**WEDNESDAY 8 JUNE**

*The program is subject to change.*

**08.00 – 09.00 REGISTRATION AND COFFEE**

**09.00 – 10.00 OPENING SESSION**

*Associate Professor* ***Stefan Ivanell****. Gotland**University**Professor* ***Jens N. Sorensen****.**Technical University of Denmark*

**10.00 – 11.00 STABILITY AND TURBULENCE**

*Dr.* ***Thomas Leweke.*** *CNRS, IRPHE, Marseille, France*

*Spatio-temporal development of the pairing instability in helical vortices*

*Industrial PhD Student* ***Rolf-Erik Keck****. Vestas wind systems & Risø DTU*

*Investigation of prescribed wind shear and synthetic atmospheric turbulence for rotor wake simulations*

*M.Sc.* ***Sasan Sarmast****. Linne Flow Centre, KTH Mechanics*

*Analysis of wind turbine flow structure using Koopman mode decomposition technique*

**11.00 – 11.20 COFFEE BREAK**

**11.20 – 12.00 STABILITY AND TURBULENCE**

*PhD Student* ***Søren Juhl Andersen.*** *Technical University of Denmark*

*Low Order Numerical Model of the Inherent Wake Behind an*

*Infinitely Long Row of Wind Turbines*

*Phd Student* ***Ylva Odemark.***  *Linne Flow Centre, KTH Mechanics*

*An Experimental study on wake evolution and trailing vortex instabilities*

**12.00 – 13.30 LUNCH**

**13.30 – 14.30 WAKE SIMULATIONS**

*Associate Professor* ***Bahri Uzunoglu.*** *Gotland University*

*Benchmarking of eddy viscosity model in different atmospheric turbulence settings.*

*Research engineer* ***Ivan Dobrev.***  *Arts et Métiers-ParisTech, Paris, France*

*Actuator surface numerical model for simulation of wind turbine wakes*

*Research Scientist* ***Pierre-Elouan Réthoré.*** *Risø DTU*

*Comparison of the close wake of different kinds of wind turbine CFD models*

**14.30 – 14.50 COFFEE BREAK**

**14.50 – 16.10 WIND FARMS**

*Senior Scientist* ***Gunner Chr. Larsen****. Risø-DTU
TOPFARM – a platform for wind farm topology optimization

Mr.* ***Jonathon Sumner.*** *École de technologie supérieure
Prediction of wake effects on wind farm power production using a RANS approach. Part I. Complex terrain: Case studies from Spain

Dr.* ***Peter Eecen.*** *ECN Wind Energy - Group Aerodynamics
Offshore wind farms: losses and turbulence in wakes. Modeling and validation*

*Dr* ***Gillian Smith.*** *WindFarmer Specialist, GL Garrad Hassan**Practical Application of Wake Modelling in Large Wind Farm Energy Prediction*

**16.10 – 16.20 REFRESHMENTS**

**16.20 – 17.40 WAKE INTERACTION***Dr.* ***Helge Aagaard Madsen****. Risoe DTU.
Modelling merging wakes with three different approaches**Reserch Scientist* ***Niels Troldborg****. Risoe DTU.* *Experimental and numerical investigations of wind turbine wake deficit and loads in partial wake operation*

*Senior Site Assessment Engineer* ***Giorgio Crasto****. WindSim AS
Wake Modeling with the Actuator Disc concept*

*Senior scientist* ***Torben J. Larsen,*** *Risoe DTU,*

*Evaluation of the Dynamic Wake Meander Model for Loads and Power Production at the Egmond aan Zee Wind Farm*

**20.00 DINNER**

**THURSDAY 9 JUNE**

**08.00 – 09.00 IEA WAKEBENCH MEETING**

*For wakebench participants*

**09.00 – 10.00 MEXICO**

*Mr.* ***Konrad Meister.*** *Institute of Aerodynamics and Gas Dynamics (IAG), University of Stuttgart, Germany**Grid dependency studies on tip vortex preservation in wind turbine CFD simulations*

*Associate Professor* ***Wen Zhong Shen****. Technical University of Denmark*

*Actuator Line / Navier Stokes Computations for Flows past the Yawed MEXICO Rotor*

*Professor* ***Niels N. Sørensen****. Wind Energy Division, Risø-DTU*

*Near Wake Predictions Behind the MEXICO Rotor in Axial and Yawed Flow Conditions*

**10.00 – 10.20 SHORT POSTER PRESENTATION**

**10.20 – 11.00 POSTER SESSION WITH COFFEE**

**11.00 – 12.00 MEXICO**

*PhD, Research Associate* ***Simon-Philippe Breton.*** *École de techologie supérieure*

*Numerical Analysis of the Vorticity Structure of the MEXICO Rotor in the Near Wake*

*PhD* ***Robert Szasz****. Lund University*

*LES of the near wake of the MEXICO wind turbine*

*PhD Student* ***Karl Nilsson.*** *Gotland University
Wake behind the MEXICO rotor*

**12.00 – 13.30 LUNCH**

**13.30 – 14.50 MEASUREMENTS OF WAKES**

*Senior Scientist* ***Kurt S. Hansen.*** *Department of Mechanical Engineering,Technical University of Denmark*

*Determination of near wake characteristics behind a wind turbine*

*Mr.* ***Michael Sherry.*** *Fluids Laboratory for Aeronautical and Industrial Research, Monash University, Victoria 3800*

*The affect of wind turbine nacelle geometry on near wake structure*

*Associate Professor* ***Robert Mikkelsen*** *Department of Mechanical Engineering, Technical University of Denmark*

*Wake measurement using PIV on a scaled Glauert optimal turbine rotor in a water flume*

*Dr****. Davide Medici.*** *Garrad Hassan Italia srl*

*Field measurements from an 80 m mast in the wake of V44 turbines in Italy*

 **14.50 – 15.10 COFFEE BREAK**

**15.10 – 16.50 VORTEX MODELLING**

*Professor* ***Philippe Chatelain.*** *Université catholique de Louvain*

*Hybrid vortex methods with immersed lifting lines applied to the LES of wind turbine wakes*

*Mr.* ***Björn Montgomerie.*** *Div of Fluid Dynamics, Dept of Applied Mechanics, Chalmers University of Technology, Gothenburg, Sweden*

*A contribution to wind turbine wake dynamics algorithms*

*Professor* ***Gijs van Kuik.*** *Duwind, TU-Delft*

*The ideal (?) wake of an ideal actuator disc*

*PhD Student* ***Frank Scheurich.*** *University of Glasgow*

*Simulating Wake Interactions of Vertical-Axis Wind Turbines*

*Dr.* ***Carlos Simao Ferreira****. TU Delft - DUWIND*

*Proving that power and instantaneous loads are decoupled on a 2D VAWT*

**16.50 – 17.20 CLOSING SESSION**