



Curriculum Vitae Prof. Dr. Stefan W. Hell



Name: Stefan W. Hell

Born: 1962

Main research interests: STED microscopy and related concepts

Stefan Hell is a physicist. He pioneered breaking the diffraction barrier in a light microscope using conventional lenses. In 2014, he was honoured by the Nobel Prize in Chemistry “for the development of super-resolved fluorescence microscopy” together with Eric Betzig and William E. Moerner.

Academic and Professional Career

- 2004 Hon. Prof., Faculty of Physics, University of Göttingen
- since 2003 Head of the Optical Nanoscopy Division, German Cancer Research Center (DKFZ), Heidelberg
- since 2003 Adj. Prof., Faculty of Physics, University of Heidelberg
- since 2002 Member and Director, Max Planck Institute for Biophysical Chemistry
- 1997 - 2002 Group leader, Max-Planck-Institute for Biophysical Chemistry Göttingen, Germany
- 1996 Habilitation in Physics, Univ. Heidelberg
- 1994 Visiting Scientist, Dept. Engineering Science, Oxford University, UK
- 1993 - 1996 Principal Scientist, Laser Microscopy Group; University of Turku, Finland
- 1991 - 1993 Postdoctoral Researcher, EMBL (European Molecular Biology Laboratory)
- 1990 Doctorate in Physics, University of Heidelberg
- 1981 - 1987 Physics studies, University of Heidelberg

Functions in Scientific Committees

- since 2009 Spokesperson, DFG Center Molecular Physiology of the Brain Göttingen

since 2007	Board of trustees, X-LAB, Göttingen
2007 - 2010	Board of trustees, Niedersachsen Foundation for Innovation
since 2005	Secretary of the International Society on Optics Within Life Sciences (OWLS)
since 2003	Associate Member, European Neuroscience Institute (ENI), Göttingen
since 2003	Board of directors, Laser Laboratorium Göttingen e.V.
since 2002	Scientific Member of the Max Planck Society, Biomed. and Chem.-Phys.-Techn. Section

Honours and Awarded Memberships

2015	Verdienstorden des Landes Baden-Württemberg
2015	Glenn T. Seaborg Medal of the University of California, Los Angeles (UCLA), USA
2014	Nobel Prize in Chemistry
2014	Kavli Prize in Nanoscience
2014	Carus-Preis, City of Schweinfurt
2013	Carus Medal of Leopoldina, German National Academy
2013	Doctor honoris causa, Politehnica University of Bucharest, Romania
2012	Romanian Academy, member of honor
2012	Science Prize of the Fritz Behrens Foundation
2011	Doctor honoris causa, Vasile Goldis University, Arad, Romania
2011	Hansen Family Award
2011	Körber European Science Prize (Physical Sciences)
2011	Gothenburg Lise Meitner Prize 2010/2011
2011	Meyenburg Prize for Cancer Research
2010	Ernst-Hellmut-Vits-Prize
2009	Heidelberg Academy of Sciences and Humanities, external member
2009	Doctor honoris causa, University of Turku, Finland
2009	Otto Hahn Prize in Physics
2008	Gottfried Wilhelm Leibniz Prize of the German Research Council (DFG)
2008	Lower Saxony State Award (Niedersächsischer Staatspreis)
2007	Göttingen Academy of Sciences and Humanities, regular member
2007	Julius Springer Prize for Applied Physics

2007	Cozzarelli Prize awarded by the Proc. Natl. Acad. Sc. USA
2006	Innovation Award of the German President (Zukunftspreis des Bundespräsidenten)
2004	Gottlieb Daimler- and Karl Benz Prize, Berlin Brandenburg Academy of Sciences
2002	Karl-Heinz Beckurts Prize
2002	Carl Zeiss Research Award of Ernst Abbe Fonds
2002	Innovation Award of Leibinger-Foundation
2001	Helmholtz Prize for metrology (co-recipient)
2000	ICO Prize, International Commission for Optics (ICO)

Main Research Interests

Pioneered breaking the diffraction barrier in a light microscope using conventional lenses

Invention and development of STED microscopy and related concepts

Discovered and demonstrated on-off switching of (fluorescence) signal as key mechanism for overcoming the diffraction resolution barrier