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Academic Career

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| born 26 th March 1957 | Hamm, Germany |
| 1981 | Graduation in Civil Engineering (Dipl.-Ing. (FH), University of Applied Sciences, Münster) |
| 1986 | Graduation in Civil Engineering (Dipl.-Ing.), University of Hannover |
| 1988 – 1992 | Research assistant, Institute of Fluid Mechanics, University of Hannover |
| February 1993 | Doctoral degree (Dr.-Ing.), University of Hannover |
| 1993 – 1997 | Research assistant, Institute of Hydraulic Engineering, University of Stuttgart |
| November 1996 | Habilitation degree (Dr.-Ing. habil.), University of Stuttgart |
| 1997 – 1998 | Acting Professor for Numerical Methods and Information Processing, TU Braunschweig |
| 1998 – 2000 | Full Professor for Numerical Methods and Information Processing at the Institute of Computer Applications in Civil Engineering, TU Braunschweig |
| since 2000 | Full Professor for Hydromechanics and Modelling of Hydrosystems; Director, Institute for Modelling Hydraulic and Environmental Systems, University of Stuttgart |

Internal and External Positions, Miscellaneous

- Member of the editorial boards of *Advances in Water Resources* (since 1999), *Computational Geosciences* (since 2007); former member of the editorial board of *GEM – Journal on Geomathematics* (2009 – 2017); former Associate Editor of *Water Resources Research* (2011 – 2016)
- Peer reviewer for, among others, the German Research Foundation (DFG), the German Federal Ministry of Education and Research, the European Union, the Research Council of Norway, the Dutch National Science Foundation, the Danish Council for Strategic Research, the Swiss National Science Foundation, USA National Science Foundation
- Vice-spokesman of the Collaborative Research Centre SFB404 “Multifield Problems in Continuum Mechanics” (DFG) from May 2002 to December 2006
- Elected member (2003-2006) and elected Chairman (2006-2011) of the Senate Commission on Water Research of the German Research Foundation (DFG)
- German spokesman of the International Research Training Group “Non-linearities and upscaling in porous media” (NUPUS (DFG)) in cooperation with the Dutch universities Delft, Eindhoven, Utrecht and Wageningen and the Norwegian university Bergen (2007-2015)
- Principal investigator and member of the Executive Board of the Cluster of Excellence “Simulation Technology” at the University of Stuttgart (since April 2007)
- Course coordinator at the University of Stuttgart of the study programs: Simulation Technology (since 2009), Environmental Engineering (2001-2008), Water Resources Engineering and Management (2002-2004), International Doctoral Program Environment Water (2002-2004)
- Member of the joint steering committee of the GEOTECHNOLOGIEN research programme of the German Federal Ministry of Education and Research (2008-2015)
- Information and dialogue process initiated by ExxonMobil on the safety and environmental impact of fracking in natural-gas production: member of the expert committee (2011-2012)
- President of the International Society for Porous Media (InterPore, 2009-2011)
- Darcy Lecturer 2015, selected by the US National Ground Water Association
- 19 invited keynote and plenary lectures at international conferences during the past 8 years, e.g. Gordon Conference 2012, Shell lecture 2013, Rice University, Houston, USA
- Main supervisor to over 40 doctoral students (past and present) and 7 habilitation candidates (of whom 6 are now professors). More information at:
Doctorates (main supervisor): https://www.iws.uni-stuttgart.de/lh2/team/mitarbeiterpdfs/promoliste_rainer_hauptber-1.pdf
Doctorates (co-supervisor): https://www.iws.uni-stuttgart.de/lh2/team/mitarbeiterpdfs/promoliste_rainer_mitberichter.pdf
Habitations: https://www.iws.uni-stuttgart.de/lh2/team/mitarbeiterpdfs/habils_rhelmig.pdf
- Member of more than 100 doctoral committees (in Germany, Canada, Denmark, France, Greece, the Netherlands, Norway, Switzerland, Tunisia and the UK) and 12 habilitation committees (in Germany, France and Switzerland)
- **Awards**
- Dresden Prize for Groundwater Research 1995
- Teaching award for the lecture “Hydromechanics” at the University of Stuttgart (winter semester 2007/08)

- Elected Member of the Heidelberg Academy of Sciences and Humanities (Heidelberger Akademie der Wissenschaften, since 2010)
- NOW-von Humboldt Stiftungspreis 2012
- NGWA Darcy Lecturer 2015
- Elected member of the National Academy of Science and Engineering (acatech)
- InterPore Honorary Lifetime Membership Award 2019
- Magne Espedal Adjunct Professor at the University of Bergen, 2019 - 2021

Memberships in professional scientific organisations

American Geophysical Union, International Society for Porous Media, Society for Industrial and Applied Mathematics, Society of Petroleum Engineers

Research visits

USA: March – October 1991, Lawrence Berkeley Laboratory, University of California at Berkeley
 USA: January 1999, Institute for Mathematics and its Applications, University of Minnesota
 USA: March 1999, Institute for Scientific Computation, Texas A&M University
 Japan: May 2000, Saitama und Tokyo University
 USA: June 2002, Mount Holyoke College, South Hadley, Massachusetts, Institute for Mathematics
 USA: March 2003, Institute for Scientific Computation, Texas A&M University
 China: July 2005, Visiting professor, Shandong University, Jinan
 Norway: April and May 2006, University of Bergen, CIPR
 Netherlands: June 2006, University of Utrecht
 Netherlands: September 2010, TU Eindhoven
 Netherlands: April – July 2012, University of Utrecht

Organising and scientific committees (selected, since 2008)

- International Conferences on Porous Media and Annual Meeting of InterPore: Programme Committee since 2017 (Rotterdam, Netherlands, 8.-11.5.2017; New Orleans, LA, USA, 14.-17.5.2018; Valencia, Spain, 6.-10.05.2019; Qingdao, China, 25.-28.5.2020)
- 25th Salt Water Intrusion Meeting (Danzig, Poland, 17.-22.6.2018)
- SIAM Conference on Mathematical and Computational Issues in the Geosciences 2017 (Erlangen, 11.-14.9.2017)
- Ninth International Conference on Porous Media (Rotterdam, Netherlands, 8.-11.5.2017)
- Gordon Research Conference on Flow and Transport in Permeable Media, Chair (Girona, Spain, 31.7.-5.8.2016)
- Gordon Research Conference on Flow and Transport in Permeable Media, Vice-Chair (Lewiston, ME, USA, 6.-11.7.2014)
- XX. International Conference on Computational Methods in Water Resources – CMWR 2014 (Stuttgart, 10.-13.6.2014)
- International Conference on Non-linearities and Upscaling in Porous Media (Bergen, Norway, 30.9.-2.10.2013)
- Fourth International Conference on Porous Media and its Applications in Science, Engineering and Industry (Potsdam, 17.-22.6.2012)
- XIX. International Conference on Computational Methods in Water Resources – CMWR 2012 (Urbana-Champaign, IL, USA, 18.-21.6.2012)
- Fourth International Conference on Porous Media (West Lafayette, IN, USA, 14.-16.5.2012)
- Organisation of a session on Complex Porous Media at the AGU Fall Meeting (San Francisco, USA 13.-17.12.2010)
- Second International Conference on “Challenges of Porous Media” (College Station, Texas, USA, 14.-16.3.2010)
- Organisation of a session on Complex Porous Media at the AGU Fall Meeting (San Francisco, USA, 14.-18.12.2009)
- International Conference on Non-linearities and Upscaling in Porous Media (Stuttgart, 5.-7.10.2009)
- Workshop on Modelling and Risk Assessment of Geological Storage of CO₂ (Svalbard, Norway, 3.-6.8.2009)
- First International Conference on “Challenges of Porous Media” (Kaiserslautern, 11.-14.3.2009)
- 11th European Conference on the Mathematics of Oil Recovery (Bergen, Norway, 8.-11.9.2008)
- Gordon Research Conference on Flow and Transport in Permeable Media (Oxford, UK, 13.-18.7.2008)
- IAHR International Groundwater Symposium 2008: Flow and Transport in Heterogeneous Subsurface Formations: Theory, Modelling & Applications (Istanbul, Turkey, 18. – 20.6.2008)
- Numerical Models for Carbon Dioxide Storage in Geological Formations (Stuttgart, 2.-4.4.2008)