

THE LOG PERIODIC

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

IEEE/EMC Society Meeting: Tuesday, May 12, 2009

Officers:

Chairman:

Oscar Fallah
408-525-5068
afallah@cisco.com

Vice Chair:

Ken Renda
408-742-7042
ken.w.renda@lmco.com

Treasurer:

Caroline Chan
408-742-8050
Caroline.Chan@lmco.com

Secretary:

Len Goldschmidt
408-902-8252
lqoldsch@cisco.com

Committees:

Activities:

Len Goldschmidt
408-902-8252
lqoldsch@cisco.com

Institutions:

Jerry Ramie
408-263-6486
jramie@arctechnical.com

Membership:

Peter Krebill
pete.krebill@broadcom.com

Nominating:

Hans Mellberg
408-507-9694
hans.mellberg@ieee.org

Webmaster:

Len Goldschmidt
lqoldsch@cisco.com

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: Green Power & The Modern Grid

Speaker: Jerry Ramie, ARC Technical Resources, Inc.

Abstract:



The existing power grid is aging, overloaded, unstable and incapable of meeting the power quality needs of an Information Economy. This fast-moving overview of the modern grid, and renewable energy's place in it, details the problems of the existing grid and the features of a modern grid architecture that can address these shortcomings. The various: "roadmaps," proposed to achieve this vision are presented.



The Federal Government's recently proposed economic stimulus package contains about \$60 Billion for smart grid and green power investments in the next two years. With this much consensus for moving forward, the various choices in media to support the Advanced Metering Initiative are discussed, along with their relative strengths and weaknesses.



Two major threats to the energy infrastructure are openly presented, physical and cyber security. The third major threat that is just emerging is the "reliability" threat of improper EMC methods and testing in substations and generation plant. This threat and its remedies will also be explored. Remaining challenges will be identified and conclusions drawn.

Speaker Bio:



Jerry is a 26 year veteran of the EMC, communications and power industries and has authored six books on substation EMC for the Electric Power Research Institute. (EPRI) He has published articles on grid modernization and sits on the EMC Committee of the American Radio Relay League, (ARRL) on the Board of Directors of the Santa Clara Valley EMC Society, is a voting member of the IEEE-P1775 committee on EMC in BPL installations, a member of the IEEE Standards Association, an iNARTE-certified EMC technician, Secretary of the ANSI Accredited Standards Committee C63R on EMC and a Senior Member of the IEEE. He can be reached at jramie@arctechnical.com.

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

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

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

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



The Institute of Electrical and Electronics Engineers
 Electromagnetic Compatibility (EMC) Society
 Santa Clara Valley Chapter
2008 CORPORATE SPONSORSHIP
Press Kit

**Serving the Local Technical Community
 with the Best Value in Corporate Sponsorship**

PLATINUM LEVEL (\$1,200 TAX DEDUCTIBLE CONTRIBUTION)

- Recognized on Internet Web Site and linked to your company homepage
- Advertisement in the chapter newsletter "Log Periodic"
- Company Logo¹ placed on Platinum Banner for Monthly Meetings
- Recognition as chapter sponsor at EMC Colloquium/Exhibition⁴

GOLD LEVEL (\$600 TAX DEDUCTIBLE CONTRIBUTION)

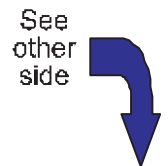
- Recognized on Internet Website² and linked to your company homepage
- Advertisement in the chapter newsletter "Log Periodic"
- Company Logo¹ co-placed on Gold Banner for Monthly Meetings
- Recognition as chapter sponsor at EMC Colloquium/Exhibition⁴

SILVER LEVEL (\$300 TAX DEDUCTIBLE CONTRIBUTION)

- Recognized on Internet Website³ and linked to your company homepage
- Advertisement in the chapter newsletter "Log Periodic"
- Company Logo¹ co-placed on Silver Banner for Monthly Meetings

Notes:

1. PLEASE PROVIDE LOGO IN .jpg AND CORPORATE POLICY ON COLOR, SIZING, ETC.
2. RECOGNITION LOGO APPEARS ONE-HALF THE PLATINUM LEVEL LOGO SIZE ON WEB PAGE
3. RECOGNITION LOGO APPEARS ONE-FOURTH THE PLATINUM LEVEL LOGO SIZE ON WEB PAGE
4. COLLOQUIUM/EXHIBITION MAY OR MAY NOT BE HELD DURING A ONE-YEAR TERM OF SPONSORSHIP
5. THIS SPONSORSHIP IS INTENDED ONLY FOR FINANCIAL SUPPORT OF THE SANTA CLARA VALLEY IEEE/EMC CHAPTER.



NEITHER THE SANTA CLARA VALLEY CHAPTER OF THE IEEE/EMC SOCIETY, THE IEEE/EMC SOCIETY, THE SANTA CLARA VALLEY IEEE SECTION, NOR THE IEEE SHALL BE HELD LIABLE FOR ANY CLAIMS RESULTING FROM THIS SPONSORSHIP.

***** **Order Form** *****

> **PLATINUM LEVEL (\$1,200)** 4.5"H x 7"W advertisement and website logo

> **GOLD LEVEL (\$600)** 4.5"H x 3.5"W advertisement and website logo

> **SILVER LEVEL (\$300)** 2.25"H x 3.5"W advertisement and website logo

E-mail 300dpi artwork and web-compatible JPG logo for the site to info@arctechnical.com (Invoice to follow)

COMPANY NAME:

COMPANY ADDRESS

CONTACT NAME

CONTACT TELEPHONE

CONTACT E-MAIL ADDRESS

Platinum-level Advertising Here

(1/2 page)
4.5"H x 7"W

"Institutional" Listings Rules for all levels:

No product names
No product claims
No model numbers
No promotions, shows or events

Tell us who you are, what you provide and what needs you address



ifi Instruments For Industry

Amplifiers For Every Application!

903 South Second Street • Ronkonkoma, NY 11779
631-467-8400 • www.ifi.com

Global EMC Testing Services

- MIL-STD & DO-160, 200 V/m for RS
- In-Situ Testing and TCF Preparation
- Transmitter Testing and Certification
- Automotive EMC Testing for eMark



Robert Tozier
(510) 249-1170
robert.tozier@ckc.com
www.ckc.com

HAEFELY ^{EMC} TECHNOLOGY

Telco Surge:

All waveforms
Bellcore GR-1089
FCC Part 68 / ETSI
ANSI / UL tests

CE Mark Equipment:

ESD, EFT, Surge testers
Conducted Immunity
Magnetic Fields, Dips, Sags
Damped Oscillatory testers

(408) 263-6486

info@arctechanical.com

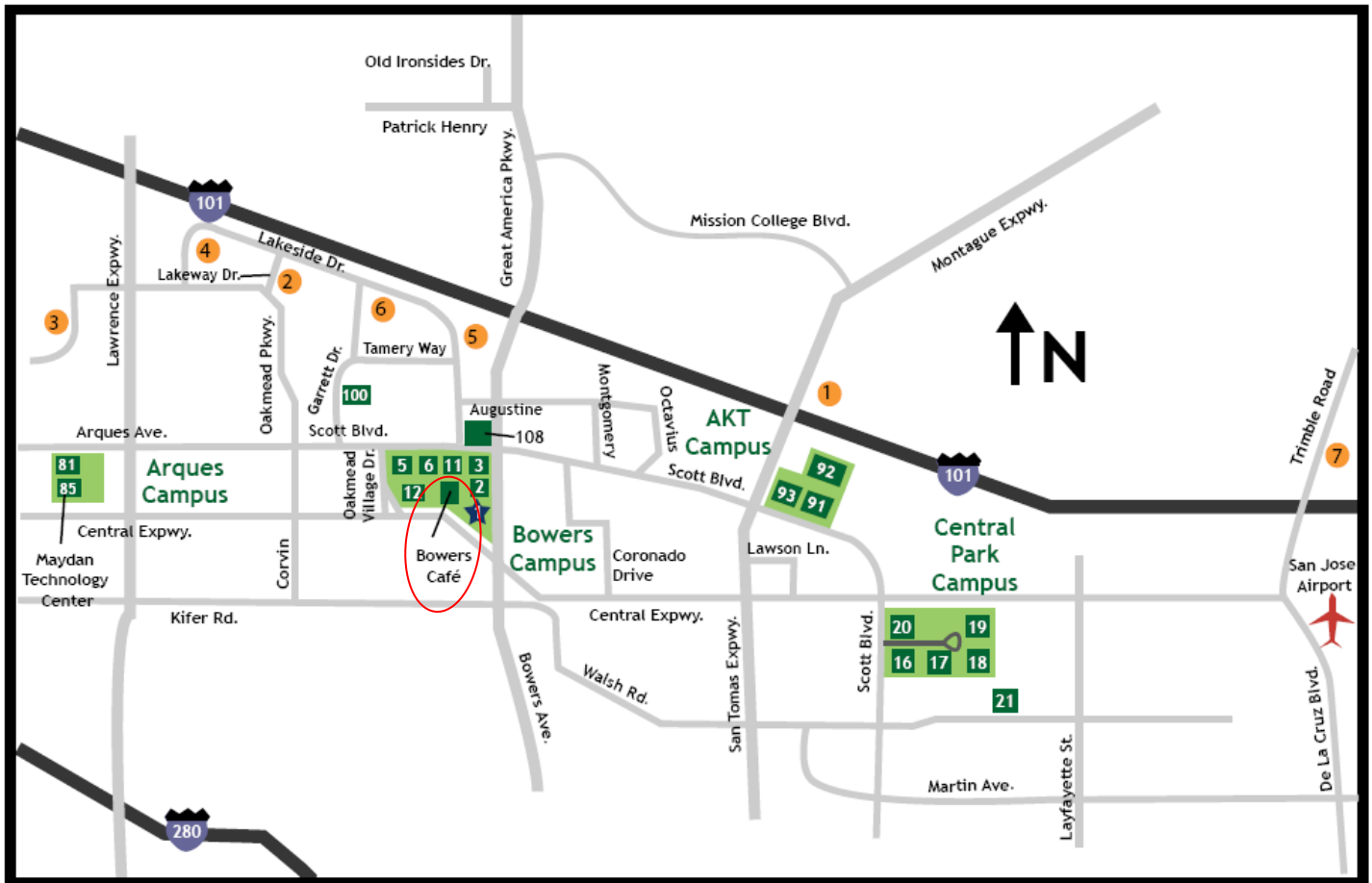
www.haefelyemc.com

Much More Than CE Mark Testing

19620 Hale Ave
Morgan Hill, CA 93037



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



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