

## Curriculum Vitae Volker Mehrmann, 10.06.10

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### Academic Background

- 1988 Habilitation in Mathematics , Universität Bielefeld, West Germany
- 1979–1982 Ph.D., Mathematics, Univ. of Bielefeld, West Germany (part of Ph.D. program at Kent State University, Kent, Ohio , USA)
- 1973–1979 Diploma in Mathematics and Teachers Exam in Mathematics and Physics, Univ. of Bielefeld, West Germany

### Research interests

Numerical Analysis, Matrix Theory, Control Theory, Parallel Computing

### Employment

- 2002–2008 deputy chair, and since 2008 chair of DFG Research Center MATHEON **Mathematics for key technologies** in Berlin.
- 2000– Full Professor, Dept. of Mathematics and Sciences, TU Berlin
- 1993–2000 Full Professor, Dept. of Mathematics, TU Chemnitz
- 1990–1992 Visiting Full Professor, Inst. f. Geometry and Practical Math, RWTH Aachen
- 1988–1989 Visiting research fellow, IBM Scientific Center Heidelberg, Institute for Supercomputing and Applied Mathematics, Heidelberg
- 1980–1993 Various levels of employment, Dept. of Mathematics, Univ. of Bielefeld
- 1984–1985 Visiting research professor, Dept. of Mathematics, University of Wisconsin, Madison, Wisconsin
- 1979–1980 Teaching Assistant, Department of Mathematics, Kent State University, Kent, Ohio USA

### Selected Honors

- Since April 2009, elected member of acadtech, the German Academy of Engineering.
- 2000–2008, elect. member of the math. committee of the DFG (German Science Found.) Chair 2000-2004.
- Since 2008 elect. member of the math. panel PE 1 of ERC (European Research Council)
- Since 2002, Member of scientific advisory board, Centro de Estruturas Lineares e Combinatorias, Universidade de Lisboa, Portugal.
- Since 2006, Member of scientific advisory board, Hamilton Institute, National Univ. of Ireland, Maynooth, Ireland.
- Since 2008, Member of scientific advisory board, Excellence-cluster **Simulation Technology**, Univ. Stuttgart.
- Since 2009, Member of scientific advisory board, CERFACS Toulouse.

### Member of Editorial Boards

- Editor-in-Chief for *Linear Algebra and its Applications* (since 01.07.99) (with Richard Brualdi and Hans Schneider)
- Associate Editor for *Electronic Transactions Numerical Analysis*
- Associate Editor for *Linear and Multilinear Algebra*
- Associate Editor for *Numerische Mathematik*
- Associate Editor for *Numerical Linear Algebra and with Applications*
- Associate Editor for *SIAM Journal on Matrix Analysis and Applications until 2005*

### Prize committees

- Chair of the ICIAM *Lothar Collatz Prize Committee* 2007.
- Member of committee *SIAM Best Paper Award in Linear Algebra*. 1996–2000, Chair 1999/2000
- Member of committee for the *Householder Prize*, since 1999.
- Member of committee for the *EMS Prize*, 2008.

### Membership in Scientific Organizations

- AMS,
- EMS, (Vice chair of Applied Math Committee, Editor of internet pages 2000-2006),
- DMV,
- ILAS, (Member of board 1998-2000, Chair of Advisory Committee 2008-2010),
- GAMM (Chair of special interest group “Applied and numerical linear algebra” 2001–2003, Member of executive board 2005–2010, President elect, beg. 1.1.2011),
- ICIAM (Member of Board, 2009–)
- SIAM (Vice chair of SIAM Linear Algebra Group 1998–2001, member of nomination committee 2005–2008)

### Selected research projects 2005-2010

- 2001–2010 *Systemreduction und optimal control of flows*, Project C7 in DFG collaborative research center 557, with F. Tröltzsch
- PI of 5 Projects of DFG Research center MATHEON *Mathematics for key technologies*.
- 2003–2006 *The mathematical heritage of Helmut Wielandt*, DFG-Research project with I. Ipsen, O. Holtz, W. Knapp, P. Schmid, and H. Schneider.
- 2006–2009 *Numerical algorithms for generalized eigenvalue problems with even structure with applications for the robust control of descriptor systems*. DFG-Research project with P. Benner.
- 2008–2010 DFG Research project *Computation of Density functions for stochastically excited mechanical systems via the solution of Fokker-Planck equations* with Utz von Wagner.
- 2009–2011, DFG Research project *Modelling, Simulation, and Control of Drop Size Distributions in Stirred Liquid/Liquid Systems* with Matthias Kraume, and Michael Schäfer.
- 2009-2010, ESF/EMS Project *A Forward Look on Mathematics and Industry*, Leader of Workpackage II. The interface between mathematics and industry.