

Why does my design fail EMC? and How to fix it!

Date: **Thursday, August 16, 2012**

Time: 12:00pm - 1:00pm

Speaker: Jerry Meyerhoff of JDM LABS LLC

Agenda: Informal networking will begin at 11:30am.
Presentation will begin at 12:00pm.

Location: Promega BioPharmaceutical Technology Center
5445 E Cheryl Pkwy, Room Number: 122
Madison, WI 53711

Menu: Pizza buffet provided: \$5 for IEEE members, \$10 for non-members, **free for students.**

RSVP: Deadline: Aug 13. Go to https://meetings.vtools.ieee.org/meeting_view/list_meeting/13523
to register. Please send questions or difficulties to Mark Vincent at mvincent@ecw.org.



Non-member guests are always welcome!

Abstract

Overall EMC principles are introduced - 4 quadrants of mechanisms 3 elements of the actors 4 types of coupling Case studies drawn from 6 designs are used to demonstrate the underlying EMC physics across the 4 quadrants for causes and cures. Analysis, measurement and creativity methods are highlighted. Narratives also present soft skills of teamwork & consulting persuasion. Solutions are generalized for applicability to multiple future designs.

Biography

Jerry Meyerhoff, EMC Consultant at JDM Labs, received his BSEE from University of Illinois (Chicago) and post-graduate studies at IIT. Previously he was Staff Engineer with Motorola Communications Division and Distinguished Member of the Technical Staff of the Motorola Automotive Business, then Distinguished Member of the Technical Staff, EMC Engineer, ElectroMagnetic Compatibility specialist, with Continental Automotive Systems. IEEE/EMC Distinguished Lecturer, Secretary of the Chicago IEEE/EMC chapter, Programs Chair of the UIC Engineering Alumni Association (EAA), UIC Constituent Leadership Award, Six US Patents, Amateur operator WA9FIY.

IEEE Entrepreneurs & Consultants Network, Madison Networking Meeting

Date: **Thursday, August 2, 2012**

Time: 12:00pm to 1:00pm

Purpose: Presentation, topic TBD.

Location: TBD

Parking: TBD

Process: Members are encouraged to make introductions, describe endeavors, and make request for: contacts in target companies, needs, resources. Bring your elevator speech and rolodex!

RSVP: Tim Chapman (PrettyGoodGUIs@TrueNym.NET)

Vol. 15, No. 7

Serving IEEE Members of South Central Wisconsin

August 2012

SECTION Meetings

The third Thursday of Jan.-May and Sep.-Dec. is reserved for a meeting to provide recent research, developments, trends and/or innovations in one of our membership's technical areas.

NETWORKING Meetings

The first Thursday of even numbered months is reserved for a meeting to provide networking opportunities for members who are consultants or entrepreneurs. Bring your elevator speech and rolodex!

Section Meeting Schedule for 2012

(schedule subject to change)



January 19, EU e-Freight Software Initiative

February 16, Patent Law

March 15, Reverse Electrowetting

April 27, Signal Processing

May 17, Electricity Nanogenerators

May 22, Annual Wind Farm Tour

August 16, Why does my Design fail EMC?
by Jerry Meyerhoff

September 20, Identifying Optimal EMC
Solutions with Inductors by Kurt Smith

October 18, International Trademarks
by Richard Abegglen

November 15, Unraveling Tornadoes with
Mobile Doppler Radar by Robin Tanamachi

December 20, TBD

Networking Meeting Schedule for 2012

(schedule subject to change)

February 2, TBD

April 5, TBD

June 7, TBD

August 2, TBD

October 4, TBD

December 6, TBD

Vol. 15, No. 7

Serving IEEE Members of South Central Wisconsin

August 2012

SELECTION OF OFFICERS

At the December monthly meeting, the IEEE Madison Section conducted its annual officer elections prior to the presentation:

JOB BOARD AREA (NEW!)

Check out www.WIEES.com for electrical engineering jobs in Madison and the surrounding region. This site is maintained as a service for electrical engineers.

Jobs are displayed starting with the most recent postings first. You can filter results by location and job type. If you are hiring an electrical engineer in our area, for full-time or contract work, you can post the job in the Contact Us section.



2012 OFFICERS

David Marca, Chair
dmarca@openprocess.com
Steve Schultheis, Vice Chair
ss@ieee.org
Charles Gervasi, Treasurer
cj@cgevvasi.com
Mark Vincent, Secretary
mvincent@ecw.org
Tim Chapman, Web Master
prettygoodquis@truenym.net

2012 MEMBERS AT LARGE

Dennis Bahr
bahr@inxpress.net
Mitch Bradt
bradt@wisc.edu
Craig Heilman
craigh@bugsoft.com
Clark Johnson
clarkjohnson@cpinternet.com
Thomas Kaminski, ECN Chair
kaminski@matcmadison.edu
Sandy Rotter
rotter@ieee.org

IEEE Madison Section Sponsors

We thank the following sponsors for their support of the IEEE Madison Section, and for the valuable opportunities and services they provide to the Section and to its membership:



EMC, Product Safety & Environmental Testing
Since 1983



EMC by Your Design

An EMC Practical Applications Seminar and Workshop

Tues. Oct. 23 – Thurs. Oct 25, 2012

Hilton Hotel, Northbrook, IL

847-537-6400

www.dlsemc.com/emcseminar

Learn how to design your product so that it complies with EMC regulations can save you from having a finished product that fails during its regulatory compliance testing. Re-designing or adding fixes to a failed product can be expensive and time consuming. By taking the EMC by Your Design seminar, you will learn the fundamentals of electro-magnetic compatibility, including understanding the many EMC regulatory requirements such as FCC, CE, US Military, RTCA-DO-160 and those of most foreign countries. You will learn the methodology of how to minimize EMC problems, starting with the design process through final testing and approval, all of which will be brought to life through hands-on practical application to real life products. Also included will be a guided tour of the largest independent EMC and Product Safety facility in North America.

IEEE Membership Level Upgrades

Those interested in upgrading their IEEE membership level should send their resumes or other information showing five years of significant performance in an IEEE-designated field to Charles J Gervasi (cj@cgervasi.com). Madison Section Board will attempt to find Senior IEEE members knowledgeable in the applicant's area of practice who may be able to provide references. You are invited to attend the informal networking portion of the monthly Section meetings (starting at 11:30am) to meet the Section Board members and discuss intentions.

2012 Section Board Members

David Marca	Chair
Steve Schultheis	Vice Chair
Charles Gervasi	Treasurer
Mark Vincent	Secretary
Timothy Chapman	Webmaster
Tom Kaminski	ECN Chair
Mitch Bradt	Member at Large
Clark Johnson	Member at Large
Dennis Bahr	Member at Large
Craig Heilman	Member at Large
Sandy Rotter	Member at Large

IEEE Madison Section Newsletter

Published 9 times per year (Jan.-May & Sep.- Dec.) by the Madison, Wisconsin Section of the Institute of Electrical and Electronic Engineers (IEEE), for its members in South-Central Wisconsin.

Online at <http://ieee-msn.truenym.net/>

For address changes: notify IEEE headquarters at: <http://www.ieee.org/> or address-change@ieee.org. Editorial or comments contact: David Marca at: dmarca@openprocess.com.

Permission to copy without fee all or part of any material without copyright notice is granted provided the copies are not made or distributed for direct communication advantage, and title of the publication and its date appear on each copy. To copy material with a copyright notice requires specific permission. Please direct all inquiries or requests to the IEEE Copyright Office. Thank you.

About the IEEE

The Institute of Electrical and Electronics Engineers or IEEE (read I-Triple-E) is an international non-profit, professional organization dedicated to advancing technology innovation and excellence for the betterment of humanity. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities. It has the most members of any technical professional organization in the world, with more than 300,000 members in around 150 countries. The IEEE consists of 38 societies, organized around specialized technical fields, with more than 300 local organizations that hold regular meetings. For more information, please visit: www.ieee.org.



Reach over 700 IEEE members in South-Central Wisconsin with information on your products and services every month with an ad in this newsletter.

Our members have professional interests in computers, power engineering, signal processing, communications, industry applications and a number of other technical fields

For more information, contact Mitch Bradt at 608-263-1085 or bradt@wisc.edu.

Per issue rates:	1 Time	2 Times	5 Times	9 Times
1/16 Page (3.5x1.125)	\$53	\$46	\$42	\$40
1/8 Page (7x1.125 or 3.5x2.25)	\$82	\$74	\$68	\$67
1/4 Page (7x2.25 or 3.5x4.5)	\$129	\$118	\$112	\$110
1/2 Page (7x4.5 or 3.5x9)	\$205	\$192	\$185	\$183
Full Page (7x9)	\$330	\$315	\$306	\$303