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## Curriculum Vitae

Date of birth : 29. January 1963  
Place of birth : Hirschberg (Saale), Germany  
Parents : Prof. Dr. Herbert Frank, Prof. Dr. Brigitte Frank  
Family status: married, no children  
Nationality : German

- September 1969 - June 1977 :  
polytechnical secondary school in Berlin-Köpenick, Germany
- September 1977 to June 1981 :  
extended secondary school „Heinrich Hertz“ in Berlin-Friedrichshain, Germany;  
school with specialization in mathematics and natural sciences
- June 1981 :  
final school examination with excellence
- September 1981 - June 1986 :  
5 years study at Moscow State University (USSR) „M. W. Lomonossow“ in Theoretical  
Mechanics, specialization in Fluid Mechanics
- June 1986 :  
Diploma in Theoretical Mechanics with excellence;  
Title of the diploma thesis : „Gas dynamic effects in the propagation of pressure waves in  
three-phase flows of the type :fluid-hot solid particles-vapor boundary layer“
- September 1986 - December 1991 :  
Scientific staff member at the Institute of Mechanics of the Academy of Sciences (AdW)  
of the GDR in Karl-Marx-Stadt, Department of Rheology and Multiphase Flows,  
Research Group on Multiphase Flows
- January 1992 :  
PhD at the University of Technology Bergakademie Freiberg, Faculty of Technical  
Sciences with ‘magna cum laude’  
Title of PhD thesis : „Numerical prediction of particle-laden gas flow in the horizontal  
channel under consideration of the wall roughness“
- January 1992 - December 1993 :  
Scientific co-worker in the Research Group on Multiphase Flows, Scientist Integration  
Program (WIP) of the German Government for scientist of former institutes of the east-  
german Academy of Sciences
- June/July 1994 :  
Research visit at the Washington State University, Pullman, Washington, USA
- January 1994 - December 1995 :  
Scientific staff member in the Research Group on Multiphase Flows at the University of  
Technology Chemnitz, Faculty of Mechanical Engineering and Process Technology,  
Department of Technical Thermodynamics

- January 1997 - March 1997 :  
Research visit at the University of Edinburgh, Edinburgh Parallel Computing Centre (EPCC), Scotland, UK and at the Department of Mechanical Engineering, Supervisor : Professor W. Easson, visit funded by the European Union (EU) within the program „Training and Research on Advanced Computing Systems (TRACS)”
- January 1996 – December 2002 :  
Head of the Research Group on Numerical Methods for Multiphase Flows at the Department of Technical Thermodynamics, Faculty of Mechanical Engineering and Process Technology, University of Technology, Chemnitz, Germany;  
Project leader of the EU/ECSC funded research program Contract-No. 7220-PR/050;  
Project leader of the partial project D2 in the Special Research program SFB-393 „Numerical simulation on massive parallel computers“, funded by the German Research Foundation (DFG) from January 1996 – December 2004;  
Member of the commission for conception, planning and realization of the Massive Chemnitz Linux Cluster System (CLIC) with 528 processors
- 21. June 2002 :  
Final defense of the Habilitation thesis (German academic degree for lecturer qualification) at the University of Technology Chemnitz, Faculty of Mechanical Engineering and Process Technology, Germany  
Title of the Habilitation Thesis : „Parallel algorithms for the numerical simulation of 3-dimensional, disperse multiphase flows and there application in process technology”;  
Lecturer qualification in the field of Fluid Mechanics;  
Title of probe lecture : „Fundamentals of particle precipitation in particle separators”
- since January 2003 :  
CFD software developer in the field of multiphase flows at AEA Technology GmbH / CFX-Germany (since 26. February 2003 : ANSYS Germany) , Otterfing, Germany;  
collaboration in the research project funded by the German Ministry of Economy and Labor (BMWA) „Development of CFD software for the simulation of multi-dimensional flows in reactor cooling systems“;  
Software developer for **CFX-5** – one of the major CFD codes worldwide
- February 2003 :  
Academic degree “Privatdozent” (University Lecturer) in the field of Computational Fluid Dynamics is awarded by the Faculty of Mechanical Engineering and Process Technology, Chemnitz University of Technology, Germany.
- since January 2005 :  
Head of the CFX development group “Multiphase Flow Modelling and Multiphysics Applications“, ANSYS Germany, Otterfing