

0900 – First Keynote talk - Todd Hubing, Ph.D. – President – LearnEMC – “Printed Circuit Board Layout for EMC Compliance”

First-pass compliance with EMC requirements starts with the circuit board layout. Good board layout is not about adhering to design rules or following the advice in application notes. It starts with understanding the board’s test environment, identifying the important coupling paths to and from the board, and ensuring that the allowed coupling is acceptable. This presentation reviews simple steps that should always be followed to design and layout a printed circuit board for first-pass EMC compliance.

1030 -1130 – Three Separate Tracks

- **Maja Bland – UL Solutions** – “Global Market Access – Tips and Tricks – focus on Brazil and Mexico”
- **Erik Borgstrom – Element Materials** – “MIL-STD-461G: What’s Not to Love?” – An update on Military EMI Standard 461G
- **Brodie Pedersen – Borderless Compliance, LLC** – “New Medical EMC Topics in IEC 60601-1 – 4th Edition” - The Fourth edition of IEC 60601-1 will include IEC 60601-1-2 EMC including any new Requirements in the Medical EMC World.

1230-1330 – Two Tracks

Second Keynote Talk - Todd Hubing, Ph.D. – President, LearnEMC – “Terrible EMC Design Advice in Print and on the Internet”

Dr. Krishna Singhai - TUV SUD – “Overview of MRI Testing as Applicable to Medical Implants” - Talk will cover the testing methodology and applicable standards to evaluate compatibility of the medical devices in an MR environment.

1400 – 1500 – Three Separate Tracks

- **Merritt Pulkrabek – Regulatory Compliance Engineer, Approve-IT** – “Overlapping EMC Testing to Minimize Test Time and Maximize Global Acceptance” Most products are not marketed in a single country or region. Having a global marketing footprint means having to comply with multiple EMC standards and test conditions. We are going to look at methods to minimize the cost, time, and resources needed to gain the maximum acceptance.
- **Asad Bajwa – Keysight Technology** – “Instrument Calibration & EMC Implications”
- **Brian Lackey – EMC Staff Engineer - Intertek** – “Medical OEM Wireless Coexistence Testing and FDA Expectations” – A brief history of the requirement to demonstrate wireless coexistence by the FDA. Risk analysis per AAMI TIR69 and test methodology as per ANSI C63.27. Test Plan preparation including selection of interfering signals and levels. Test execution, and Intertek’s novel approach in determining minimum allowable separation distance to an interferer.