

# Flow Center PhD day

June Tuesday 4th, 10:00-14:00

The H. H. Koch Auditorium, Risø Campus, Roskilde

Technical University of Denmark

*Center for Computational Wind Turbine Aerodynamics and Atmospheric Turbulence*

10:00-10:10	Welcome	Jens Nørkær Sørensen, Jakob Mann and Niels N. Sørensen
10:10-10:35	<i>An incompressible SIMPLE method and its application on discontinuous grids</i>	Dmitry Kolmogorov
10:35-11:00	<i>A Simple Nonlinear Eddy Viscosity Model applied to a Wind Turbine Wake in Atmospheric Turbulence</i>	Paul van der Laan
11:00-11:15	Break	
11:15-11:30	<i>Forest flows and CFD</i>	Louis-Étienne Boudreault
11:30-11:45	<i>Aerodynamics and aeroelasticity of wind turbines using vortex methods</i>	Emmanuel Branlard
11:45-12:30	Lunch Break	
12:00-12:20	<i>The influence of capping inversion strength and surface heat flux on the wind profile in large eddy simulations of near-neutral atmospheric boundary layers</i>	Jesper Grønnegaard Pedersen
12:20-12:35	<i>The effect of baroclinicity on the wind profile in the atmospheric boundary layer</i>	Rogier Floors
12:35-12:50	Break	
12:50-13:20	<i>Modeling of the spectral velocity tensor including buoyancy effects</i>	Abhijit Chougule
13:20-13:40	<i>Quantification of subgrid-scale models impact in actuator line based LES of wind turbine wakes</i>	Hamid Sarlak Chivae