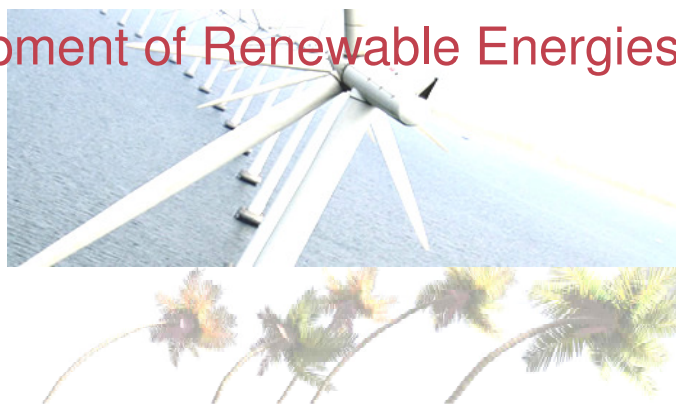


# Research and Development of Renewable Energies



Sharing the same future



## Speakers from Italian Universities:

Padova: Prof. Piero Ruol (University of Padova) e Prof. Mauro Sclavo (CNR-Venice).

Florence: Prof. Pierluigi Aminti and Dott. Lorenzo Cappiotti (University of Florence).

Milan: Prof. Diego Vicinanza (Second University of Napoli), Prof. Marco Mancini (Technical University of Milan), Prof. Giuseppe Passoni (Technical University of Milan).

Bologna: Prof. Barbara Zanuttigh and Dott. Luca Martinelli (University di Bologna).

## Speakers from Aalborg University:

Peter Frigaard, head of the Department of Civil Engineering. Lucia Margheritin, PhD student on wave energy.

## HARVESTING WAVE POWER



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Diversification of  
Renewable Energy  
sources is the only  
way to achieve a  
sustainable future

- Overview of RE in Europe (and the Danish Wind experience).
- WE in Europe and in the World.
- AAU 10 years of experience on R&D of Wave Energy Converters.
- WECs based on the overtopping principle (Wave Dragon and SSG).
- Research as base for sustainable development.
- RE research programs at AAU.
- Potentially of the wave energy along the coast of Tuscany
- Wave Energy Research Group in FLOrence WERG-FLO: kick off meeting

Aalborg University in collaboration with University of Padova, University of Firenze, Technical University of Milano and University of Bologna, proposes a Seminar on Renewable Energies.

**“FOCUS ON  
WAVE ENERGY”**

A new, promising and challenging field within  
Renewable Energy.

Facoltà di Ingegneria

Via S. Marta, 3 - Firenze

Mercoledì, 2 Aprile 2008

Ore 10:00 - 13:30 - Aula 111

Climate change and global warming are not the only reasons to work for a future with more renewable energies. Fine particles released during combustion processes mainly from coal and oil products are dangerous for our health. Moreover it is fundamental to become energy independent from political instable areas like Middle East and assure more stable prices for our energy supplies. Combination of different REs is the answer to this issue. After many years of research, money and improvements on exploitation of traditional energy sources it is time for a change!

## Wave Energy

In order to achieve a sustainable future all the natural resources must be harvested. Wave energy has been studied for 30 years and nowadays the technology is ready to commercialization. Wave energy still a challenging field due to huge loads on the structures and mooring systems during extreme events, lack of knowledge on the resource and of standardization of procedures.

## Dates

1. Padova 1st April 2008
2. **Florence 2nd April 2000:**  
**10:00-13:30, room 111**  
**Faculty of Engineering**
3. Milan 3rd April 2008
4. Bologna 4th April 2008

**Participants who wish to attend the seminar are kindly requested to send an e-mail to: [cappietti@dicea.unifi.it](mailto:cappietti@dicea.unifi.it) reporting the subject: "focus on wave energy"**

## Presentations

**PETER FRIGAARD:**  
introduction on Aalborg University and research projects on renewable energies at the Department of Civil Engineering. Renewable energies in Europe and in the World. State of the art of Wave Energy. Possibilities of master studies for international students (English).

**LUCIA MARGHERITINI:**  
experience of an Italian at the Department of civil engineering at AAU. Wave Energy converters based on the overtopping principle. Research Project on the Sea wave Slot cone Generator (SSG). International collaborations (Italian).

**LORENZO CAPPIETTI:**  
Potentiality of wave-energy along the coast of Tuscany Wave Energy Research Group in Florence: ..... trying to arrange it! Kick-off meeting.

**OTHERS:**  
There will be time for questions and active discussion with students and academics.

The duration of each seminar is estimated to be of about 3 hours. The purpose is to disseminate knowledge on the renewable energy and particularly on Wave Energy and inspire students and academic personnel to undertake an active work towards different aspects related to this topic. The Seminar is mainly addressed to students of the first 3 years of University in the following areas: •Civil Engineering •Mechanical Engineering •Environmental Engineering •Electrical Engineering•Hydraulic Engineering•...But everyone with interest on WE is more than welcome.

