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Short Biographical Sketch

André Thess (born 22. February 1964) is the Director of the Institute of Engineering Thermodynamics at the German Aerospace Center (DLR) and Professor of Mechanical Engineering at the University of Stuttgart. His research fields are thermochemical energy storage, electrochemical energy storage and analysis of energy systems. His particular interests are simulation of energy storage systems from the micro- to the macroscale, the development of isentropic energy storage technologies and electric flight. Professor Thess's book "The Entropy Principle – Thermodynamics for the Unsatisfied" has contributed to the improvement of teaching methods in undergraduate Engineering Thermodynamics. Professor Thess is currently teaching "Thermodynamics of Energy Storage Systems" (in the winter term) and "Culinary Thermodynamics" (in the summer term). Culinary Thermodynamics is the first course at a German University that gives an evidence-based scientific proof of the superiority of home-made food over convenience food.

André Thess received his PhD (summa cum laude) in Theoretical Physics from Dresden University of Technology in 1991. From 1991 to 1993 he carried out post-doctoral research at Ecole Normale Supérieure de Lyon (France), at Institute de Mécanique de Grenoble (France) and was a post-doctoral fellow of the German Science Foundation (DFG) at Princeton University (USA). At the age of 34 years he was appointed as a Professor of Engineering Thermodynamics in 1998 at Ilmenau University of Technology. André Thess was visiting Professor at the University of Nagoya (Japan), at Stanford University (USA) and at Northeastern University Shenyang (China) and was awarded the Research Prize of the State of Thuringia in 2007. Professor Thess is a member of Verein Deutscher Ingenieure (VDI), of the German Aerospace Society (DGLR), of the German Physics Society (DPG) and lifetime member of the American Physical Society (APS). He served as a member of the bureau of the International Union of Theoretical and Applied Mechanics (IUTAM) and as a board member of the GAMM. He has been member of the scientific board (Fachkollegium) of the German Science Foundation DFG from 2008 to 2016 and has served as a Chairman of the Research Training Group "Lorentz Force Velocimetry and Lorentz Force Eddy Current Testing" at Ilmenau University of Technology from 2010 to 2013. André Thess is married and has two sons.