



April 16, 2009



IEEE Electromagnetic Compatibility (EMC) Society
Huntsville, Alabama Chapter

Monthly Technical Meeting

Time (pm)	Activity
5:30 - 6	Social / Meal / Sign In
6 - 6:05	Sponsor Remarks
6:05 - 6:25	Chapter Business
6:25 - 7:20	Technical Presentation
7:20 - 7:30	Question/Answer Session
7:30	Adjourn



Many Thanks to Our Meeting Sponsor!



Please Thank Our Meal Sponsor:

Mr. Mike Kirk



Agilent Technologies

Business Items

1. 2009 Chapter Remaining Meeting Schedule
2. Upcoming EMC Events
3. EMC Book Update
4. Call For Chapter Volunteers
5. IEEE Membership And Senior Grade

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EMC Society Meeting Schedule

Information about past, present and future meetings can be found here. If there is a topic of interest that you would enjoy seeing presented, please email [Doug Parker](mailto:Doug.Parker@adtran.com).

2008 Meeting Schedule

Date	Location	Topic	Speaker	Refreshment Sponsor
January 10	ADTRAN	MIL-STD-461F Revisions Presentation (PDF) Conformity Article	Jack McFadden Wyle Laboratories	Fair-Rite, Bob Wood
February 21	ADTRAN	Sources of Noise, Modes, and Paths of Electrical Noise Generated by Switch Mode Power Supplies	Steve Robinson ADTRAN Inc.	Intertek, Michael Lehmann
March 4	Mindready Systems	How to Design to Fail	Daryl Gerke Kimmel Gerke Assoc.	Coil Craft, Bob Wood
March 13	TBD	Updates on RTCA DO-160 Lightning Testing	Mike Hopkins, Thermo Fisher Scientific	Thermo Fisher Scientific, Lou Feudi
Aug 14	TBD	EMI Troubleshooting Commandments	Glenn Shelby NASA	Tektronix, Mike Broadwell
Sept. 11	TBD	TBD	IEEE EMCs Distinguished Lecturer	Amplifier Research, Don Brown EMC Compliance, Ken Javor ACS/Rubicon Test Labs, Scott Proffitt
October 9	ADTRAN	Business Meeting	Doug Parker ADTRAN Inc. EMC Society Chair	HSV EMC Chapter



2009 Chapter Officers



- **Chair: Doug Parker**
 - Employer: ADTRAN Inc.
 - Email: doug.parker@adtran.com
 - Phone: 256.963.6937
- **Treasurer: Jim Stone**
 - Employer: Underwriters Labs
 - Email: james.a.stone@us.ul.com
 - Phone: 256.963.6026
- **Vice Chair: Jeff Whitmire**
 - Employer: ADTRAN Inc.
 - Email: jeff.whitmire@adtran.com
 - Phone: 256.963.8554
- **Member at Large: Paul Stover**
 - Employer: ADTRAN Inc.
 - Email: paul.stover@adtran.com
 - Phone: 256.963.6099
- **Secretary: Jack McFadden**
 - Employer: Wyle Laboratories
 - Email: jack.mcfadden@wylelabs.com
 - Phone: 256.716.4471
- **Member at Large: Hansel Cornutt**
 - Employer: Retired (that's awesome)
 - Email: hanskat@knology.net
 - Phone: 256.544.5329



2009 Chapter Meeting Schedule



Date	Location	Topic	Presenter	Sponsor
Apr 16	ADTRAN	Dipoles For Dummies	Henry Ott Henry Ott Consultants	Agilent Technologies
May 21	TBD	ESD Susceptibility Scanning	Michael Hopkins Amber Hopkins	Michael Hopkins Amber Hopkins
Aug 13	TBD	Using the Real Time Spectrum Analyzer To Identify Signals	Pietr Seidel Tektronix	Intertek
Sep 17	ADTRAN	IEEE EMCS Distinguished Lecturer	TBD	AR and others
Oct 15	ADTRAN	Business Meeting	Doug Parker Chapter Chair	EMC Chapter
Nov 12	ADTRAN	To Be Determined	National EMC Society	National EMC Society



Upcoming EMC Events



ELECTROMAGNETIC COMPATIBILITY ENGINEERING COURSE

Instructor: Henry W. Ott

April 16-17, 2009 Huntsville, AL

Early Sign Up Price \$597.00¹

Price Includes Course, Book², and Class Notes



Phase IV Systems Operation



This two day course covers the practical aspects of noise and interference control in electronic systems. Emphasis is on the cost-effective EMC design of high-speed digital systems, and on the proper layout of mixed-signal PCBs and grounding.

The first day's emphasis will be on the EMC design of digital circuits including effective high-speed decoupling, the control of differential- and common-mode radiated emissions, as well as the proper design for RF and transient immunity.

The second day's emphasis will be on the partitioning and layout of mixed-signal PCBs. Preventing digital logic currents from contaminating low-level analog signals on a mixed-signal PCB can be a difficult problem. By understanding how and where high-frequency currents flow, and by using some basic principles of EMC, we are able to develop an approach to controlling these currents while, in most cases, maintaining a single contiguous ground plane.

SOLD OUT



Upcoming EMC Events



Bridge to the Stars
Technology & Trade Show

Presented by



Newark and Tektronix



Date: Thursday April 30, 2009

Time: 8:30 AM - 2:00 PM

Food: 11:00 AM - 1:00 PM **FREE Lunch !!!**

Website: www.huntsvilleshow.com



Upcoming EMC Events



Come To Austin, TX In 2009
August 17 – 21 Austin Convention Center
<http://www.emc2009.org>



Upcoming EMC Events



Electromagnetic Compatibility Engineering
(Including Mixed-Signal PCB Layout)

June 2-3, 2009

Ramada Inn & Conference Center
East Hanover, NJ

www.hottconsultants.com



EMC Chapter Book Update



Book List For Our Library:

Electromagnetics Explained	by Ron Schmitt
EMI Troubleshooting Techniques	by Michael Marduguan
High Frequency Measurements and Noise In Electronic Circuits	by Douglas Smith
High-Speed Digital Design: A Handbook of Black Magic	by Howard Johnson
High-Speed Signal Propagation: Advanced Black Magic	by Howard Johnson
High-Speed Digital System Design: A Handbook of Interconnect Theory and Design Practices	by Hall, Hall, McCall
Introduction To Electromagnetic Compatibility	by Clayton Paul
Lightning Protection Of Aircraft	by Fisher, Perala
Noise Reduction Techniques In Electronic Systems	by Henry Ott
PCB Design for Real-World EMI Control	by Bruce Archambeault
Signal Integrity – Simplified	by Eric Bogatin



Call For Chapter Volunteers



The chapter needs volunteers

- Encourage new ideas and different perspectives
- Expand chapter leadership base
- The current officers are not eligible for re-election in their current roles

Volunteering has many personal benefits

- Develop your leadership and team work abilities
- Get to know more local EMC practitioners
- See “the bigger picture” outside your job
- Unlike your day job, you can’t be fired!

How you can help

- Volunteer to help with activities discussed above
- As a minimum, **please respond to register your preferences when polled**



IEEE Membership Benefits

- Knowledge Database - News Letters, Magazines, Standards, White Papers
- Misc. - Email alias, Networking, Job Search, Consultant Support Services
- Financial Advantage Program - Insurance, Travel, Finance, Discounts

Senior Membership Upgrade

- Senior Member is the highest grade for which IEEE members can apply.
- To be eligible for application, candidates must:
 - Be engineers, scientists, educators, technical executives
 - Have experience reflecting professional maturity
 - Have been in professional practice for at least ten years
 - Show "significant performance" over a period of at least five of their years
- Contact Woody Williams To Review Your Resume or Apply Online
woody@imagefactorsouth.com
ifs@hiwaay.net



Mr. Henry W. Ott

Henry Ott Consultants

www.hottconsultants.com

“Dipoles For Dummies”