



Born in 1955

Married since 1984

Four children

Helmut Dosch

Education

- 1974 - 1981** Physics studies, University of Munich
- 1982 - 1983** Graduate student, Institut Laue-Langevin, Grenoble
- 1984** PhD, University of Munich
- 1984 - 1986** Postdoc, Cornell University, Ithaca, New York
- 1986 - 1991** Scientist, University of Munich
- 1991** Habilitation (experimental physics), University of Munich

Positions

- 1992** Guest Professor, University of Mainz
- 1993** Offer of Fiebiger professorship, University of Würzburg (declined)
- 1993 - 1997** Full Professor, University of Wuppertal
- 1997 - 2009** Director, Max Planck Institute for Metals Research, Stuttgart, and Full Professor, University of Stuttgart
- 2005 - 2006** Managing Director, Max Planck Institute for Metals Research
- since 2009** Chairman of the DESY Board of Directors and Full Professor, University of Hamburg
- since 2013** Vice-President of the Helmholtz Association

Memberships

German National Academy of Science Leopoldina

Deutsche Physikalische Gesellschaft (DPG)

European Physical Society (EPS)

International Union of Pure and Applied Chemistry (IUPAC)

Awards

- 1985** Feodor Lynen Award of the Alexander von Humboldt Stiftung (AvH)
- 1999** Fellow of the International Union of Pure and Applied Chemistry (IUPAC)
- 2002** Pin of Honour of Technical University Munich
- 2010** Röntgen Medal of the city of Remscheid (birthplace of W.C. Röntgen)
- 2013** Honorary Member of the Materials Research Society of India (MRSI)
- 2023** Honorary Doctorate of the TU Dortmund

Current advisory activities (selection)

Council of the European XFEL X-ray laser, Hamburg

Board of Governors, Argonne National Laboratory, University of Chicago

BESAC Committee of the Department of Energy (DOE), Washington

Founding Chair of the European LEAPS consortium, Brussels

Research fields

- Conception of new analytical methods using synchrotron radiation and neutrons
- Surface-sensitive X-ray scattering
- Diffuse X-ray and neutron scattering
- Order-disorder phenomena in condensed matter
- Fluctuations in matter
- Solid-liquid interfaces
- Binary alloys and phase transitions
- Ice surfaces and interfaces
- Organic films and nanostructures
- Nano-oxidation

Publications

- 200 publications in peer-reviewed journals between 1983 and 2009
- 10 000 citations (Google Scholar)
- h-index: 55

Books and strategy documents

H. Dosch and M.H. Van de Voorde

GENNESYS: Study on Nanoscience and Nanotechnology in Europe exploiting Synchrotron Radiation and Neutron Facilities

Max Planck Institute for Metals Research, Stuttgart (2009)

ISBN 978-3-00-027338-4

M. Rühle, H. Dosch, E. Mittemeijer, M. H. van de Voorde

European Whitebook on Fundamental Research in Materials Science

Max Planck Institute for Metals Research, Stuttgart (2000)

ISBN 3-00-008806-7

H. Dosch

Critical Phenomena at Surfaces and Interfaces: Evanescent x-ray and neutron scattering

Springer Tracts in Modern Physics 126 (1992)

Essays and comments

The European GENNESYS Project on Nanomaterials Science and Technology
IUMRS Facets 5 (No. 4), 1 (2006)

Die Nano-Zunft rückt zusammen

Bild der Wissenschaft 9/2005, 94-95 (2005)

The Need to Join Forces in Europe

Materials Today, December 2004, Opinion, 72 (2004)

Vorgabefrei, aber nicht ins Blaue

Physik Journal 1, No. 12, 3 (2002)

2011 - Odyssee im Nanokosmos

Max Planck Forschung 1/2002, 16-20 (2002)

Schnappschuss vom Schmelzen

Physikalische Blätter 56, No. 2, p. 11 (2000); ibid. No. 4, p. 22