

Technical biography H.Pfützner

Helmut Pfützner, Univ.Prof. Dr.
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Private: Bahnhofpl.2, A-5640 Bad Gastein

1971 Dipl.Ing. degree in communication technology from Vienna Univ. of Technology (VUT);
thesis on Phase-controlled Plane Microwave Antenna Group
1972 start of academic career as an assistant at Institute of Fundamentals and Theory of Electrical
Engineering at VUT
1976 start of lecturing in naval electrical engineering
1979 Dr. degree in magnetism (thesis on magnetic loss measurements at high induction levels)
1983 "venia docendi" for Applied Fundamentals of Electrical Engineering
1984-1986 development of biophysical PSE Tester (with Testron - Austria)
1985 foundation of "Bioelectricity & Magnetism Lab." (research and lecturing in applied magnetism,
as well as in different fields of biophysics, e.g. tissue characterisation, microbiological and
physiological sensors)
1985 start of cooperation with ABB-Transformers Ludvika, Sweden (up to now)
1990-1994 development of respiratory test system ReMon 3000 (with HELBO - Austria)
1988 title "civil engineer for technical physics", consulting in magnetic and biological fields;
title "Univ. Prof."
1988-2003 development of microbiological test system BacTrac (with Syllab - Austria)
2002-2007 co-ordinator of EC GROWTH project Magnetostrictive Bilayers for Multi-functional Sensor
Families (B-SENS)
2003 start of lecturing in Biophysics as a main subject of study
2007 start of cooperation with Siemens-AG Transformers
Since then: project leader at Institute EMCE (Electrodynamics, Microwave and Circuit Engineering; TU
Wien), mainly in soft magnetic materials and sensors

Publications: more than 250 scientific papers as first author or co-author,
books "Applied Biophysics" (in German), Springer - Vienna / New York (2003,2012),
"Consciousness and Optimized Will" (in German), Springer – Heidelberg / Berlin (2014),
proceedings (e.g. SMM, ISEM, 2DM... as an editor).

International activities: lecturing in Europe, USA, Canada, India, China and Japan;
research stays in Sweden and Japan; international research projects with more than 20 institutions

Memberships: head of academic society "Vienna Magnetism Group" (www.magnetism-group.org)
substitute head of academic society "TU BioMed" (Austria)

Private interests: mountains, coast lines, music, literature, film and photography