

THE LOG PERIODIC

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

IEEE SCV EMC Society Meeting: Tuesday, March 8, 2011

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Caroline.Chan@lmco.com

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lqoldsch@cisco.com

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408-902-8252

lqoldsch@cisco.com

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eriko@tech-dream.com

Membership:

Eriko Yamato

eriko@tech-dream.com

Nominating:

Hans Mellberg
408-507-9694

hans.mellberg@ieee.org

Webmaster:

Min Hua

minhua@ieee.org

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: Simplification Process of a Complex System into a Useful Numerical Model

Speaker: Federico Pio Centola, Apple Inc.

Abstract:

EMC simulations are not usually used to predict emissions but to quantify the relative difference between different design options. If the simulated result variation between different designs is less than the result uncertainties then the simulations cannot be trusted. As a result, it is very important to estimate (or at least have an idea) of the result uncertainties.

The amount and type of geometry simplifications, the numerical technique used and the implicit assumption used by the simulation tool utilized will all affect the uncertainties of the results. This presentation will use a realistic model to discuss the simplification process and how it affects the accuracy of the results.

Speaker Bio:



Federico Pio Centola received his Laurea degree in electrical engineering from the University of L'Aquila, Italy and the M.S. degree in electrical engineering in 2003 from the Missouri Science and Technology University (formerly known as University of Missouri Rolla).

His research interests included electrostatic discharge, shielding and numerical simulations. From 2003 to 2008, he has worked for Flomerics Inc. as a Senior Application Engineer. Since 2008 he has been an EMC Technologist for Apple Inc.

He has authored or co-authored a number of papers in computational electromagnetics, mostly applied to ESD and EMC problems.

Refreshments:

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

Upcoming Events:

IEEE SCV-EMC 2011 Mini-Symposium

Date: May 19, 2011

Venue: Biltmore Hotel, Santa Clara

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

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

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

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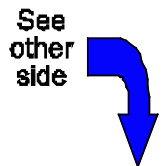
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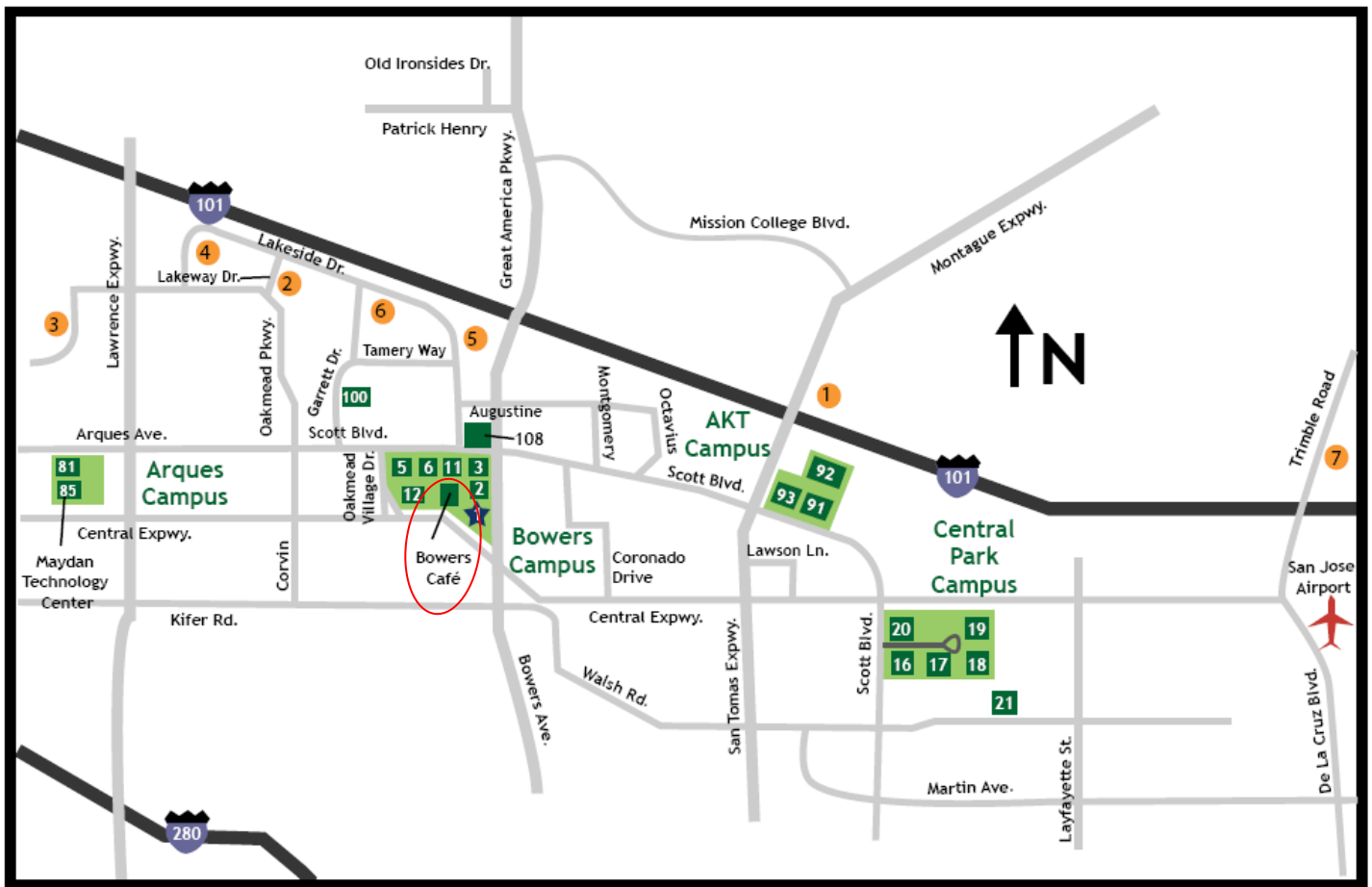
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Map: Applied Materials Bowers Café, 3090 Bowers Ave., Santa Clara, CA 95051



- ★ Applied Materials Training Center
- Applied Materials Location
- Hotel Location