

Dr. André D. Thess

Director

Institute of Engineering Thermodynamics
DLR German Aerospace Center
Pfaffenwaldring 38-40
70569 Stuttgart
Telephone: +49-711-6862-358
Cell phone: +49-174-325-4573
E-Mail: andre.thess@dlr.de



Professor of Energy Storage

Institute of Energy Storage
University of Stuttgart
Pfaffenwaldring 31
70569 Stuttgart
Telephone: +49-711-6856-2660
E-Mail: thess@ies.uni-stuttgart.de

General information

Born: 22 February 1964, Leningrad (now St. Petersburg), Russia
Married: to Gabriele Thess since 1988,
Children: two sons, Maximilian (born 1987) und Sebastian (born 1990)

Education

09/1970 – 08/1978 Elementary school, Dresden
09/1978 – 08/1982 Extended secondary school, Dresden
09/1982 - 08/1987 B.Sc and M.S. in Physics, Dresden University of Technology
09/1987 - 08/1990 PhD student, Central Institute of Nuclear Research Rossendorf,
now Helmholtz Center Dresden-Rossendorf
1991 PhD (summa cum laude) Theoretical Physics, Dresden

Professional experience

09/1990 - 02/1991 Scientist at Central Institute of Nuclear Research Rossendorf,

Now Helmholtz Center Dresden-Rossendorf

- 03/1991 - 09/1991 Postdoctoral research associate Ecole Normale Supérieure de Lyon, France, research topic: turbulence
- 09/1991 - 01/1992 Postdoctoral research associate Institut de Mécanique de Grenoble, Frankreich, research topic: magnetohydrodynamics
- 01/1992 - 12/1993 Junior research group leader, Central Institute of Nuclear Research
- 03/1993 - 12/1993 Post-doctoral fellow in the „Program for Applied and Computational Mathematics" with Prof. Steven Orszag at Princeton University (USA) (Fellow of the German Science Foundation DFG, „Habilitationstipendium“)
- 01/1994 – 09/1998 Junior research group leader, at the Institute of Fluid Mechanics (after 07/96 Institute of Aerospace Engineering) at Dresden University of Technology (with Prof. Roger Grundmann)
- 07/1995 Habilitation (German second doctoral degree) in Theoretical Physics, Dresden University of Technology
- 02/1998 Lecturer in Magnetohydrodynamics at Dresden University of Technology
- 10/1998 – 09/2004 Professor of Engineering Thermodynamics, Ilmenau University of Technology
- 10/2004 – 03/2014 Professor of Thermodynamics and Magnetohydrodynamics, Ilmenau University of Technology
- 02/2001 – 12/2007 Chairman of DFG-Research Group „Magnetohydrodynamics" at Ilmenau University of Technology
- since 01/2008 Member of the scientific board (Fachkollegium) 404 on Thermodynamics and Fluid Mechanics of the German Science Foundation DFG
- 01/2010 – 12/2013 Chairman of the DFG-Research and Training Group „Lorentz force velocimetry and Lorentz force eddy current testing“ at Ilmenau University of Technology
- since 04/2012 Chairman (“Sprecher”) of the scientific board (Fachkollegium) 404 on Thermodynamics and Fluid Mechanics of the German Science Foundation DFG
- since 04/2014 Professor of Energy Storage at Stuttgart University and Director of the Institute of Engineering Thermodynamics at the German Aerospace

Fellowships, Visiting Professorships

- (1) 1991: "Bourse de Recherche" French Research Ministry
- (2) 1992: NATO-fellowship "Lecture- and Research Visit" USA
- (3) 1993/1994: DFG-fellow Princeton University
- (4) 1996: EPSRC-Fellowship (UK) Strathclyde University Glasgow
- (5) 2002: Visiting Professor, Nagoya University, Japan
- (6) 2003: Visiting Professor, Northeastern University, Shenyang, China
- (7) 2004: Visiting Professor, Summer Program on Turbulence, Stanford University, USA
- (8) 2004: Visiting Professor, Northeastern University, Shenyang, China
- (9) 2006: Visiting Professor, Northeastern University, Shenyang, China
- (10) 2006: Visiting Professor, Summer Program on Turbulence, Stanford University, USA
- (11) 2009: Visiting Professor Northeastern University Shenyang, China
- (12) 2011: Visiting Professor Northeastern University, Shenyang, China
- (13) 2012: Visiting Professor Northeastern University, Shenyang, China
- (14) 2012: Visiting Professor RIST, Pohang, Korea
- (13) 2013: Visiting Professor Northeastern University, Shenyang, China
- (14) 2014: Visiting Professor Northeastern University, Shenyang, China
- (15) 2017: Visiting Professor Dalian University of Technology, China
- (16) 2018: Visiting Professor Dalian University of Technology, China

Memberships

- (1) Deutsche Physikalische Gesellschaft (DPG)
- (2) International Association for Hydromagnetic Phenomena and Applications (HYDROMAG)
- (3) American Physical Society (APS) (Lifetime Member)
- (4) Deutscher Hochschulverband (DHV)
- (5) Förderverein der Fakultät Maschinenbau der TU Ilmenau

- (6) Förderverein Elektrowärme der TU Ilmenau
- (7) Gesellschaft für Angewandte Mathematik und Mechanik (GAMM)
- (8) Wissenschaftlicher Arbeitskreis Technische Thermodynamik (WATT)
- (9) International Union of Theoretical and Applied Mechanics (IUTAM)
- (10) Gesellschaft für Angewandte Laseranemometrie (GALA)
- (11) Verein Deutscher Ingenieure (VDI)
- (12) Deutsche Gesellschaft für Luft- und Raumfahrt (DGLR)