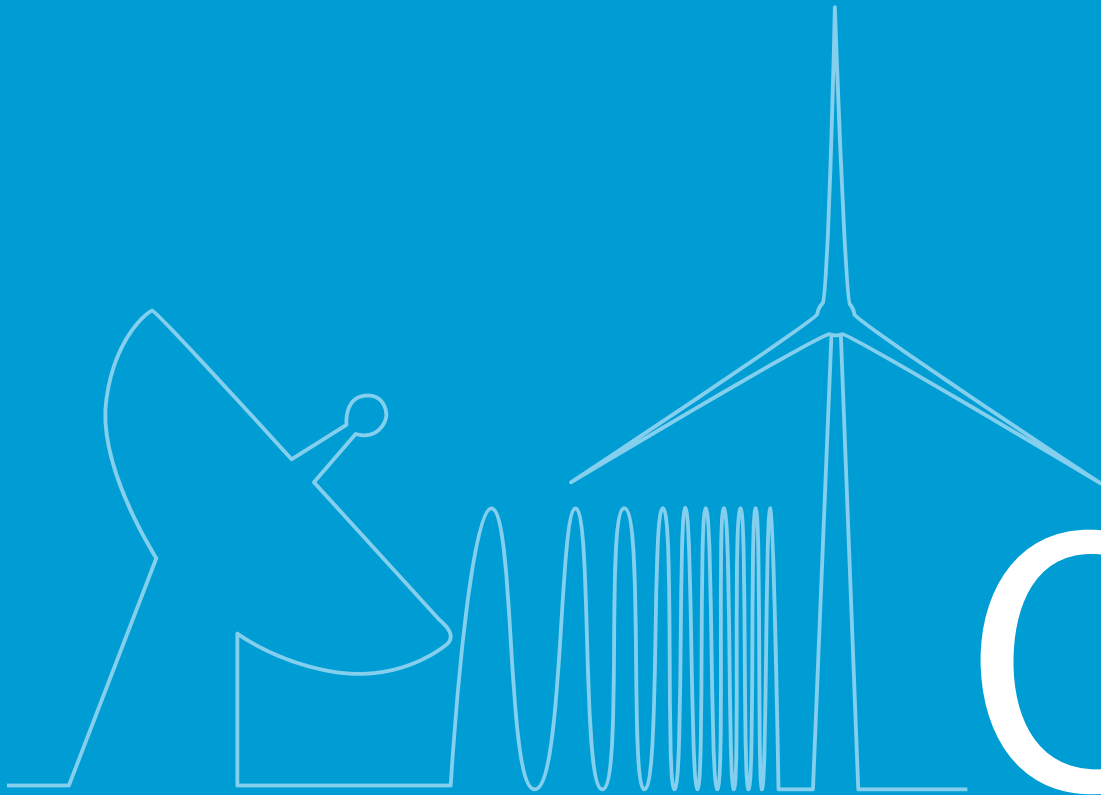


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EMWT '17



Physikalisch-Technische Bundesanstalt
Nationales Metrologieinstitut



Date

6 December 2017, 13.00 – 21.00
7 December 2017, 9.00 – 13.00



Location

Physikalisch-Technische
Bundesanstalt
Kohlrusch Building
Main Lecture Hall
Bundesallee 100
38116 Braunschweig



Contact

Vincenza Kramer
+49 531 592 2012
emwt@ptb.de

Dr. Thorsten Schrader
+49 531 592 2200
thorsten.schrader@ptb.de

Dr. Marius Mihalachi
+49 531 592 2216
marius.mihalachi@ptb.de

Dr. Thomas Kleine-Ostmann
+49 531 592 2210
thomas.kleine-ostmann@ptb.de

Workshop

Electromagnetic Waves and Wind Turbines 2017

Background

Due to the withdrawal from the nuclear energy programme and the concurrent need to reduce fossil combustibles and carbon dioxide emissions, many sources of renewable energy have to be installed. Among these are water and solar energy power plants, but to a large extent also wind turbine (WT) installations. In the end of 2016 as many as 27.270 wind turbines with a power of 45.900 MW had been installed in Germany (source: WindGuard GmbH). For efficiency reasons, WT become taller and taller and now reach that airspace, in which RADAR and terrestrial navigation systems operate. For safe operation of air traffic control, air space surveillance, weather forecast and terrestrial navigation, the degree of influence of WT on the mentioned radio frequency (RF) services must be known.

Therefore, electromagnetic wave propagation and signal distortion is of increasing interest, and the grade of interference of WT on radio services is subject of research and development both in numerical simulations and measurements.

This PTB workshop will bring together experts from academia, researchers and science groups, but also officials, government, and politics. Latest results from science will be presented. The workshop will give all interested groups the opportunity for open discussions. Also members of the IEEE German EMC chapter are welcome.



INFORMATION TECHNOLOGY SOCIETY
IN THE VDE



HELMHOLTZ
FONDS e.V.

Workshop

Electromagnetic Waves and Wind Turbines 2017

Conference Details

Call for papers

A short abstract of about 200 words should be sent to emwt@ptb.de before October 6th, 2017. Authors will be notified about acceptance until October 20th, 2017.

Registration

You can register via the EMWT'17 internet page (www.ptb.de/emwt) before November 17th, 2017.

Conference Fee

A conference fee of 120,00 € (including refreshments, lunches and get-together) has to be paid in advance or at the registration desk before the meeting.

Conference Organization

All presentations will be given in English. The meeting will be conducted under the auspices of the German IEEE EMC Chapter, the VDE (ITG), and URSI Commission A "Electromagnetic Metrology" and Commission F "Wave Propagation".

Organizing Committee

Dr. Thorsten Schrader (PTB)

Dr. Marius Mihalachi (PTB)

Dr.-Ing. Thomas Kleine-Ostmann (PTB)

Topics

- › Electromagnetic wave propagation around wind turbines (WT)
- › Passive and active RADARs and WT
- › Doppler-Very High Frequency Omnidirectional Radio Ranges and WT
- › Weather RADAR and WT
- › Wind profiler and WT
- › Measurements and numerical simulations of the interference of WT with RF services

Technical Committee

Dr.-Ing. P. Knott
FHR, Germany

Prof. Dr.-Ing. D. Heberling
RWTH Aachen University,
Germany

Prof. Dr.-Ing. H. Garbe
Leibniz Universität
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Germany

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PTB, Germany

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TU Chemnitz, Germany

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TU Delft, Netherlands

