

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

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In March 2010 Professor 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.

The microwave technologies workgroup provides profound knowledge in analysing and designing wireless transmission systems. One 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 under multipath conditions are 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 and interference studies for wind turbines and other buildings especially affecting radar, navigation and other radio systems, and the development of accurate radar scattering models. The group is active in the Weather Image Information System, where they process and visualize customized radar data.

Before joining Graz University of Technology Professor 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 plc as CTO of Filtronic Integrated Products and as Director of the Global Technology Group mainly responsible for the technology road-mapping, strategy formulation and the development of many innovative products. Prior to joining Filtronic plc, 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 has been working on advanced topologies for high efficiency power amplifiers. For four years he has been with DaimlerChrysler Aerospace in Germany, working on T/R Modules for airborne radar systems.

Professor 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 Fellow of the IEEE and a Fellow of the IET. He published more than 45 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.