

THE BEEET



Bulletin of the IEEE Tucson Section

December 2008
Volume 8, Issue 2

General Meeting Announcement:

Robots or Dinosaurs: Who would win?

SPEAKER: Steven Huettner, Microwaves101.com

DATE: Tuesday, December 16th, 2008 6:30 pm

LOCATION: Presidio Room, Student Union
University of Arizona
1303 E. University Boulevard

Refreshments Provided (pizza and soft drinks)

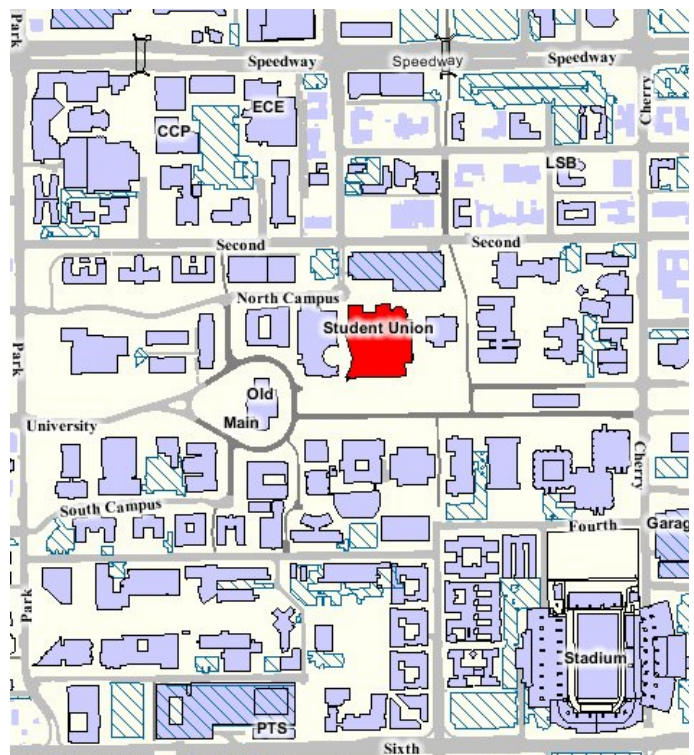
An IEEE paper published in 1965 by Parad and Moynihan has served the engineering community as the main reference on unequal-split Wilkinsons for later published works including textbooks. Steve recently took a fresh look at this problem and found an important degree of freedom that was set aside by assumptions formed in that paper. In the first part of the presentation, Steve will review unequal-Wilkinson splitter math (nothing more than simple algebra); in the second half of the talk he will show how unequal splitters can be used to create planar N-way splitters, using the maximally-flat impedance transformation to maximize bandwidth. The idea behind this new class of splitter came from Jack Kouzoujian, Chief Engineer and officer of Matrix Test Equipment and frequent contributor to Microwaves101. Between the two parts of the talk, Steve might even have a few words to say about robots and dinosaurs.

BIOGRAPHY

Steve is the creator of Microwaves101.com, a practical web resource covering the fundamental principles of microwave design engineering, mixed with history and questionable humor and priceless advice. He received a MS in Engineering from the University of Massachusetts at Amherst, and a Bachelor of Engineering degree from Stevens Institute. Steve's day job is working for a local Fortune 500 defense contractor.

INSIDE THIS ISSUE

General Meeting Announcement	1
Message from the Section Chair.....	2
Celebrate Engineers Week!	2
We Need to Hear from You!	2
IEEE Conferences in Arizona....	3
Chapter News	3



Closest parking (for a fee) is the Second Street Garage, just north of the Student Union. Closest free parking is the parking lot northeast of Mountain and Speedway.

Message From the Section Chair

By Joe 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, the community, 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.

Before the end of the year, we'll will have new officer elections, starting up a student paper contest at the UofA, starting our preparations for next year's Engineers Week,

and organizing additional meetings. All of this is done on a volunteer basis.

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://www.ieee.org/tucson>

Celebrate Engineers Week February 15 – 21, 2009!

The National Engineers Week Foundation, a formal coalition of more than 100 professional societies, major corporations and government agencies, is dedicated to ensuring a diverse and well-educated future engineering workforce by increasing understanding of and interest in engineering and technology careers among young students and by promoting pre-college literacy in math and science. Engineers Week also raises public understanding and appreciation of engineers' contributions to society. Founded in 1951 by the National Society of Professional Engineers (NSPE), it is among the oldest of America's professional outreach efforts. Co-chairs for 2009 are Intel Corporation and NSPE.

Here in Tucson, we'll be celebrating along with many other engineering organizations with two formal events: Engineers Day at the mall and an awards banquet.

The mall event includes lots of hands-on activities to interest school-age children in engineering. We can always use more volunteers to staff the IEEE booth at the Mall, or to participate in other Engineers Week events here and throughout Arizona.

For more information about IEEE Tucson section participation, contact Brenda Huettner at bphuettner@ieee.org. For more information about Engineers Week in general, see <http://www.eweek.org>.

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 our goals.

As you can see from this newsletter, there are lots of activities where you can contribute. Are you good at organization? Volunteer to head one of our Chapters or 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.

If you only have a little 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. Contact Joseph Wu at joewu@ieee.org or at 325-4781.

Upcoming IEEE Conferences in Arizona

- The 2009 ICME International Conference on Complex Medical Engineering (CME 2009) will be held April 9 - 11, 2009, at the Fiesta Inn Resort in Tempe. It is co-sponsored by the IEEE Engineering in Medicine and Biology Society. For more information, see <http://frontier.eng.kagawa-u.ac.jp/CME2009/>
- 2009 IEEE International Symposium on Technology and Society (ISTAS) will be held May 18 - 20 at the Tempe Mission Palms Hotel. For more information, see http://www.ieeessit.org/conferences_sub.asp?Level2ItemID=12&Level3ItemID=68

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

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.

Chapter News

AP/MTT/Com/EMC

This joint chapter is formed from members of the Antennas and Propagation, Microwave Theory and Techniques, Communications, and Electromagnetic Compatibility Societies. There are approximately 150 members in these societies combined in the Tucson Section.

We're currently looking for a new Chair for this Chapter. If you're interested, contact Joe Wu at joe.wu@ieee.org.

University of Arizona

Student Chapter

The student chapter at the University of Arizona has a motivated team of students, officers and advising faculty that take an avid interest in doing that "little bit extra" to gain an edge.

Every year, they host a full schedule of activities and events, including the popular MicroMouse competition, a student paper competition, and much more.

To find out what's going on with the student chapter, check out their site at:

<http://www.uaieee.org/IEEE/>

Tucson Section, Institute of
Electrical and Electronics Engineers
2626 E Malvern St.
Tucson, AZ 85716

Section Chair:

Joseph Wu (joewu@ieee.org)

Joint AP/MTT/Com/EMC Chapter Chair:

Position available!

Newsletter Editor:

Brenda Huettner (bphuettner@ieee.org)

Computer Society Chapter Chair:

Andrew Gardner (asg@ieee.org)

Student Chapter Chair:

Joey Sankman (jsankman@arizona.edu)

To report address changes:

address-changes@ieee.org

Other record changes (typographical errors)

record-changes@ieee.org

Other membership issues including subscriptions

member-services@ieee.org

General IEEE Information

1-800-678-IEEE(4333)

UPCOMING MEETING:

Robots or Dinosaurs: Who would win?

SPEAKER: Steven Huettner, Microwaves101.com

DATE: Tuesday, December 16th, 2008 6:30 pm

LOCATION: Presidio Room, Student Union
University of Arizona
1303 E. University Boulevard

Closest parking (for a fee) is the Second Street Garage,
just north of the Student Union. Closest free parking is
the parking lot northeast of Mountain and Speedway.

We're on the Web!

Visit us at:

<http://www.ieee.org/tucson>

IEEE Tucson Section
2626 E Malvern St.
Tucson, AZ 85716

PRESORTED
STANDARD
US POSTAGE PAID
TUCSON AZ
PERMIT NO 80