

Wilde, Gerhard, Univ.-Prof. Dr.-Ing. (* 1966)

Married, one Daughter (born 1987)

Address:

University of Münster
Institute of Materials Physics
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Scientific Career

1985	Abitur, Maximilian-Kolbe Gymnasium in Cologne (Köln), Germany
1985 – 1986	Military Service at III. Fernmeldekorps 330 (Lance Corporal)
1986 – 1992	Studies of Physics (major in Solid-State Physics), University of Cologne (Köln), Germany
1992 – 1993	Diploma in Physics, thesis done at the University of Cologne and the German Aerospace Research Agency (DLR)
1993 – 1994	Project Scientist within the Euro-Russian Space mission EUROMIR
1994 – 1997	PhD studies at the Technical University (TU) Berlin, Germany
1997	Dr. Ing. in Materials Science (Prof. H.J. Fecht), TU Berlin, Germany.
1997 - 1999	Feodor-Lynen Fellowship of the Alexander von Humboldt Foundation at University of Wisconsin-Madison, Dept. of Materials Science (Prof. Dr. J.H. Perepezko)
1999 - 2001	Senior Researcher, Research Center Karlsruhe, Nanostructured Materials Group (Prof. Dr. H. Gleiter)
2001 – 2004	Emmy-Noether Fellowship of the DFG, Research Center Karlsruhe and University of the Saarland
2004 – 2006	Group leader, Research Center Karlsruhe and Full Professor (W2, temporary appointment) at Saarland University
Since 2006	University Professor W3 (permanent, University of Münster); Director of the Institute of Materials Physics
Since 2007	Scientific Member of the Center of Nanotechnology (CeNTech), Münster.
Since 2012	Member of the Board of Reviewers of DAAD
Since 2013	Member of the Rectorat's Commission on Internationalization
Since 2013	Permanent Member of the Board of Reviewers of the DAAD
Since 2016	Senior PI at the Herbert-Gleiter Institute at Nanjing, China
Since 11/2016	Vice-Dean of the Department of Physics, University of Münster

Awards and Honours

1997	Feodor-Lynen Fellowship of the Alexander von Humboldt Foundation
2001	Emmy-Noether Fellowship of the DFG

2001	Founding Member of the “Center for Functional Nanostructures, (CFN)”, Karlsruhe
2003	Fellowship within the „Excellent Young Leaders“-program of the Forschungszentrum Karlsruhe
2004	Fellowship of the President’s funds of Helmholtz society
Since 2007	„Overseas“-Professor, Anna University, Chennai, India
2009	Guest Professor, University of Vienna, Vienna, Austria
2009	Guest Professor, CNRS and University of Rouen, Rouen, France
2010	CSIR-Humboldt Research Award 2010 for lifetime scientific achievements
2011 - 2016	Honorary Professor at the University of Hyderabad, India
2013 – 2018	Honorary Professor at the North-Eastern University, Shenyang, China
2014 – 2016	Shanghai Qian Ren (Thousand Talents) Program
Since 2016	Elected speaker of the “Materials and Metals Physics” division of the German Physical Society
Since 2016	Member of the board of directors and Head of a research group at the Herbert Gleiter Institute at Nanjing University of Science and Technology
Several instances	“Outstanding reviewer of the year” – Award of Scripta Materialia and Acta Materialia

Member: Deutsche Physikalische Gesellschaft (DPG), Materials Research Society (MRS), The Minerals, Metals and Materials Society (TMS), Advisory board member of several national and international conferences, conference series, and international projects, editorial board member of Scientia Iranica and Journal of Nanoparticles

Scientific Output

- > 280 scientific publications
- > 4800 citations, h = 39 (Google Scholar)
- > 450 conference contributions
- > 170 invited lectures for scientific colloquia (incl. plenary- keynote and invited lectures at international conferences including TMS, MRS and different conference series)
- Host for > 10 Humboldt fellows, 2 Humboldt research prize winners, 1 Mercator Professor, several fellows of DAAD and other funding organizations

Scientific Interest

- Phase equilibria in nanostructured materials
- Ultrafine grained and nanostructured materials
- Thermodynamics and kinetics of phase transformations
- Relaxation, shear banding and nucleation in metallic glasses

Atomic mobility and transport at internal interfaces
Analysis of lattice defects and interfaces
Surface Nanostructuring

Professional Involvement

Reviewer for different journals, including: Scripta Materialia, Acta Materialia, Applied Physics Letters, Journal of Applied Physics, Advanced Materials, Nanotechnology, Nature Materials, Science, Advanced Engineering Materials, Journal of Physics, etc.

Reviewer for DFG (both for proposals within the “Normalverfahren” and for SFB-applications), DAAD (selection committee member) and AvH

Reviewer for different European funding agencies, including funding applications from: Austria, Czech Republic, Denmark, Great Britain, Hungary, Ireland, Poland, Slovakia.

Organizer and co-organizer of different conferences and workshops (incl. DPG, TMS)

Five important publications

- [1] Schmidt, V., Rösner, H., Peterlechner, M., Wilde, G., Voyles, P.M.: Quantitative Measurement of Density in a Shear Band of Metallic Glass Monitored Along its Propagation Direction. *Physical Review Letters*, **115** (2015) 035501.
- [2] Mitrofanov, Y.P., Peterlechner, M., Divinski, S.V., Wilde, G.: Impact of Plastic Deformation and Shear Band Formation on the Boson Heat Capacity Peak of Metallic Glass. *Physical Review Letters*, **112** (2014) 135901.
- [3] Bünz, J., Brink, T., Tsuchija, K., Meng, F., Wilde, G., Albe, K: Low temperature heat capacity of a severely deformed metallic glass. *Physical Review Letters*, **112** (2014) 135501.
- [4] Bokeloh, J., Rozas, R.E., Horbach, J., Wilde, G.: Nucleation Barriers for the Liquid-To-Crystal Transition in Ni: Experiment and Simulation. *Physical Review Letters*, **107** (2011) 145701 - 1-5.
- [5] Bokeloh, J., Reglitz, G., Divinski, S., Wilde, G.: Tracer Measurements of Atomic Diffusion inside Shear Bands of a Bulk Metallic Glass. *Physical Review Letters*, **107** (2011) 235503 – 1-5.