

Meeting Report of the IEEE EMCS Chapter, Pittsburgh Section, Region 2

A meeting of the Pittsburgh EMC Society Chapter was conducted on May 21, 2008 at the Westinghouse Energy Center in Monroeville, PA. Michael Oliver, IEEE EMCS Chapter Chair hosted the meeting with 18 members. The meeting started with a social prior to a technical presentation; we had the privilege of having Mr. Steven Bowman as our technical speaker; Mr. Bowman is the Senior Systems Test and Integration Engineer for Lockheed Martin Missiles and Fire Control.

The technical presentation by Mr. Bowman is titled “EMC – Equipment Test Guidelines, Test Setups, Work Scopes, and Reporting for Qualifying Equipment to MIL-STD-461”. This presentation dealt with engineering issues such as inadequate or incorrect test setups for qualifying equipment to MIL-STD-461 that can cause cost overruns and schedule delays during first article testing. In addition, poor generation of work scopes and reporting of findings can introduce doubt on the acceptability of the product’s performance. This presentation focused on the interpretation of the guidelines and requirements specified in MIL-STD-461 setups and provides some considerations when designing the support and monitoring equipment of the product being qualified. Aspects of the test setups, including input power source selection and connection, support stimulus equipment and cabling, and monitoring techniques, was discussed. Generation of the work scope, test reports, and approaches to presenting failures and their resolutions were also discussed. The consequences of insufficient attention to these details are not only financially costly to a specific program but also can damage a company’s reputation.

About the Presenter: Mr. Bowman began his career in the commercial nuclear power industry as a design engineer. He then held positions of increasing responsibility as a test engineer and is presently a Senior Systems Test and Integration Engineer with Lockheed Martin Missiles and Fire Control. In this role, Mr. Bowman has more than 26 years of experience in designing and performing qualification testing of safety-related instrumentation and control systems for the US Navy. He has qualified almost all of the current Rod Control Systems and many of the Protection and Nuclear Measurement Instrument systems. He has also directed E3 qualification efforts, including HERO testing, on precision guided weapons per MIL-STD-461 and MIL-STD-464. He is responsible for the coordination of all program test activities and assists in the resolution of test findings. Mr. Bowman is often called upon as a consultant for other Lockheed Martin divisions.

**2008 IEEE EMCS Chapter Meeting, Pittsburgh Section
May 21, 2008**



An Attentive Audience



Good Food



**A Well Deserved Plaque Presented
to Mr. Steven Bowman**

**ON BEHALF OF ALL OF US IN PITTSBURGH PA,
"THANK YOU STEVEN FOR YOUR CONTRIBUTION TO OUR IEEE EMC
SOCIETY PITTSBURGH CHAPTER"**