

**THE DANISH COUNCIL FOR STRATEGIC RESEARCH (DSF)/
ENERGY AND ENVIRONMENT**

Danish Agency for Science Technology and Innovation,
Program Committee for Energy and Environment

Seabed Wind Farm Interaction End User Workshop

Organized jointly by DTU Mekanik and Vandbygningsteknisk Selskab

Date: May 15, 2012

Venue: DTU, Building 421 (Auditorium 71), 2800 Kgs. Lyngby

10:00-10:15		Registration and Coffee
10:15-10:20	Ole Juul Jensen/Jesper Harder, Association of Marine Civil Engineers	Welcome
10:20-10:30	B. Mutlu Sumer (DTU), Coordinator	Seabed and Wind Farm Project. Overview
10:30-11:00	F. Jakobsen, A. Z. Davidsen (LICengineering)	Design of offshore wind farms
11:00-11:30	B. M. Sumer, T.U. Petersen, L. Locatelli, J. Fredsøe (DTU), R. Musumeci, E. Foti (Univ. Catania)	Backfilling of scour holes around mono piles
11:30-12:00	A.W. Nielsen, B.M. Sumer, J. Fredsøe, E.D. Christensen (DTU)	Scour protection around mono piles
12:00-12:30	A.W. Nielsen, B.M. Sumer, J. Fredsøe, (DTU)	<ul style="list-style-type: none">• Scour around monopiles under breaking waves• Removal of base sediment from between armour blocks under breaking waves
12:30-13:30		LUNCH
13:30 – 14:00	Tony Bergøe and Poul Rasmussen (NIRAS)	Practical Application of Theory on Scour Protection
14:00-14:30	N.M. Hansen, B.M. Sumer, J. Fredsøe (DTU), N.E.Ottesen Hansen, F. Jakobsen (LICengineering), D.	Soil and rocking pile interaction

	Jeng (Univ. Dundee)	
14:30-15:00	S.P.H. Sørensen: (Univ. Aalborg)	Relative density of backfilled soil material - Influence on the fatigue design of offshore wind turbine foundations
15:00-15:30	A. Nezhentseva (Univ. Aalborg)	Scour around offshore wind turbine foundations
15:30-16:00	P. Frigaard (Univ. Aalborg)	Run-up and Forces on piles. Comparison between CFD calculations and large scale tests.
16:00-16:30		BREAK
16:30-17:00	M. Dixen, I. P. Lohmann (DHI)	Efficient methods to predict scour over long time spans
17:00-17:30	S. Niemann, R. Deigaard, M. Taaning (DHI)	Natural seabed changes and interaction with seabed forms
17:30-18:00	D. Fuhrman, B.M. Sumer, J. Fredsøe (DTU)	CFD of sudden change in bed roughness