

THE LOG PERIODIC

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

IEEE SCV EMC Society Meeting: Tuesday, October 11, 2011

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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: Antennas for Radiated Immunity Measurements - A Never Ending Story

Speaker: Hans-Peter Bauer, Rohde & Schwarz USA

Abstract:

Choosing the 'right' antenna for radiated immunity measurements can be, especially above 1 GHz, quite challenging. On the one hand a high gain antenna is desired to reduce the amplifier power needed. On the other hand the 3-dB-beamwidth needs to be taken into account to maximize the illuminated area.

This is especially true for measurements according to IEC61000-4-3, MIL-STD 461 or full vehicle testing according to MIL-STD 464.

This lecture will start with a short introduction into antenna basics. Show the difference between near and far field gain of logarithmic periodic and horn antennas with examples. Furthermore, examples of illuminated area calculations are shown.

Speaker Bio:

Hans-Peter Bauer has been at ROHDE & SCHWARZ since 1992, where he is a Senior Project Manager for EMC and RF Test Systems. Hans-Peter has more than 15 years of international experience in the field of EMC test systems and projects for commercial, automotive and military applications.

He received his electrical engineering degree (Dipl.-Ing.) from the Fachhochschule in Mannheim, Germany in 1992.

Refreshments:

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

$$\nabla \times \vec{E} = - \frac{\partial \vec{B}}{\partial t}$$

$$\nabla \times \vec{H} = \frac{\partial \vec{D}}{\partial t} + \vec{J}$$

$$\nabla \cdot \vec{D} = \rho$$

$$\nabla \cdot \vec{B} = 0$$



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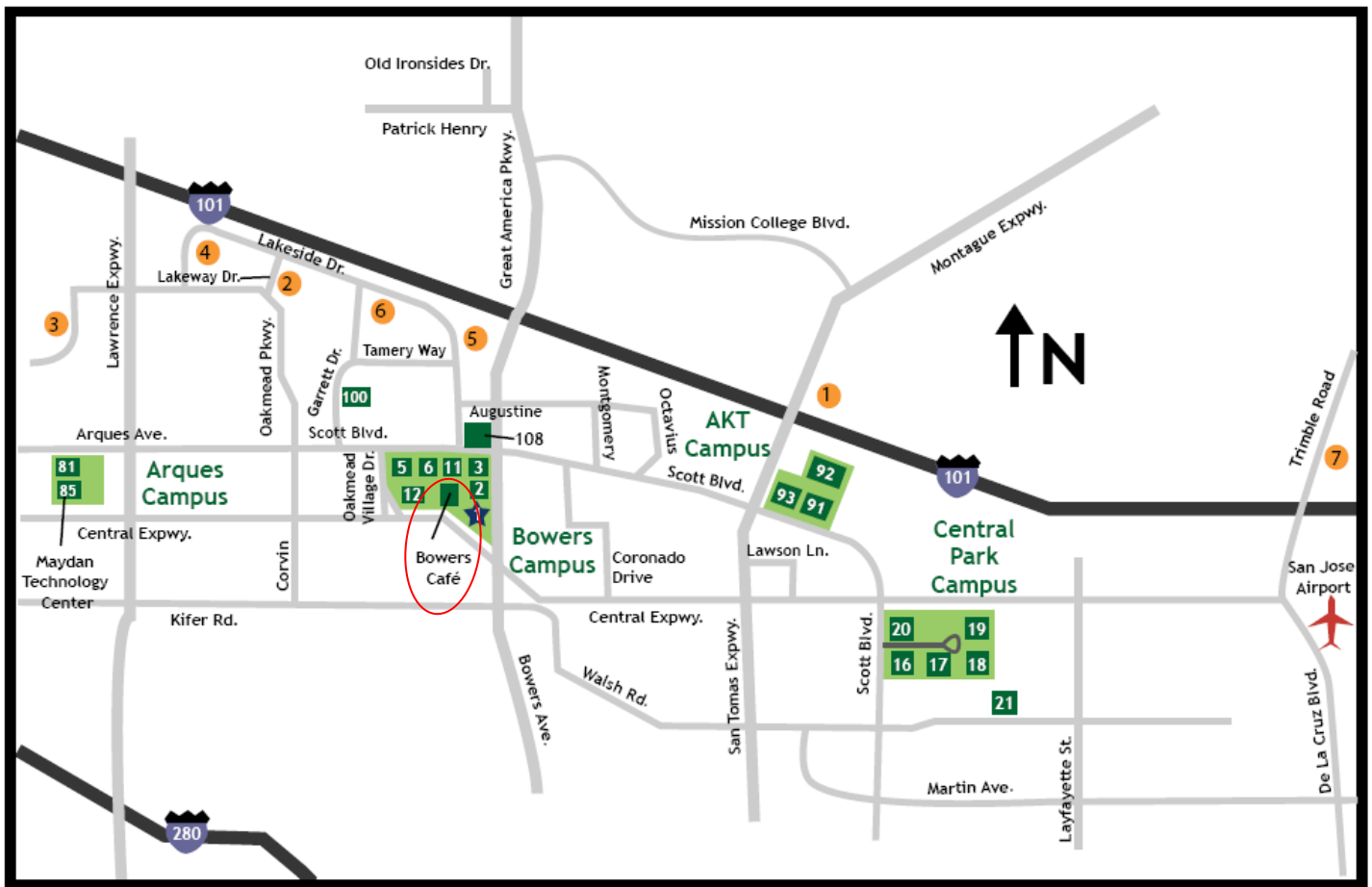
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