

July 2010 Meeting Report of the W.I.E. and IEEE EMCS Chapter, Pittsburgh Section, Region 2

A joint technical meeting of the IEEE Pittsburgh EMC Society Chapter and W.I.E. Chapter was conducted on July 8, 2010 at the Westinghouse Energy Center in Monroeville PA. Michael Oliver, IEEE EMCS Chapter Chair, and Dr. Rin Burke of the WIE chapter, hosted the technical meeting with 18 people in attendance. The meeting started with a dinner at 6:30 pm prior to a 7:00 pm technical presentation. We had the privilege of having Dr. Bill Duff as our technical speaker; Dr. Bill Duff is past President of the IEEE EMC Society.

The presentation addressed recent advances in microcircuits and other technologies that have resulted in the development of ultra-wideband (UWB) devices with very narrow pulse widths and very wide bandwidths. These devices will enable reliable and efficient operations in harsh environments by exploiting the unique properties of UWB systems that allow them to work in a dense multi-path environment and to provide: high data rate short range communications; high resolution imaging for radar applications; precision location and tracking accuracy for personnel trapped in mines, first responders trapped in buildings; etc. and a variety of other useful functions that make them very appealing.

About the speaker: Dr. William G. Duff (Bill) received a BEE degree from George Washington University in 1959, a MSEE degree from Syracuse University in 1969, and a DScEE degree from Clayton University in 1977. Bill is a founder and President of SEMTAS. He is internationally recognized as a leader in the development of engineering technology for achieving electromagnetic compatibility (EMC) in communication and electronic systems. He has 42 years of experience in EMC analysis, design, test and problem solving for a wide variety of communication and electronic systems. Bill has written more than 40 technical papers and four books on EMC. He also regularly teaches seminar courses on EMC. Bill has received a number of IEEE awards including the Lawrence G. Cumming Award for Outstanding Service, the Richard R. Stoddard Award for Outstanding Performance and a "Best Paper" award. He was elected to the grade of IEEE Fellow in 1981 and is a NARTE Certified EMC Engineer.



**Dr. Rin Burke of W.I.E. and Mike Oliver of the EMC
Chapter addressing the audience**



**The Ultra-wide Band
Presentation**



**A Well Deserved Plaque Presented to
Dr. Bill Duff
ON BEHALF OF ALL OF US IN
PITTSBURGH PA...
"THANK YOU BILL FOR YOUR
CONTRIBUTION TO OUR W.I.E.
AND EMC PITTSBURGH
CHAPTERS"**