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The Science of Making Torque from Wind (TORQUE 2016)

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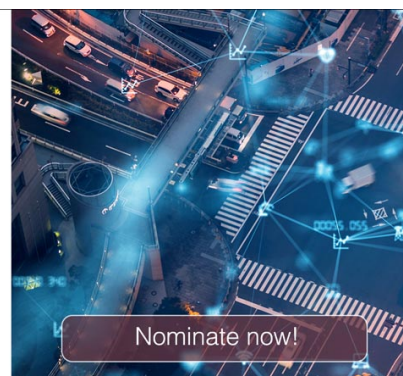


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The Science of Making Torque from Wind 2016 (TORQUE 2016)

C.L. Bottasso (TUM), E. Bossanyi (DNV GL), T. Chaviaropoulos (NTUA), P.W. Cheng (Universität Stuttgart), R. De Doncker (RWTH-Aachen), K. Dykes (NREL), D.T. Griffith (Sandia), M.H. Hansen (DTU), S. Ivanell (Uppsala University), J. Jonkman (NREL), G. van Kuik (TUDelft), M. Kühn (ForWind-OL), J. Mann (DTU), J. Meyers (KU Leuven), M. Muskulus (NTNU), A. Natarajan (DTU), J. Peinke (IWES Fraunhofer), F. Porté-Agel (EPFL), P. Schaumann (ForWind-LUH), J. Sørensen (DTU), J.-W. van Wingerden (TUDelft)

Wind energy technology is one of the great success stories of the last twenty years. Steadily, wind has been progressively increasing its penetration in the energy mix, and it is today leading the growth of renewables.

The progress of wind has been accompanied and made possible by a parallel growth in scientific knowledge. In fact, wind energy has a strong multidisciplinary nature, which spans a very wide range of technical disciplines. Although many of these disciplines are also common to other application areas, wind energy has now emerged as a distinct scientific topic, with its own very specific problems and methods. Today a vibrant scientific community has formed around its core areas, and it is helping propel wind energy knowledge forward. Wind is clearly well positioned to be one of the key players in de-carbonization. However, the continued growth of wind will only be possible through advances in science and technology enabled by a strong and dedicated community, together with continuous public funding and a strong collaboration with industry.

A key input to the formation of the wind energy scientific community was given in 2004 by the European Academy of Wind Energy (EAWE), when it first organized in Delft the Science of Making Torque from Wind conference (or TORQUE, for short). Since then, TORQUE has grown to become the main scientific conference series in wind energy worldwide. TORQUE 2016 has been organized by the Technical University of Munich (TUM) following in the steps of the previous editions. We hope you will enjoy this conference, with its rich program and countless opportunities for networking and for the exchange of ideas.

The proceedings of TORQUE 2016 contain 309 papers. All submissions were subjected to a two-stage peer review process, which included the review of a three-page abstract followed by the review of the full paper. Accepted papers were grouped in ten technical sessions, each organized by two leading experts in the field who also act as co-editors of these proceedings: E. Bossanyi (DNV GL), T. Chaviaropoulos (NTUA), P.W. Cheng (Universität Stuttgart), R. De Doncker (RWTH-Aachen), K. Dykes (NREL), D.T. Griffith (Sandia), M.H. Hansen (DTU), S. Ivanell (Uppsala University), J. Jonkman (NREL), G. van Kuik (TUDelft), M. Kühn (ForWind-OL), J. Mann (DTU), J. Meyers (KU Leuven), M. Muskulus (NTNU), A. Natarajan (DTU), J. Peinke (IWES Fraunhofer), F. Porté-Agel (EPFL), P. Schaumann (ForWind-LUH), J. Sørensen (DTU), J.-W. van Wingerden (TUDelft). In addition, over 150 reviewers helped ensure the quality of the papers. These proceedings and the whole conference would not have been possible without the crucial contribution of all these individuals.

We are also very grateful to the two teams at IOP (Sarah Toms and Anete Ashton) and TUM (Pietro Bortolotti, Johannes Schreiber and Wendy Lopens) for their hard work and dedication throughout the whole review process. The partial financial support of TORQUE 2016 from the German Research Foundation (DFG) is gratefully acknowledged.

We are looking forward to welcoming you to TORQUE 2016!

Garching b. München, September 2016

