Curriculum Vitae

Prof. Dr. Manfred Rühle



born 1938 Stuttgart, Germany

Education

Dec. 1962 Dipl.-Phys. Universität Stuttgart (Physics and Mathematics)

Oct. 1966 Dr. rer. nat. (Ph.D.) Universität Stuttgart (Physics)

Employment

Since April 1, 2005 Emeritus Director

Institute)

since 1989 Scientific Member and Director at the Max Planck Institute for Metals Research, Honorary Professor, Universität Stuttgart, Stuttgart

1994-1999 Managing Director of the Max Planck Institute for Metals Research, Stuttgart

1993-1996 Director of the "Institut für Werkstoffwissenschaft" at the Max Planck Institute for Metals Research, Stuttgart

1991-1993 Interim Director at the Max Planck Institute for Microstructure Physics, Halle/Saale (transition from an Institute of the Academy of Sciences of the GDR to a Max Planck

1986-1989 Professor, Materials Department, University of California at Santa Barbara, CA/USA

1971-1986 Group Leader, Electron Microscopy in Materials Science, Max Planck Institute for Metals Research, Stuttgart

1970-1971 Visiting Scientist, Materials Science Division, Argonne National Laboratory, IL/USA

1967-1970 Research Associate, Max Planck Institute for Metals Research, Stuttgart

Professional Memberships

- American Ceramic Society
- Materials Research Society
- American Physical Society
- Microscopy Society of America
- German Society for Electron Microscopy
- National Academy of Engineering, USA
- German Society for Materials Science
- The Institute of Materials (London)

Professional Honors

- 2006 Honorary Member, Deutsche Gesellschaft für Materialkunde (DGM)
- 2005 Honorary Degree (Dr. Ing. E.h.) from Lehigh University in Bethlehem/PA, USA
- 2002 Peter G. Winchell Memorial Lecture, Purdue University, West Lafayette/IN, USA
- 2002 Distinguished Life Member of the American Ceramic Society
- 1999 Honorary Degree (Dr.-Ing. E.h.) from Hanyang University, Seoul, Korea
- 1999 Heyn-Denkmünze der Deutschen Gesellschaft für Materialkunde
- 1998 Foreign Associate Member of the National Academy of Engineering of the USA
- 1997 Distinguished Visiting Professor, Materials Department, University of California at Santa Barbara
- 1996 Distinguished Research Fellow, Materials Research Laboratory, University of California at Santa Barbara

1996	Distinguished Lecturer, Frontiers of Electron Microscopy in Materials Science, Chicago/IL, USA
1996	The Robert Maddin Lecture, University of Pennsylvania, Philadelphia/PA, USA
1996	Van Horn Distinguished Lecturer, Case Western Reserve University, Cleveland/OH, USA
1995	Member of the Academia Europaea, London, UK
1995	Fellow of the Institute of Materials, London, UK
1995	John E. Dorn Memorial Lecture, Northwestern University, Evanston/IL, USA
1995	Sosman Memorial Lecture (American Ceramic Society)
1992	Member, Academy of Ceramics
1992	Fellow of the American Ceramic Society
1987	Acta Metallurgica Outstanding Paper Award for 1986
1983	Prince Award, Arizona State University
1982	Carl-Wagner-Preis
1969	Masing-Preis

Professional Activities

2004	International Advisory Board, International Center for Materials Research at UCSB, CA,
	USA
2004	International Advisory Board, International Center for Young Scientists at NIMS,
	Tsukuba, Japan
2002	International Advisory Committee of Shenyang National Laboratory for Materials
	Science, P.R. China
2002	International Review Panel on Materials Research in the United Kingdom (sponsored by
	EPSRC)
2001-2002	President, German Society for Materials Science
2000-2003	Chairman of the Scientific Council of the Max Planck Society
1999	Advisory Board of the Department of Energy (DOE) of the USA
1999-2000	Member, Board of the German Society for Materials Science
1995-1997	Member, Council of the Materials Research Society, Pittsburgh/PA, USA
1994-1997	President, German Society for Electron Microscopy
1990-1992	Member of Founding Committee of the Technical Faculty of the University of Kiel
1987-1990	Review Committee, Materials Science Division, Argonne National Laboratory

Scientific Journals

2003	Editor-in-Chief, Zeitschrift für Metallkunde
2002	Editorial Board, Reports on Progress in Physics
2001-2009	Co-Editor, Annual Review of Materials Research
1999	Editorial Board, Advanced Engineering Materials
1998	Editorial Board, Materials Science & Engineering A
1996-2002	Co-Editor, Interface Science (with D. Srolovitz)
1996	Regional Editor, Journal of Microscopy
1996	Regional Editor, Journal of Electron Microscopy
1996	Editorial Board, Ultramicroscopy
1995-2003	Co-Editor, Zeitschrift für Metallkunde (with G. Petzow, P. Schepp)

Research Interests

Microstructure-properties relationship of advanced materials. Microstructural characterization of high performance materials with emphasis on transmission electron microscopy, including high-resolution and analytical electron microscopy, structure of grain boundaries in ceramics, analysis of atomistic structure of interfaces, determination of chemical composition of materials with high spatial resolution, bonding and debonding mechanisms at interfaces. Displacive transformations in inorganic materials.