Participation

The course is arranged through the Doctoral School of Environment Design and Innovation at University of Campania “Luigi Vanvitelli” and CoNISMa

For Ph.D. students registered at any university, participation in the course is subject to a €950 fee, which is charged to cover expenses for lunches, coffee, experimental setup, etc.

Non-Ph.D. students are also welcomed, but at a full registration fee of €1900. The fees will be charged after the registration deadline (30th June 2019) is passed and registrants have got the confirmation of participation*.

The course is of relevance to PhD students and others with interests in development of wave energy converters.

* we reserve the right to cancel the course if not enough participants have enrolled

REGISTRATION (available from the end of March)

https://www.civil.aau.dk/divisions/reliability/wave-energy/phdcourses/

FURTHER INFORMATION

Jens Peter Kofoed (jpk@civil.aau.dk)
The main objective of this course is to train each participant to the numerical and experimental modelling and control of Wave Energy Converters (WECs).

The following topics will be taught:

- The State of the Art of wave energy conversion techniques
- The State of the Art of numerical modelling of WECs, the limitations and the alternative numerical approaches
- The State of the Art of experimental modelling of WECs, the limitations
- The State of the Art of control of WECs

By the end of the course, the participants will have carried out the following tasks:

- Wave measurement and generation in wave tank
- Numerical investigation of the performance of a WEC
- Experimental investigation of the performance of a WEC with and without control

The course is arranged jointly by the Doctoral School of Environment Design and Innovation at University of Campania “Luigi Vanvitelli”, CNR-INM and CoNISMa in the collaboration with Marinet2. The course will be held in Rome at CNR-INM 9-20 Sept. 2019 (the week after the EWTEC 2019 conference in Naples)

Prerequisites

To ensure full benefit of the course participants should at least have:

- Degree in Engineering
- Basic knowledge of Matlab or any other programming language

Course organisers and lecturers

Assoc. Prof. Jens Peter Kofoed
Ocean and Coastal Engineering Research Group
Department of Civil Engineering Aalborg University, Denmark

Senior Researcher
Claudio Lugni
Marine Engineering Institute INM CNR, Italy

Associate Prof. Diego Vicinanza
Department of Engineering Università degli Studi della Campania “Luigi Vanvitelli”, Italy

Researcher
Ivan Santic
Marine Engineering Institute INM CNR, Italy

Assist. Prof. Francesco Ferri
Ocean and Coastal Engineering Research Group
Department of Civil Engineering Aalborg University, Denmark