

Univ.-Prof Dipl.-Ing. Dr. WOLFGANG BÖSCH, MBA

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In March 2010 Prof. Wolfgang Bösch has joined the Graz University of Technology in Austria to establish a new Institute for Microwave and Photonic Engineering. The Institute consist of the microwave technologies, the optical and the radar working group. In 2010 more than €2m were invested in RF, microwave and mm-wave equipment.



The microwave technologies workgroup provides profound knowledge in analysing and designing wireless transmission systems. Another focus of the research group is on characterization, design and modelling of microwave and mm-wave components and systems. In particular an automated on-wafer measurement system up to mmW wave frequencies has been put in place. Using their newly acquired anechoic chamber the behaviour of antennas and entire communication systems even under multipath conditions is evaluated.

The optical working group is concerned with the development and implementation of terrestrial free space optical systems and optical channel modelling.

The well-established radar group has developed and implemented internationally nine avalanche radars. They are also concerned with wave propagation studies, interference studies especially looking at other radar, navigation or radio systems, and the development of accurate radar scattering models. The group is also active in the Weather Image Information System, where they process and visualize customized radar data.

Before joining Graz University of Technology Prof. Bösch he has been the CTO of the Advanced Digital Institute in the UK, a not for profit organisation to promote research activities. He has also been the Director of Business and Technology Integration of RFMD UK. For almost 10 years he has been with Filtronic as CTO of Filtronic Integrated Products and Director of the Global Technology Group. Prior to joining Filtronic, he held positions in the European Space Agency (ESA) working on amplifier linearization techniques, MPR-Teltech in Canada working on MMIC technology projects and the Corporate R&D group of M/A-COM in Boston where he worked on advanced topologies for high efficiency power amplifiers. For four years he was with DaimlerChrysler Aerospace in Germany, working on T/R Modules for airborne radar.

Prof. Bösch received his engineering degrees at the Technical University of Vienna and Graz / Austria. He finalised his MBA with distinction at Bradford University School of Management in 2004. He is a Senior Member of the IEEE, a Fellow of the IET. He published more than 40 papers and holds 4 patents. He was a Non-Executive Director of Diamond Microwave Devices (DMD) and is currently a Non-Executive Director of the Advanced Digital Institute (ADI) and VIPER-RF company.