EMC Society

Central Texas Section

Chapter Meeting April 21, 2010 Austin, TX

Agenda

- Chapter Meeting
 - Introduction
 - Chapter calendar
 - May Presentation Topic
 - Future events
- Technical Presentation
- Wrap Up



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 Mike Royer
 Foxconn, mroyer@mikeroyer.com
 - Secretary/Treasurer Mark Prchlik Panashield, mark@prchlik.com



Chapter Calendar

2010 Technical Program

- * EMCS Distinguished Lecturer
- ** EMCS Respected Speaker

	Month	Topic
	January	Design of a Medium Power RF Absorber by Mechanical Approach, Dr. Vince Rodriguez, ETS-Lindgren
	February *	EMC/EMI Issues in Biomedical Engineering, Dr. Ji Chen, University of Houston
	March	Standards Development: CISPR 32 and CISPR 35, Richard Worley, Dell
	April	IEC 61000-4-2, -4, -5, -11 Standards Revisions , Tom Revesz, HV Technologies
	May **	Topic TBD, Elya Joffe, KTM Project Engineering (Outgoing EMCS President)
	June	
	July	2010 IEEE EMC Symposium, Ft. Lauderdale, FL
	August	Topic TBD, Bob Scully, NASA
	September	EMI/EMC Simulation and Modeling, David Johns, VP Engineering, CST
	October *	Metamaterials for EMC Engineers, Omar Ramahi, Univ. of Waterloo
	November	
	December	



Chapter Calendar

- 2010 Administrative Activities
 - April
 - None
 - May
 - None
 - June
 - Call for 2011 officer nominations



May Presentation Topic

- Elya Joffe will speak
 - Topics
 - Path of Least Impedance
 - EMC Grounding Fundamentals
 - Cost of EMC
 - Frequently Asked EMC Questions (and Answers)
 - Who's Afraid of Maxwell's Equations? A Practical Approach



Current Events

Iceland's Disruptive Volcano



Smoke billows from an erupting volcano which seems to be close to the top of the Eyjafjalla glacier on April 14, 2010 near Reykjavik. All London flights, including those from Heathrow, will be suspended from noon (1100 GMT) today due to volcanic ash from Iceland that has already caused almost 300 cancellations here, officials said. (AFP/Getty Images)

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Current Events

Iceland's Disruptive Volcano



Terrestrial photos taken by Marco Fulle on April 16th, 2010. http://www.swisseduc.ch/stromboli/perm/iceland/eyafallajokull_20100416-en.html

EEE

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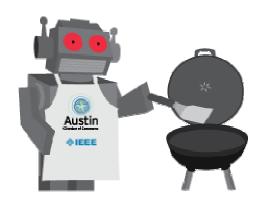
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International Instrumentation & Measurement Technology Conference

- May 2-6, 2010
- Hilton, Austin, TX
- imtc.ieee-ims.org





- Austin Brain Party
 - May 4, from 5:30 to 7:30 p.m.
 - Hilton Austin Downtown
 - To register, submit your name, email address, company and IEEE membership status to vsegna@austinchamber.com.
 - Admission at the door with business card or student ID.

http://www.AustinHumanCapital.com/BrainParty



2010 IEEE EMC Symposium

July 25-30, 2010, Convention Center, Ft. Lauderdale, FL



- Update
 - Technical papers reviews in process
 - Advance Program
 - In preparation. Will come out in late April
 - Conference hotels are filling up
 - Make your reservations now!
 - Experiment & Demo proposals due by 4/30

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Workshops & Tutorials

Monday

Fundamentals of EMC

Practical Radiated Measurements using Antennas and Field Probe

Power Quality and Low-Frequency EMC in Electrical Systems

ESD and Lightning Testing Additions to MIL-STD-461G

Introduction to EMI modeling techniques

All about EMI above 1 GHz

How to simplify real-world complex systems into realistic, solvable, accurate models

Application of Reverberation Chambers



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Workshops & Tutorials

Friday

EMC Leadership

Application of Time Domain Measurements for Test Site Validation and Antenna Calibration

EMC Society History

Fundamentals of Signal Integrity

Emissions and Immunity near field scanning techniques

Basic EMC Measurements

Capturing the Electromagnetic Environment

EM Field Coupling with Transmission Lines, from Classical Theory to Recent Enhancements

Practical Tips on 17025 Compliance



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Special Sessions

Tuesday, Wednesday & Thursday

Multi-Gbps Interconnect Simulation and Measurement for Signal Integrity and EMI Requested afternoon session.

EMI Information Leakage

Modeling/Simulation Validation Standards and Applying the FSV Technique to Quantify Validation Quality

Nanomaterials and Nanodevices for EMC Applications

Hybrid Techniques for EMC Analysis of Complex Systems

Evolving Trends in Spectrum Management and Engineering



Technical Presentation

EMC Standards Development: CISPR 32 and CISPR 35

New EMI Requirements for Multimedia Equipment

by Richard Worley
Sr. Regulatory Engineer
Dell



Wrap-Up



See You Next Time?

Wednesday, May 19, 2010

Elya Joffe of KTM Project Engineering will demystify the very basics of electromagnetic theory - Maxwell's Equations. The presentation will provide explanations in everyday terms and without the need for mathematics the meaning and implication of Maxwell's equations for the practicing engineer.

