

Ph.D. Course on SEABED AND STRUCTURE INTERACTION at the Technical University of Denmark, August 16th-20th, 2010

Course Objectives

Seabed and structure interaction involves processes such as flow around and forces on structures (including flow induced vibrations of slender bodies), scour and backfilling processes, as well as liquefaction processes around marine structures. The past three decades have witnessed substantial advances in this field. The objective of this course is to disseminate the recent knowledge. The course is organized in three parts: (1) Hydrodynamics around cylindrical structures; (2) Scour around marine structures; and (3) Liquefaction of marine soils.

Course Web site

<http://www.fam.web.mek.dtu.dk/dcamm05/index.php?navigate=courses>

Organizer

B. Mutlu Sumer, DTU bld. 403, office no. 125,
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This course is offered as part of the activities of the DCAMM International Graduate Research School.

Course lecturers

Charles H.K. Williamson, Professor, Cornell University, USA.
Richard Whitehouse, Technical Director and Professor, HR Wallingford, UK.
B. Mutlu Sumer, Professor, Technical University of Denmark.

Participants

The course is designed for Ph.D. students and final-year Graduate students.

Work Load

Each day (Monday-Friday) there will be lectures 8-12 and 13-17. Friday afternoon there will be a visit to the Hydraulics Laboratory of DTU Mechanical Engineering.

Study Material

Notes will be handed out.

Evaluation and Diplomas

To pass the course, active participation in all activities is required, as well as electronic submission of reports in the following two weeks.

Grades: Pass/Fail. ECTS points: 2.5.

Registration:

Ask for a registration form from the DCAMM-course Secretariat, attn.: Kari Haugland, Department of Mathematics, Technical University of Denmark, Building 303S, DK-2800 Lyngby, Denmark. Tel.: (+45) 45253031, Fax: (+45) 45881399, E-mail: dcamm@mat.dtu.dk .

Registration fee:

There is no registration fee for students enrolled at universities and public research institutions. For researchers employed at universities and public research institutions the registration fee is 250 EURO. This covers hand-outs, coffee and social events. For all other participants the registration fee is 750 EURO.

Deadline:

Applicants should submit their registration to the course secretariat no later than 15th July, 2010. You will receive confirmation within a week after this date.

Housing:

There are a limited amount of rooms available on the premises of the Technical University of Denmark (DTU). These will be offered free of charge to students and otherwise at a cost of 25 EURO per night. Accommodation in hostels/hotels can also be arranged by the participants themselves, see the Wonderful Copenhagen website at www.woco.dk .

Scholarships:

For Ph.D.-students enrolled at non-Danish universities and research institutions outside the EU, we can offer a limited number of scholarships in order to facilitate participation, covering lodging (see above) and extra living costs with a per diem amount of 25 EURO. Travel expenses will not be covered. Your CV and a short letter of recommendation from your Ph.D.-supervisor should then be sent in together with the application form.