



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
- 2024** Honorary Doctorate of the National Academy of Science of Ukraine

Current advisory activities (selection)

- Council of the European Synchrotron Radiation Facility (ESRF), Grenoble
- 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)

Vorgabenfrei, 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