

Professor Dr.-Ing. Dr. h.c. Matthias Kleiner



Married to Christine Burkhardt-Kleiner, Pastor
Three adult children: Mara Marthe, Jan Jonathan, and
Jürn Jakob
Research area: Production Engineering

Curriculum Vitae

1955

Born in Recklinghausen

1974

German Abitur, Geschwister-Scholl-Gymnasium, Dortmund

1975 - 1976

Alternative civilian service

1976 - 1982

Mechanical engineering studies, University of Dortmund
Student internship in machine and plant manufacturing and volunteer for the Protestant
Organization for Youth Education

1982

Diplom-Ingenieur degree, Mechanical Engineering

1982 - 1987

Research Assistant to Prof. E. v. Finckenstein, Chair of Forming Technology, University of
Dortmund

1987

Doktor-Ingenieur degree,
thesis: "Mehrprozessor-Steuerungen in der Umformtechnik"
(„Application of Multiprocessor-Controls in Forming Technology“)

1987 - 1994

Senior Researcher, University of Dortmund

1990

Research Prize of the Federal State of North Rhine-Westphalia

1991

Habilitation in the field "Forming Technology",
Thesis: "Prozesssimulation in der Umformtechnik"
("Simulation of Forming Processes")

1994 - 1998

Full Professor (C4), Chair of Design and Manufacturing at the newly founded Brandenburg Technical University of Cottbus (BTU Cottbus)

1995 - 1996

Vice Rector for Planning and Finance at BTU Cottbus' founding president's office

1997

Receipt of the Gottfried Wilhelm Leibniz Prize, awarded by the German Research Foundation (DFG)

1997 - 2000

Chairman of the Scientific Working Group on Forming Technology (Arbeitsgemeinschaft Umformtechnik (AGU))

1998

Election as Ordinary Member of the Berlin-Brandenburg Academy of Sciences and Humanities (formerly Prussian Academy of Sciences and Humanities)

Since 1998

Full Professor, Chair of Forming Technology, University of Dortmund

1999 - 2005

Member of various DFG committees: Scientific Instrumentation, Peer Review Committee in the field of production engineering, Nomination Committee for the Gottfried Wilhelm Leibniz Prize, Senate, Joint Committee and Grants Committee, Senate Committee on Strategic Planning

1999 - 2006

Participation in DFG coordinated programs:

- DFG Research Unit 366: Simulation-Aided Offline Process Design and Optimization in Manufacturing Sculptured Surfaces (participating fields: statistics, computer science, mathematics, production engineering)
- DFG Collaborative Research Centre 475: Reduction of Complexity for Multivariate Data Structures (participating fields: statistics, computer science, mathematics, biometrics, medicine, economics, production engineering)
- Coordinator of DFG Priority Program 1098: "Working Media-based Sheet Metal Forming"

- DFG Research Unit 443: "Investigation of the Working Mechanisms of Electromagnetic Sheet Metal Forming" (participating fields: mathematics, mechanics, materials science, electrical engineering, production engineering)
- DFG Collaborative Research Centre 531: "Design and Management of Complex Technical Processes and Systems by Means of Computational Intelligence Methods" (participating fields: computer science, mathematics, statistics, chemical engineering and production engineering)
- DFG Transregional Collaborative Research Center SFB/TR10: "Flexible Production of Lightweight Structures", (participating fields: lightweight construction, materials science, production engineering)
- DFG Research Unit 552: "Principles of Sheet Metal Hot Forming of Quenchable Steels" (participating fields: materials science, production engineering)
- DFG Transregional Collaborative Research Center SFB/TR 30: "Process-Integrated Manufacturing of Functionally Graded Structures on the Basis of Thermo-Mechanically Coupled Phenomena" (participating fields: mathematics, mechanics, materials science, production engineering)
- Initiative of the SFB 708 „3D Surface Engineering...“ (participating fields: statistics, computer sciences, mathematics, materials science, production engineering)

2000 - 2002

Dean of the Faculty of Mechanical Engineering, University of Dortmund - (followed by a term as vice dean until 2005)

2000 - 2003

Co-spokesperson of the „Culture Technology“ research initiative at the University of Dortmund

2000

Appointment to a "Canadian Research Chair " (Full Professor in Metal Forming), McMaster University, Hamilton, Canada (declined by Prof. Kleiner)

2001

Appointment to the board of directors of an industrial group (declined by Prof. Kleiner)

2004 – 2006, 2013-2014

Member of the Scientific Commission of Lower Saxony (Wissenschaftliche Kommission Niedersachsen)

2004 – 2006, 2013- 2014

Managing Director of the newly founded Institute of Forming Technology and Lightweight Construction (IUL), TU Dortmund University

2005 - 2006

Member of the „acatech“ Executive Board

2005 - 2006

Vice President of the German Research Foundation (DFG)

2007 - 2012

President of the German Research Foundation (DFG)

2007 - 2010

Vice President of the European Science Foundation (ESF)

2009

Honorary Doctor's Degree at the Technical University of Cluj-Napoca, Romania

2010

Officer's Cross of the Order of Merit of the Federal Republic of Germany

2011

Co-founder of Science Europe

2011

Co-chairman of the German Ethics Commission for a Safe Energy Supply

2012

Co-founder of the Global Research Council (GRC)

2012 - 2016 Member of the Scientific Council of the European Research Council (ERC)

Since July 1st 2014

President of the Leibniz Association

Relevant Memberships and Distinctions (not exhaustive)

Scientific Academies

- Academia Europaea
- acatech – Council of Technical Sciences of the Union of German Academies of Sciences and Humanities
- Berlin-Brandenburg Academy of Sciences and Humanities
- German Academy of Natural Scientists Leopoldina
- European Academy of Sciences and Arts
- Indian National Science Academy
- Russian Academy of Engineering
- Swiss Academy of Engineering Sciences

Scientific Associations

- CIRP - The International Academy for Production Engineering
- WGP – German Academic Society for Production Engineering (Wissenschaftliche Gesellschaft für Produktionstechnik)
- AGU – Scientific Working Group on Forming Technology (Wissenschaftliche Arbeitsgemeinschaft Umformtechnik)
- Board of Trustees, FOSTA Research Association for Steel Application

Scientific Committees and Boards

- Global Learning Council (Chair)
- Governing Board of Science Europe (SE)
- STS Council - Science and Technology in Society Forum, Japan
- Global Learning Council (GLC) (Chair)
- Tang Prize International Advisory Board, Taipei
- Advisory Committee Japan Science and Technology Agency (JST), Tokyo
- Jury for the German Innovation Prize
- Jury for the Georg von Holtzbrinck-Prize for Science Journalism
- Scientific Council of the Private Excellence Initiative Johanna Quandt, Charité (Chair)
- International Advisory Board for the Development of Competence Centers on Artificial Intelligence Research in Germany (Chair)

Councils of Universities

- University Council, Goethe University, Frankfurt (Chair)
- Board of Trustees, TU Berlin
- International Advisory Board, Faculty of Engineering Technology, University of Twente, NL

Boards of Foundations

- Board of Trustees, Deutsche Telekom Foundation
- Advisory Board, Werner Siemens Foundation
- Scientific Advisory Board, Fritz Thyssen Foundation
- Supervisory Board Futurium gGmbH (Vice-chair)

Boards of Enterprises

- Advisory Board, Winkelmann Group
- Advisory Board, Siepmann Werke
- Advisory Board, ALHO Holding