



**CALL FOR PAPERS**

**Third International  
Conference on**

# **Tribology and Design 2010**

**11 - 13 May 2010  
Algarve,  
Portugal**

**ORGANISED BY:** Wessex Institute of Technology, UK  
University of Bournemouth, UK  
University of Porto, Portugal

**SPONSORED BY:**  
WIT Transactions on  
Engineering Sciences



**WESSEX INSTITUTE OF TECHNOLOGY**  
*Advancing International Knowledge Transfer*  
[www.wessex.ac.uk](http://www.wessex.ac.uk)



## INTRODUCTION

Tribology and Design 2010 is the third International Conference in the series which originated with two meetings held at Bournemouth University, UK in 2005 and 2007. The main objective of these meetings is to provide a forum for discussion among scientists, academics and professionals working in different aspects of tribology.

The Tribology and Design Conference explores the role of technology and design in the broader sense. It aims to bring together colleagues from different disciplines interested in problems of surface interaction and design. The range of applications includes geomechanics to nano problems and from sustainability issues to advanced materials. It has never been so important for the designer to consider product and system durability in relation to reliability and sustainability issues. The topics for discussion also cover studies of tribology in nature and how the resulting lessons can be applied by the designers. Another important theme is the application of tribology in biomechanics, a field in which surface mechanics in general is of fundamental importance.

Tribology problems are essentially interdisciplinary. Engineers and scientists working in this field must be familiar with a wide range of issues, including surface mechanics, material characterisation, chemical and biological processes, computer simulation, measurements and many others. The aim of Tribology and Design 2010 is to facilitate knowledge exchange between scientists from different disciplines and from all over the world.

## CONFERENCE TOPICS

- Tribology in space applications
- Reliability in product design
- Nano-tribology and design
- Tribology under extreme conditions
- Tribology in geo-mechanics
- Energy applications
- Surface measurements
- Tribology in biomechanics
- Life-oriented design
- Tribology and nature
- Design tools
- Surface engineering
- Lubricant design
- Test methods
- Advanced materials
- Analytical studies
- Sustainability and tribology
- Product reliability
- Corrosion problems

Please pass these details on to other interested colleagues

## CONFERENCE CHAIRMEN

**M Hadfield**, *University of Bournemouth, UK*

**C A Brebbia**, *Wessex Institute of Technology, UK*

**J Seabra**, *University of Porto, Portugal*

## INTERNATIONAL SCIENTIFIC ADVISORY COMMITTEE

**R Ahmed**, *Heriot-Watt University, UK*

**L Andrade Ferreira**, *Universidade do Porto, Portugal*

**A Cavaleiro**, *Universidade de Coimbra, Portugal*

**C Ciantar**, *Ministry for the Environment, Malta*

**R Cundill**, *SKF, UK*

**T Dettmer**, *Technical University Braunschweig, Germany*

**H P Evans**, *University of Cardiff, UK*

**I S Jawahir**, *University of Kentucky, USA*

**Z Khan**, *University of Bournemouth, UK*

**P Kral**, *Technische Universität Wien, Austria*

**A Ramalho**, *Universidade de Coimbra, Portugal*

**T Raparelli**, *Politecnico di Torino, Italy*

**K Sato**, *Chiba University, Japan*

**S Tobe**, *Ashikaga Institute of Technology, Japan*

**F Ville**, *INSA de Lyon, France*

**J Vizintin**, *University of Ljubljana, Slovenia*

**J Williams**, *Cambridge University, UK*

## 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 book form** and distributed to delegates at registration.
- Papers are also published in **electronic format**, and made available to the international scientific community through the Wessex Institute eLibrary <http://library.witpress.com>
- Papers presented at Wessex Institute Conferences appear regularly in notable reviews, publications and databases.
- The opportunity to present your research within a unique forum and collaborate with experts from around the world.

## Journal Submission

Delegates attending Tribology and Design 2010 will be invited to submit an expanded version of their paper for publication in one of; the **Journal of Advances in Engineering Software** or the **Journal of Engineering Analysis with Boundary Elements**, associated with the Wessex Institute of Technology.

## 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.*

### CONFERENCE SECRETARIAT

**Irene Moreno Millan  
Conference Secretariat  
Tribology and Design 2010**

WESSEX INSTITUTE OF TECHNOLOGY

Ashurst Lodge, Ashurst  
Southampton, SO40 7AA, UK

Tel: + 44 (0) 238 029 3223

Fax: + 44 (0) 238 029 2853

Email: [imoreno@wessex.ac.uk](mailto:imoreno@wessex.ac.uk)

#### Email Submission

**Email:** [imoreno@wessex.ac.uk](mailto:imoreno@wessex.ac.uk)

Please submit your abstract with Tribology and Design 2010 in the subject line. Include your name, full address and conference topic.

#### Web Submission

[www.wessex.ac.uk/tribology2010](http://www.wessex.ac.uk/tribology2010)

#### Fax Submission

**Fax:** 44 (0) 238 029 2853

Fax one copy of your abstract with the completed Enquiry Form overleaf.

#### Mail Submission

**Mail:** Please mail a copy of your abstract with the completed Enquiry Form to the Conference Secretariat on the left.

### OPEN ACCESS

WIT Press is committed to Open Access. We strongly believe that removing barriers to research published online will greatly aid progress in many scientific and technical disciplines.

### INDEXING AND ARCHIVING OF 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 – Scopus, Compendex, ISI Web of Knowledge, Index to Scientific & Technical Proceedings, ProQuest and Scitech Book News. All conference books are archived in the British Library and American Library of Congress.

In addition the Conference papers will be:

- Published by WIT Press in a volume of WIT Transactions on Engineering Sciences (ISSN:1743-3533).
- Available to conference delegates at the time of registration as a hardcover volume.
- Promoted directly to researchers and institutional libraries.
- Distributed widely through the international book trade.
- Archived online in the Transactions of the Wessex Institute Collection, which provides the international scientific community with immediate and permanent access to individual papers.

*WIT Press is committed to offering authors the option to make their work freely accessible to colleagues through their Open Access service.*

**View the Transactions of the Wessex Institute Collection at:**  
<http://library.witpress.com>



**For more information visit: [www.wessex.ac.uk/tribology2010](http://www.wessex.ac.uk/tribology2010)**

*Advancing International Knowledge Transfer*

## LOCATION

The Algarve is located at the extreme west of Europe in the south of Portugal, bordering Spain and the Atlantic Ocean. It covers 4,989 km<sup>2</sup>, including 200km of coastline. The Algarve is one of the most visited regions in the country with its spectacular golden beaches, dramatic coastline and rugged cliff faces. There are scattered remains of Roman palaces, many Moorish influences as well as little white-washed fishing villages, which are dotted along the coastline. The sunny climate makes it an ideal holiday destination and with its high quality golf courses, tourism has become a flourishing industry.



## 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.

## CONFERENCE VENUE

The conference will be held at the Hotel Tivoli Carvoeiro, which is situated close to the picturesque village of Carvoeiro, only a short drive from Faro Airport. The hotel commands spectacular views of the striking Algarve coastline and picturesque caves, and has a range of leisure facilities situated within the hotel's attractive grounds.

## WESSEX INSTITUTE OF TECHNOLOGY



The Wessex Institute of Technology (WIT) is an International Centre for Knowledge Transfer that fosters a number of key programmes within the research community.

The excellent reputation of the WIT Conference Programme held in different parts of the world continues to grow. This is just one of the initiatives offered by the Institute. Other activities include:

- Graduate Programmes at Master and PhD level.
- Advanced research.
- Publications, including books and journals.
- E-Publishing comprising the Transactions and other journals of Wessex Institute.
- Services to industry.

**FOR FURTHER INFORMATION VISIT**  
**[www.wessex.ac.uk](http://www.wessex.ac.uk)**

## ENQUIRY FORM

**Tribology and Design 2010**  
**11 - 13 May 2010, Algarve, Portugal**



Title (Prof/Dr/Mr/Mrs/Ms) .....  
Initials ..... Surname .....  
Organisation .....  
Address .....  
.....  
.....  
Postcode/Zip .....  
Country .....  
Telephone .....  
Fax .....  
Email .....

### Please indicate your intention below:

- ☐ I intend to submit a paper and present it.  
Proposed Title .....  
.....  
Topic.....  
☐ I intend to participate in the conference, but will not be submitting a paper.  
☐ I am interested in renting display space

*By completing this form, we understand that you are agreeable to receiving further information on this event and other activities which we believe will interest you. We will not disclose this information to third parties. Wherever possible information about this conference will be sent to you by email.*