

International Journal of Design & Nature and Ecodynamics

**A transdisciplinary journal relating nature,
science and the humanities**

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.

For more information, please see
<http://journals.witpress.com/jdne.asp>

Journal Submission

Authors attending Energy and Sustainability 2013 will be invited to submit an extended version of their paper for possible publication in the International Journal of Sustainable Development and Planning, one of the Journals edited by the Wessex Institute.



Location

The Romanian capital of Bucharest was founded during the medieval period on the banks of the Dambovitza River, close to a number of natural lakes which are now part of the city. Whilst some of Bucharest's historic quarters were lost during the country's more turbulent past, the city has a wealth of stunning 18th and 19th century buildings and palaces as well as more recent impressive modern architectural additions. The Palace of the Parliament, constructed during the 1980's, dominates the city skyline with its classical design and is the largest building in Europe, housing galleries and offices as well as the Romanian Parliament. Amongst these landmarks, Bucharest has many parks and gardens, theatres and museums which attract visitors year-round to the city.

Conference Venue

The conference will take place at the Intercontinental Hotel in Bucharest, situated in the heart of the city and within easy reach of most major landmarks and transport links. As well as a spa, fitness centre and well-appointed guest rooms, the hotel has two à la carte restaurants and attractive bars.

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. Most 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/energy2013

Email submission

gwest@wessex.ac.uk

Submit your abstract with Energy and Sustainability 2013 in the subject line.

Please include your name, full address and conference topic.

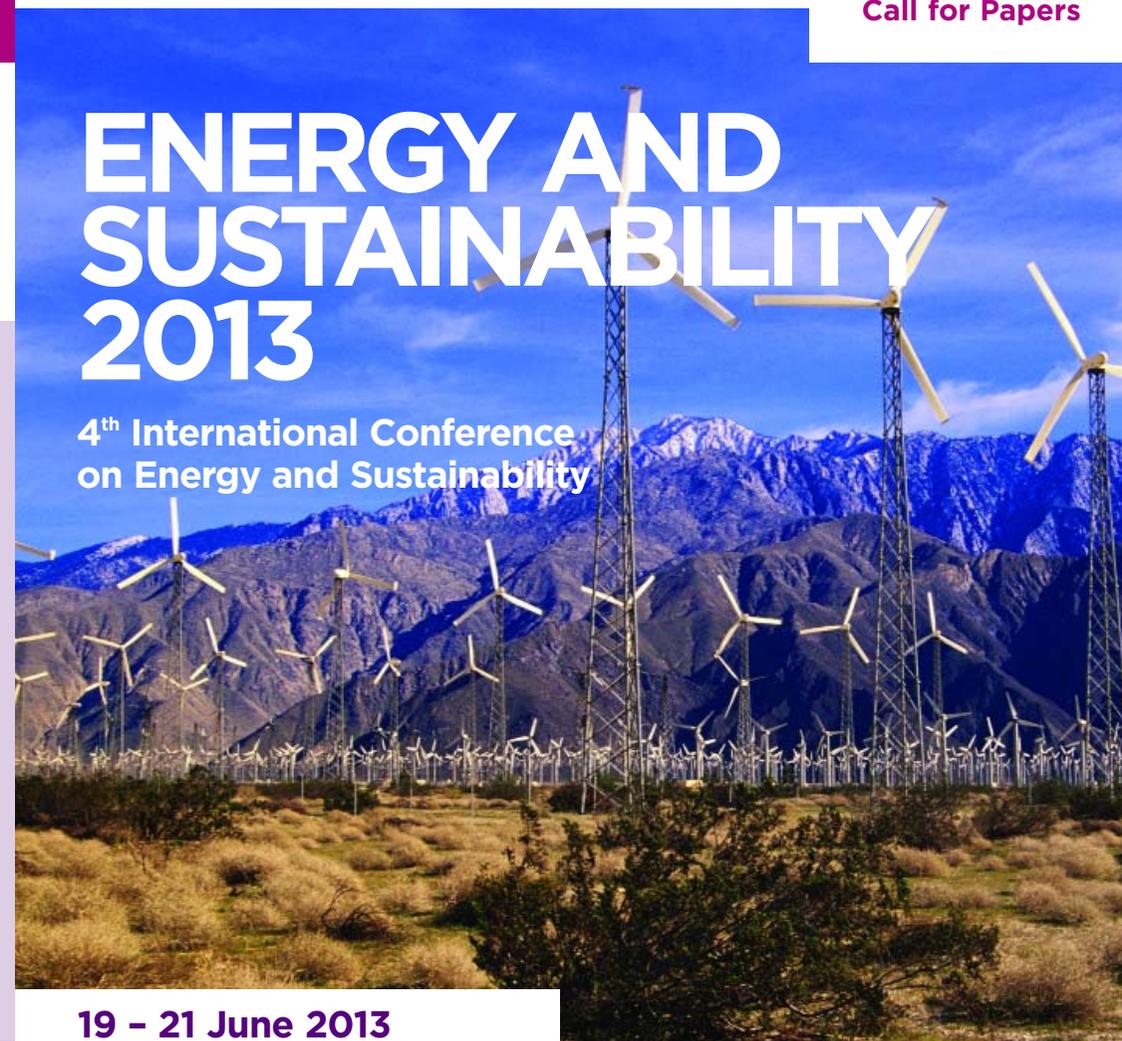
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For more information visit:
wessex.ac.uk/energy2013



ENERGY AND SUSTAINABILITY 2013

4th International Conference on Energy and Sustainability

19 – 21 June 2013
Bucharest, Romania

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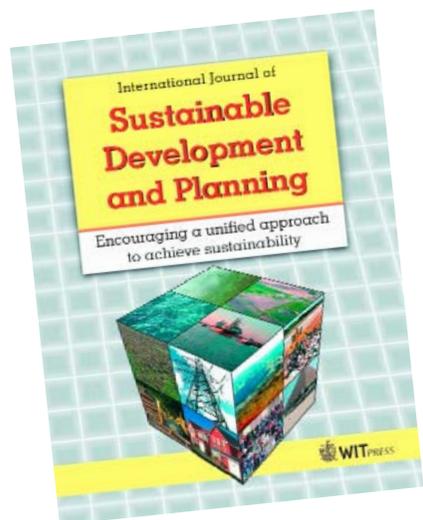
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WIT Transactions on Ecology
and the Environment
International Journal of Sustainable
Development and Planning



International Journal of Sustainable Development and Planning

**Encouraging a unified approach
to achieve sustainability**

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.

For more information, please see
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Energy and Sustainability 2013 is the fourth International Conference in this series, following the success of the first meeting held at the Wessex Institute of Technology in the New Forest, UK (2007); the second in Bologna, Italy (2009) and the third in Alicante, Spain (2011).

The world's economic system is driven by energy. Few of the advances made in the past two centuries would have been possible without the large-scale exploitation of fossil fuels. Resources depletion and predictions of severe environmental effects deriving from continued use of fossil fuels are spurring renewed interest in sustainable energy. The effort that will be required to shift from a fossil fuel-based economy to one hinged on sustainability is massive, requiring advances in the basic sciences (materials,

electrochemistry and heat transfer to name a few) through to systems engineering (buildings, electric grids, transportation) and all the way to international policymaking.

The evolution of new energy technologies and systems cannot follow the compartmentalized model that has worked so well in the past, because of the time constraints imposed by oil depletion and climate change. All parts of the new energy economy are strongly interlinked, and researchers in the field must be aware of the entire enterprise to maximize their own contribution. This conference offers an opportunity for scientists, professionals, policymakers and other parties to review recent developments in this rapidly changing environment.

The conference will cover topics related to sustainability in energy production, energy storage and distribution and energy management.



Benefits of Attending

Conference Books Papers are published in paper and digital format and widely distributed throughout the world. At registration, delegates receive a USB flash drive containing the conference proceedings, and those of previous conferences in the series. Papers are also archived at <http://library.witpress.com>

Book Dissemination 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.

Digital Archive All papers in the conference books are permanently archived at <http://library.witpress.com> where they are available to the international community.

Open Access Open Access allows for the full paper to be downloaded from the WIT eLibrary archives, offering maximum dissemination. Delegates who opt for Open Access will receive a collection of books on related fields on a USB flash drive at registration.

Journal Papers Presenters at WIT conferences will be invited to submit an extended version of their conference paper to one of the 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.



Prigogine Medal 2013

The Prigogine Gold Medal 2013 Award Ceremony will take place on the 19th June 2013 in Bucharest, Romania. This prestigious event is sponsored by the University Politehnica of Bucharest on the occasion of this conference and the 9th International Conference on Ecosystems and Sustainable Development.

The Prigogine Medal was established in 2004 by the University of Siena and the Wessex Institute of Technology to honour the memory of Professor Ilya Prigogine, Nobel Prize Winner for Chemistry.

Ilya Prigogine

Ilya Prigogine was born in Moscow in 1917, and obtained his undergraduate and graduate education in chemistry at the Free University in Brussels. He was awarded the Nobel Prize for his contribution to non-equilibrium thermodynamics, particularly the theory of dissipative structures. The main theme of his scientific work was the role of time in the physical sciences and biology. He contributed significantly to the understanding of irreversible processes, particularly in systems far from equilibrium. 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 Prigogine Medal to honour his memory is awarded annually to a leading scientist in the field of ecological systems. All recipients have been deeply influenced by the work of Prigogine.

Professor Ilya Prigogine



Previous Prigogine Medal winners:

- 2004 Sven Jorgensen, Denmark
- 2005 Enzo Tiezzi, Italy
- 2006 Bernard Patten, USA
- 2007 Robert Ulanowicz, USA
- 2008 Ioannis Antoniou, Greece
- 2009 Emilio del Giudice, Italy
- 2010 Felix Müller, Germany
- 2011 Larissa Brizhik, Ukraine
- 2012 Gerald Pollack, USA

For further information about the Prigogine Awards, please contact Professor Carlos Brebbia at the Wessex Institute of Technology or see www.wessex.ac.uk/prigogine2013

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See the following web pages for details of recent Prigogine Awards:

- www.wessex.ac.uk/prigogine2009
- www.wessex.ac.uk/prigogine2010
- www.wessex.ac.uk/prigogine2011
- www.wessex.ac.uk/prigogine2012

Conference Chairmen

- C A Brebbia**
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- A Marinov**
University Politehnica of Bucharest, Romania
- A A Mammoli**
University of New Mexico, USA
- C A Safta**
University Politehnica of Bucharest, Romania

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Conference Topics

- Energy analysis and management**
- Energy and transportation**
- Energy and buildings**
- Transmission and distribution of energy**
- Smart grids**
- Energy storage**
- New energy sources**
- Environmental risks**
- The future of nuclear energy**
- Energy policies**
- CO₂ sequestration and storage**

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 Energy and Sustainability 2013 will appear in a volume of **WIT Transactions on Ecology and the Environment** (ISSN: 1746-448X, Digital ISSN: 1743-3541).
- All conference papers are archived online at <http://library.witpress.com> where they are immediately and permanently available to the international scientific community.