

Advances in Design of Large Wind Turbine Rotors

Conveners:

Dr. D. Todd Griffith (Sandia National Laboratories, dgriffi@sandia.gov)

Dr. Gerard Schepers (Energy Research Center of the Netherlands, schepers@ecn.nl)

Dr. Kim Branner (DTU Wind Energy, kibr@dtu.dk)

Dr. Xiao Chen (IET-Wind, Chinese Academy of Sciences, chenxiao@iet.cn)

Dr. Scott Hughes (NREL, Scott.Hughes@nrel.gov)

Description:

A dominant and persistent trend in wind energy technology is growth in rotor and turbine size. To minimize the weight and cost of large blades and to ensure their structural integrity, attention must be given to light-weight materials, aerodynamics & aeroelasticity, control, innovative design, new concepts, manufacturing, structural testing and reliability of these large rotor blades. This special mini-symposium aims to provide a platform for the academic and industrial communities to report and discuss recent results and emerging research directions concerning rotor blades.