

High performance concretes

Concrete fibres

Automotive composites

Steel structures

Natural fibre composites

Timber structures

Material characterisation

Experiments and numerical analysis

Damage and fracture mechanics

Computational intelligence

Adaptable and mobile structures

Environmentally friendly structures

Indexing and archiving of conference papers

Papers presented at Wessex Institute conferences are referenced by CrossRef and regularly appear in notable reviews, publications and databases, including referencing and abstract services such as SCOPUS, Compendex, ISI Web of Knowledge, Index to Scientific and Technical Proceedings, ProQuest and Scitech Book News. All conference books are archived in the British Library and American Library of Congress.

- Papers presented at HPSM 2012 will appear in a volume of WIT Transactions on the Built Environment (ISSN: 1746-4498, Digital ISSN 1743-3509).
- WIT Press ensures maximum dissemination of your research throughout the world through its own offices in Europe, the USA and its extensive international distribution network.
- All conference papers are archived online at http://library.witpress.com where they are immediately and permanently available to the international scientific community.



Journal Submission

Delegates attending HPSM 2012 will be invited to submit an extended version of their paper for possible publication in the International Journal of Computational Methods and Experimental Measurements, one of the six edited by the Wessex Institute.



Ashurst Lodge

Location

Spreading over nearly 400 square kilometres of southern England, the New Forest is home to picturesque villages, unspoiled scenery, abundant wildlife and many attractions for visitors. The New Forest was established as a royal hunting ground by the Norman King William I, and 900 years later, the New Forest is still owned by the Crown and is administered by the Forestry Commission. Local commoners still have the right to graze their ponies, cattle and pigs on Forest land where they wander freely. Now a National Park, the forest is unarquably recognised as one of the most unique wilderness areas in western Europe, where many landscapes have remained virtually unchanged for thousands of years.

Conference Venue

Ashurst Lodge is the home of the Wessex Institute and boasts a purpose-built conference centre and a high standard of accommodation for visitors. The Lodge is situated only 10km from the centre of Southampton, with excellent rail connections to London, and is reasonably close to southern England's main airports, including Heathrow (90km) and Gatwick (120km).

Open Access

WIT strongly believes that removing the barrier to research published online will greatly aid progress in all scientific and technical disciplines, as well as all other spheres of knowledge. Many WIT conference and all journal papers are freely available online.

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.

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.

Online submission wessex.ac.uk/hpsm2012

Email submission imoreno@wessex.ac.uk

Submit your abstract with HPSM 2012 in the subject line. Please include your name, full address and conference topic.

Conference Coordinator

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