

ADVANCE PROGRAM & REGISTRATION FORM



*THE MELBOURNE CHAPTER OF THE
IEEE EMC SOCIETY
IS PLEASED TO HOST*

Tech Tour: Aerospace EMC
A Half-Day Technical Seminar with Demonstrations

Monday, February 27, 2006

**The Hilton Melbourne Rialto Place Hotel
200 Rialto Place
Melbourne, Florida 32901**

**The Guest Speakers are
leading industry experts, including:**
James Young of Rohde & Schwarz
Vince Rodriguez of ETS-Lindgren
and
Ken Javor of EMC Compliance

Program Outline

12:30 REGISTRATION

1:00 Mil-Standard EMC Testing of Products and Aircraft by Ken Javor, EMC Compliance

Topics include a review of bulk current injection testing (CS114) and radiated emissions (RE101, RE102), including test rationale, limit tailoring, proper conduct of the test, troubleshooting, and equivalence to radiated susceptibility. Aircraft EMC testing will address a discussion of broadband sources, instrumentation, identification and measurement.

2:30 BREAK

**2:45 Anechoic Chamber Solutions for Antenna Pattern Measurements
by Vince Rodriguez, ETS-Lindgren**

This presentation introduces the user to antenna ranges, and concentrates on rectangular and taper anechoic chambers for APM. Absorber technology, Quiet Zone levels, and far field requirements are discussed as well as the proper absorber treatment for both taper and rectangular chambers.

4:00 BREAK

4:15 Improving the Accuracy of EMI Measurements by James Young, Rohde & Schwarz

Topics to be addressed include: “The Spectrum Analyzer versus The EMI Receiver” (advantages and disadvantages), plus, the problems and benefits of using low noise amplifiers for increased sensitivity will be reviewed.

5:30-6:30 *RECEPTION WITH THE SPEAKERS *HANDS ON DEMONSTRATIONS OF THE MATERIAL PRESENTED *RAFFLE FOR PRIZES!

About the Speakers

Ken Javor has worked in the field of EMC since 1980. His aerospace EMC experience includes work on the B-52, V-22 Osprey, Air Force One, Space Shuttle and Space Station and Army helicopters. He is a member of the SAE AE-4 and EIA G-46 EMC committees specializing in the development of equipment-level EMI specifications and test methods, and in the design of test equipment and facilities. He founded EMC Compliance in 1992, through which he provides consulting and EMC support services. Through EMCC, he has designed EMI test equipment and provided customer support for several companies in the EMI test equipment industry. In 1993, he published “Introduction to the Control of Electromagnetic Interference, A Guide to Understanding, Applying, and Tailoring EMI Limits and Test Methods.”

Vicente Rodríguez-Pereyra of ETS-Lindgren was born in Madrid, Spain. He obtained his BSEE from the University of Mississippi in 1994. He joined the department of EE at the University of Mississippi as a research assistant. He was involved in projects addressing the reduction of cross talk in high-speed digital circuits and the use of the Finite Difference Time Domain technique in antenna analysis. During this time he obtained the MS and Ph.D degrees in Engineering Science with an emphasis on Electromagnetic Theory in 1996 and 1999, respectively. In August 1999, Dr. Rodriguez joined the department of Electrical Engineering and Computer Science at Texas A&M University-Kingsville as a Visiting Assistant Professor. In June 2000, Dr. Rodriguez left the academic world and joined EMC Test Systems (now ETS-Lindgren) as an RF and Electromagnetics engineer. He is the author of more than 20 technical publications. Dr. Rodriguez is a member of the IEEE and several of its technical Societies including the MTT and the EMC Societies. He is also an active member of the Applied Computational Electromagnetic Society (ACES). Dr. Rodriguez is a full member of the Sigma Xi Scientific Research Society and of the Eta Kappa Nu Honor Society.

James Young is the sales and marketing manager for Rohde & Schwarz EMI products in the Americas. His engineering background includes system, circuit, ASIC and FPGA design for various communication products. He has also held product management and

marketing positions with Cadence (Tality) in San Jose, CA, ParkerVision in Jacksonville FL, and Signal Space Design in Salt Lake City, UT. He holds a BSEET from Weber State University and an MBA from the University of Phoenix.

The Program Format

The half-day will consist of a three part technical seminar. The goal of the seminar presentations is to provide practical information for the EMC engineer, designer or technician to actually use on the job! Following the technical seminar, a reception with the speakers will be held in a neighboring section of the hotel. Demonstrations of the material presented will be conducted. Participants can informally meet with the speakers and view these hands on demonstrations that are designed to “drive home” the material presented. Heavy appetizers will be served and two drink tickets per person will be provided for the open bar. (After that, the bar converts to a “cash bar” basis.) A door prize drawing will be held at the conclusion of the reception. Drop your business card in the bowl on the registration desk and enter to win the door prize. You must be present to win, of course!

Seminar Location

**The Hilton Melbourne Rialto Place Hotel
200 Rialto Place
Melbourne, Florida 32901
321-768-0200**

Acknowledgement

The Melbourne EMC Chapter is grateful for the support provided by Conformity Magazine, Rohde & Schwarz, and ETS-Lindgren for providing the technical experts, equipment to support the demonstrations, and for funding the catering during the reception. This event is offered as part of their Tech Tour educational engineering seminars. For more information, visit www.techtoursite.com

Registration Form

(Please Print Clearly)

Name: _____
Title: _____
Organization: _____
Street Address: _____
Mail Stop: _____ City: _____
State: _____ Zip: _____
Daytime Phone: _____
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IEEE member? Yes _____ No _____

Please complete this registration form, FAX to:
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You must complete this registration form and return it to Brennan Associates in order to secure your seat at this seminar. **There is no charge to attend this seminar, but a completed registration form must be on file in order to be admitted to the seminar.** Seating is limited; seating will be reserved on a first come, first served basis. *NOTE: The speakers and program may be subject to change without prior notice.*

The Melbourne EMC Chapter

Chair: Bruce Crain
Northrop Grumman
Phone: 321-951-6395
bruce.crain@ieee.org

Seminar Coordinator

Janet O'Neil, ETS-Lindgren
425-868-2558, j.n.oneil@ieee.org

Certificates of Completion from this seminar will be provided.