

Institute of Microwave and Photonic Engineering



Wolfgang Bösch
wbosch@tugraz.at



**Radar and Wave
Propagation**

**Optoelectronics
and Photonics**

DI Helmut Paulitsch

Prof. Dr.
Wolfgang Bösch

Ao. Prof. Dr.
Erich Leitgeb

**Institute of
Microwave and
Photonic Engineering**



Dr. Helmut Schreiber

**RFID
Technologies**

Dr. Jasmin Grosinger

**Microwave and
mmW Technologies**

Dr. Michael Gadringer

**Antennas and
Filters**

Dr. Fabrizio Gentili



IHF – Research Areas

Radar and Wave
Propagation

RFID Technologies

RF and mmW
Technologies &
Measurements

Radar Targets

MIMO & OTA
Systems

Adaptive Antennas
and Filters

Opticelectronic and
Photonics

Research Partners:



Current Research Projects:

SeCos

RFID at mmW
RFID reader & tag for localisation



MARG

FMCW weather radar
HW & SW development

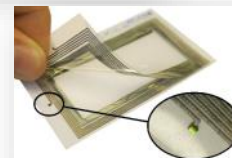


GAZELE

automotive radar stimulator
real-time & multiple targets

K@Home

Potassium sensor
CMOS clock



IHF – Infrastructure

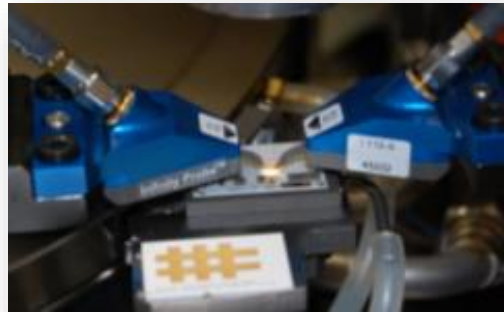
MW and mmW Laboratory

Complex MW measurements 10MHz to 110 GHz
 Automated on-wafer measurements (-40degC to 170degC)
 80 m² clean room



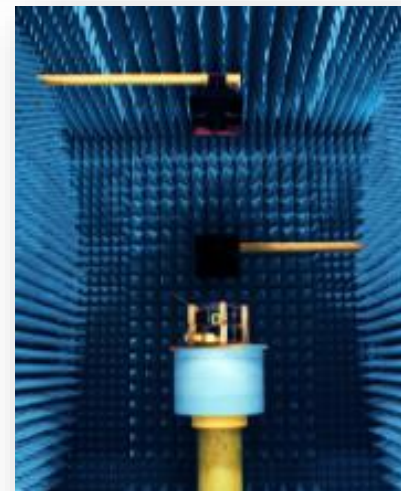
Anechoic Chamber

Emission Measurements
 Antenna Patterns
 MIMO & OTA measurements



Research Radar

C-Band weather radar
 X-Band mono-pulse system



RFID

RFID Reader
 Simulink modelling
 Localisation

