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November 2003 Issue

## SCV IEEE/EMC Society Meeting

Tuesday November 11, 2003

Special joint meeting introducing the new Product Safety Engineering Society

With our honored guests: IEEE EMC Society Board of Directors

~~See insert page for details~~

Chapter technical program:

Subject: PCB EMC Design Guidelines: A Brief Annotated List

Speaker: Prof. Todd H. Hubing,  
University of Missouri-Rolla (UMR)

Time: 5:30 p.m. Social, 7:00 p.m. Presentation

Place: Applied Materials Bowers Cafe, 3090 Bowers, Santa Clara, CA 95051-0804

### Abstract:

Some of the worst printed circuit board design choices are made by engineers who are trying to comply with a list of EMC design guidelines. At the University of Missouri-Rolla, students working with a list of 40 "good" EMC design guidelines tend to produce board layouts that are worse than layouts produced by students with no access to guidelines. Nevertheless, a short prioritized list of design guidelines can be helpful at times. This presentation reviews some of the more general EMC design guidelines for printed circuit board layout and attempts to categorize them as good, bad or indifferent.

### Biography:

Todd Hubing received his B.S.E.E. degree from the Massachusetts Institute of Technology in 1980, his M.S.E.E. degree from Purdue University in 1982, and his Ph.D. in Electrical Engineering from North Carolina State University in 1988. From 1982 to 1989, he was employed in the Electromagnetic Compatibility Laboratory, IBM Communications Products Division, in Research Triangle Park, NC. In 1989, he decided that he wanted to spend less time fixing EMC problems and more time trying to understand them, so he left IBM to join the faculty at the University of Missouri-Rolla (UMR). He is currently a Professor of Electrical and Computer Engineering at UMR and part of a team of faculty and students working to solve a wide range of EMC problems affecting the electronics industry.

Prof. Hubing teaches the "Grounding and Shielding" and "High-Speed Digital Design" courses at UMR, where he has received several awards for teaching and faculty excellence. He's been an associate editor of the IEEE Transactions on EMC and the Journal of the Applied Computational Electromagnetics Society. He is currently the President of the IEEE EMC Society.

## IEEE/EMC/SCV CHAPTER

### Meeting Tuesday November 11, 2003

LOCATION: Applied Materials Bowers Café

3090 Bowers, Santa Clara, CA 95051-0804

5:30 p.m. Social

7:00 p.m. Discussions



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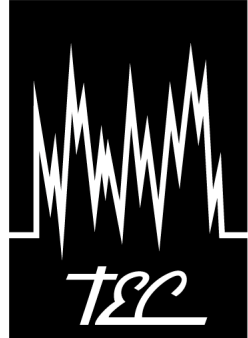


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Special Joint SCV PSTC and EMC meeting  
 November 11, 2003

The IEEE EMC Society Board of Directors are in town this day holding a board meeting at UL. Immediately after the meeting, all members (approximately 25) will be attending the SCV EMC Chapter meeting. This is a once-in-a-lifetime experience for a Chapter to be visited by the entire Board of Directors, for any Society.

Come to this special meeting and meet the EMCS Board, who helped establish our new Product Safety Engineering Society. In fact, one of our PSTC members, Mark Montrose is on the EMCS Board.

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 This space is available to any of the paid sponsors of the SCV EMC Chapter to present technical articles.

For details and to submit your article, contact:  
 Tom at [t.w.winegar@ieee.org](mailto:t.w.winegar@ieee.org)

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