

# Expertise Delivered on June 20<sup>th</sup>

Rohde & Schwarz is honored to join IEEE EMC Society and INCOSE in sponsoring this educational experience.

## An Insider's View on the Changes to MIL-STD-461G and 464 Work Items - 2 Hours

With the increased integration of embedded computing and wireless technologies into modern military systems, the need for mission success has put more emphasis on electromagnetic compatibility assurance. This class will give a brief overview of the MIL-STD 461/464 test requirements and offer a historical perspective of the testing and how it has evolved to meet the modern challenges of defense electronics test and integration. Insight into the direction of future proposed changes MIL-STDs will be presented along with some initial insight to test correlation of the results.

## Military Control of Electromagnetic Interference, WWII to the Present - 2 Hours

Abstract: MIL-STD-461 and MIL-STD-464 are collections of requirements based on problems encountered in the past and the measures taken to ensure they are not encountered again. As such each individual requirement may or may not be applicable on a given program or may require significant tailoring in order to be useful. The presentation gives historical background on many of these requirements and explains the relevancy and/or lack thereof for typical modern situations. For example the rules for cable layout in MIL-STD-461 are traced back to 1940s aircraft radio installations with a demonstration using WWII vintage equipment, and the ramifications vs. the layout on a modern spacecraft are compared and contrasted. The basic set-up of the tabletop ground plane used for testing equipment installed in vehicles is compared to the OATS-based set-up for equipment designed for home, office and industrial plant use in order to yield the proper perspective on what these controls are all about. Rationale behind the spectrum analyzer noise floor survey in MIL-STD-464 is presented in a series of demonstrations on the audible/inaudible effects of radio frequency interference.

Ken Javor has worked in the EMC industry for thirty years. He is a consultant to government and industry, runs a pre-compliance EMI test facility, and curates the Museum of EMC Antiquities, a collection of radios and instruments that were important in the development of the discipline, as well as a library of important documentation. Mr. Javor is an industry representative to the Tri-Service Working Groups that write MIL-STD-464 and MIL-STD-461. He has published numerous papers and is the author of a handbook on EMI requirements and test methods.

Mr. Javor can be contacted at [ken.javor@emccompliance.com](mailto:ken.javor@emccompliance.com)



## Location

Doubletree Hotel - Adirondack Room

Address: 6301 NY-298, East Syracuse, NY 13057

## Schedule - Tuesday June 20<sup>th</sup>

- 14:30 - 15:00 Sign-in
- 15:00 - 17:00 An Insider's View on the Changes to MIL-STD-461G and 464 Work Items
- 17:00 - 18:00 Dinner Provided
- 18:00 - 20:00 Military Control of Electromagnetic Interference, WWII to the Present

Registration Page

<http://www.rohde-schwarz-usa.com/20170620Registration.html>

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