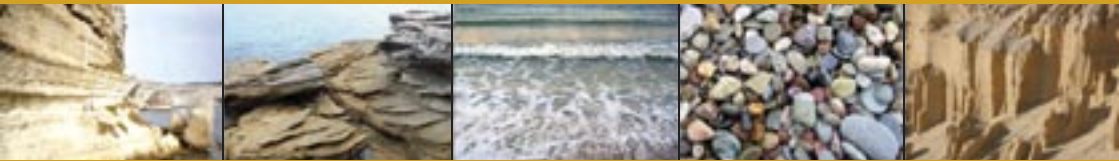


**CALL FOR PAPERS**

**Second International Conference on  
Physical Coastal Processes,  
Management and Engineering**

# *Coastal Processes 2011*

**27 - 29 April 2011  
Naples, Italy**



**ORGANISED BY:**

**University of Parthenope, Italy  
Wessex Institute of Technology, UK  
University of Las Palmas  
(Canary Islands), Spain**

**SPONSORED BY:**

**WIT Transactions on Ecology and  
the Environment  
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## INTRODUCTION

Following the success of the first conference on coastal processes held in Malta in 2009, it has been decided to reconvene the meeting at the University of Naples Parthenope in 2011.

Coastal regions present a complex dynamic web of natural and human related processes. Although coastal zones are narrow areas occupying a small part of oceans and lands, these regions play a very important role as they account for nearly a quarter of all oceanic biological production. About 60% of the human population live in coastal zones, and around 70% of big cities are placed in this narrow area. Concomitantly, more than 90% of the pollutants generated by human economic activities end up in the coastal zone.

The unstoppable demand of the coast for recreational and tourism activities has increased the need for shore and beach protection and, increasingly, the construction of artificial beaches, ports and harbours. Wind waves and wave driven currents are the dominant mechanisms controlling littoral sand transport and determining the nearshore morphology. In addition, many other physical phenomena, such as tides and associated currents, long waves and storm surges, among others, can play a significant role in the dynamic behaviour of the coastal zone.

Coastal zones represent potential sources of renewable energy coming from winds, waves, tides, currents and thermohaline gradients but they are also exposed to risks related to energy generation. Thus, for instance, extraction and transportation of hydrocarbons can give rise to tremendous ecological disasters. Furthermore, thermal and nuclear power plants are often located in the coastal zone and use large volumes of cooling water and discharge these into marine environments.

It is well known that distinctive features of the coastal zone dynamics are not only due to the nearshore hydrodynamics, but also to the complex local behaviour of the atmospheric dynamics. As a result, complex interactions occur between the atmosphere, ocean and land, inducing large temporal and spatial variations in air-sea exchange processes.

Due to its great socio-economic importance, the physical aspects of coastal processes have been of concern for decades, but recent advances in a number of areas, including satellite remote sensing, are giving rise to significant progress in this field.

The ocean side of the coastal zone represents a very sensitive and particularly vulnerable sector of the ocean to any kind of man-made action or natural extreme events. Consequently, the problem of environmental protection and conservation takes special relevance in this zone, and any decision concerning its viability must be preceded by a forecast of its consequences. Their adequate prediction is only possible on the basis of a clear understanding and careful analysis of the fundamental dynamic processes occurring in such areas.

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The problems are essentially interdisciplinary and scientists need to be able to exchange ideas with colleagues from other disciplines with a variety of different experiences.

The application of the principles of sustainable development on coastal zones, together with the need to protect the environment and control the mechanisms acting on them is the reason why this conference provides an interdisciplinary approach.

## CONFERENCE CHAIRMEN

**G Benassai**, *University of Naples Parthenope, Italy*

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

**G Rodriguez**, *University of Las Palmas, Spain*

## LOCAL ORGANISING COMMITTEE

**M Migliaccio**, *University of Naples Parthenope, Italy*

**S Pierini**, *University of Naples Parthenope, Italy*

**A Scamardella**, *University of Naples Parthenope, Italy*

## CONFERENCE TOPICS

- Wave modelling
- Wave transformation hydrodynamics
- Extreme events and sea level rise
- Sea defences
- Interaction between coastal defences and processes
- Energy recovery
- Hydrodynamic forces
- Sediment transport and erosion
- Pollution and dispersion
- Planning and beach design
- Coastal geomorphology
- Coastal processes and navigation
- Coastal processes and GIS
- Bio-physical coastal processes
- Great Lakes problems

## 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.*

### JOURNAL SUBMISSION

Delegates attending Coastal Processes 2011 will be invited to submit an expanded version of their paper for publication in the **International Journal of Sustainable Development and Planning**, associated with the Wessex Institute of Technology.

### OPEN ACCESS

Participants who opt to have their paper permanently and openly accessible in the Wessex Institute eLibrary will receive a USB Flash Drive containing all the papers presented at the previous conference in this series.

We strongly believe that removing barriers to research published online will greatly aid progress in many scientific and technical disciplines.

### Online Submission

[www.wessex.ac.uk/cp2011](http://www.wessex.ac.uk/cp2011)

### Email Submission

**Email:** [bcopland@wessex.ac.uk](mailto:bcopland@wessex.ac.uk)  
Please submit your abstract with Coastal Processes 2011 in the subject line. Include your name, full address and conference topic.

### Fax or Mail Submission

Fax or mail a copy of your abstract with the completed Enquiry Form overleaf to the Secretariat below.

## CONFERENCE SECRETARIAT

**Beverley Copland  
Conference Secretariat  
Coastal Processes 2011**

WESSEX INSTITUTE OF TECHNOLOGY  
Ashurst Lodge, Ashurst  
Southampton, SO40 7AA, UK

Tel: + 44 (0) 238 029 3223

Fax: + 44 (0) 238 029 2853

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

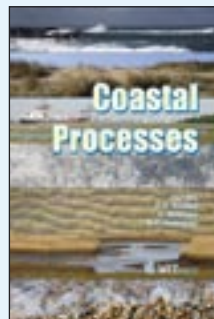
## INDEXING AND ARCHIVING OF PAPERS

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 Ecology and the Environment (ISSN:1743-3541).
- 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.

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



**For more information visit: [www.wessex.ac.uk/cp2011](http://www.wessex.ac.uk/cp2011)**

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## LOCATION

One of Italy's oldest and largest cities, Naples occupies a fine coastal location on the bay of Naples. The birthplace of some of Italy's most iconic foods and drinks, good restaurants and cafes are plentiful in Naples, serving fresh local seafood and regional specialities. The historic centre is recognised as a UNESCO World Heritage site and offers a wealth of interesting architecture, monumental castles and museums, as well as galleries exhibiting works by some of Italy's most distinguished Renaissance artists. The surrounding area and coastline provides picturesque views of Capri and numerous small islands, while nearby Mount Vesuvius and the roman remains of Pompeii and Herculaneum remain some of the most notable sites in southern Italy.



## 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** and **digital** book form. The books are available to delegates at registration and are also widely distributed throughout the world by WITPress.
- Papers are also available in **digital format** to the international scientific community through the Wessex Institute eLibrary <http://library.witpress.com>
- Conference participants will be invited to submit an extended version of their paper to the **International Journal of Sustainable Development and Planning** associated with WIT.
- 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.

## CONFERENCE VENUE

Coastal Processes 2011 will take place in the University of Naples Parthenope, situated in the centre of Naples, close to the port and the historic Castel Nuovo. Originally specialising in Maritime Economics, the university has undergone substantial growth to encompass studies and research in subjects as diverse as law, technology, economics and engineering.

## 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.

## ENQUIRY FORM

**Coastal Processes 2011**  
27 - 29 April 2011, Naples, Italy



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 .....

Topics .....

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.*