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**BRING A COLLEAGUE**

**BULLETIN BOARD**

Every Second Tuesday of the Month: IEEE SCV EMC Society Meeting; Hans Mellberg 408-391-9694  
Every Third Tuesday of the Month: EOS/ESD Society Meeting; Dr. Leo G. Henry 510-249-6318  
Every Fourth Tuesday of the Month: Product Safety Society Meeting; Mark Montrose 408-247-5715

**Our chapter's web site is at [www.scvemc.org](http://www.scvemc.org).**

If you wish to subscribe to the EMC-Product Safety e-mail list, you can do so by sending a mail to "majordomo@majordomo.ieee.org", with the text "**subscribe emc-pstc**" in the body of the message. This Forum is operated by the Product Safety Technical Committee of the IEEE EMC Society, and was founded to discuss product safety, EMC, and other product regulatory issues.

And for those who have interest in Signal Integrity, here is how you can subscribe to the Signal Integrity List, an email list that discusses topics related to this important aspect of hardware design. To subscribe to the si-list, send the text "**subscribe si-list**" in the body (not the subject line) of an email message to "majordomo@silab.eng.sun.com".

Some interesting information about IC high-speed design can be found at [www.chipcenter.com](http://www.chipcenter.com).

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Santa Clara EMC Society provides for a limited scholarship to a qualified student majoring in EMC related studies at SF State University. A selection committee will determine eligibility. For details, please contact Zorica Pantic-Tanner at SFSU (415-338-7739 or [zpt@sfsu.edu](mailto:zpt@sfsu.edu)).

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If you have received a paper-copy of this newsletter, that is because we do not have your e-mail address, or because you requested to continue receiving the paper-copy. We would appreciate if you could send us your e-mail address, so that we can further reduce the paper-distribution list. You can easily update your contact info at [www.ieee.org/membership/coa.html](http://www.ieee.org/membership/coa.html). In order to keep it current, please send a copy of the contact information to [npischl@cisco.com](mailto:npischl@cisco.com).

Dated Material - Meeting Notice  
Address Service Requested  
**Spectral Lines**

IEEE SCV EMC Society  
c/o N. Pischl  
P.O.Box 4570  
Mountain View, CA 94040-5070



# Spectral Lines



[www.scvemc.org](http://www.scvemc.org) Santa Clara Valley Chapter of IEEE Electromagnetic Compatibility Society

December 2000 issue

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## SCV EMC Society Meeting "EQUIPOTENTIALITY AND GROUNDING" Derivation of grounding resistance for equipment Tuesday, December 12, 2000

The December meeting of the Santa Clara Valley EMC Society will be held **AGAIN AT SGI in Mountain View**, 1600 Amphitheatre Pkwy., building 40, in the Presentation Center above the lobby. Please note that the **MEETING WILL START AT 7:00PM**. Food will be served. A map with the location of the SGI campus is available in this newsletter.

The speaker at the December meeting will be Richard Nute, who will give us a presentation on equipotentiality and grounding.

Throughout the design process, engineers must consider how electrical safety will be impacted by EMC mitigation, product performance, and grounding practices. This talk will show how equipotentiality provides protection against electric shock, and is also a specific application of the concept of equipotentiality.

For the TN power distribution system, the grounding resistance of equipment is critical to providing protection against electric shock. The maximum equipment grounding resistance is calculated as a function of system voltage drop, and for various fault currents.

Richard Nute has been in the field of product safety since 1973. Prior to that, he was a manufacturing engineer, R&D engineer, and engineering manager.

He received his Bachelor of Physics degree from California State Polytechnic University, San Luis Obispo. He has participated on national and international standards committees and contributed to those standards. He is currently a member of ECMA TC-12, working on the generic safety standard.

Richard is author of "Technically Speaking," a regular column of the Product Safety Newsletter. Some of these articles have been re-published in national and international magazines. He is author of "Dynamic Aspects of Body Impedance," appearing in Electrical Shock Safety Criteria, Proceedings of the First International Symposium on Electrical Shock Safety Criteria, edited by J.E. Bridges, Pergamon Press. He is co-author and teacher of "Hazard Based Safety Engineering," a Hewlett-Packard Company proprietary course in product safety.

Anyone interested in presenting an outline of EMC-related topics should contact Tom Cokenias (trephonc@macconnect.com) at 650-726-1263.

For more information about the newsletter and its distribution, please contact the editor Neven Pischl (npischl@cisco.com) at 408-527-7874.

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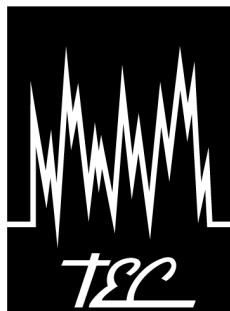
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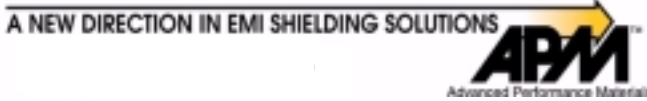
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