

BEM/MRM 40



Location

BEM/MRM 40 will be held in the New Forest National Park, which borders the south coast of England and is home to the Wessex Institute. The New Forest is situated in central southern England, 100km from London. Spreading over nearly 400 square kilometres, this National Park 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. Local commoners have the right to graze their ponies, cattle and pigs on forest land where they wander

freely. The Forest is unarguably recognised as one of the most unique wilderness areas in Western Europe, where many landscapes have remained virtually unchanged for many centuries.

Conference Venue

Situated at the heart of the New Forest National Park, the Balmer Lawn Hotel has uniquely designed and decorated rooms. This 4 star hotel has its own restaurant, 3 acres of grounds, squash courts, tennis court, pools, sauna, spa and fitness suite as well as direct access to the New Forest. Only a short walk from the shops, pubs and restaurants of Brockenhurst village and Brockenhurst train station, the hotel is easily accessible.

Submission Information

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.

The language of the conference will be English.

Online submission:

www.witconferences.com/bim2017

Conference Secretariat

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For more information visit: www.witconferences.com/bem40

40th International Conference on Boundary Elements and other Mesh

Reduction Methods

12 – 14 September 2017

New Forest, UK

Organised by

Wessex Institute, UK
University of Mississippi, USA

Sponsored by

WIT Transactions on Engineering Sciences
International Journal of Computational Methods and
Experimental Measurements

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CALL FOR PAPERS

WIT
CONFERENCES

The annual conference on Boundary Elements and other Mesh Reduction Methods (BEM/MRM) started in 1978 and is now in its 40th version. It is well established as the recognised international forum for the latest advances in those techniques and their application in science and engineering.

The objective of the research papers presented at the meetings is the further development of techniques that reduce or eliminate the type of meshes required by first generation computational methods, such as finite differences or finite elements.

This has steadily been achieved through the development of BEM as a computational tool and continues through more recent research into advanced techniques. The meeting also encourages the presentation of papers on the use of BEM and, in particular, the description of new applications. Problems related to interface

with other techniques, processes such as finite elements, the solution of large systems of equations and the direct coupling of BEM to design and manufacturing are also welcome.

All the meetings since 1978 have produced a series of edited volumes in which the major developments in the field have been presented. This valuable collection has been in digital form since 1993 with the papers available Open Access in the Wessex Institute's eLibrary website (<http://www.witpress.com/elibrary>) where they can be easily accessed and downloaded.

Benefits of Attending

Publication of Papers: Papers are to be published by WIT press in a Volume of WIT Transactions. Selected papers will appear in the International Journal of Computational Methods and Experimental Measurements (ISSN: 2046-0546 Digital ISSN: 2046-0554). Abstracts and papers will be reviewed by members of the Committee and other experts.

Open Access: WIT Press is an advocate of Open Access which offers maximum dissemination of your work. WIT Transactions and Journal papers can be downloaded for free (www.witpress.com/elibrary).

Indexing and Archiving: Papers presented at Wessex Institute conferences are referenced by CrossRef and have appeared in notable reviews and databases. Papers are submitted to various indexing services such as Thomson Reuters Web of Science, Google Scholar, Scopus and ProQuest. All conference books are listed in the British Library and American Library of Congress.

Digital Archive: All conference papers are archived online in the WIT eLibrary (www.witpress.com/elibrary) where they are permanently available to the international community.

Conference Topics

The following list covers some of the topics to be presented at BEM/MRM 40. Papers on other subjects related to the objectives of the conference are also welcome.

Advanced formulations

Advanced meshless and mesh reduction methods

Structural mechanics applications

Solid mechanics

Heat and mass transfer

Electrical engineering and electromagnetics

Computational methods

Fluid flow modelling

Damage mechanics and fracture

Dynamics and vibrations

Engineering applications

Interfacing with other methods

Coupling with design and manufacturing

Solution of large systems of equations

Conference Chairmen

C A Brebbia
Wessex Institute, UK

International Scientific Advisory Committee

D E Beskos
University of Patras, Greece

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University of Science and Technology of China, China

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Taiwan Ocean University, Taiwan

W Chen
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The Schmidt Institute of Physics of the Earth, Russia

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Dalian University of Technology, China

L Godinho
University of Coimbra, Portugal

B Y C Hon
City University of Hong Kong, Hong Kong

E Kansa
Convergent Solutions, USA

A Karageorghis
University of Cyprus, Cyprus

A Kassab
University of Central Florida, USA

J Katsikadelis
National Technical University of Athens, Greece

V Leitão
University of Lisbon, Portugal

E Leonel
University of São Paulo, Brazil

D Lesnic
University of Leeds, UK

L Ling
Hong Kong Baptist University, Hong Kong

G Manolis
Aristotle University of Thessaloniki, Greece

L Marin
University of Bucharest, Romania

T Matsumoto
Nagoya University, Japan

A Nowak
Silesian University of Technology, Poland

J B Paiva
University of São Paulo, Brazil

L Palermo Jr
University of Campinas, Brazil

E Pan
University of Akron, USA

D Poljak
University of Split, Croatia

J Ravnik
University of Maribor, Slovenia

J Rencis
Tennessee Tech University, USA

T Rudolphi
Iowa State University, USA

M Schanz
Graz University of Technology, Austria

L Skerget
University of Maribor, Slovenia

V Sladek
Slovak Academy of Sciences, Slovakia

E Strelnikova
National Academy of Sciences of Ukraine, Ukraine

S Syngellakis
Wessex Institute, UK

A Tadeu
UC-ITeCons, Portugal

T Tran-Cong
University of Southern Queensland, Australia

J Trevelyan
University of Durham, UK

V Popov
Ascend Technologies Ltd, UK

O von Estorff
Hamburg-Harburg University of Technology, Germany

P H Wen
Queen Mary University of London, UK

L Wrobel
Brunel University, UK

T Wu
University of Kentucky, USA

J Zhang
Hunan University, China

M Zhao
Zhengzhou University, China