

EAWE 1<sup>st</sup> Wind Energy Science Conference 2017

Mini symposium: Advances in Ducted Rotor Research

**Conveners:**

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**Description:**

Concepts to augment the performance of wind turbine rotors have been of interest since the introduction of wind power. One example is the duct, an encasement around the rotor, aiming at increasing the mass flow through the turbine to increase power production.

The mini-symposium will provide the opportunity to present the latest developments in analytical and numerical modelling of ducted rotors, as well as experimental results.

Contributions dealing with any kind of concept yielding an enhancement of the device performance such as flanges, active and passive flow manipulators, and airborne ducts are also very much welcomed.

The aim is the exchange of knowledge and experiences for a better insight into the flow physics and in the mass flow augmentation techniques, as they have been developed and applied in current and future designs.