

Duration: 08:30 - 17:50

Room: Krakau

WM-01

Current and Future Use of Spectrum by PMSE - 4th PMSE Workshop at EuMW

Organisers:

Georg Fischer, University of Erlangen-Nurnberg, Germany

Matthias Fehr, Co-President APWPT, Germany

Abstract

PMSE (Program Making and Special Events) equipment has become, in particular, a fundamental element of our daily cultural life and wireless systems for audio, video and effect control are now essential tools for modern content production. They are employed in journalistic news coverage, sports events, theatres, by educational and cultural institutions, trade fairs, film productions, live music events, conference centres, churches, sports clubs, etc.

PMSE is facing dramatic changes in its spectrum allocations worldwide and its coordination with other wireless services. On the other hand PMSE use and requirements regarding link availability, latency and quality are ever increasing. New techniques for spectrum management and transmission schemes are discussed in standardisation and regulation to meet these challenges.

In this workshop we would like to discuss with the participants the various types of PMSE applications, their spectrum use and impact of currently foreseeable changes in Radio Spectrum allocations. What decisions need to be taken at both a European and national level?

PMSE's current status and its future outlook is discussed.

Studies on new spectra for compensation of lost spectrum at UHF will be presented. The driving forces behind increase of communications and fundamental limitations to consider from information theory perspective are discussed.

New technologies for PMSE, i.e. 5G technology, were studied in industry and standards to ensure a high availability and low latency of PMSE links in the future. We discuss the advantages and possible limitations of such new PMSE technologies.

In the following we will also have a look at the socioeconomic benefit generated by the cultural and creative industry relying on PMSE. The workshop will contain several panel rounds to allow for interactive discussion with the audience.

A warm welcome to join our discussions!

Programme

08:30 - 08:45 Welcome and Brief Introduction into the Workshop

Alan March, APWPT, UK

08:45 - 09:30 Short Introduction to PMSE and the related Economic Value of the Culture and Creative Industry

Norbert Hilbich, APWPT, Germany

09:30 - 10:10 Outcome of International Working Groups and Consequences for PMSE - Result of Spectrum Activities of ETSI, CEPT and ITU-R for Audio and Video PMSE

Matthias Fehr, APWPT, Germany

10:10 - 10:50 Break

10:50 - 11:45 5G Technology as the Subject of Research for a Possible Use for PMSE - The Publicly Funded Research Project PMSE-xG

Andreas Wilzeck, wiseSense GmbH, Germany

11:45 - 12:30 Output of Measurements of the PMSE Live Spectrum Use - Update 2017

Matthias Fehr, DKE AK731.0.8 (DIN/VDE), Germany

12:30 - 13:50 Break

13:50 - 14:30 PMSE in Events of the Content and Event Production

Daniel Künzi, Technology and Production Center Switzerland AG, Switzerland

14:30 - 15:10 Analysis of Changes in PMSE Spectrum and Transmission Technology - Our Prediction for PMSE, Operated Under Changed Conditions - Update 2017

Georg Fischer, University Nurnberg-Erlangen, Germany

15:10 - 15:30 User-Friendly Strategies to Improve the Usage of Radio Spectrum and a Continuous Improvement Process

Hubert Eckart, Deutsche Theatertechnische Gesellschaft, Germany

15:30 - 16:10 Break

16:10 - 16:50 Elements for a Long-Term Strategy on Spectrum Requirements for Wireless PMSE Applications by Consideration of the Work of RSPG

Franz Ziegelwanger, Radio Spectrum Policy Group of European Commission, Belgium

16:50 - 17:35 Users of PMSE are Affected by a Changing World - Discussions of the Impact on Cultural and Creative Segments, Approaches and the Necessary Required Support

Moderation: Stella Morabito, SEINEP, France

17:35 - 17:45 Closing Remarks

Alan March, APWPT, UK