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Czech Society for Mechanics
and Institute of Theoretical and Applied Mechanics, CAS

invite you to a lecture and discussion within
the lecture series **ITAM Seminar**

Wind flow around a wind turbine system: wind tunnel tests

given by

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Increasing popularity of “green energy” in Europe brings new and demanding research opportunities. The lecture summarizes the short-term stage in CET aimed at modelling the wind flow conditions around a model of the wind turbine. During the stage, we tried to tune up a representative Atmospheric Boundary Layer to describe surroundings of wind farms located in Europe. The measured results comprise mean velocity, turbulence intensity and temperature changes upwind and downwind of the model in dependence on wind speed and hilly terrain. These results provide essential information to analyse the interaction between wind energy and the environment.

The lecture will be held on Thursday, November 22, 2018 at 10:00 AM in the building of the Institute of Theoretical and Applied Mechanics, Prosecká 76, 190 00, Prague 9