



TUESDAY 9 JUNE

The program is subject to change.

08.30 – 09.30 REGISTRATION AND COFFEE

09.30 – 10.00 OPENING SESSION

Associate Professor **Stefan Ivanell**. Uppsala University

Professor **Jens N. Sorensen**. Technical University of Denmark

	Title	Submitting Author
10.00 – 10.20 PRESENTATION	<i>Predicting wind farm wake interaction with RANS. an investigation of the Coriolis force</i>	van der Laan, Paul
10.20 – 10.40 PRESENTATION	<i>The effect of blockage on power production for laterally aligned wind turbines</i>	Meyer Forsting, Alexander Raul
10.40 – 11.00 PRESENTATION	<i>Comparison of actuator disc and Joukowsky rotor flows, to explore the need for a tip correction</i>	Van Kuik, Gijs
11.00 – 11.20 PRESENTATION	<i>A wake detector for wind farm control</i>	Bottasso, Carlo L.
11.20 – 11.40 PRESENTATION	<i>Wake downstream of the Lillgrund wind farm - A Comparison between LES using the actuator disc method and a Wind farm Parametrization in WRF</i>	Eriksson, Ola
11.40 – 12.00 PRESENTATION	<i>Using the coupled wake boundary layer model to evaluate the effect of turbulence intensity on wind-farm performance</i>	Stevens, Richard
12.00 – 13.30 LUNCH		
13.30 – 13.50 PRESENTATION	<i>Evaluation of the Actuator Line Model with coarse resolutions</i>	Draper, Martín
13.50 – 14.10 PRESENTATION	<i>Comparing satellite SAR and wind farm wake models</i>	Hasager, Charlotte
14.10 – 14.30 PRESENTATION	<i>A wind-tunnel investigation of wind-turbine wakes in yawed conditions</i>	Porté-Agel, Fernando
14.30 – 14.50 PRESENTATION	<i>Instability of wind turbine wakes immersed in the atmospheric boundary layer</i>	Iungo, Giacomo Valerio
14.50 – 15.10 PRESENTATION	<i>Wake meandering under non-neutral atmospheric stability conditions – theory and facts</i>	Larsen, Gunner
15.10 – 15.30 COFFEE BREAK		
15.30 – 15.50 PRESENTATION	<i>Local blockage effect for wind turbines</i>	Nishino, Takafumi
15.50 – 16.10 PRESENTATION	<i>LES and RANS simulation of on-shore Bessaker wind farm. analysing terrain and wake effects on wind farm performance</i>	Tabib, Mandar
16.10 – 16.30 PRESENTATION	<i>Wind-tunnel study of the wake behind a vertical axis wind turbine in a boundary layer flow using stereoscopic particle image velocimetry</i>	Rolin, Vincent
16.30 – 16.50 PRESENTATION	<i>Data-driven Reduced Order Model for prediction of wind turbine wakes</i>	Iungo, Giacomo Valerio
16.50 – 17.10 PRESENTATION	<i>Coupling of a free wake vortex ring near-wake model with the Jensen and Larsen far-wake deficit models</i>	van Heemst, Johannes
17.10 – 17.30 PRESENTATION	<i>The role of atmospheric stability/turbulence on wakes at the Egmond aan Zee Offshore wind</i>	Barthelmie, Rebecca



WEDNESDAY 10 JUNE

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	Title	Submitting Author
9.00 – 9.20 PRESENTATION	<i>Large Eddy Simulation of wind turbine wakes. detailed comparisons of two codes focusing on effects of numerics and subgrid modeling</i>	Martinez, Luis
9.20 – 9.40 PRESENTATION	<i>Predicting wake meandering in real-time through instantaneous measurements of wind turbine load fluctuations</i>	Aubrun-Sanches, Sandrine
9.40 – 10.00 PRESENTATION	<i>Offshore wind farm flow measured by complementary remote sensing techniques. radar satellite TerraSAR-X and lidar windscanners</i>	Schneemann, Jörge
10.00 – 10.20 COFFEE BREAK		
10.20 – 10.40 PRESENTATION	<i>Effects of incoming wind condition and wind turbine aerodynamics on the hub vortex instability</i>	Iungo, Giacomo Valerio
10.40 – 11.00 PRESENTATION	<i>Wind turbine wake detection with a single Doppler wind lidar</i>	Wang, John (Hui)
11.00 – 11.20 PRESENTATION	<i>A spectral model of stratified surface-layer turbulence</i>	Segalini, Antonio
11.20 – 11.40 PRESENTATION	<i>Quantifying variability of Large Eddy Simulations of very large wind farms.</i>	Andersen, Søren
11.40 – 12.00 PRESENTATION	<i>Comparison between experiments and Large-Eddy Simulations of tip spiral structure and geometry</i>	Ivanell, Stefan
12.00 – 13.30 LUNCH		
13.30 – 13.50 PRESENTATION	<i>Wake effect on a uniform flow behind wind-turbine model</i>	Okulov, Valery
13.50 – 14.10 PRESENTATION	<i>Engineering models for merging wakes in wind farm optimization applications</i>	Machefaux, Ewan
14.10 – 14.30 PRESENTATION	<i>Data-driven RANS for simulations of large wind farms</i>	Iungo, Giacomo Valerio
14.30 – 14.50 PRESENTATION	<i>Coalescing Wind Turbine Wakes</i>	Moriarty, Patrick
14.50 – 15.10 PRESENTATION	<i>Characterizing Wake Turbulence with Staring Lidar Measurements</i>	Bastine, David
15.10 – 15.30 PRESENTATION	<i>Study of wake meandering by means of fixed point lidar measurements. Spectral analysis of line-of-sight wind component</i>	Trabucchi, Davide
15.30 – 16.00 COFFEE BREAK		
16.00 – 16.20 PRESENTATION	<i>How Many Model Evaluations Are Required To Predict The AEP Of A Wind Power Plant?</i>	Murcia, Juan Pablo
16.20 – 16.40 PRESENTATION	<i>A new analytical model for wind farm control</i>	Porté-Agel, Fernando
16.40 – 17.00 PRESENTATION	<i>The impact of wake models on wind farm layout optimization</i>	Schmidt, Jonas
17.00 – 17.20 PRESENTATION	<i>Turbulent large-scale structure effects on wake meandering</i>	Masson, Christian
17.20 – 17.40 PRESENTATION	<i>Large-eddy simulations of wind farm production and long distance wakes</i>	Eriksson, Ola

19.30 DINNER – Wisby Strand



Thursday 11 JUNE

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9.00 – 9.20 PRESENTATION	<i>Atmospheric stability assessment for the characterization of offshore wind conditions</i>	Rodrigo, Javier Sanz
9.20 – 9.40 PRESENTATION	<i>Large-eddy simulation of the diurnal variation of wake flows in a finite-size wind farm</i>	Porté-Agel, Fernando
9.40 – 10.00 PRESENTATION	<i>First comparison of LES of an offshore wind turbine wake with dual-Doppler lidar measurement in a German offshore wind farm</i>	Vollmer, Lukas
10.00 – 10.20 COFFEE BREAK		
10.20 – 10.40 PRESENTATION	<i>Aeroelastic large eddy simulations using vortex methods. unfrozen turbulent and sheared inflow</i>	Branlard, Emmanuel
10.40 – 11.00 PRESENTATION	<i>Wind Turbine Wake Interactions; Results from blind tests</i>	Krogstad, Per- Åge
11.00 – 11.20 PRESENTATION	<i>Simulation of wake effects between two wind farms</i>	Hansen, Kurt Schaldemose
11.20 – 11.40 PRESENTATION	<i>Numerical and Experimental Methods for wake flow analysis in complex terrain</i>	Castellani, Francesco

11.40 – 12.10 CLOSE UP

WakeBench meeting