



September 11, 2008



IEEE Electromagnetic Compatibility (EMC) Society
Huntsville, Alabama Chapter

Monthly Technical Meeting

Time (pm)	Activity
5:30 – 6:00	Social / Meal / Sign In
6:00 - 6:10	Sponsor Remarks
6:10 - 6:25	Chapter Business
6:25 - 7:25	Technical Presentation
7:25 - 7:30	Question/Answer Session
7:30	Adjourn



Many Thanks to Our
Meeting Sponsors!



Please Thank Our Meal Sponsors:

Tom Eichelberger



Excellence in Compliance Testing
Scott Proffitt

**EMC
Compliance**
Ken Javor

Business Meeting

1. Minutes From The August Meeting
2. 2008 Chapter Meeting Remaining Schedule
3. Upcoming EMC Events
4. EMC Community Update

2008 Meeting Schedule

Date Location	Topic	Speaker	Refreshment Sponsor
January 10 ADTRAN Minutes(PDF) Charts(PDF)	ML-STD-461F Revisions Presentation(PDF) Conformity Article	Jack McFadden Wyle Laboratories	Fair-Rite, Bob Wood
February 21 ADTRAN Minutes(PDF) Charts(PDF)	Sources of Noise, Modes, and Paths of Electrical Noise Generated by Switch Mode Power Supplies Presentation(PDF)	Steve Robinson ADTRAN Inc.	Intertek, Michael Lehmann
March 4 Mindready Systems Minutes(PDF) Charts(PDF)	How to Design to Fail (Presentation Not Available)	Daryl Gerke Kimmel Gerke Assoc.	Coil Craft, Bob Wood
March 13 ADTRAN Minutes(PDF) Charts(PDF)	Updates on RTCA DO-160 Lightning Testing Presentation(PDF)	Mike Hopkins, Thermo Fisher Scientific	Thermo Fisher Scientific, Lou Feudi
Aug 14 ADTRAN Minutes(PDF) Charts(PDF)	EMI Troubleshooting Commandments Presentation(PDF)	Glenn Shelby NASA	Tektronix, Mike Broadwell
Sept. 11 ADTRAN	"From Bit Banger to Gigabit Guru" & "The Ten Habits of Highly Successful Board Designers"	Dr. Eric Bogatin, IEEE EMC Society Distinguished Lecturer	Brown EMC Compliance, Ken Javor ACS/Rubicom Test Labs, Scott Proffitt
October 9 ADTRAN	Business Meeting	Doug Parker ADTRAN Inc. EMC Society Chair	HSV EMC Chapter



2008 Chapter Meeting Schedule



Date	Location	Topic	Presenter	Sponsor
Sept 11	ADTRAN East Tower	4pm – From Bit Banger To Gigabit Guru 6pm – The Ten Habits Of Highly Successful Board Designers	Dr. Eric Bogatin IEEE EMC DL	AR ACS Labs EMC Compliance
Oct 9	ADTRAN	Business Meeting	Doug Parker Chapter Chair	N/A

**Call for Speakers & Sponsors will go out this month
in preparation for planning the 2009 event calendar**



Upcoming EMC Event



Printed Circuit Board Design for Real-World EMI Control (Electromagnetic Compatibility is NOT Magic!)

RTP - Two day EMC design seminar - Sept 24-25

Dr. Bruce Archambeault

\$1,600 IBM Distinguished Engineer, IEEE Fellow **\$1,600**

Course Description

Proper EMC design for printed circuit boards (PCB) can make a significant difference in the final product's performance in the EMC measurement laboratory. Implementing the proper EMC practices during the design phase of the product is critical and can have little or no impact on the product cost when done correctly.

Unfortunately, EMC design is considered to be similar to magic. This seminar focuses on the basic causes of EMC problems, and how to overcome these problems. This seminar is not just a list of "rules or thumb" but rather it helps the student understand why EMC problems happen, and what can be done to eliminate them.

This seminar's primary focus is to help working engineers understand the causes of EMC problems so this knowledge can be applied to real world product design immediately. Formulas and equations are not required and are minimized throughout the seminar. Understanding the causes of EMC problems will allow engineers to make difficult design trade-off decisions!

► Register for RTP seminar by Sept 14 at: gene@mossbayeda.com

More details: <http://www.mossbayeda.com/dessem.html>

Upcoming Signal Integrity Classes[REGISTER NOW](#)

September 2008

- [Essential Principles](#)
September 29 - 30, San Jose

October 2008

- [High Speed Design Principles](#)
October 1 - 2, San Jose
- [High Speed Design Principles](#)
October 9 - 10, (Intel only)

Dr. Stephan Frei – IEEE EMC Distinguished Lecturer

Professor University Dortmund
D-44227 Dortmund, Germany

Available November 20, 2008 To Give Chapter Presentation In HSV

- Computational methods in automotive EMC
- New measurement and testing methods in automotive EMC
- ESD in automobiles
- Improving reproducibility in ESD testing
- Modeling languages VHDL-AMS for EMC simulation
- Simulation methods for signal integrity of automobile bus systems



Giving Back To The EMC Community



We've Provided Funds To Sponsor:

- Huntsville IEEE EMC 2008 (Seed Money)
- Two Students To Attend This Event (One For UAH & AAMU)
- Huntsville IEEE EMC 2010 (Seed Money)
- Chapter Meetings For The Next Three Years

Other Ideas Proposed To Date:

- Purchase And Donate EMC Design Books To Local Libraries
- Provide A Grant To UAH To Develop An EMC Design Class
- Offer A One Time Scholarship To A Worthy Student
- Offer An Annual Scholarship To A Worthy Student
- Sponsor A UAH & AAMU IEEE Student Chapter Meeting Annually And Talk About EMC



Technical Presentation



Dr. Eric Bogatin
Bogatin Enterprises, LLC

The Ten Habits Of Highly Successful Board Designers