

Dr. HELMUT SCHWARZ**CURRICULUM VITAE**

NAME/NATIONALITY/BORN: Helmut Schwarz/German/August 6, 1943

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Technische Universität Berlin
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DEGREES HELD: Diplom-Chemiker (1st class honours) 1971 (TU Berlin)
Dr. rer. nat. (1st class honours) 1972 (TU Berlin)
Habilitation 1974 (TU Berlin)
Professor of Chemistry 1978 (TU Berlin)

AWARDS/HONORS: Award of the German Chemical Society (1978)
van't Hoff Award, Royal Academy of Sciences, Amsterdam, The Netherlands (1980)
Otto Klung Award, Free University Berlin, Germany (1981)
Otto Bayer Award for Chemistry, Germany (1989)
Leibniz-Research Award, Deutsche Forschungsgemeinschaft, Germany (1990)
Election to the Academy of Sciences Erfurt, Germany (1991)
Max-Planck Research Award, Alexander von Humboldt-Stiftung, Germany (1991)
Elected Member of the German Academy of Science, LEOPOLDINA, Germany (1992)
Honorary Degree (Dr. phil. h.c.) Hebrew University of Jerusalem, Israel (1992)
Election to the Academy of Sciences, Berlin (formerly Prussian Academy of Sciences), Germany (1992)
J. J. Thomson Medal in Gold, International Mass Spectrometry Society (1994)
Election to the Academy of Sciences Göttingen, Germany (1997)
Election to the Academia Europaea, London, Great Britain (1997)
Lise Meitner-Alexander von Humboldt-Award, Israel Ministry of Sciences (1997)
Liebig Medal, German Chemical Society (1998)
Elected Foreign Honorary Member of the Learned Society of the Czech Republic (1999)
Honorary Degree (Dr. sc. h.c.) Israel Institute of Technology TECHNION Haifa, Israel (2000)
Prelog Medal in Gold, ETH Zürich, Switzerland (2000)
F. H. Field and J. L. Franklin Award, American Chemical Society, USA (2001)
Fellow of the Institute for Scientific Information (2001)
Elected Member of the German Academy of Engineering (2002)
Elected Foreign Fellow of the Estonian Academy of Sciences, Estonia (2002)
Otto-Hahn-Award for Chemistry and Physics, German Chemical Society and German Physical Society (2003)
Gold Medal, Technische Universität Berlin, Germany (2003)
Science Award of the German TECHNION Society, Hanover, Germany (2004)
Honorary Degree (Dr. rer. nat. h.c.) Leopold-Franzens-Universität Innsbruck, Austria (2006)
Erwin Schrödinger Award, Switzerland (SASP 2008)
Honorary Degree (Dr. phil. h.c.) Weizmann Institute of Science Rehovot, Israel (2008)
Golden Comenius Medal, Comenius University Bratislava, Slovakia (2009)
Science Medal of Slovak Academy of Sciences, Slovakia (2009)
Honorary Member of the Israel Chemical Society (2010)
Honorary Degree (Dr. sc. h.c.) ETH Zürich, Switzerland (2010)
Election to the European Academy of Sciences and Arts, Salzburg, Austria (2011)
Science Medal of the Czech Academy of Sciences, Czech Republic (2011)
Blaise Pascal Medal in Chemistry of the European Academy of Sciences, Liège, Belgium (2011)
Officer's Cross of the Order of Merit of the Federal Republic of Germany (2011)
Lichtenberg Medal of the Academy of Sciences, Göttingen, Germany (2012)
Elected Fellow of the European Academy of Sciences, Liège, Belgium (2012)

Honorary Degree (Dr. sc. h.c.) Sofia University "St. Kliment Ohridski", Bulgaria (2012)
Medal of Science of the University of Havana, Cuba (2012)
Elected Foreign Member of the American Academy of Arts and Sciences, Cambridge/MA, USA (2012)
Elected Foreign Fellow of the National Academy of Sciences, India (2012)
Honorary Degree in Chemistry (Dr. h.c.), Hanyang University Seoul, South Korea (2013)
Honorary Degree (Dr. h.c.) Academy of Sciences of Moldova (2013)
Elected Fellow of the Academy of Sciences of Moldova (2013)
WATOC Schrödinger medal (2015)
Honorary Membership of the Polish Chemical Society, Poland (2015)
Karl-Ziegler-Award of the GDCh, Germany (2015)
New Frontiers of Hydrocarbons Prize, ENI Foundation, Rome, Italy (2015)
Honorary Member of the *Accademia delle Scienze dell'Istituto di Bologna*, Italy (2017)
Foreign Member of the Russian Academy of Natural Sciences, Russia (2017)
Honorary Degree (Dr. h.c.) Universidad Nacional de Córdoba, Argentina (2017)
Election as Foreign Associate of the U.S. National Academy of Sciences (2018)
The Order of the Rising Sun, Gold and Silver Rays of the Government of Japan (2018)
Golden Medal of the Humboldt Society (2021)
Leonardo da Vinci Award by the European Academy of Sciences, Liège, Belgium (2021)

EDITORIAL BOARDS:

Editor of "**Int. J. Mass Spectrom.**" (1983 - 2010)
Editor of "**Chem. Ber.**" (1990 - 1994)
Board Member of "**Mass Spectrom. Rev.**" (1990 - 2003)
Board Member of "**Helv. Chim. Acta**" (1990 - 2002)
Board Member of "**Advances Physical Organic Chemistry**" (2002 -)
Board Member of "**J. Am. Chem. Soc.**" (2007 - 2015)

VISITING APPOINTMENTS:

Fellow Commoner, Churchill College Cambridge (1977 - 1978)
Visiting Professor, ETH Lausanne (1979)
Overseas Fellow, Churchill College Cambridge (1981)
Visiting Professor, Hebrew University of Jerusalem (1982)
Forchheimer Professor, Hebrew University of Jerusalem (1983)
Visiting Professor Israel Institute of Technology Haifa (1986)
Visiting Professor, ETH Lausanne (1988 - 1989)
Visiting Fellow, Australian National University Canberra (1994)
Visiting Fellow, Japan Society for the Promotion of Science, Kyoto, Japan (1996)
Visiting Foundation Fellow of the University of Auckland, Auckland (1996)
Erwin Schrödinger Guest Professor, University of Innsbruck (1996)
Visiting Professor Ecole Normale Supérieure Paris (1997)
Visiting Professor Université Pierre et Marie Curie Paris (1999 - 2001)
Visiting Professor Université Louis Pasteur Strasbourg (2005)
Distinguished Schulich Lectureship Award of the Faculty of Chemistry at the TECHNION Haifa/Israel (2009 - 2010)
Wilhelm Manchot Research Professorship, TU München (2012)
Job Visiting Professor of the Memorial University of Newfoundland (2013)
Visiting Professor, Universität Innsbruck (2019 -)

SERVICES:

Dean of Faculty of Sciences, TU Berlin (1989 - 1990)
Chairman of the Advisory Board of the German National Scholarship Programme (1993 - 1999)
Vice-Chairman of the Board of Directors of the Fonds der Chemischen Industrie (1993 - 2011)
Member of the Board of the Otto Bayer Stiftung (1994 - 2010)
Vice President of the Berlin-Brandenburg (formerly Prussian) Academy of Sciences (1998 - 2003)
Chairman of the Scientific Advisory Board of the Lise-Meitner-Center for Computational Chemistry, Jerusalem/Haifa (1998 - 2017)
Member of the Board of the Centre of Advanced Catalysis Research, TECHNION Haifa/Israel (2000 - 2010)
Member of the International Scientific Board of the J. Heyrovski Institute of Physical Chemistry, Czech Academy of Sciences, Prague (2001 - 2006)

Chairman of the Scientific Advisory Board of the German-Israeli Research Programme, DIP (2001 - 2007)
Vice-President of the German Research Foundation, DFG (2001 - 2007)
Scientific Member of the "Strategierat der Forschungs-Hochflussneutronenquelle der Technischen Universität München" (2003 - 2011)
Member of the International Scientific Board of the Ruđer Bošković Institut, Zagreb (2005 - 2011)
Scientific Member of the "Institute for Advanced Study", New Zealand (2007 - 2010)
President of the Alexander von Humboldt-Foundation (2008 - 2017)
Board of Trustees: Ernst Reuter Foundation for Advanced Study, Berlin (2008 - 2017)
Trustee of Max-Planck-Institute of Cell Biology and Genetics, Dresden (2009 - 2020)
Board of Trustees: Einstein Foundation Berlin (2010 - 2013)
Board of Governors, Universität Bonn (2010 -)
Presidium Member of the LEOPOLDINA (2010 - 2015)
Member of the Global Young Academy Advisory Board (2011 - 2017)
Board of Governors, Ludwig-Maximilians-Universität München (2011 - 2019)
Counsellor of the Chemistry Department, Faculty of Sciences of King Abdul-Aziz University, Jeddah/Saudi Arabia (2011 - 2013)
Member of the International Board of the Weizmann Institute of Science, Rehovot/Israel (2012 -)
Member of the Scientific and Academic Advisory Committee of the Weizmann Institute of Science, Rehovot/Israel (2012 -)
Member of the Advisory Board of Aarhus Institute of Advanced Studies, Aarhus/Denmark (2013 -)
Member of the Board of Governors of the Julius-Maximilians-Universität Würzburg (2013 - 2019)
Member of the Scientific Advisory Committee of the "Rowland Institute for Science at Harvard" (2013 - 2017)
International Advisory Board "Institute of Organic Chemistry and Biochemistry, Academy of Sciences, Prague" (2015 - 2016)
Honorary Board Member of *Physical Chemistry Chemical Physics*, PCCP (2015 -)
Member of the Scientific Committee for the ENI Award 2017
Honorary Member of the Advisory Board of the Japanese-German cultural institute (JDK) (2017)
Honorary President of the Alexander von Humboldt-Foundation (2018)
Foreign Member of the Advisory Board of the University of São Paulo (2018 -)
Member of the Board of Governors of the TECHNION Haifa/Israel (2019 -)
Chairperson of the Board of Trustees of the Max Planck Institute for Physics, München (2019 -)
Chairperson of the University Council of the Julius-Maximilians-Universität Würzburg (2019 - 2021)
Member of the Honorary Editorial Board of *Int. J. Mass Spectrom.* (2021)

CURRENT RESEARCH ACTIVITIES:

Bond Activation/Organometallic Chemistry/Catalysis/Beam Experiments/Physical Organic Chemistry/Theoretical Organic Chemistry (documented in > 1000 publications and > 1000 invited lectures), see: *Angew. Chem. Int. Ed. Engl.* **1995**, 34, 1973; *Acc. Chem. Res.* **1994**, 27, 347; *Chem. Soc. Rev.* **1998**, 27, 91; *Acc. Chem. Res.* **2000**, 33, 139; *J. Chem. Soc. Chem. Comm.* **2003**, 1321; *Angew. Chem. Int. Ed.* **2003**, 42, 4442; *Int. J. Mass Spectrom.* **2004**, 237, 75; *Angew. Chem., Int. Ed.*, **2005**, 44, 2336; *Dalton Trans.* **2009**, 10155; *Chem. Eur. J.* **2012**, 18, 40; *Chem. Sci.* **2012**, 3, 308; *Angew. Chem. Int. Ed.* **2012**, 51, 5544; *Chem. Phys. Lett.* **2014**, 608, 408; *Isr. J. Chem.* **2014**, 54, 1413; *Chem. Phys. Lett.* **2015**, 629, 91; *Angew. Chem. Int. Ed.* **2015**, 54, 10090; *Acc. Chem. Res.* **2016**, 49, 494; *Coord. Chem. Rev.* **2017**, 334, 112; *Organometallics* **2017**, 36, 8.

Berlin, April 1st 2021

H. SCHWARZ