

THE LOG PERIODIC

www.scvemc.org Santa Clara Valley Chapter of IEEE Electromagnetic Compatibility Society

IEEE SCV EMC Society Meeting: Tuesday, March 13, 2012

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Time: Social 5:30 p.m. Presentation 6:30 p.m.

Place: Applied Materials Bowers Cafeteria
3090 Bowers Ave., Santa Clara, CA 95051-0804

Subject: Why does my design fail EMC? & How to fix it.

Speaker: Jerry Meyerhoff, EMI/EMC Principal Consultant, JDM LABS LLC;
IEEE EMC Society Distinguished Lecturer

Abstract: Overall EMC principles are introduced:

- 4 quadrants of mechanisms
- 3 elements of the actors
- 4 types of coupling

Case studies drawn from multiple 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.

Speaker Bio:



Jerry Meyerhoff is currently the Principal of JDM LABS LLC, a consultancy which he started in 2009. He is devoted to assisting clients in optimizing designs for EMC, ElectroMagnetic Compatibility.

Previously Jerry was a Distinguished Member of the Technical Staff of Continental Automotive Systems, Deer Park, Illinois resulting from the acquisition of the former Motorola Automotive Group in 2006. He acted as a group-wide consultant in EMC design, serving multiple projects technologies and customers. Jerry's prior 36 years at Motorola involved hardware design and development applied to radios, RF and analog circuits and refining digital microprocessor hardware with increasing emphasis on EMC.

Jerry holds multiple US patents and publications and was a member of Motorola's Science Advisory Board Associates (SABA), a recognition afforded key members of the technical community. Jerry has participated in SAE EMC standards committees "EMI" and "EMR" refining measurement methods for automotive modules and vehicles. He is active in the IEEE EMC Society and his Chicago Chapter, as an officer and also making technical presentations as a named Distinguished Lecturer. He is a founding member of the UIC Chapter of Zeta Psi of North America Fraternity, founding member and ongoing Board member of the UIC Engineering Alumni Association, member of the UIC ECE Departmental Industrial Advisory Board and past Committee Chair of BSA Troop 401. He also holds Amateur Radio call sign, WA9FIY. He particularly enjoys bicycle touring, challenge rides and civic advocacy.

Refreshments:

Light Dinner and beverages will be served for a fee. Coffee, tea, and snacks are served free of charge.

$$\begin{aligned}\nabla \times \vec{E} &= -\frac{\partial \vec{B}}{\partial t} \\ \nabla \times \vec{H} &= \frac{\partial \vec{D}}{\partial t} + \vec{J} \\ \nabla \cdot \vec{D} &= \rho \\ \nabla \cdot \vec{B} &= 0\end{aligned}$$



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