



Joint Technical Meeting

Thursday November 12, 2009 at 6:30 pm

Speaker:

Mr. Elya B. Joffe, IEEE EMC Society President

“Who’s Afraid of Maxwell’s Equations? A Practical Approach”

Meal Sponsors:

**IEEE EMC Society & Huntsville IEEE EMC Society Chapter
*“Italian Buffet”***

Meeting Location:

ADTRAN Inc. East Tower Conference Center Room 273

The Huntsville chapters of the IEEE Electromagnetic Compatibility (EMC) Society and the Aerospace & Electronic Systems (AESS) Society invite you to attend a technical meeting on November 12, 2009. The program will begin at 6:30 pm with the National and Local Chapters of the EMC Society cosponsoring a free catered meal. Mr. Joffe’s presentation will begin at approximately 7pm after some short chapter status updates.

Synopsis:

Electromagnetics theory is surrounded by mystery and magic, mostly because the mathematics required for solving Maxwell’s equations are messy enough that most of us avoid them at all costs! Never mind solving them, few of us even have a clear perception of what they actually say... EMC is even worse, often considered black magic! This presentation is intended to demystify the very basics of electromagnetic theory - Maxwell's Equations. The presentation will provide explanations in everyday terms, and without the need for mathematics the meaning and implication of Maxwell's equations for the practicing engineer. Some of the basic symbols used in mathematics, such as integration, derivatives, and bizarre vector symbols and their implications are explained. Through these simple explanations, Maxwell’s equations will then "see the light". An example related to the flow of return currents in circuits will be used to illustrate the principles described previously.

The meeting will be held at **ADTRAN in the East Tower Conference Center Room 273**. The directions are included on page 2 (follow the **BLUE** line on the map).

The meal and presentations are open to anyone interested in EMC: IEEE membership is not required to attend.

The EMC Society and local chapter are sponsoring the free catered meal. **Seating is limited to the first 150 who reply, so you must RSVP to Paul Stover** at paul.stover@adtran.com as soon as you can, but no later than close of business **November 10, 2009** if you want to attend. You will receive a confirmation email from Paul.

IMPORTANT – Please note the time change from our normal meeting schedule. This starts one hour later.

I hope to see you there!

Doug Parker, NCE
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IEEE EMCS website: <http://www.ewh.ieee.org/soc/emcs/>

Do not park in the visitor parking lot or try to use the main entrance to the East Tower. You must following the blue line on this map and go around to the back entrance of the East Tower which takes you straight into the Conference Center.

