

CURRICULUM VITAE

Prof. Dr.-Ing. Thomas Boellinghaus
born 1960 in Detmold, Germany



EDUCATION AND ACADEMIA

- High School Diploma 1979
- Dipl.-Ing. in Mechanical Engineering at the Helmut-Schmidt-University Hamburg (1984)
- Basic studies of Computer Science at Hagen University (1984 - 1989)
- International Welding Engineer, Hamburg (1991)
- Dr.-Ing. (summa cum laude) at the Helmut-Schmidt-University Hamburg (1995)
Doctoral Thesis: Effects of Shrinkage Restraints and Hydrogen Distributions on the Cold Cracking Behaviour in Welds
- Habilitation in Materials Science and Welding Technology at the Helmut-Schmidt-University Hamburg (1999)
Habilitation Thesis: Hydrogen Assisted Cracking in Structural Metallic Materials

PROFESSIONAL EXPERIENCE

- Officer in the Technical Troops of the German Federal Armed Forces (1979-1991)
- Research Assistant in the Laboratory for Materials Science and Welding Technology, Faculty of Mechanical Engineering at the Helmut-Schmidt-University Hamburg (1991 - 1999)
- General Manager of the Institute for Failure Analysis and Failure Prevention (ISSV) at the Helmut-Schmidt-University Hamburg (1996-1999)
- Head of Division V.5 Safety of Joined Components at the Federal Institute for Materials Research and Testing (BAM) (1999-2006)
- Vice President of the Federal Institute for Materials Research and Testing (since 2003)
- Honorary Professor for Failure Analysis and Failure Prevention and co-opted member of the Faculty for Mechanical Engineering at the Otto-von-Guericke University Magdeburg (since 2008)
- Head of Department 9 Component Safety at the Federal Institute for Materials Research and Testing (BAM) (since 2011)
- Coordinator for the Topic Field Materials at the Federal Institute for Materials Research and Testing (BAM) (since 2014)

RESEARCH INTERESTS

- Mechanisms and numerical simulation of hydrogen transport and cracking in metals
- Stress corrosion cracking and cold cracking of components and structures
- Solidification, phase transformation and hot cracking of welds
- Failure analysis and failure prevention
- Design, production and service life of components and structures

SCIENTIFIC HONORARY ACTIVITIES (selection)

- More than 110 scientific publications
- Acquisition of more than 15 major funded research projects
- Supervision of more than 15 Doctoral Theses
- Supervision of more than 100 Study, Diploma and Master Theses
- President of the WMRIF – World Materials Research Institute Forum (2011 - 2015)
- Editor of the scientific journals Materials Testing (since 2000) and Welding in the World (since 2009)
- Chairman of Commission IX Behavior of Materials Subjected to Welding, IIW – International Institute of Welding (2005 – 2014)
- Member of the Board of Directors, IIW – International Institute of Welding (since 2014)
- Member of the Technical Management Board, IIW – International Institute of Welding (2009 – 2011)
- Chairman of the Standardization Committee Joining and Allied Processes of the DIN – German Institute for Standardization (since 2001)
- Member of the Presidential Board, DVS – German Welding Association (since 2007)