Curriculum Vitae

Prof. Dr.-Ing. Dr. rer. nat. habil. Harald Schenk

Education

1990-1996	Studies of Physics at the Julius-Maximilians-University in Wuerzburg, Germany Focus: Solid-state physics
1997-1999	reasearch work on PhD thesis Fraunhofer Institute for Microelectronic Circuits and Systems, Dresden branch
2000	PhD degree from the Gerhard-Mercator-University in Duisburg, Germany, rating: *with distinction* Title of PhD thesis: „A novel micro actuator for 1D and 2D deflection of light“ VDE dissertation award North Rhine-Westphalia

Habilitation and Venia Legendi

2008	Habilitation in Physics at Brandenburg University of Technology Cottbus Topic of habilitation: „Silicon based microoptical modulators“ Awarding of Venia Legendi in Physics

Professional experience

1997-1999	Research Associate (Doctoral Candidate) at Fraunhofer Institute for Microelectronic Circuits and Systems, Dresden branch Focus: Development of a CMOS-compatible process for light-deflecting elements, characterization and modeling, development of acceleration sensors
2000-2002	Establishment and leadership of Group „Scanning Micro Mirrors and Inertial Sensors“ at Fraunhofer Institute for Microelectronic Circuits and Systems, Dresden branch Focus and tasks: ▪ Technology development for the production of micromechanical components ▪ Design, modeling, and characterization of micro scanning mirrors and inertial sensors (acceleration sensors and gyroscopes) ▪ Acquisition and project lead
2002-2005	Leadership of department „Micro Actuator Systems and Technology “ at Fraunhofer Institute for Microelectronic Circuits and Systems, Dresden branch Focus and tasks: ▪ Technology development for the production of CMOS driver circuits

- Program Manager for SLM development for Micronic Laser Systems, completion of development including qualification. The SLM component is currently used by Micronic Laser Systems (Sweden) in commercially available laser-based mask writers for the semiconductor industry.

2004-2013	Deputy director of Fraunhofer Institute for Photonic Microsystems since 2005: Head of business unit "Micro Scanner Devices"
2006	Co-founder and shareholder of HiperScan GmbH, authorised officer until 2008 The spin-off from Fraunhofer Institute for Photonic Microsystems is engaged in spectral sensing for material analysis
since 2012	W3 Professor of "Micro and Nanosystems" (Physics) at the Brandenburg University of Technology Cottbus-Senftenberg (BTU)
since 2013	Director of Fraunhofer Institute for Photonic Microsystems (approx. 450 employees at four locations; Saxony, Thuringia, Brandenburg)
since 2022	Executive Director IPMS

Publications

More than 200 scientific publications, 28 issued patents

Memberships

SPIE-member
VDI/VDE-member

Services in the scientific community

- Associate Editor of the journal „Journal for Micro/Nanolithography, MEMS and MOEMS"
- Associate Editor of the journal „Journal of Optical Microsystems"
- Symposium Co-Chair „MOEMS/MEMS", Symposium Chair, 2009-2010
- Symposium Chair „MOEMS/MEMS", Part of Photonics West, 2011- 2013
- Conference Chair „MOEMS Display and Imaging", Part of SPIE Photonics West Symposium „MOEMS/MEMS" (2005 - 2011)
- Co-Chair of IEEE conference "Optical MEMS and Nanophotonics", 2011
- Program Chair of IEEE conference "Optical MEMS and Nanophotonics", 2021
- Steering Committee member of IEEE conference "Optical MEMS and Nanophotonics"
- Program Committee member of conference „MEMS, MOEMS and Micromachining", part of SPIE Photonics Europe
- Chair 14th international Workshop on Micromachined Ultrasonic Transducers (MUT), Dresden (2015)
- Tutorial Chair „International Conference IC Design and Test", 2021
- Member of DFG review board (electrical engineering and information technology, field 408-01: electronic semiconductors, components & circuits), 2018-2020
- Speaker of Graduate Research School Clusters "Functional Materials and Layer Systems for efficient energy conversion (Fusion)" of BTU Cottbus-Senftenberg, 2016 – 2019