Workshop on the Concept of Cognitive PMSE Systems

Initial Results of the C-PMSE Project

December 7, 2011
DLR, Berlin, Germany

AGENDA

| 09:30 - 10:00 | REGISTRATION |

10:00 - 10:15 WELCOME
Andreas Wilzeck, Uwe Beutnagel-Buchner
Project Office

10:15 - 10:45 INVITED SPEECH
Overview of Cognitive Radio Systems
Prof. Rüdiger Kays, TU Dortmund

10:45 - 11:00
Overview and status of the project
Andreas Wilzeck, Uwe Beutnagel-Buchner

11:00 - 11:30
The C-PMSE system concept
Axel Schmidt, Sennheiser electronic
Radu Circa, Robert Bosch

11:30 - 11:50 COFFEE BREAK

11:50 - 12:10
Measurement report - Messe Berlin
Sven Dortmund, Universität Bochum

12:10 - 12:30
Radio frequency management and Cognitive Engine
Leonid Tomaschpolski, Universität Hannover

12:30 - 13:30 LUNCH BUFFET

13:30 - 14:00
Signal detection, sensing network & scanning receiver, smart antennas
Johannes Brendel, Uni. Erlangen-Nürnberg
Rafael Rummel, eesy-id

14:00 - 14:30 INVITED SPEECH
Overview of the EU-project QoSMOS
Michael Fitch, BT Group
QoSMOS Project Coordinator

14:30 - 14:50
Technology and business potentials and conditions for market introduction
Norbert Hilbich, Sennheiser electronic

14:50 - 15:10 COFFEE BREAK

15:10 - 16:00 PANEL & DISCUSSION
Introduction speech:
Frank Ernst, beyerdynamic

Panel:
Michael Mahler, Robert Bosch
Norbert Hilbich, Sennheiser electronic
and others ...

ABOUT THE C-PMSE PROJECT

PMSE stands for **Programme Making and Special Events** and covers Services Ancillary for Programme-Making (SAP), Services Ancillary for Broadcasting (SAB), Electronic News Gathering (ENG) and Outside Broadcasting (OB).

Typical **PMSE components** are video cameras, microphones, in-ear monitors, conference systems, intercom devices as well as data links (e.g. for remote control).

The C-PMSE project is running from April 2011 until May 2013 and is focussing on **Professional Wireless Microphone Systems (PWMS)**, which cover all wireless equipment used at the front end of professional audio productions.

The **goal of the project** is the design, development, verification and research on a **cognitive PMSE system** which provides **cooperative coexistence** with other C-PMSE systems and white space devices.

Basic requirements are automation of the frequency utilization within the assigned frequency spectrum, securing a coordinated coexistence of different users in the same frequency range, and efficient frequency utilization.

The **objectives of the project** are:

1) R&D on the cognitive system and procedures for PMSE by development of system components such as antennas, scan receiver, scan controller, cognitive engine, data base, etc., measurement- and test procedures as well as channel-, interference- and coexisting models as reference for the standardization and regulation activities.

2) Setting up a field trial platform for cognitive PMSE applications at the fair grounds of Messe Berlin, technical and economical proof of concept of the cognitive procedures for PMSE and realizing an open and modular R&D platform for future research.

3) Supporting frequency regulation and standardization by setting up a forum to discuss and prioritise necessary actions concerning cognitive PMSE on national, European and worldwide level as well as active collaboration with ITU, ETSI, CEPT and Bundesnetzagentur by disseminating the project results and the preparatory work of the Special Task Force ETSI STF 386.

PROJECT PARTNERS

REGISTRATION

Please register online at: **http://cpmse.research-project.de**
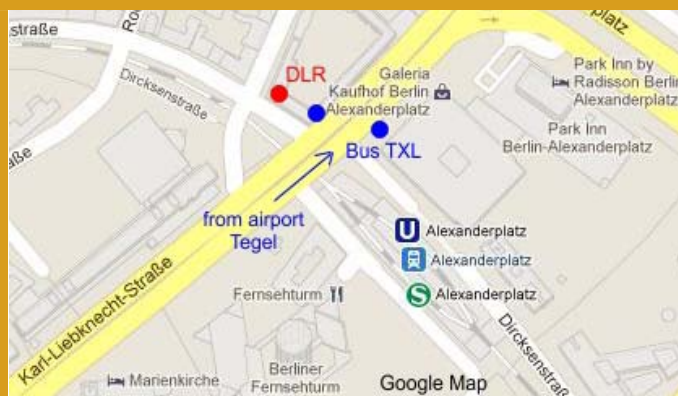Registration fee: 50 € (+ 7% VAT)

VENUE

DLR

Dircksenstr. 35
10179 Berlin
Room Nr. 6.31., 6th floor

From **Airport Berlin-Tegel** or **Berlin Main Station** take the bus "TXL" until stop "S+U Alexanderplatz Bhf/ Memhardstraße" (40 min. or 20 min.). Opposite of the bus stop follow "Diercksenstrasse" for 150m (2 min.).