

Prof.(FH) Dr. rer. nat. habil. Wolfgang Schütt

Place of birth: Marlow

Nationality: Deutschland

Core competencies:

- Nanotechnology
- Quantitative Microscopy
- Cell and Membrane Biophysics
- Medical Bioengineering

Employments:

- 1972 – 1975 Scientific Assistant at Dept. of Physics, Univ. Rostock
- 1975 – 1978 Scientific Assistant at Dept. of Internal Medicine and Visiting Assistant at Dept. of Immunology, Univ. Rostock
- 1978 – 1988 Head of Dept. of Special Biomedical Techniques, Dept. of Internal Medicine, Univ. Rostock
- 1988 – 1992 Deputy Head of Centre of Bioengineering, Dept. of Internal Medicine, Univ. Rostock
- 1993 – 1995 Visiting Professor and Senior Scientist at Dept. of Physiology & Biophysics, Cornell Univ. New York
- 1995 – 1996 Senior Scientist at Dept. of Nuclear Medicine, Univ. Rostock
- 1996 Leave of absence from Univ. Rostock for the positions of:
- Visiting Professor at Jikei Univ. Medical School Tokyo
- 1997 – 2002 - Senior Scientist at LMS Co., Ltd. Hiroshima
- 1997 – 2002 - Managing Director of COB Center of Bioengineering GmbH, a Japanese-German Company
- 1996 – 2002 - Chairman of Inst. of Applied Biosciences e.V., a association of 12 SMEs
- Since 2002: Professor, Program Director of Medical and Pharmaceutical Biotechnology and Head of Dept. of Biotechnology, IMC University of Applied Sciences Krems

Education and Further Education:

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| 1965 - 1971 | Student and Research Student (Physics) at University of Rostock |
| 1971 - 1973 | Ph.D. degree "rerum naturalium" with "summa cum Laude" in Experimental Physics |
| 1980 - 1982 | Post-graduation in Biophysics |
| 1986 | Habilitation (D.Sc.) in Biomedicine |
| 1989 | Facultas Docendi in Applied Physics (PD) |

Memberships and Awards:

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| 1977 - 1991 | Advisory Board "Microscopy" at Carl Zeiss Jena |
| 1982 - 1990 | Gesellschaft für Biophysik der DDR |
| 1993 - 1995 | Microscopic Society of New York |
| 1994 - 1996 | Biophysical Society U.S.A. |
| 1997 - 1995 | Advisory Board "Electrophoresis" at Pen Kem, Inc., New York |
| Since 1991 | Shareholder of Biometec GmbH Greifswald and BioArtProducts GmbH Rostock |
| Since 1998 | International Society for Artificial Organs ESAO |
| 1995 - 2001 | Advisory Board of Institute of Diabetes e.V. Karlsburg |
| 1999 - 2002 | Faculty Member of Bioengineering Unit , Strathclyde Univeristy Glasgow
Visiting Professor "Biophysics" |
| 2000 - 2002 | Steering Committee of ScanBalt, Kopenhagen |

Awards:

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| 1978 | National Award for Science and Techniques (1. Klasse) of GDR |
| 1989 | University Award for Research of University Rostock |

Fields of research:

Research fields:

- Surface physics and field emission microscopy
- Biomembrane physics
- Biophysical single cell characterization in biomedicine
- Confocal laser scanning microscopy
- Single ion channel characterization
- Radionuclide targeting with magnetic micro- and nanoparticles
- Immunoabsorbers for extracorporeal blood purification

Projects at Univ. Rostock: (Initiator and project leader)

1976-1992 "Quantitative Microscopy" with Carl Zeiss Jena / Project leader:

1976-1992 Development of "Automated Single Cell Electrophoresis"

1983-1992 Development of "Confocal Laser Scanning Microscopy"

1978 - 1992 Biomedical and clinical application of developed new scientific instruments for biophysical cell characterization (national and international projects) and world-wide scientific marketing

1987-1995 "Particle Characterization" at Pen Kem, Inc., New York / NASA

1996-1998 "Radionuclide Targeting with Magnetic Carriers" with Micromod GmbH

Projects at COB Center of Bioengineering GmbH: (project leader)

1997-2002 Development of "Patient-specific Immunoabsorber for Treatment of Autoimmune Disorders"

Projects at Institute of Applied Biosciences e.V. Rostock: (Chairman)

1996 -2002 Co-initiator of technology centers and networks (total investment around 180 Mio. €):

Biotechnikum in Greifswald

Biomedizinisches Forschungszentrum in Rostock-Warnemünde

Zentrum Biomedizinische Technologie in Teterow

Settlement of biotech companies in Northern Germany

BioCon Valley e.V., a lifescience network in Northern Germany

Member of Steering Committee of ScanBalt, a lifescience network in Northern Europe

Partner in EC-projects

Publications / References:

Books and Proceedings: 6

Papers: 80

Patents: 28

Invited Talks: 50 in Europe, Northern America and Asia

Organized international conferences: 14