



Curriculum Vitae

Prof. Dr. Joachim Peinke

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born: 26. 09.1956 in Ludwigshafen/Rh (Germany), family status: married, three children

Education and Qualifications

1977-1985 Study of Physics at University of Tübingen (Germany) and Oregon State Univ. (USA)

1985 Diploma Degree

1985-1988 Graduate studies at University of Tübingen;

1988 PhD in Physics

1992 habilitation in Physics at University of Tübingen

Professional Activities

- 1992–1990 Postdoc at University of Tübingen (Germany)
- 1990–1994 Postdoc and researcher at the Centre de Recherches sur les Très Basses Températures at the C.N.R.S. in Grenoble (France)
- 1993–1998 Heisenberg fellowship
- 1994-1998 Priv. Doz. at the faculty of Mathematics and Physics at the University of Bayreuth (Germany)
- since 1998- Professor for applied physics (wind energy) at University of Oldenburg
- since 1998- several positions
Vorsitzender der Studienkommission(1999/2001),
Dean (2002/2003) of the Physics department, member of the
Institutsrat and Fakultätsrat,
chairman of ForWind - center for wind energy research of the
Universities Oldenburg Hannover and Bremen,
chairman of COAST - center for environmental and sustainability
research of the University of Oldenburg.

Main research areas:

wind energy, fluid dynamics and turbulence, CFD, stochastic processes and nonlinear dynamics, , sensor technique, modeling complex systems

Publication see <http://twist.physik.uni-oldenburg.de/en/20848.html>

Selected publications:

T. Mücke, D. Kleinhans and J. Peinke :
Atmospheric turbulence and its influence on the alternating loads on wind turbines
Wind Energy **14**, 301 (2010)

R. Stresing, J. Peinke, R.E. Seoud, and J.C. Vassilicos :
Defining a new class of turbulent flows
Phys. Rev. Lett. 104, 194501 (2010)

H. Heißelmann, M. Hölling, M. Wächter and J. Peinke :
Wind velocity measurements using the sphere anemometer
EWEC PO.234 (2009)

J. Gottschall and J. Peinke :
How to improve the estimation of power curves for turbines
Environmental Research Letters 3, 015005 (2008)

B. Stoevesandt, C. Steigerwald, A. Shishkin, C. Wagner and J. Peinke :
Analysing flow structures around a blade using spectral/hp methods and HPIV
Journal of Physics: Conference Series 75, 012025 (2007)

F. Böttcher, St. Barth, and J. Peinke :
Small and Large Scale Fluctuations in Atmospheric Wind Speeds
Stochastic Environmental Research and Risk Assessment (SERRA) 21, 299 (2007)

F. Böttcher, J. Peinke, D. Kleinhans, R. Friedrich, P.G. Lind and M. Haase :
Reconstruction of complex dynamical systems affected by strong measurement noise
Phys. Rev. Lett. 97, 090603 (2006)

Ch. Renner, J. Peinke, and R. Friedrich :
Experimental indications for Markov properties of small scale turbulence,
Journal of Fluid Mechanics 433, 383 (2001)

R. Friedrich and J. Peinke :
Description of a Turbulent Cascade by a Fokker-Planck Equation
Phys. Rev. Lett. 78, 863 (1997)

S. Ghashghaie, W. Breymann, J. Peinke, P. Talkner, and Y. Dodge :
Foreign Exchange Market - A Turbulent Process?
Nature 381, 767 (1996)