

Fall

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DLS News & Views

To help keep you better informed

EMC Design Seminar

Author joins DLS teaching team



Guest lecturer, Michel Mardiguian, author of latest EMC design book *Controlling Radiated Emissions by Design*, will be joining Donald. L. Sweeney and staff in teaching the October 4-6, 2016 *EMC By Your Design* seminar/workshop in Northbrook, Illinois. Free EMC design software and free individual design evaluation of your product are included, in addition to lecture, discussion, hands-on workshop, notebook of slides and autographed textbook. \$300 discount if registered by Sept 13.

To register or to find more information, go to www.dlsemc.com/seminar.

Vibration Testing

D.L.S. tests for RTCA-DO-160 and MIL-STD-810 Vibration, Shock and Acceleration. The induced vibrations, vibration tests, or shock tests are used in the laboratory or in production for qualifying products during design, meeting standards, regulatory qualifications, fatigue testing, screening products, and evaluating performance. D.L.S. also tests to SAE /Auto (vibration simultaneously with temp/humidity), IEC and other vibration standards. For more information call Jack Black at 847-537-6400 or request a quote at www.dlsemc.com/requestquote.



Regulatory Updates

Multimedia Equipment Defined

The term Multimedia (MME) is now being used in rules and regulations and I, Donald Sweeney, would like to clarify its definition. It is defined in EN 55032 as information technology equipment, audio equipment, video equipment, broadcast receiver equipment, entertainment lighting control equipment or combinations of these.

Multimedia IEC 62368-1
Safety and EN 55032 EMC

The next few years will be important for the manufacturers of Audio/Video (IEC 60065:2001) and High-Tech (IEC 60950-1:2005) equipment, as new standards covering both of these categories have been developed. Standard IEC 62368-1 is a hazard-based standard and it emphasizes safety design in the early product development phase, but without the need for Risk Assessment. For more information go to www.dlsemc.com/multimedia.

D.L.S. is currently offering a 10% discount for any new program for clients requiring compliance when booking both their Safety and EMC in these categories. This program will end on September 30, 2016 and requires a quote request. Enter promo code ITE/AV 2016 at www.dlsemc.com/requestquote.

10%
Testing
Discount

New ITE EN 60950-1:2006/
A2:2013 amendment effective
July 2, 2016 - June 20, 2019

New Audio Video Standard
EN 60065:2014 effective
Nov. 17, 2017 - June 20, 2019

New Multimedia Safety
EN 62368-1:2014 effective now
and mandatory as of June 20,
2019. It will replace ITE EN
60950-1 and Audio Video EN
60065.

(over)

Military/Commercial Avionics new DLS testing brochure



D.L.S. has expanded testing and related services in the areas of Military and Commercial Avionics. There are over 20 new tests or services referenced including MIL-STD-461-G sections CS-117 and CS-118, MIL-STD-1399, 1275 and 704 for Power Quality, and DER/DAR support services coordinated through the D.L.S. staff. For a copy of this new brochure call Carol at 847-537-6400 or go to: www.dlsemc.com/mil-rtca-brochure.

More Regulatory Updates

For information on the following updates, please go to the D.L.S. Website as directed below:

LED Lighting Devices FCC/KDB 640677 now in effect www.dlsemc.com/fcc-led

Canada Updates www.dlsemc.com/canada2016

FCC Updates www.dlsemc.com/fcc2016

ETSI EU Updates www.dlsemc.com/etsi-oj-red

Medical Device Update Standard IEC/EN 60601-1-11:2015 Home Health Care

Recently published IEC/EN 60601-1-11:2015 establishes basic requirements for medical devices and equipment used in home health care environments. They include locations such as homes, cars, outdoor areas, nursing homes, or extended care facilities where medical equipment is used, but not necessarily by doctors or nurses. The update contains more stringent compliance requirements and new test levels such as increased humidity levels. Read more about this standard at www.dlsemc.com/med-update-2016.



**\$300-50%
OFF
seminar**

Michel Mardiguan, Author of Latest EMC Design Book

Controlling Radiated Emissions by Design, 3rd Edition, 2014

joins instructors Donald L. Sweeney, Roger Swanberg, Tim Lusha



EMC By Your Design

An EMC Practical Applications Seminar and Workshop

Take home an autographed copy of the most recent EMC Design Book plus a proprietary computer program, a notebook of slides, an expanded section on filter design, signal integrity, and signal return currents on PCB's and a free 45 min. individual product design evaluation

Tuesday, October 4 - Thursday, October 6, 2016

Hilton Hotel, Northbrook, IL



\$300 discount if you register by September 13, 2016

We are also offering a special 50% discount on the October seminar to attendees of previous D.L.S. seminars who used the 1st or 2nd edition book.

Classes fill quickly so register early

email cgorowski@dlsemc.com or call 847-537-6400

www.dlsemc.com/seminar

Don't forget to schedule your free product review when you register.