THE BEET



Bulletin of the IEEE Tucson Section

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Tucson Meeting Sponsored by Student Branch of Microwave Theory and Techniques and the Tucson Joint Chapter of MTT, AP, EMC, and COM: Electrical Design for High-End Computer Systems

Speaker: Dale Becker, Ph.D. IBM, Poughkeepsie, NY

LOCATION: University of Arizona,

Room ECE 530

DATE: Monday, April 14, 2014, 6:00 pm Refreshments Provided (pizza and soft drinks)

ABSTRACT

The electrical design of computer systems includes signal integrity, power integrity, electromagnetic emissions and susceptibility and ESD. Practicing engineers in system design and development typically are skilled more deeply in one of these areas than the others. However, these are not independent disciplines and today's dense packaging and high-speed signals require more crossdiscipline skills that we call co-design and co-analysis. This presentation comes from the perspective of an engineer most deeply skilled in the power integrity discipline and explores the building of cross-discipline skills focusing on the application of electromagnetic extraction and circuit simulation tools to electrical modeling that enables co-design robust for system development.

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BIOGRAPHY

Dale Becker received the B.E.E degree from the University of Minnesota, M.S.E.E. from Syracuse University and the Ph.D. from the University of Illinois at Urbana Champaign. He is a Distinguished Engineer in IBM Systems and Technology Group and a member of the IBM Academy of Technology. He is the System Electrical Architect for the IBM POWER and System Z Enterprise Systems. His responsibilities include designing the high-speed channels to enable the computer system performance and the power distribution networks for reliable operation of the integrated circuits that make up the processor subsystem. Dr. Becker is the Chair of the IEEE EPEPS 2014 Conference and cochair of the IEEE EMCS embedded conference on SIPI TPC. He has 25 patents on electrical design of computer systems and has presented 75 papers in refereed journals and international conferences covering many aspects of electrical computer system design including distribution analysis and design and modeling of signal and power distribution networks. He is a senior member of IEEE, a iNEMI Technical Committee member and a member of IMAPS and SWE.

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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 IEEEdesignated 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/member ship/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.

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Save the date....

The next meeting is coming soon!

"High speed interconnect modeling, measurement, and correlation"

Xiaoning Ye Principal Engineer Datacenter Group of Intel Corporation

Date: April 28, 2014, 6PM Time: ECE 530, U of A

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://uaieee.com

http://www2.engr.arizona.edu/~mtt/

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

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listserv@listserv.ieee.org

Put the following in the body of the message:

subscribe TUCSON-SECTION-ALL yourfirstname yourlastname

You'll receive an email with instructions for confirming your new subscription.

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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We're on the Web!
Visit us at:
http://ewh.ieee.org/r6/tucson

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.