### Fall

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We want your feedback

Design Seminar
October 24 - 26, 2017

Free 45-min. Review of YOUR product

50% Special Discount or \$300 Discount until Oct. 3

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# News & Views

To help keep you better informed

## Don Sweeney Receives Laurence G. Cumming award



Donald L. Sweeney was presented with the Laurence G. Cumming Award at the IEEE International Symposium on EMC and Signal Integrity, on August 10, 2017 in Washington, DC. This award is presented annually to recognize the outstanding service of a member in contributing to the administration and overall success of the IEEE EMC Society and EMC Education. Read more at <a href="https://www.dlsemc.com/don-award">www.dlsemc.com/don-award</a>.

#### Fluids Susceptibility

A Fluids Susceptibility test at D.L.S. will determine whether the materials used in the construction of your equipment can withstand the harmful effects of fluid contaminants. Fluids/chemicals commonly contaminate material either intermittently or over long periods of time which can cause a product to fail in many different ways... from cracking to corrosion,



paint issues, adhesion loss, separation, etc. More details on this test can be found at <a href="https://www.dlsemc.com/fluids">www.dlsemc.com/fluids</a>.

#### RED for Wi-Fi & Zigbee

A significant percentage of products being sold today contain some kind of radio transceiver. Like most radio technologies, the introduction of the Radio Equipment Directive markedly affects the compliance of transceivers operating in the 2.4 & 5GHz ISM frequency bands (Wi-Fi, Bluetooth™, Zigbee™...) placed on the EU market. Even products which formerly met the requirements of the R&TTE Directive now need to meet the requirements of the RE Directive in order to be placed on the EU market. To learn more about the EU compliance requirements and the manufacturer's responsibilities for placing ISM band transceivers and products containing an integrated transceiver on the market, go to www.dlsemc.com/red917.

#### **Power Quality Testing**

D.L.S. supports power testing for aircraft, vehicles, ships, and other military equipment



under MIL-STD 704, MIL-STD 1275, and MIL-STD 1399. These standards establish electrical

interface characteristics for military equipment utilizing both AC and DC electric power to ensure compatibility between user equipment and the electric power system. These standards include voltage, frequency, phase, power factor, ripple, maximum current, electrical noise and abnormal conditions (overvoltage and under voltage), for both AC and DC systems. The standards also establish limits of transient voltage characteristics and steady state limits. More details can be found at <a href="https://www.dlsemc.com/powerquality">www.dlsemc.com/powerquality</a>.

#### Risk Assessment in IEC 60601-1 Third Edition

Everyone who has performed the third edition certification process of IEC 60601-1 and worked on the risk assessment portion of it understands the laborious nature of this process. Since the risk assessment in the third edition is an all-encompassing requirement, it requires a lot of effort on the manufacturer's part. Clause-by-clause analysis needs to take place to make the risk assessment a viable document; otherwise, a back and forth with the certification agency and/or test lab is needed to ensure that this important document is accurate and useful. The compliance of the risk assessment requirement is normally checked by a careful review of the risk management file. More details can be found at <a href="https://www.dlsemc.com/risk-assessment">www.dlsemc.com/risk-assessment</a>.

#### 45-minute, one-on-one Free Review of YOUR Product with instructor or associate at end of **EMC By Your Design Seminar**

Applying what you learn is an important part of our EMC By Your Design Seminar. It is so important that we ask you to bring your current prototype, drawings or board layout to a free

45-minute personal consultation with an instructor or an associate to discover any EMC/EMI problems your product might have while it is still in the design stage, thus saving you time and money.



#### Possible or Impossible?

When we opened D.L.S. in June of 1983, we placed a poster on one of our interior doors that read, "Nothing is Impossible", and that has been our company motto ever since. Sometimes, however, some of our customers' requests do seem to be next to impossible. Yet when our D.L.S. team members put their creative heads together we have remedied some pretty near impossible customer situations. If you go to www.dlsemc.com/possible you will see some interesting examples.

#### We want your feedback Let us know how we are doing

D.L.S. has established a client survey on our website in an effort to seek out your feedback. It's our way of trying to offer the best possible services for our clients, and to continually improve our processes. The survey can be filled out with specific references, or anonymously. We really want to hear from you. Access the survey at www.dlsemc.com/feedback.



### **Latest EMC Book**

Design Techniques for Controlling Radiated Emissions, 3rd Edition contributed to and edited by Donald L. Sweeney. including the latest digital technology, published 2014

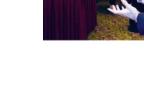


#### **EMC By Your Design**

An EMC Practical Applications Seminar and Workshop

using the most recent EMC Design Book plus take home proprietary computer program, 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 24 - Thursday, October 26, 2017 Hilton Hotel, Northbrook, IL



\$300 discount if you register by October 3, 2017 We are also offering a special 50% discount to attendees of previous D.L.S. seminars who used the 1st or 2nd edition.

#### Classes fill quickly so register early

email cgorowski@dlsemc.com or call 847-537-6400 www.dlsemc.com/1001

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

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