EMC Society

Central Texas Section

Chapter Meeting January 19, 2011 Austin, TX

Agenda

- Chapter Meeting
 - Introduction
 - Program
 - Chapter calendar
 - eBooks on IEEE Xplore
 - There's a new lab in town
 - Future events
- Technical Presentation



Introductions

- Name
- Company or school
- Your connection to or interest in EMC



Introductions

- Chapter Leadership Team
 - Chair Ross Carlton
 National Instruments, ross.carlton@ni.com
 - Vice Chair Jason Anderson
 Professional Testing, janderson@ptitest.com
 - Secretary/Treasurer Mark Prchlik ETS-Lindgren, mark.prchlik@ets-lindgren.com



Introductions

- Chapter Coordinators
 - Technical Program
 - Mike Royer

Foxconn, mike.royer@foxconn.com

Other possible volunteer positions include Arrangements, Membership, Student Liaison, and Conferences. Please contact an officer for more information.





Program

2011 Technical Program

* EMCS Distinguished Lecturer

	Month	Topic
	January *	Conducted emissions, power supplies, and LISNs; Mark Steffka; GM, Milford, MI
	February *	What causes radiation?; Omar Ramahi; University of Waterloo, Waterloo, Canada
	March	EMI/EMC Simulation and Modeling; David Johns; CST
	April	Open
	May	Open
	June	Open
	July	Open
	August	Open
	September *	EMC Testing of Substation Products or Green Power & the Modern Grid; Jerry Ramie; ARC Technical Resources, San Jose, CA
	October	Open
	November	Open
	December	Open

IEEE EMC Society - Central Texas Chapter





Program

EMC Society Video DL Program Titles

- "Effective Power/Ground Plane Decoupling for PCB" by Bruce Archambeault
- "The 'Ground' Myth" by Bruce Archambeault
- "The Three Most Confusing Principles In Signal Integrity And How Not To Be Confused" by Eric Bogatin
- "The Ten Habits of Highly Successful Board Designers" by Eric Bogatin
- "Signal integrity and EMI in high speed electronics" by Erping Li.
- "Advanced electromagnetic simulation techniques for analysis of signal and power integrity in multilayered electronic packaging" by Erping Li.
- "Power integrity design for high speed circuit packages" by Tzong-lin Wu.
- "Signal integrity simulation and equivalent circuit modeling" by Tzong-lin Wu.
- "Metamaterials and metafilms: overview and applications" by Chris Holloway.
- "Reverberation chambers for EM applications" by Chris Holloway.
- "Signal integrity of TSV-based 3D IC" by Joungho Kim.
- "Power integrity of SiP (system in Package)" by Joungho Kim.

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Chapter Calendar

- 2010 Administrative Activities
 - January
 - Install new officers
 - Chapter planning meeting
 - Receive budget from Section
 - Attend Section planning meeting
 - January 29, 2011 at TSU from 9:30am 3pm
 - February
 - Chapter planning meeting



Chapter Calendar

- 2011 Technical Program
 - Definition is in progress
 - Scheduled filled through March
 - Call for Presentations
 - New resource
 - EMCS DL Video Program
 - Videos of EMCS DLs giving presentations.
 - Available in DVD, mpeg or wmv formats.
 - Available for Chapter meetings or member use.



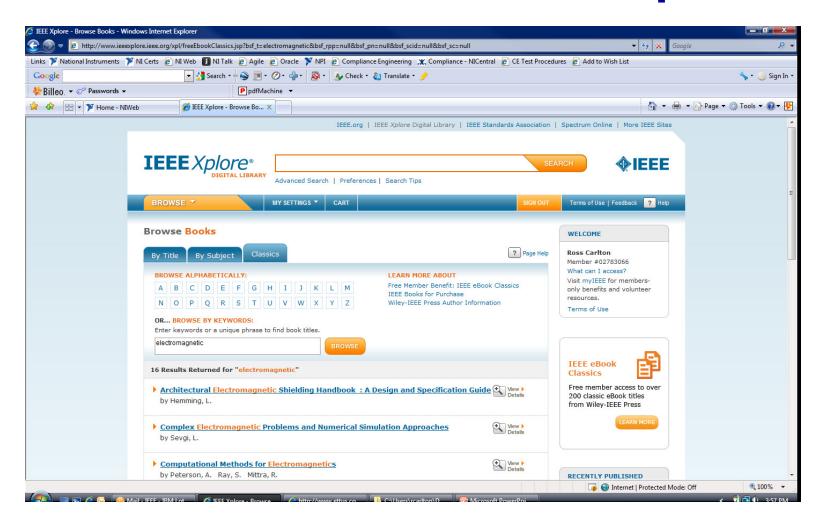
eBook Classics on IEEE Xplore

- eBook Classics
 - IEEE members now have access to more than 240 eBooks from the IEEE Press collection through IEEE Xplore, at no additional cost.
 - The collection spans 5 different content areas, and includes: practical handbooks, introductory and advanced texts, reference works, and professional books.





eBook Classics on IEEE Xplore





There's a new lab in town

- MET Labs Austin
 - MET Labs has acquired Dell's EMC Test facility and will be performing EMC and Product Safety Testing for local clients.



- On January 5, 2011, the facility began operations as MET Austin.
- Contact Steve Pitta, General Manager.



Future Events

E-Week Austin, 22-26 February 2011

- The IEEE Central Texas Section is organizing this event for Austin's Engineers to acknowledge and congratulate our engineering contributions to the community. The event is organized at several company locations in the city of Austin. Each event will feature high level speaker from major company located in Austin to show case the company technologies and products and including time for social function before and after the talk, and snacks and beverage.
- Watch the CTS Website and the February Analog for more info on the event list and how to register.
- Contact the Section Vice Chair for Austin (Thuy Dao, thuybdao@ieee.org) if your company is interested in hosting an event.
 IEEE EMC Society Central Texas Chapter

Future Events

- Magnetics 2011
 - March 1-2, 2011
 - San Antonio, TX
 - Grand Hyatt Hotel
 - Focused on the latest advancements in magnetic applications, technology and materials.
 - www.magneticsmagazine.com





Future Events

- 2011 IEEE EMC Symposium
 - August 14-19, 2011
 - Long Beach, CA
 - Venue: Long Beach Convention & Entertainment Center



- Host hotel: Hyatt Regency Long Beach
- www.emc2011.org



Technical Presentation

Conducted Emissions, Power Supplies and LISNs

by Mark Steffka

EMC Techncial Specialist

GM-Powertrain



Wrap-Up



See You Next Time?

Wednesday, February 23, 2011

This meeting will be the second of two in our Emissions Series. Omar Ramahi, from the University of Waterloo, will explore the fundamental question of "what causes radiation" from a purely practical and engineering-relevant perspective. He will show that powerful numerical schemes, circuit models, and analytical techniques that, while potentially providing elegant and full solution to the radiating problem, fail to highlight the physical phenomenon of interest to EMI/EMC engineers in the first place unless careful attention is paid to... the fundamental sources of radiation!

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