



February 19, 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. Tom Revesz**



HV TEST ■ MONITORING ■ DIAGNOSTICS



## Chapter Business



### Business Items

1. 2009 Chapter Meeting Schedule
2. Upcoming EMC Events
3. Speaker



## 2009 Chapter Officers



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



### 2009 Chapter Meeting Schedule



Date	Location	Topic	Presenter	Sponsor
Jan 15	ADTRAN	Electrostatic Discharge – Design Guidelines	Paul Stover ADTRAN Inc.	WYLE Labs
Feb 19	TBD	Voltage Spikes On Aircraft Power Interfaces	Nick Wright HV Technologies	Tom Revesz HV Technologies
Apr 16	ADTRAN	Dipoles For Dummies	Henry Ott Henry Ott Consultants	TBD
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	TBD	IEEE EMCS Distinguished Lecturer	TBD	AR and others
Oct 15	ADTRAN	Business Meeting	Doug Parker Chapter Chair	N/A



### Upcoming EMC Events



## ELECTROMAGNETIC COMPATIBILITY ENGINEERING COURSE

Instructor: Henry W. Ott

April 16-17, 2009 Huntsville, AL

Early Sign Up Price \$597.00<sup>1</sup>

Price Includes Course, Book<sup>2</sup>, 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



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

**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



### 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](mailto:woody@imagefactorsouth.com)  
[ifs@hiwaay.net](mailto:ifs@hiwaay.net)

**Mr. Nick Wright**

**HV Technologies**

**Voltage Spikes on Aircraft  
Power Interfaces**