

Wake Conference 2021

TUESDAY 15 JUNE

13:00–13:30

OPENING SESSION

Professor **Stefan Ivanell**, Uppsala University and Professor **Jens Nørkær Sørensen**, Technical University of Denmark/Uppsala University.

13:30–14:45

SESSION 1

	Title	Presenting Author
13:30-13:55	Effect of low-level jet on turbine aerodynamic blade loading using large-eddy simulations	Nagarada Gadde, Srinidhi
13:55-14:20	Evaluation of the effects of actuator line force smearing on wind turbines near-wake development	Cormier, Marion
14:20-14:45	Validation of wind turbine wakes modelled by the Meso-NH LES solver under different cases of stability	Jézéquel, Erwan

14:45–15:15

COFFEE BREAK, mingle in break out rooms

15:15–16:55

SESSION 2

	Title	Presenting Author
15:15-15:40	Application of the Townsend-George wake theory to field measurements of wind turbine wakes	Neunaber, Ingrid
15:40-16:05	Joukowski's wake model for tip-splitting rotors	Castillo-Castellanos, Andrés
16:05-16:30	Deformation and wake of a flexible rotor in water	Eldemerdash, Ahmed
16:30-16:55	The ALEX17 diurnal cycles in complex terrain benchmark	Sanz Rodrigo, Javier

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WEDNESDAY 16 JUNE

11:00–11:50

SESSION 3

	Title	Presenting Author
11:00-11:25	Instability and merging of a helical vortex pair in the wake of a rotor	Schröder, Dominic
11:25-11:50	Wind turbine wake inflow over a heterogeneous forest - comparison between measurement and LES simulation	Navarro Diaz, Gonzalo Pablo

11:50–13:00

LUNCH BREAK

13:00–14:40

SESSION 4

	Title	Presenting Author
13:00-13:25	Stability of floating wind turbine wakes	Kleine, Vitor
13:25-13:50	Comparison of large-eddy simulations of wakes with wind farm wake parametrizations using the weather research and forecasting model	Peña, Alfredo
13:50-14:15	A level-set framework for the wind turbine wake analysis: from high-fidelity unsteady simulations to 1D momentum theory	Houtin Mongrolle, Félix
14:15-14:40	Inflow modeling for wind farm flows in RANS	van der Laan, Paul

14:40–15:10

COFFEE BREAK, mingle in break out rooms

15:10–16:50

SESSION 5

	Title	Presenting Author
15:10-15:35	Exploring the application of reinforcement learning to wind farm control	Korb, Henry
15:35-16:00	A quantitative comparison of aeroelastic computations using Flex5 and actuator methods in LES	Hodgson, Emily
16:00-16:25	LES modelling of highly transient wind speed ramps in wind farms	Andersen, Søren
16:25-16:50	Effects of upstream rotor tilt on a downstream floating wind turbine	Doubrawa, Paula

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THURSDAY 17 JUNE

13:00–14:40

SESSION 6

	Title	Presenting Author
13:00-13:25	Verification of induction zone models for wind farm annual energy production estimation	Meyer Forsting, Alexander
13:25-13:50	Production and cost assessment of offshore wind power in the North Sea	Sørensen, Jens Nørkær
13:50-14:15	Wind farm yield and lifetime optimization by smart steering of wakes	Schmidt, Jonas
14:15-14:40	Evaluating global blockage engineering parametrizations with LES	Centurelli, Gabriele

14:40–15:10

COFFEE BREAK, mingle in break out rooms

15:10–16:00

SESSION 7

	Title	Presenting Author
15:10-15:35	Farm to farm wake interaction in WRF: impact on power production	Mayol, Maria Laura
15:35-16:00	Evaluating wind farm wakes in large eddy simulations and engineering models	Stieren, Anja

16:00-16:30

CLOSING SESSION

Professor **Stefan Ivanell**, Uppsala University and Professor **Jens Nørkær Sørensen**, Technical University of Denmark/Uppsala University.