

CURRICULUM VITAE

Christof Wunderlich, Univ.-Prof. Dr. rer. nat. habil., Physicist (Master of Arts).

Address: University of Siegen, School of Science and Technology, Department of Physics, 57068 Siegen, Germany

E-Mail: [REDACTED]

Telephone: [REDACTED]

Private Address: [REDACTED]

ACADEMIC RECORD

- 2002 Habilitation, University of Hamburg, Germany.
 Thesis: *Quantum Puzzles and Quantum Information*
 Novel concepts and methods for experiments with trapped atomic ions
 with Prof. P. E. Toschek and Prof. W. Neuhauser.
- 1991 – 1995 Dr. rer. nat., Ludwig-Maximilians-University, Munich, and Max-Planck-Institut for
 Quantum Optics, Garching, Germany.
 Thesis: *Light-induced molecular structure*,
 Prof. Theodor W. Hänsch (Nobel Prize 2005)
 Initiated and carried out experimental demonstration of tunneling through light-in-
 duced molecular potentials in intense laser fields.
- 1988 – 1990 Master of Arts, State University of New York at Stony Brook, USA.
 Thesis: *Observation of intermittent behavior in a plasma*, Prof. Dr. Peter M. Koch.
 Experimental investigation of nonlinear dynamics.
- 1985 – 1988 Vordiplom, Eberhard-Karls-University, Tübingen, Germany.
 Undergraduate education in Physics.

CURRENT PROFESSION

- 2005 – University Professor (C4) for Experimental Physics, University of Siegen, Germany
 Chair for Quantum Optics
 www.physik.uni-siegen.de/quantenoptik
- 2020 Co-Founder of eleQtron GmbH
 www.eleqtron.com

PREVIOUS POSITIONS

- 2004 Science Foundation Ireland Professor, National University of Ireland, Maynooth,
 Ireland.
- 1997 – 2003 Research Scientist, Lecturer, University of Hamburg, Germany,
 with Prof. Peter E. Toschek and Prof. Werner Neuhauser.
 Physics of trapped atomic ions.
- 1996 – 1997 Postdoctoral Fellow, Ecole Normale Supérieure, Paris, France (1996 – 1997).
 Laboratoire Kastler-Brossel, with Prof. Serge Haroche (Nobel Prize 2012)

Cavity QED experiments on fundamental questions of quantum physics.

1994 – 1996 Research Scientist Max-Planck-Institut für Quantenoptik, Garching, Germany with Prof. Dr. Theodor W. Hänsch.
Molecules in intense laser fields.

TEACHING

2005 - Professor, University of Siegen: Physics I (Mechanics, Thermodynamics), Physics II (Electrodynamics, Optics), Physics III (Introduction to Atomic Physics / Quantum Mechanics) Physics IV (Statistical Physics and Thermodynamics), Optics, Advanced Quantum Optics, Advanced Lab Courses, Seminars.

1997 – 2004 Research Scientist, Lecturer: Exercise class Atomic and Molecular Physics; Lectures in Quantum Optics, Quantum Information Processing, Seminars.

INSTITUTIONAL RESPONSIBILITIES

2013 – 2015 Head of Department of Physics (within newly established School of Science and Technology), University of Siegen.

2009 – 2011 Vice Dean of Physics Department

2006 – 2010 Member of the Commission of the University Senate for Studies, Teaching and Lifelong Learning, Siegen University

2005 – 2010 Member of Physics Department Committee, Siegen University

2005 – Member of Exams Committee, Physics Department, Siegen University

2005 – Head of several search committees for professor posts, member of numerous search committees

REFEREEING SERVICES:

Journals: Advanced Quantum Technologies, Applied Optics, Applied Physics B, European Journal of Physics D, Fortschritte der Physik, Journal of Modern Optics, Journal of Optics B, Journal of Physics A, Journal of Physics B, Journal of Physics D, Nature, Nature Communications, Nature Nanotechnology, Nature Physics, New Journal of Physics, Optics Letters, Physical Review A, Physical Review Letters, Quantum Science and Technology, Science, Science Advances, and others.

Organizations: Deutsche Forschungsgemeinschaft, Bundesministerium für Bildung und Forschung, European Commission, Engineering and Physical Sciences Research Council, UK, Deutscher Akademischer Austauschdienst, Research Corporation for the Advancement of Science, German-Israeli Foundation, Studienstiftung des deutschen Volkes, numerous other organizations and foundations.

MEMBERSHIP IN SCIENTIFIC SOCIETIES

German Physical Society. Institute of Physics, UK. Optical Society of America (Senior Member). American Physical Society.

OTHER EMPLOYMENT

1983 – 1988: **Teacher** for Classical Guitar at the Public Music School Eningen/Achalm, Germany. Member of several music ensembles.

1981 – 1983: **Community Service** (as alternative to military service) at Haus am Berg, Home for Handicapped Young People, Bad Urach, Germany. Elected representative of community service workers.