

THE BEEET



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Tucson Meeting Sponsored by Student Branch of Microwave Theory and Techniques: High speed interconnect modeling, measurement, and correlation

Speaker: Xiaoning Ye
Principal Engineer
Datacenter Group of Intel
Corporation

LOCATION: University of Arizona,
Room ECE 530

DATE: Monday, April 28, 2014, 6:00 pm

Refreshments Provided (pizza and soft drinks)

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ABSTRACT

High speed links are running at micro-wave frequencies and high quality models are essential to the IO design. In this presentation, the author will discuss modeling challenges and provide simulation guidelines in building accurate electrical models of link components such as PCB, package, connector, etc. In-depth analysis of the PCB technology will be provided to reveal why traditional PCB modeling methodology is running out of steam at multi-GHz frequencies. The presentation will also address another critical aspect of high speed interconnect design: the simulation and measurement correlation. Practical examples using TDR/VNA to perform simulation/measurement correlation will be given in the presentation.

BIOGRAPHY

Xiaoning Ye received the Bachelor's and Master's degrees from Tsinghua University, Beijing, China, in 1995 and 1997, respectively, and the Ph.D. degree from the University of Missouri-Rolla (currently Missouri University of Science and Technology) in 2000. Dr. Ye is currently a principal engineer in Datacenter Group of Intel Corporation, where his role includes ensuring signal integrity of high-speed signaling in server platforms, providing platform design guidelines, and research and development of next generation multi-Gb/s bus interfaces. He was also engaged in research and development of electromagnetic compatibility solutions for enterprise platforms. Dr. Ye published over 50 IEEE journal and conference papers, holds five patents and five patent applications in the areas of high-speed signaling. He is currently an IEEE senior member, and serves as Chair of TC-10 (Signal Integrity technical Committee) of the IEEE EMC Society. He is also the technical program committee co-chair of 2014 IEEE International conference on Signal and Power Integrity.

Message to the Tucson Section

By Joseph Wu

I'd like to invite everyone in the Tucson Section to participate in IEEE. In the last year, we've conducted activities for schools, the University of Arizona, and for you, the membership. These activities are a great way to get involved in IEEE and show the impact of engineers in our community.

We have a great core of volunteers but we could always use your help. I'm asking people to get involved. With more people the Tucson Section could do so much more for the membership and this community.

If you're interested in helping out or becoming an officer, contact us through the following website:

<http://ewh.ieee.org/r6/tucson/>

Become an IEEE Senior Member!

Do you want to become a senior member of the IEEE? The IEEE wants to promote qualified candidates to senior membership! If you have 10 years of professional experience of which five years of significant professional performance, you are qualified for a senior member upgrade. Educational experience such as a bachelor's degree in an IEEE-designated field counts 4 years to that number, a master's degree counts 5 years and a doctorate counts 6 years. In order to find out more, point your web browser to www.ieee.org and search for senior membership!

Senior Membership:

<http://www.ieee.org/web/membership/senior-members/>

Applications can be found online. You will need the references of three current senior members or fellows. If you need assistance, contact Joseph Wu at joewu@ieee.org.

Save the date....

The next meeting is not yet planned

We'll be on a bit of a break until after the summer. Until then, keep up to date through the website and make sure you're on the mailing list.

U of A Student Branches

In the Tucson Section, there are active student branches. The Student Branch Chapter of the MTT frequently brings in speakers from the distinguished lecturer series.

The U of A main student branch is also active. They have been running an open lab space in the ECE department. They have been running their own meetings and occasionally have game nights.

If you're interested in finding out what they do, or want to help out with a donation go to:

<http://uaieeee.com>

Keep Up with the Tucson Section: Join our email list!

The Tucson Section email list delivers the latest IEEE Tucson news right to your email box. To join, simply send an email to

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Put the following in the body of the message:

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Other News

Upcoming Conferences

2014 IEEE International Workshop Technical Committee on Communications Quality and Reliability

18 May - 23 May 2014

Westward Look Wyndham

Tucson, AZ

www.ieee-cqr.org

2014 IEEE International Symposium on Parallel & Distributed Processing Symposium (IPDPS)

19 May - 23 May 2014

Arizona Grand Resort

Phoenix, AZ

www.ipdps.org

2014 36th Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD)

Sept 7-12, 2014

Westin La Paloma

Tucson, AZ

www.esda.org

2014 39th International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz)

Sept 14-19 2014

University of Arizona

Tucson, AZ, USA

www.irmmw-thz.org

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Other membership issues including subscriptions

member-services@ieee.org

General IEEE Information

1-800-678-IEEE(4333)

We need to hear from you!

How can we make IEEE a better organization? We can only do it with your help. As a volunteer organization, IEEE depends on your participation to accomplish all of our goals.

As you can see from this newsletter, there are lots of activities where you can actively contribute. Are you good at organization? Volunteer to head one of our Chapters or to help organize our general meetings. Want to show off or improve your internet skills? Volunteer to help with our Web site. Interested in promoting our field to the next generation of engineers? Help with Engineers Week, or as a judge for any of our student competitions.

Even if you only have a little bit of time, there's sure to be an IEEE opportunity that will interest you. Even if you have no free time at all, but have ideas for meetings or activities that promote engineering and the IEEE, let us know! We'd like to hear from you. Please contact Joseph Wu at joewu@ieee.org.

We're on the Web!

Visit us at:

<http://ewh.ieee.org/r6/tucson>