

## Seminar on

Research in Microwaves at Technische Universität Ilmenau

by

Prof Matthias A. Hein

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### Abstract

This talk aims at providing an overview of relevant research entities and major research activities at TU Ilmenau, related to the investigation and application of microwave engineering in various fields of technology. Beside three major Engineering Departments, the University hosts the Thuringian Center of Innovation in Mobility. The microwave-related research activities include circuit technologies like RF-MEMS and metamaterials, multi-layer circuit design, antennas, electromagnetic compatibility issues, and mobile radio channel emulation. Applications of interest cover, e.g., mobile and satellite communications, satellite navigation, and the “connected car”. The presentation will be held on a schematic level, in order to stimulate discussion of the broad potential for cooperation.

### Biography

**Matthias A. Hein** (IEEE M’06-SM’06) received his diploma and doctoral degrees with honors from the University of Wuppertal, Germany, in 1987 and 1992. He was involved in the exploration of superconductor microwave applications in mobile and satellite communications. In 1999, he received a British Senior Research Fellowship of the Engineering and Physical Sciences Research Council (EPSRC) at the University of Birmingham, U.K. From 1998 until 2001, he headed an interdisciplinary research group of passive microwave electronic devices.

In 2002, he joined the Technische Universität Ilmenau as the Head of the RF and Microwave Research Laboratory; he rejected a call to another University in 2010. In his professional career until today, he has authored and coauthored around 450 publications and provided about 30 invited talks or tutorials at international conferences. He has supervised more than 50 Master and Bachelor projects and 30 doctoral projects.

Matthias Hein chaired the German Microwave Conference 2012, and served as co-organizer and convener of various international conferences. He is elected board member of the IEEE Joint German Chapter MTT/AP and of the EurAAP. He acts as a referee for high-ranking scientific journals and funding agencies. In 2014, he became spokesman of the Thuringian Center of Innovation in Mobility, where one focus is on intelligent vehicular wireless sensor and communication systems and virtual test drives.

His research interests focus on antenna and microwave engineering. The research performed under his supervision has been attracting significant public and private funding since more than 10 years.

**Date** : 05 October 2015 (Monday)

**Time** : 03:00 pm – 04:00 pm

**Venue** : Room 15-202, 15/F, meeting room of State Key Laboratory of Millimeter Waves, 15/F, Academic 3, City University of Hong Kong

\*\*\* ALL ARE WELCOME \*\*\*

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