



## AP/MTT/EMC JOINT CHAPTER

### COMING EVENT ANNOUNCEMENT

**Date:** Tuesday, December 04, 2018

**Location:** [EPFL](#) – [Room INM 203](#)

**Time:** 10h30 – 11h30

**Speaker:** Dr. Friedrich Szoncsó

**Title:** EMC at CERN – a short overview

#### **Abstract**

CERN operates 2000 magnets, 1000km of high voltages lines, 460 high voltage transformers, a 40 MW cryogenic installation and many megawatts of pulsed power installations next to millions of highly sensitive sensors for its physics experiments and accelerators. While there is a concise industrial approach for industry-like installations there is a very diverse EMC situation amongst the 500 user groups of CERN. The user groups are physics driven which for EMC causes drawbacks. CERN runs two EMC-laboratories, one somewhat conventional and the other one for more complex problems, and for training purposes. The presentation shows both sides of CERN's EMC landscape and some unique solutions and approaches.

#### **About the speaker**

Dr Szoncsó received the degree of Electrical Engineer from the University of Technology in Graz in 1981 and the Ph. D. in Electrical Engineering diploma from the University of Technology in Vienna in 1986. He is one of the founding members of CERN's CMS experiment in 1990 with contributions in the fields of Data Acquisition, Triggering, Electromagnetic Compatibility and Power Supply Engineering. He has worked for CERN in the Safety Commission for EMC, NIR and Electrical and has coached several EMC activities, such as the EMC workshop for LHC, EMC for CERN's experiment CMS.