

November 2007

Rock River Valley Section

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Event

Sense

The Institute of Electrical and Electronic Engineers, Inc.

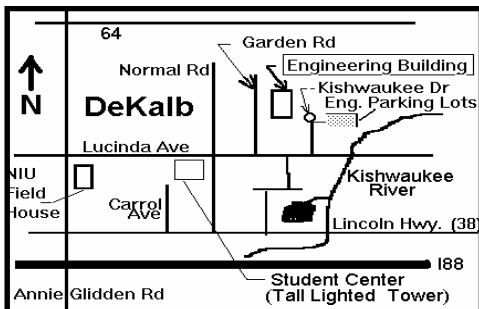
RRVS Section and EMC Chapter Meeting

EMI and its Implications in Multi-Radio Integration

When Thursday November 15, 2007

Where

Northern Illinois University, DeKalb, IL; Engineering Building, Auditorium room 354. Please call Don Zinger at 753-0540 if you need



directions from outside DeKalb. From Annie Glidden and Lucinda, take Lucinda east to Kishwaukee Dr. (0.5 mi). Turn left (north) on Kishwaukee Dr. to parking lot at end of street (0.25 mi). The engineering building is across Kishwaukee Dr. to the north-west (large steel and glass building). Parking passes are required and will be handed out at the registration table in the Engineering building when you arrive.

Agenda

- 6:00 PM Social
- 6:30 PM Dinner
- 7:30 PM Presentation

Program

Today wireless communications is a must have in mobile computing. Notebook computers and WiFi are now synonymous. The latest electronic gadgets promise communications on the go with WiFi, Bluetooth, EDGE,

GSM, GPS. Even Apple's latest iPod devices have WiFi. As more and more radios are integrated into systems, there is a significant risk of platform generated interference (platform noise) directly impacting wireless performance or even impeding functionality. The greatest challenge of designing these devices truly is Electromagnetic Compatibility. This talk discusses the risks of platform generated interference; the specific nature of compute generated noise sources and challenges the audience that these converged devices will require "platform" approaches to the design of these systems. With wireless sensitivity requirements orders of magnitude more difficult than EMI regulations, a proactive approach is no longer just a nice to have. Traditional shielding approaches will not suffice in this space and without upfront analysis and proper frequency planning the designer risks EMC failures in the truest sense – non functionality of wireless in these Mobile Internet Devices (MIDs).

Speaker

Harry Skinner is a Principal Engineer in Intel Corporation's Corporate Technology Group. Since joining Intel in 1996, Harry has held a variety of positions, all dealing with Electromagnetic Compatibility (EMC). For the vast majority of his tenure Harry has directed Intel's EMC/EMI Research and



Development while driving industry EMC guideline development for initiatives such as PCI Express* and SATA. Before coming to Intel, Harry spent six years with IBM. He was also chair of the 2006 EMC and Wireless Devices workshop IEEE-EMC Symposium. He has been awarded eight patents, has multiple patents pending, and has published numerous papers at IEEE symposia and other technical forums. Harry received a first-class honors Bachelor of Engineering (B.Eng) degree in electronics and electrical engineering from the University of Glasgow, Scotland.

Meal Reservations

Dinner will feature a beef, pork, chicken and vegetable Chinese buffet. Please make your **dinner reservations by calling Tricia at 815-753-9974 or sending an email (fisher@ceet.niu.edu) by Wednesday, November 14, at noon.** Please include the following information: your name, phone number, email address, and IEEE member number. Dinner is \$5 for members, \$2 for student members, \$10 for non-members and \$3 for non-member students. Unemployed members may call one of the officers for special arrangements.

Note

The meeting is open to the general public. You need not be an IEEE member. Guests are welcome. Please call Tricia at 815-753-9974 for questions.