

Registration

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Invitation

17 October 2013

Business Faculty - Brussels

CE-ABLE Seminar

EMC topics concerning
Civil, Military and Radio
devices.



CE-ABLE SEMINAR

17 October 2013 - Business Faculty Brussels

Who should attend?

EMC R&D Engineers, EMC Test Operators, Q&A Managers as well as Electrical Engineers.

More Information

For more information and registration on this seminar check our website <http://www.ce-able.eu>

You can also fax back the registration form on the last page of this invitation to +32 (0)2 720 20 60

Contact

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Registration required

Participation fee: € 150,00 (excl .VAT)

During the seminar, we will put an **I Pad mini** up for raffle. .



Business Faculty

St-Lendriksborre 6

B-1120 Brussels

Belgium

www.bfaculty.be



CE-ABLE is a sector committee in Electro-Technics (Electrical Safety, EMC, Radio and Telecommunications) recognised by BELAC. CE-ABLE shares expertise between accredited laboratories and provides a forum for accreditation, conformity testing, certification and validation

Programme 17 October 2013

8u30

Welcome and Registration

9u15

Introduction

Ing. Jos Westhof-Jacobs, MSc Electro-Magnetic Compatibility, Account Manager Systems & Projects, Product Manager EMC & Tempest Solutions ,Rohde & Schwarz

09u30

Selling outside Europe, what are the extra EMC requirements

Dora Deboeure, Manager Product Validation , MSc. ElectroMagnetic Compatibility & Radio Spectrum Management, Barco

On overview on extra EMC requirements & markings when exporting to countries such as US, China, Taiwan and India. How to organize compliancy in a practical way and what requirements to be fulfilled by your suppliers.

10u00

Productcertification

Kris de Potter, Product Line Manager - Medical and Electronic Equipment ,SGS

10u30

Wireless module included in a non-radio apparatus – Compliance with R&TTE directive

Dr. ir. Benoît Stockbroeckx, Head of division Laboratory, ANPI

Most of non R&TTE electronics apparatus fall within the scope of the EMC directive. The inclusion of a wireless module into such a device makes it falling into the scope of the R&TTE directive, even when the radio communication is not the primary function. The compliance with all the essential requirements has to be demonstrated in an efficient way

11u00

Contact opportunities - Coffee break

SESSION A

11u30

Bad luck lottery with HF noise causing overvoltage damage in Variable Frequency Drives

Ing. Paul Lots, EMC expert , LABORELEC

Multiple variable frequency drives, installed in a common cabinet and running at the same switching frequency represent a high risk to mutual kill by overvoltage. It is a question of time to get the coincidence of all drives running synchronously, resulting in a burst of high peak voltages standing over the cabinet earthing conductors. The presentation will demonstrate the phenomenon at low scale.

SESSION B

Focus on EMI troubleshooting using modern measurement techniques. From precompliance to full compliance

Ing. Jos Westhof-Jacobs, MSc Electro-Magnetic Compatibility, Account Manager Systems & Projects, Product Manager EMC & Tempest Solutions ,Rohde & Schwarz

EMI-testing nowadays is done by using modern equipment offering benefits using either conventional stepped frequency scan or an extremely fast FFT-time-domain scan, IF Analysis and Spectrum Analysis. Thanks all these features it cuts time and cost in product development, diagnostics and in preparing the product for final certification.

12u00

High frequency problems in drives: solutions with conflicting interests

Dr. Ing. Jos Knockaert, MSc., Assistent Professor Ghent University – Campus Kortrijk

High switching frequencies in combination with a high dv/dt make PWM-inverters the primary source of high frequency related problems. Known problems are overvoltages on the motor, bearing currents and EMI. Nevertheless, these problems are fundamentally different meaning that solving one problem can increase another .

Compliance of today's lighting appliances are more complex because of additional features. Which standards are applicable?

Ing. Koen Schepers, EMC Consultant , Philips

Additional features and RF devices are more and more integrated into today's lighting appliances. Therefor not only the lighting standards have to be met for EMC compliance, but also other requirements are to be checked. A short overview.

12u30

Contact opportunities -Walking Dinner

SESSION C

13u45

Emission tests for military equipment (based on MIL-STD-461F)

Véronique Beauvois, ir., Maître de conférences, ULg et responsable des laboratoires CEM et LEP

Based on the military standard MIL SDT 461 F, we will describe the emission tests on military equipments and the specific points comparing to civil standards.

SESSION D

Harmonic emissions of non-linear loads, the need to tackle also the High Frequency interactions interests

Prof. Dr. ir. Jan Desmet, MSc., PhD, MIEEE, Full Professor Ghent University – Campus Kortrijk

Low power non-linear loads such as CLF and especially LED lamps are not completely covered by the standard 61000-3-2. Besides that, high frequency components due to own SPS devices can interact with grid impedance especially in case of PLC. Both standardization problems, HF interaction of LF signals and measurement techniques will be considered.

14u15

Overview of MIL-STD-461F immunity requirements

ir. Filip Nauwelaerts, Lab & Quality Manager , Laboratoria De Nayer

This presentation covers the most common MIL-STD methods which describe immunity related aspects, with a short focus on Reverberation Chambers

CE compliance: from design till product release

ir. Nico Podevijn, Test Engineer BGEMC

One of the best ways to achieve success of a new product is to give it the best possible start, with care and attention at every design stage.

14u45

Contact opportunities -Coffee break

15u15

A revised LVD & EMC Directive, a new radio Directive, new horizontal requirements - what should I do ?

Eric Colpaert, Senior Engineer-advisor – responsible Market Surveillance , BIPT

15u45

What can CE-ABLE mean herewith and presentation of the cross reference table

Prof. Dr. ir. Jan Desmet, MSc., PhD, MIEEE, Full Professor Ghent University – Campus Kortrijk

16u00

Reception & Possibility of Questions & Lotery Ipad Mini