

Prof. Dr. Alfred Forchel

Chair of Technische Physik, Institute of Physics, Faculty of Physics and Astronomy, University of Würzburg, Am Hubland, D-97074 Würzburg, Germany

Curriculum vitae:

born:	13.08.1952 in Stuttgart, Germany
1972-1978	Studies of Physics, University of Stuttgart
1978	Diploma in Physics, University of Stuttgart thesis on " Electron hole liquid condensation in Si"
1978-1983	Doctoral research work on properties of highly excited electron hole plasmas in semiconductors in the group of Prof. M.H. Pilkuhn
1983	Dr. rer. nat, "with honors" University of Stuttgart
1988	Habilitation in Physics, University of Würzburg Habilitation Thesis "Dimensionality dependent properties of semiconductors"
1984-1990	Head of Microstructure Laboratory, University of Stuttgart
1990-date	Professor (C4, Full Professor), Institute of Physics, University of Würzburg
1994-date	Head of Microstructure Laboratory, University of Würzburg
1994-date	4 periods as Managing Director of the Physics Institute

Research Topics:

new semiconductor materials for lasers
novel laser structures for single mode emission
quantum dot lasers
bottom up and top down approaches for nanofabrication
quantum cascade lasers
photonic crystals
light matter interaction in quantum dot microcavities
optical properties of III/V and II/VI quantum dots
nanoelectronic devices

Reviewer for funding agencies:

European Commission, German Israeli Foundation, Canadian Foundation for Innovation
Deutsche Forschungsgemeinschaft, German Ministry of Education and Research, etc

Membership in Advisory Boards and Committees:

2006- date	Chair of Nanoscience and Technology Network of Bavaria
2005- date	Member of Senate Committee „Competitive Funding“ Leibnitz Gemeinschaft
2000-date	Member of Senate- and Grantingcommittee Graduate Schools Deutsche Forschungsgemeinschaft
1992-1998	Member of the Large Equipment Funding Committee (Apparateausschuss) Deutsche Forschungsgemeinschaft
1996-date	Member of the Board of German Center of Excellence "NanOp" on nanostructures for photonics
1996-2000	Member of the Steering Committee of EU FET project cluster on "Optoelectronic Interconnects"

Examples of international project management activities:

1996-1999	EU Nanolase "Nanofabrication of strongly gain coupled lasers for high speed communication and sensor applications", coordinator
1998-2000	EU Q-Switch „Electron waveguides for Quantum-based Switching Applications“, WP leader

1998-2001	EU Spin-up "Semiconductor Processing by Imprint of Ultrasmall patterns", WP leader
2002-2003	EU PCIC "Photonic Crystal Integrated Circuits", WP leader
2000-2003	EU NanoTcad "Nanotechnology Computer Aided Design", WP leader
2001-2005	Darpa Quantum Information Science and Technology Program, P.I.
2001-2004	EU Near "Nanoscale Electronic Elements and Circuits at room temperature", WP leader
2003-date	Member of Japanese Collaborative Research Project on Nanoelectronics
2005-2008	EU Zodiac "Zero Order Dimension based Industrial components Applied to teleCommunications", WP leader
2005-2008	EU Node "Nanowire-based One-Dimensional Electronics", WP leader