

# THE LOG PERIODIC

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

## IEEE/EMC Society Meeting: Tuesday, October 12, 2010

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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: Spacecraft and Surface Charging

Speaker: Dr. Richard Briët, The Aerospace Corporation

### Abstract:

Dr. Briët will talk about Spacecraft and Surface charging with emphasis on *practical applications* of the current State of the Art of Spacecraft Charging Mitigation.

For tonight's Blue Light Specials, Dr. Briët will briefly discuss new developments in the use of Surface Charging as an enabling process to detect Subsurface Defects, and to use Reverse Engineering of Current Transients from electrostatic discharges as a means to locate the initiation points of ESD on solar panels.

### Speaker Bio:



Dr. Briët earned his doctorate degree in Solid State Physics (Nuclear Magnetic Resonance and Plasma Physics) and Mathematics at the University of Utah in Salt Lake City, UT. After an exciting and challenging career in Survivability, Vulnerability, and Endurability at Boeing, Military Aircraft Company in Wichita, KS, General Dynamics, Convair Division in San Diego, CA, and TRW, Redondo Beach, CA, Dr. Briët joined The Aerospace Corporation, an FFRDC (Federally Funded Research and Development Center) in El Segundo, CA, where he was assigned additional responsibilities in support of many Commercial and Non-Commercial Space Programs. Through his many publications and presentations at National and International Conferences in the US of A, France, Germany, The Netherlands, the United Kingdom, Taiwan, and Japan, Dr. Briët has become a widely recognized expert in Plasma Physics, Electromagnetic Effects, Lightning, and Space Radiation Effects.

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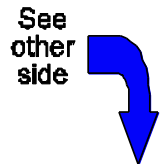
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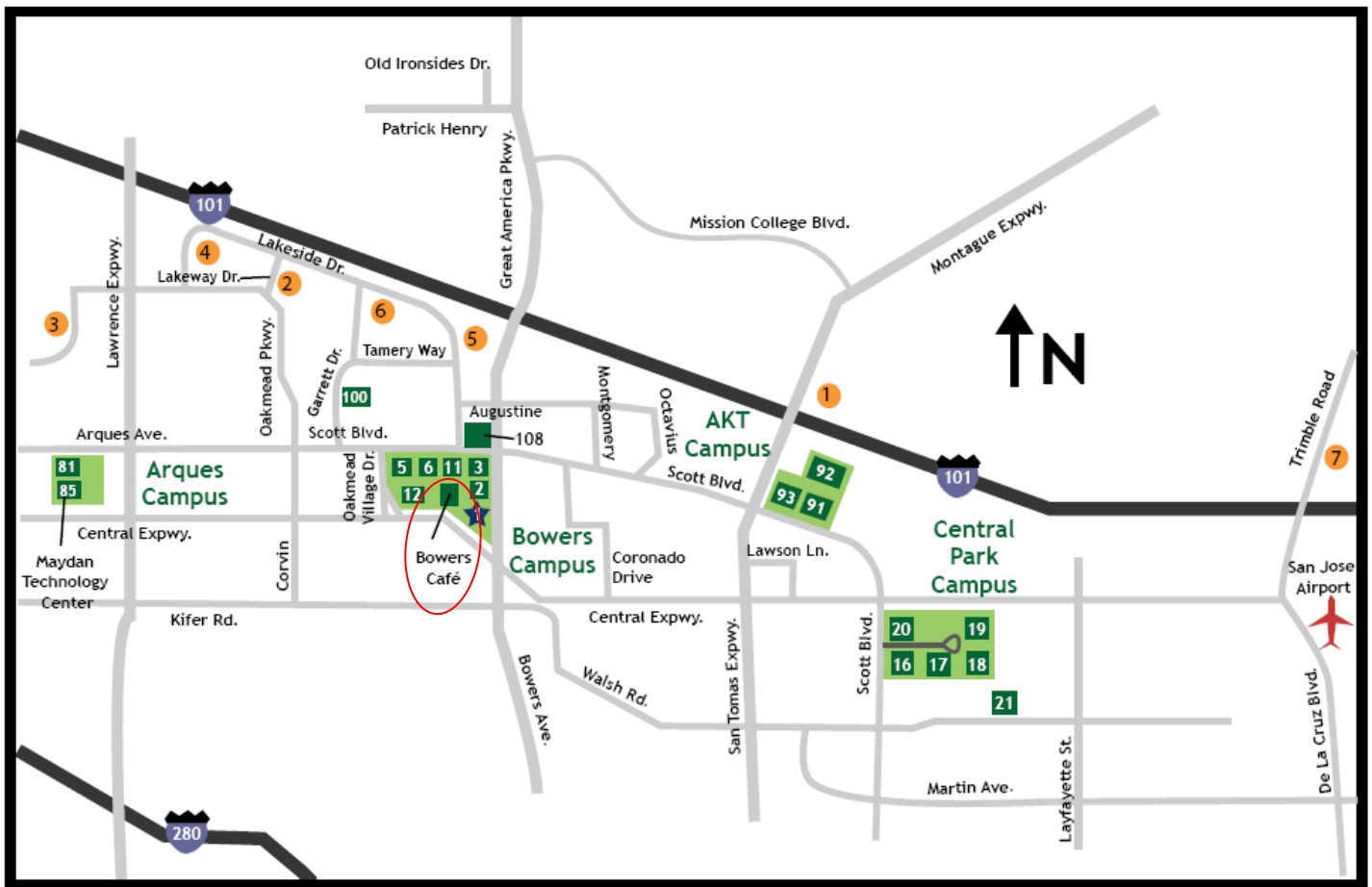
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Map: Applied Materials Bowers Café, 3090 Bowers Ave., Santa Clara, CA 95051



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