

STANDARDS
MEETING



10:30 AM - 12:00 PM

ROOM 242

WHO'S AFRAID OF THE BIG BAD RED

Keith Armstrong, *Cherry Clough Consultants Ltd., Stafford, United Kingdom*

If your product, whatever it is, used to be declared in conformity with the EU's Low Voltage Directive (LVD) and/or EMC Directive (EMCD), and if it has any kind of radio function (e.g. Bluetooth, Wi-Fi, GSM, GPS, broadcast radio/TV, etc., even if only by means of tiny low-cost 3rd-party modules) or uses radiowaves to detect or measure anything ('Radiodetection') – then, instead of complying with the EMCD and/or the LVD as it did in the past, it must now declare conformity with the Safety and/or EMC requirements of the Radio Equipment Directive (RED), and not with the LVD and/or EMCD.

Unfortunately, there are few/no EMC or Safety standards listed yet under the RED in the Official Journal, and there won't be many/any for several years to come.

The subject of this discussions is how to easily comply with the EMC and Safety requirements of the RED despite the lack of harmonised standards under the RED, using an approach recommended by an RED Notified Body that minimises the amount of testing or re-testing, thereby saving cost and time.

Presentations on the Radio Equipment Directive will be followed by a panel discussion.

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1:30 PM - 5:00 PM

ROOM 242

IEEE EMC STANDARDS UPDATE

Overview:

Alistair Duffy, *De Montfort University, Leicester, United Kingdom and Chair of the Standards Development and Education Committee*

IEEE Standards – What are they? How are they made? How to contribute!

Jennifer Santulli, IEEE Standards Association, Piscataway, NJ, USA

The IEEE is a major international Standards Development Organization. The EMC Society has a significant standards activity. Unlike many other international SDOs, the EMC Society standards is based on individual representation and is an opportunity to contribute to the technical direction of the profession, to show impact for your practice or research findings, to network and to be an influencer. This presentation will discuss how the IEEE goes about making standards and how attendees might want to consider making a contribution.

Focused updates:

The EMC Society is responsible to a portfolio of nearly 30 established standards or standards in development. This session will provide some essential updates on this portfolio and the work in progress, including a number of extended reviews of work underway.

Project 1897:

Recommended Practice for the Resolution of Power-Line Gap-Noise Reports

Ed Hare, ARRL, Newington, CT, USA

Project 2665:

Recommended Practice for Statistical Process Control for EMC Test Laboratories

Kimball Williams, Dearborn, MI, USA

Project 1302:

Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range of DC to 40 GHz

Davy Pissoot, KU Leuven, Bruges, Belgium

Panel Discussion

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8:30 AM - 12:00 PM

ROOM 242

IEEE EMC SOCIETY STANDARDS ADVISORY AND COORDINATION COMMITTEE UPDATE ON GLOBAL EMC STANDARDS

Overview:

John Norgard, *NASA, Houston, TX, USA*

Focused updates:

C63.4-2014 American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

Don Heirman, Don HEIRMAN Consultants, Lincroft, NJ, USA

AIAA S-121-2009, EMC Requirements for Space Equipment and Systems.

James Lukash, Lockheed-Martin Space Systems, Sunnyvale, CA, USA

IEC TC65/SCA/WG4 EMC and functional safety of equipment and systems used in industrial process test, measurement, control and automation.

Henry Benitez, ElectroMagnetic Investigations, Hillsboro, OR, USA

IEC CISPR/I Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers,

Ghery Pettit, Pettit EMC Consulting LLC., Olympia, WA, USA

Panel Discussion

The EMC Society keeps a watching brief of EMC Standards from other standards development organizations. This session will provide a review of some of the work underway in those non-IEEE SDOs with a focus on some key standards groups worldwide.

Find the schedule of Standards Week Working Group Meetings on page 112 and 113.



Photo by Karthik Vepuri

STANDARDS MEETING



8:30 AM - 10:00 AM

ROOM 242

ANTENNA CALIBRATION IN EMC MEASUREMENTS: RX AND TX ARE NOT THE SAME

Overview:

Valentino Trainotti, *University of Buenos Aires, Buenos Aires, Argentina*

It is important to know that in EMC measurements, an antenna will behave the same whether it is used as a transmitter or a receiver. This is not strictly the case. This discussion will start with a presentation to explain this phenomenon and continue with a discussion about the implications and consequences for practice.

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THE FUTURE NEEDS FOR SIGNAL INTEGRITY AND POWER INTEGRITY STANDARDIZATION

Alistair Duffy, *De Montfort University, Leicester, United Kingdom and Chair of the Standards Development and Education Committee*

Quite simply, where does the profession need further guidance? An opportunity for SI and PI professionals to influence the regulatory framework.

STANDARDS MEETING



1:30 PM - 5:00 PM

ROOM 242

RISK MANAGEMENT OF EM DISTURBANCES AND ITS ASSOCIATED STANDARD - DETAILS OF THE TECHNIQUES AND MEASURES EMPLOYED

Keith Armstrong, *Cherry Clough Consultants Ltd., Stafford, United Kingdom*
Davy Pissoort, *KU Leuven, Bruges, Belgium*

IEEE Standard 1848 "Techniques & Measures to Manage Functional Safety and Other Risks With Regard to Electromagnetic Disturbances" provides a comprehensive list of these techniques and measures. This session provides the detail of these and the opportunity to discuss the use of them with key figures from the working group.