



## The 15<sup>th</sup> Nordic Pilot Centre Meeting – A special emphasis on wind energy and atmospheric flows



### Program

#### TUESDAY

- 11.00-11.30 Transportation from Helsinki Airport
- 12.00-13.00 Lunch
- 13.00-13.15 *Opening, Jari Hämäläinen, LUT*
- 13.15-14.00 *Optimization of large wind farms, Stefan Ivanell, Gotland University and KTH*
- 14.00-14.30 *Assimilation methods in CFD, Heikki Haario, LUT*
- 14.30-15.00 *Numerical study of impinging plane jet using RANS and LES modelling, Javad Taghinia, Aalto*
- 15.00-15.45 Coffee break (hotel rooms will be given during the break)
- 15.45-16.30 *Atmospheric boundary layer research in support of wind resource mapping, Timo Vihma, FMI*
- 16.30-17.00 *Explicit algebraic turbulence models for stratified flows, Werner Lazeroms, KTH*
- 17.00-17.30 *Large Eddy Simulation of atmospheric flow over a hill, Ashvinkumar Chaudhari, LUT*
- 17.30-18.00 *Large Eddy Simulation of jets and sprays for engine applications, Ville Vuorinen, Aalto*
- 18.00-20.00 Spa
- 20.00-22.00 Dinner

#### WEDNESDAY

- 9.15-10.00 *About the NTNU wind turbine data base and its use for prediction method verifications, Per-Åge Krogstad, NTNU*
- 10.00-10.30 *Full-scale wind measuring activities on the Norwegian coast, Lars Sætran, NTNU*
- 10.30-11.00 *Role of convective structures and background turbulence in dry convective atmospheric boundary layers, Antti Hellsten, FMI*
- 11.00-12.00 Lunch
- 12.15-13.00 *Modeling and Simulation of Wakes behind Wind Turbines and in Wind Farms, Jens Nørkær Sørensen, DTU*
- 13.00-13.30 *Swirling flow in model of large two-stroke diesel engine, Knud Erik Meyer, DTU*
- 13.30-14.00 *Solid Fuel Reactivity Research, Henrik Tolvanen, TUT*
- 14.00-14.30 Coffee break
- 14.30-15.00 *Constructing a Discrete Adjoint Solver for Incompressible CFD, Mikko Auvinen, Aalto*
- 15.00-15.30 *Feedback control of flow past a flat plate with a leading edge using plasma actuator, Reza Dadfar, KTH*
- 15.30-15.45 Closing, Stefan Wallin
- 16.00-16.30 Transportation to Helsinki Airport