

THE LOG PERIODIC

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

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

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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: 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@arctechical.com.

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

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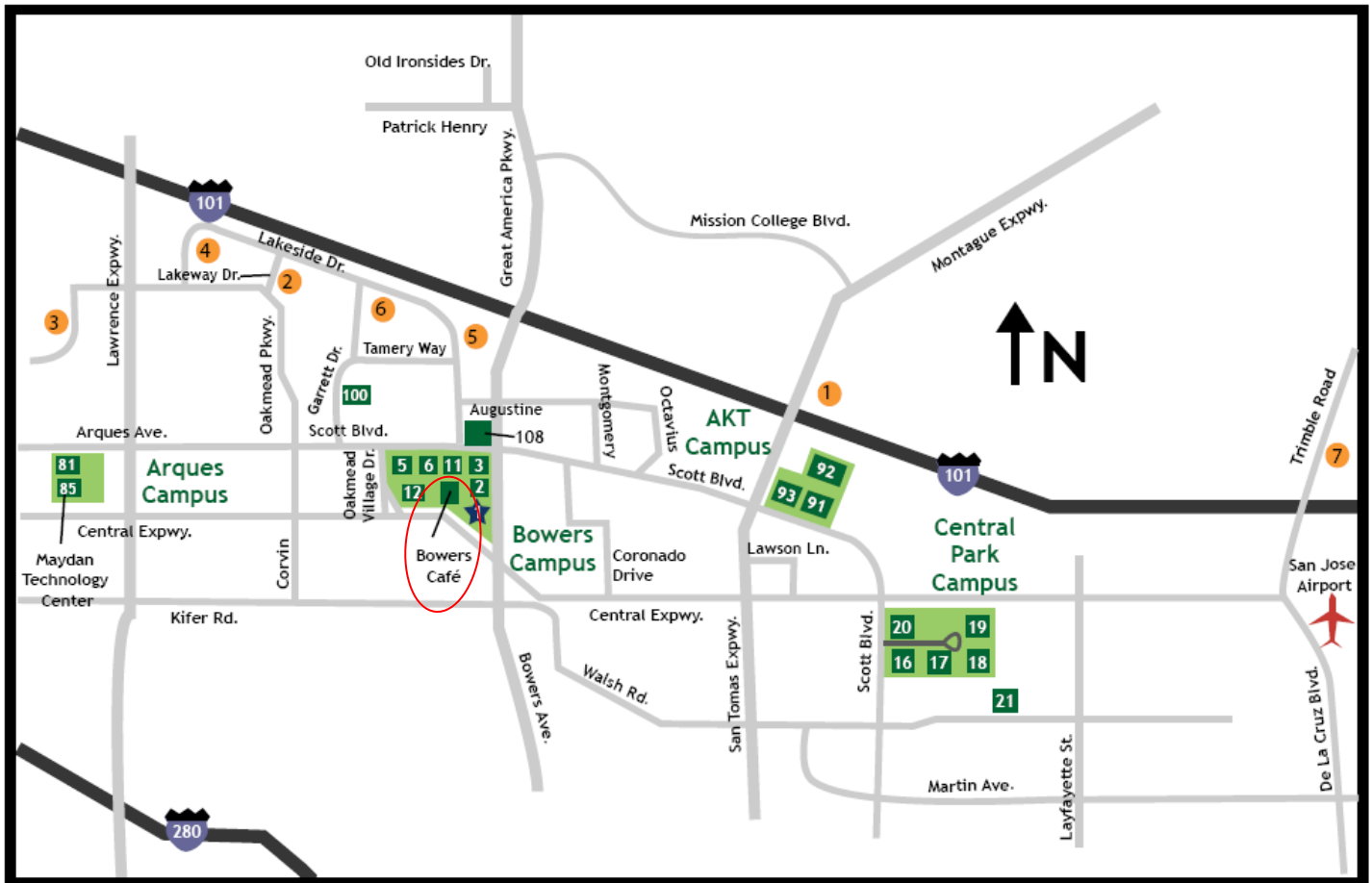
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