

International Journal of Design & Nature and Ecodynamics

The International Journal of Design & Nature and Ecodynamics opens new avenues for understanding the relationship between arts and sciences. The objective of the Journal is to encourage and facilitate inter-disciplinary communication between scientists in different disciplines, as well as other professionals in academia, research institutions or industry, working on a variety of studies involving nature and its significance to modern scientific thought and design.



International Journal of Sustainable Development and Planning

The aim of this Journal is to inform its readers about all aspects of environmental planning and management. The Journal includes subjects ranging from social to technical environmental management and focuses on the concepts of sustainable planning and development.

Conference presenters are encouraged to submit an extended version of their paper for publication in any of the two Journals mentioned above.

For further information, contact:
carlos@wessex.ac.uk



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 The Sustainable City 2012 will appear in a volume of **WIT Transactions on Ecology and the Environment** (ISSN: 1746-448X, Digital ISSN 1743-3541).
- 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 The Sustainable City 2012 will be invited to submit an extended version of their paper for possible publication in the International Journal of Sustainable Development and Planning or the International Journal of Design & Nature and Ecodynamics, two of the six edited by the Wessex Institute.



Location

Sheltered by the hills of Monte Conero, Astago and Guasco, the port city of Ancona lies midway along the western Mediterranean coast of Italy. Founded by the Greeks more than two thousand years ago, the city retains a huge Roman archway, the Arch of Trajan, at the entrance to the main harbour. Ancona's cathedral, which offers excellent coastal views from its position atop Monte Guasco, is built on the visible remains of a Roman Temple, and the nearby Archaeological Museum of La Marche region describes in detail the city's illustrious past. Elsewhere, the city is home to several renaissance Palazzos and churches, a renowned 19th century opera house, with sandy beaches and a Natural Park only a short distance away.

Conference Venue

Located in the lush, green Conero Natural Park and only a short distance from the port city of Ancona, the Hotel Excelsior La Fonte offers a range of rooms and facilities close to the beaches of Portonovo. The hotel is set in landscaped gardens, complete with many terraces, an outdoor pool and two restaurants offering outdoor dining. The 2012 Prigogine Award Ceremony will take place in the Aula Magna of the Marche Polytechnic University.

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.

The language of the conference will be English.

Online submission
wessex.ac.uk/city2012

Email submission
imoreno@wessex.ac.uk

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

Conference Coordinator

Irene Moreno Millan
imoreno@wessex.ac.uk

Wessex Institute of Technology
Ashurst Lodge, Ashurst
Southampton, SO40 7AA, UK

Tel: +44 (0) 238 029 3223
Fax: +44 (0) 238 029 2853

For more information visit:
wessex.ac.uk/city2012



SUSTAINABLE CITY 2012



7th International Conference on Urban Regeneration and Sustainability

7 – 9 May, 2012
Ancona, Italy

Incorporating:
The Prigogine Medal Award 2012

 **WESSEX INSTITUTE
OF TECHNOLOGY**

Advancing International Knowledge Transfer

wessex.ac.uk/city2012

Organised by:

Wessex Institute of Technology, UK
Marche Polytechnic University, Italy

Sponsored by:

International Journal of
Design & Nature and Ecodynamics
International Journal of
Sustainable Development and Planning
WIT Transactions on Ecology
and the Environment

This conference aims to address the many inter-related aspects of the urban environment from transport and mobility to social exclusion and crime prevention. The meeting will build on the contributions made in previous conferences, which successfully managed to provide an international view of the problems facing modern cities and their solutions.

Urban areas produce a series of environmental challenges arising from the consumption of natural resources and the consequent generation of waste and pollution, contributing to the development of social and economic imbalances. All these problems, that continue to grow in our society, require the development of new solutions.

The Sustainable City 2012 follows six very **Benefits of Attending**

Conference Books Papers are published in paper and digital format and widely distributed throughout the world. Delegates 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.

Conference Topics

Planning, development and management
The community and the city
Urban strategies
Landscape planning and design
Urbanization of rural areas
Architectural issues
Cultural heritage issues
Waste management
Case studies
Environmental management
Sustainable energy and the city
Transportation

Intelligent environments and emerging technologies
Urban metabolism
Waterfront developments
Planning for risk
Quality of life
Infrastructures and social services
Sustainable urban tourism
Vernacular architecture
Planning for natural hazards

successful meetings held in Rio (2000), Segovia (2002), Siena (2004), Tallinn (2006), Skiathos (2008) and A Coruña (2010). The conferences attracted a large number of contributions from participants from different backgrounds and countries. The variety of topics and experiences is one of the main reasons behind the success of the series.

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 Prigogine Award 2012

For the ninth year running, a special medal is being awarded by the University of Siena and the Wessex Institute of Technology in honour of the late Professor Prigogine's Nobel Prize in Chemistry. The medal features the name of Prigogine and the symbol for bifurcation, to represent his distinctive work on ecodynamics.

The 2012 award ceremony will be held during The Sustainable City 2012.

The Prigogine Medal was instituted in 2004 by the University of Siena and the Wessex Institute of Technology to honour the memory of Prof Ilya Prigogine, Nobel Prize Winner for Chemistry for his contribution to non-equilibrium thermodynamics, particularly the theory of dissipative structures. The main theme of his scientific work was the rule of time in the physical sciences and biology. The results of his work have had profound consequences for understanding biological and ecological systems.

Prigogine's ideas established the basis for ecological systems' research. The Medal is given annually to a leading scientist in the field of Ecological Systems.

The recipients of the Medals are Sven Jorgensen, 2004; Enzo Tiezzi, 2005; Bernard Patten, 2006; Robert Ulanowicz, 2007; Ioannis Antoniou, 2008; Emilio del Giudice, 2009 and Felix Müller, 2010. Larissa Brizhik has been nominated for the 2011 award.



Professor Ilya Prigogine

2012 Prigogine Medal

The medal will be awarded to a senior researcher, selected in advance by the Committee and invited to give the Keynote Address at the conference.

For more information, please contact:

Prof. Carlos A Brebbia
Nominations for the Prigogine Award
Wessex Institute of Technology
Ashurst Lodge, Ashurst
Southampton
SO40 7AA, UK

Tel: +44 (0) 238 029 3223
Fax: +44 (0) 238 029 2853
Email: carlos@wessex.ac.uk

Previous Ceremonies

Visit the web pages below for information on the most recent Prigogine Award Ceremonies:

The Sustainable City 2008

Skiathos, Greece
wessex.ac.uk/08-conferences/the-sustainable-city-2008.html

ECOSUD 2009

Chianciano Terme, Italy
wessex.ac.uk/09-conferences/ecosud-2009.html

The Sustainable City 2010

A Coruña, Spain
wessex.ac.uk/10-conferences/the-sustainable-city-2010.html



2010 Medal Ceremony in A Coruña

Professor Patrick De Wilde of the Free University of Brussels; Professor Carlos Brebbia of the Wessex Institute of Technology; Dr Obdulia Taboadela, Deputy Mayor of A Coruña; Professor Felix Müller of the University of Kiel (Prigogine Medal recipient 2010); Professor Santiago Hernandez of the University of A Coruña and Professor Riccardo Pulselli of the University of Siena.

Honorary Chairman

Professor Marco Pacetti
Rector, Marche Polytechnic University, Italy

Conference Chairmen

G Passerini
Marche Polytechnic University, Italy

C A Brebbia
Wessex Institute of Technology, UK

G Latini
Marche Polytechnic University, Italy

International Scientific Advisory Committee

M Ali
University of Illinois, USA

R Barelkowski
Polish Academy of Sciences, Poland

S Basbas
Aristotle University of Thessaloniki, Greece

A Bejan
Duke University, USA

D Bogunovich
Unitec Institute of Technology, New Zealand

R Fistola
University of Sannio, Italy

A Furman
Ryerson University, Canada

K Galal-Ahmed
UAE University, United Arab Emirates

G Genon
Politecnico di Torino, Italy

S Hernandez
University of A Coruña, Spain

A Kocabas
Mimar Sinan Fine Arts University, Turkey

N Marchettini
University of Siena, Italy

G Taha Mohammed
University of Sheffield, UK

N Moraes
Energy Research Company, Brazil

R Pulselli
University of Siena, Italy

N Quaranta
National Technological University, Argentina

R Rojas-Caldelas
Autonomous University of Baja California, Mexico

Prigogine Medal Committee

Sven Jorgensen
Pharmaceutical University of Denmark, Denmark

Bernard Patten
University of Georgia, USA

Robert Ulanowicz
University of Maryland, USA

Ioannis Antoniou
Aristotle University of Technology, Greece

Emilio del Giudice
National Institute of Nuclear Physics, Milan, Italy

Felix Müller
University of Kiel, Germany

