

ABSTRACTS AND PROCEEDINGS

Participants of 1st SYSWIND Workshop and the DAMAS 2013 are kindly invited to submit one-page abstract with the following information:

1. The title of the paper;
2. The name(s) of the author(s) with full contact information (including emails);
3. A short description (max 250 words) of the proposed paper;
4. A list of keywords (up to four, indicating principal topics).

For abstract and paper submission please visit the official conference website <http://www.damas2013.org>
Full papers accepted to DAMAS 2013 will be published in a Special Issue of the Journal of Key Engineering Materials. Further information on paper format will be available in due course.

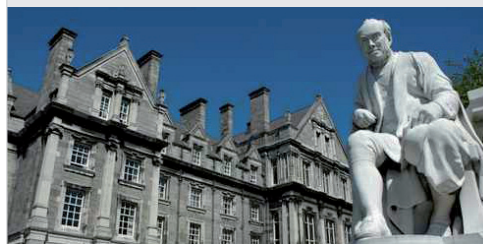
KEY DATES

Abstract Submission Deadline: 15 October 2012
 Notification to Authors: 31 October 2012
 Full Paper Submission Deadline: 14 February 2013
 Referees Comments on Papers: 28 February 2013
 Deadline Revised Papers and Copyright Forms: 15 March 2013
 Notification of Acceptance to Authors: 31 March 2013

Early-bird Registration Deadline: 15 March 2013

1st SYSWIND WORKSHOP / DAMAS 2013 SECRETARIAT:

Department of Civil, Structural & Environmental Engineering,
 Museum Building, Trinity College, Dublin 2, Ireland
 Telephone: +353 1 896 1457, Fax: +353 1 6773072



SPONSORSHIP AND EXHIBITIONS

Professor Biswajit Basu, Email: basub@tcd.ie
 Telephone: +353 1 896 2389

SPECIAL SESSIONS

Please contact the conference chair for proposals on special sessions and mini-symposia.

ORGANISING COMMITTEE

Prof. Biswajit Basu Trinity College Dublin, Ireland
 (Conference Chair)
 Prof. Huajiang Ouyang University of Liverpool, UK
 Prof. Fulei Chu Tsinghua University, China
 Prof. Luigi Garibaldi Politecnico di Torino, Italy
 Prof. Wiselaw Ostachowicz Polish Academy of Science, Poland

1st SYSWIND Workshop on Health Monitoring of Wind Turbines and Renewable Energy Systems

8 – 10 July 2013
 Trinity College Dublin



[www.syswind.eu/
workshop2013](http://www.syswind.eu/workshop2013)

1st SYSWIND WORKSHOP ON HEALTH MONITORING OF WIND TURBINES AND RENEWABLE ENERGY SYSTEMS

While focusing on current research related to renewable energy sources, with a particular emphasis on wind turbine engineering, the SYSWIND workshop brings together academic researchers and industry representatives to discuss the state-of-art knowledge and technologies in the renewable energy sector.



Contributions are invited for the following topics:

- System identification
- Structural health monitoring
- Structural control
- Wireless Sensor Network
- Damage detection
- Tower and structural vibrations
- Composite materials
- Foundations
- Aerodynamics
- Computational fluid dynamics
- Monitoring of drive-train, gear box and generators
- Mechano-electrical coupling
- Wave energy
- Converters
- Offshore structures
- Wind energy economics

JOINTLY HELD WITH THE 1st SYSWIND WORKSHOP IS THE DAMAS CONFERENCE 2013

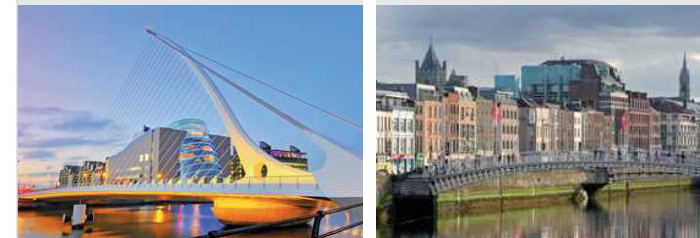
This is the tenth in a series of biennial international conferences, which aim to bring together the expertise of scientists and engineers in academia and industry in the field of damage assessment, structural health monitoring and non-destructive evaluation.

INTERNATIONAL SCIENTIFIC COMMITTEE (under formation)

- F Aymerich, University of Cagliari, Italy
- J Barton, University of Southampton, UK
- B Basu, Trinity College Dublin, Ireland
- F Chu, Tsinghua University, China
- S Fassois, Patras University, Greece
- M Friswell, University of Swansea, UK
- L Garibaldi, Politecnico di Torino, Italy
- A Ghosh, Bengal Engineering and Science University, India
- M Gilchrist, University College Dublin, Ireland
- A Guemes, Universidad Politecnica de Madrid, Spain
- K Holford, University of Cardiff, UK
- C McGoldrick, Trinity College Dublin, Ireland
- S Nagarajaiah, Rice University, USA
- S R K Nielsen, Aalborg University, Denmark
- H Ouyang, University of Liverpool, UK
- B J Pedersen, LAC Engineering, Denmark
- B Samali, University of Technology Sydney, Australia
- J J Sinou, Ecole Centrale de Lyon, France
- N N Sørensen, Risø DTU, Denmark
- W Staszewski, AGH University of Science and Technology, Poland
- C Surace, Politecnico di Torino, Italy
- K Worden, University of Sheffield, UK
- X Zhu, University of Western Sidney, Australia

THE CONFERENCE LOCATION

Dublin is the primate and capital city of Ireland. It is a historical and contemporary cultural centre for the island of Ireland as well as a modern centre of education, the arts, administrative function, economy and industry.



There is a vibrant nightlife in Dublin, which is reputedly one of the most youthful cities in Europe. In 2007, and again in 2009, Dublin was voted the friendliest city in Europe. The area around St. Stephen's Green, especially Harcourt Street, Camden Street, Wexford Street and Leeson Street, is a centre for some of the most popular nightclubs and pubs in Dublin.

The conference and workshop will be held in the [Trinity College Dublin \(www.tcd.ie\)](http://www.tcd.ie) located right in the hearth of Dublin with several recommended hotels nearby. Dublin Airport is only 15km from the conference venue and it is very well served with regular, direct flights from many cities and most European capitals.

For more information about Dublin visit:
www.visitdublin.com