19th International Conference on Computational Methods and Experimental Measurements

3 – 5 June 2019 | Seville, Spain

Organised by
Wessex Institute, UK
University of Naples “Federico II”, Italy

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

www.witconferences.com/cmem2019
CMEM 2019 is the 19th International Conference in this well established series on Computational Methods and Experimental Measurements. These successful meetings provide a unique forum for the review of the latest work on the interaction between computational methods and experiments.

This series of conferences started in Washington DC (1981) followed by a meeting on board the Queen Elizabeth II Ocean Liner (1984); Porto Carras, Greece (1986); Capri (1988); Montreal (1991); Siena (1993); Capri (1995); Rhodes (1997); Sorrento (1999); Alicante (2001); Sani Beach, Greece (2003); Malta (2005); Prague (2007); the Algarve (2009), the New Forest, home of the Wessex Institute, UK (2011), A Coruña, Spain (2013), Opatija, Croatia (2015) and Alicante, Spain (2017).

The principal objective of the conference has always been to provide to the international technical and scientific community, an opportunity to discuss the interaction between experimental measurements and computational methods with all associated topics. Foremost consideration and importance are devoted to their reciprocal and advantageous integration.

The conference aims to address a wide variety of topics related to experimental and computational methods with emphasis on new applications and the latest developments.

### Conference Chairmen

**P de Wilde**  
Free University of Brussels, Belgium  
*Member of WIT Board of Directors*

**G M Carlomagno**  
University of Naples “Federico II”, Italy

### International Scientific Advisory Committee

**R Cerny**  
Czech Technical University in Prague, Czech Republic

**K El Khamlichi Drissi**  
University of Clermont Auvergne, France

**J Everett**  
The University of Clermont Auvergne, France

**M Goto**  
Oita University, Japan

**M Hadfield**  
Bournemouth University, UK

**H Horii**  
Kokushikan University, Japan

**S Ivorra**  
University of Alicante, Spain

**Y Jaluria**  
Rutgers University, USA

**I Kotchergenko**  
Kotchergenko Engenharia Ltda (Rtd), Brazil

**G Manos**  
Aristotle University, Greece

**E Menga**  
Airbus Operations SL, Spain

**D Poljak**  
University of Split, Croatia

**H Sakamoto**  
Doshisha University, Japan

**S Syngellakis**  
Wessex Institute, UK

**Y Villacampa**  
University of Alicante, Spain

**B Wang**  
Research Institute of Physical and Chemical Engineering of Nuclear Industry, China

**G Zappala**  
National Research Council, Italy

**V Zhmud**  
Novosibirsk State Technical University, Russia
Benefits of Attending


Reviews Abstracts and papers are reviewed by members of the International Scientific Advisory Committee and other experts.

Open Access WIT Press is an advocate of Open Access which offers maximum dissemination of your work. All WIT Transactions and Journal papers can be downloaded for free of charge from the WIT eLibrary (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 Web of Science, Google Scholar and Scopus. All conference books are listed in the British Library and American Library of Congress.

Conference Proceedings At registration delegates will be given copies of the papers presented at the Conference on a USB Flash drive. Following the Conference, delegates will receive an electronic copy of the final publication in which their paper has been published.

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

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

Reduced Fee for PhD Students The Wessex Institute believes in the importance of encouraging PhD students to present and publish innovative research at its conferences. As a result, the Institute offers PhD students a much reduced conference fee.

Conference Topics

The following list covers the topics to be presented at the meeting. Papers on other subjects related to the objectives of the conference are also welcome.

Computational and experimental methods
Fluid flow
Structural and stress analysis
Materials characterization
Electromagnetic problems
Structural integrity
Destructive and non-destructive testing
Heat transfer and thermal processes
Advances in computational methods
Automotive applications
Aerospace applications
Other applications in industry
Ocean engineering and marine structures
Fluid structure interaction
Bio-electromagnetics
Hybrid methods
Process simulations
Environmental monitoring, modelling and applications
Computer modelling
Validation of computer modelling
Data and signal processing
Virtual testing and verification
Simulation and forecasting
Measurements in engineering

Conference Topics

The following list covers the topics to be presented at the meeting. Papers on other subjects related to the objectives of the conference are also welcome.

Computational and experimental methods
Fluid flow
Structural and stress analysis
Materials characterization
Electromagnetic problems
Structural integrity
Destructive and non-destructive testing
Heat transfer and thermal processes
Advances in computational methods
Automotive applications
Aerospace applications
Other applications in industry
Ocean engineering and marine structures
Fluid structure interaction
Bio-electromagnetics
Hybrid methods
Process simulations
Environmental monitoring, modelling and applications
Computer modelling
Validation of computer modelling
Data and signal processing
Virtual testing and verification
Simulation and forecasting
Measurements in engineering
Location

Seville is the capital of the Andalusia region and is situated on the river Guadalquivir. The city is more than 2,200 years old and has a distinct personality and a large and well-preserved historical centre. The old town contains three world heritage sites: the Minaret of La Giralda, the General Archive of the Indies and the Alcázar Palace. The city is also home to many convents, churches, palaces, museums and gardens including the Museum of Fine Arts, Parque de María Luisa and the Gothic Cathedral which is the site of Christopher Columbus’s tomb. It is believed that flamenco originated in Seville, and there are many flamenco shows on offer all over the city, as well as the museum dedicated to the art.

Conference Venue

The conference will take place at the Hotel Meliá Sevilla, located in the heart of Seville and situated in a privileged location opposite the Parque de María Luisa and Plaza España. The hotel has good transport links by bus, tram and train. The hotel also has an outdoor pool and fitness area.

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/cmem2019

Conference Secretariat
Irene Moreno Millan
imoreno@wessex.ac.uk

Wessex Institute
Ashurst Lodge, Ashurst
Southampton, SO40 7AA, UK
Tel: +44 (0) 238 029 3223
Fax: +44 (0) 238 029 2853

For more information visit: www.witconferences.com/cmem2019