

Janicka, Johannes

Born 14.03.1951 in Bottrop, Germany

University Education

1970 – 1973	Study of Chemical Engineering, Gesamthochschule Essen, Germany
1973 – 1977	Study of Mechanical Engineering, RWTH-Aachen, Germany
1979	Dissertation (Dr.-Ing.)
1984	Habilitation in Mechanical Engineering, RWTH-Aachen, Germany

Professional Experience

1979 – 1980	Post-doc at Cornell-University, NY, USA
1980 – 1982	Post-doc at RWTH-Aachen, Germany
1983 – 1989	Senior Process Engineer and Department Leader, Krupp-Koppers, Essen
1989 – 2019	Professor (C4) for Energy- and Powerplant Technology, TU-Darmstadt
1995 – 1997	Dean of Mechanical Engineering Faculty
2001 – 2010	Member of the Academic Senate of TU Darmstadt
2004 – 2010	Member of the Decision Board (Fachkollegium) 404 “Energy” of DFG
2004 – 2019	Vertrauensdozent of DFG at TU-Darmstadt
2008 – 2010	Speaker of the Decision Board (Fachkollegium) 404 “Energy” of DFG
2010 – 2020	Member of the Scientific Advisory Board (Wiss. Rat) of TU Darmstadt
2010 – 2016	Member of DFG Senate

Professional Activities

1995 – 2005	Speaker and coordinator of RTG (Gradiertenkolleg) 91 “Modelling and Numerical Description of Technical Flows”
1996 – 2000	Speaker and coordinator of “Arbeitsgemeinschaft TECFLAM”
2000 – 2011	Speaker and coordinator of CRC (Sonderforschungsbereich) 568 “Flow and Combustion in Future Gas Turbine Combustion Chambers”
2001 – 2008	Speaker and coordinator of DFG Research Unit 486 “Combustion Noise”
2006 – 2015	Speaker and coordinator of RTG (Gradiertenkolleg) 1344 “Systemmodelling of Aircraft Engines”
2012 – 2019	Speaker and coordinator of Excellence Graduate School 1070 „Darmstadt Graduate School of Excellence for Energy Science and Engineering“
2015 – 2018	Speaker and coordinator of CRC 150 (Sonderforschungsbereich) “Reactive near wall multiphase flow”

Main Research Fields

- Simulation of energy efficient powerplant processes
- Optimization of future energy processes
- Design and development of low emission systems
- Simulation of technical combustion processes
- Large eddy simulation of combustion systems

Awards, Honors and Offers

1974 – 1979	Fellowship of the “Studienstiftung des deutschen Volkes”
1977	Study Award of RWTH-Aachen, Germany
1979	Doctoral Dissertation Award of RWTH-Aachen, Germany
1979 – 1980	Fellowship of the DAAD at Cornell University (with J. Lumley)
1987	Offer for Professorship (C4) at University of Erlangen, Germany
1992	Alfred Pott-Prize of German Gas Industry
1997	Offer for Professorship (C4) at University of Karlsruhe, Germany
2006 –	Member of the Academy of Science and Literature, Mainz
2013	Springer Russell Severance Springer Professor, UC Berkeley, USA
2015 –	Member of the National Academy of Science and Engineering – acatech
2015 – 2017	Member of “Koordinierungskreis Forschungsforum Energiewende”
2018	Fellow of the Combustion Institute
2019	Rudolf-Günther-Price for combustion research

Publications and Patents

Total number of publications: approx. 450, total number of patents: 5