

Curriculum Vitae

Martin Grötschel

detailed information at <http://www.zib.de/groetschel>

Date / Place of birth: September 10, 1948, Schwelm, Germany
Family: Married, 3 daughters



Affiliation and current positions:

Full Professor at Technische Universität Berlin (TU) Institut für Mathematik Str. des 17. Juni 136 D-10623 Berlin, Germany Phone: +49 30 84185 210	Vice President of Konrad-Zuse-Zentrum für Informationstechnik Berlin (ZIB) Takustr. 7 D-14195 Berlin, Germany E-mail: groetschel@zib.de
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Scientific vita:

1969 – 1973 Mathematics and economics studies, U Bochum
1977 PhD, U Bonn
1981 Habilitation, U Bonn
1973 – 1982 Research Assistant, U Bonn
1982 – 1991 Full Professor, U Augsburg (Chair for Applied Mathematics)
since 1991 Full Professor at TU Berlin, Inst. of Mathematics, and Vice President of ZIB
since 2002 Chair of the DFG Research Center MATHEON "Mathematics for key technologies"

Selected awards:

1978 Prize of U Bonn for the best dissertation of the preceding academic year
1982 Fulkerson Prize of the American Math. Society and Math. Programming Soc. (MPS)
1990 Karl Heinz Beckurts Prize (for technology transfer to industry)
1991 George B. Dantzig Prize of the MPS and the Soc. for Ind. and Appl. Math. (SIAM)
1995 Leibniz Prize of the German Research Foundation (DFG)
1998 Honorary Member of the German Mathematical Society (DMV)
1999 Scientific Prize of the German Association of Operations Research (GOR)
2004 EURO Gold Medal (EURO - The Ass. of European Operational Research Societies)

Membership in scientific academies:

1995 Member of the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW)
1999 Foreign Associate of the National Academy of Engineering, USA
2003 Member of acatech - Council of Technical Sciences of the Union of the German Academies of Sciences and Humanities
2005 Member of Leopoldina (German Academy of Sciences)

Selected invited and plenary lectures since 2000:

2000 17th International Symposium on Mathematical Programming, Atlanta, USA
2000 20th Conference on the Foundations of Theoretical Computer Science, New Delhi, India
2000 Conference on "High Performance Scientific Computing", Hanoi, Vietnam
2001 EMS-SIAM Conference "Applied Mathematics in Our Changing World", Berlin, Germany
2002 Mekler Lecture, Simon Fraser University, Burnaby, BC, Canada
2002 SIAM 50th Anniversary Meeting, Philadelphia, USA

2002 Gödel Lecture, Austrian Academy of Sciences, Vienna, Austria
2003 European Conf. on Combinatorics, Graph Theory and Applications, Prague, Czech Rep.
2004 20th European Conference on Operational Research, Rhodes, Greece
2005 International Network Optimization Conference, Lisbon, Portugal
2005 Landau Center Anniversary Symposium, Jerusalem, Israel
2005 Celebration of the 70th anniversary of the Chinese Mathematical Society, Weihai, China
2006 ICM 2006, Madrid, Spain
2006 IFORS Distinguished Lecturer at XIII CLAIO, Montevideo, Uruguay

Editorship: Member of the editorial board of 10 scientific journals (e.g. , Networks, SIAM Journal on Discrete Mathematics, Mathematical Programming, Mathematical Methods of Operations Research)

Functions in scientific organizations, scientific service:

1984 – 1986 Dean of the Faculty of Science, U Augsburg
1985 – 1988 Member of the Executive Committee of the MPS
1989 – 1996 Member of the Executive Committee of the DMV
1992 – 1993 President of the DMV
1998 President of the Organizing Committee of the ICM 1998 in Berlin
1999 – 2006 Member of the Executive Committee of the International Mathematical Union (IMU)
since 2001 Member of the Executive Board of BBAW
since 2004 Member of the Supervisory Board of the Austrian Science Fund (FWF)

Fields of research:

For detailed information see <http://www.zib.de/groetschel/research/projects.html>.

Main research areas: optimization, discrete mathematics, and operations research. Current special interest: design of practically efficient algorithms for hard optimization problems. More than twenty application projects with industry partners in areas such as telecommunication, chip design and very large scale integration, flexible manufacturing and production planning, logistics, public transportation.

25 PhD students and over 120 master students.

Selected publications:

For detailed information see <http://www.zib.de/groetschel/research/Musterbiblio.html>.

I have authored and edited 8 books and written more than 100 papers.

Hartwig Bosse, Martin Grötschel, Martin Henk:

Polynomial inequalities representing polyhedra, Math. Programming, Series A, 103:1 (2005) 35-44

Martin Grötschel, Olaf Holland:

Solution of large-scale symmetric travelling salesman problems, Math. Programming, Series A, 51:2 (1991) 141-202

Martin Grötschel, Klaus Truemper:

Decomposition and Optimization over Cycles in Binary Matroids, Journal of Combinatorial Theory, Series B, 46:3 (1989) 306-337

Martin Grötschel, László Lovász, Alexander Schrijver:

The ellipsoid method and its consequences in combinatorial optimization, Combinatorica, 1:2 (1981) 169-197