

The Valley Megaphone

Newsletter of the

**Institute of Electrical and
Electronics Engineers, Inc.
Phoenix Section**

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IEEE Phoenix Section Executive Committee meeting minutes can be found at:

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

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U – News

(for Student Members)

I had the opportunity to attend the Annual IEEE ECTC 2009 Event in San Diego, CA last week and was pleased to see several IEEE Phoenix Chapter Executive Committee members. Rao Bonda, from the Component Packaging and Manufacturing Technology (CPMT) Society, was the General Chairman and event was again attended by a high caliber of technical staff from the major corporations around the world.

University students and staff took part in many activities including the Student Reception, along with Student Poster and Student Session Paper Contests with each awarded \$1,000. Now it gets interesting, Motorola Fellowship \$21,000 and CPMT Fellowship \$10,000 were awarded to students from Georgia Institute of Technology and the Intel Best Paper \$2,500 Award went to students at the University of Arizona. Nice work by all of the Students there.

Visit the web site for review of all sessions, papers, awards and the exhibits www.ectc.net

Regards,
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U-Newsbytes

- ✚ Next IEEE Phoenix Section Executive Committee Meeting is being held on June 2nd. Student Reports should be submitted to Nick Leonardi at nleonardi@ieee.org.
- ✚ There are no Executive Committee meetings scheduled for the month of July and August. So, the next round of student reports is due on August 28th.
- ✚ Student Chapter Officers are in the process of filling officer positions being vacated by graduating students. Student Chapter activity will resume for 2009 - 2010 school year and newly elected officers (and returning officers) are to be listed in monthly reports.
- ✚ ASU IEEE Computer Society collaborates with Sun Microsystem's Open Source University Meetup (OSUM) Program. Sign-up Today! (Page 10).



A GOLDen Opportunity to Celebrate IEEE's History

BY JEREMY KENTER

- A Feature Story from the IEEE Publication "The Institute" dated 06 May 2009

It takes only a few seconds and requires just a video camera to participate in the IEEE Region 8 Graduates of the Last Decade group's IEEE 125th anniversary project.

The group's online event, GOLD Around the World, has IEEE members and nonmembers shooting short video clips of themselves passing a printout of the IEEE 125th anniversary mark to each other. The goal is to spread awareness of IEEE in an easy and fun way using the Internet, according to IEEE Member João Figueiras, who came up with the idea for the video project while attending the 2008 IEEE Sections Congress in Quebec City.

"Everyone at the congress was encouraging members to organize events that celebrate IEEE's anniversary, and it just clicked in my mind to literally pass the IEEE 125th anniversary mark from person to person," he says. "I would love to see at least one video from every country in the world."

Figueiras's expectations on the number of videos posted have been surpassed. "I wanted to have enough videos to cover the five-minute music track I am planning to play in the compilation video," he says. "That has already been achieved."

The more people shown in the clip, the better, he says, and filming in front of well-known attractions is encouraged. Videos have been shot in Boston, Istanbul, and London. Landmarks shown include a beach in Qatar; a mountain in Tokyo, and the IEEE Operations Center, in Piscataway, N.J.

To make your own video, download the IEEE anniversary mark from [Gold Around the World](#), print it, and create a video up to 10 seconds long. The service mark should be front and center, and the printout must enter the screen from the left to the right. Approved video formats include AVI and MPEG/MPG.

Submissions must be received by 31 December 2009 using [this form](#). By early next year, GOLD representatives will compile what they deem the most creative contributions, Figueiras says.

The video is just one of many events commemorating IEEE's anniversary. See them all at the [IEEE 125th anniversary Web site](#).



Power & Energy Society Announcements

June through August 2009

Summer Break: No PES Phoenix Chapter Meetings will be held.

September 2009 Technical Meeting

Date: Thursday, September 17, 2009

Location: SPR PERA Club. Map -
<http://ewh.ieee.org/soc/pes/phoenix/images/PERAMAP.pdf>

Speaker: Clark Jones

Topic: Residential Solar Generation from one customer's perspective. See PES website for more information as it becomes available
<http://ewh.ieee.org/soc/pes/phoenix/>

September 2009 52nd Annual IEEE PES Phoenix Chapter Golf Tournament

Date: Saturday, September 26th, 2009

Location: Antelope Hills Golf Club, Prescott

Come join over a hundred other golfers for a great day out on the greens, followed by a banquet dinner with cash and prize giveaways.

For more information, please contact the PES Vice-chair Bruce Ladewig at Ladewig@wapa.gov.



Teacher In-Service Program Support to Phoenix Schools by IEEE Retirees

A team of six volunteers from the "Teacher In-Service Program", affiliated to the IEEE Phoenix Section, has been visiting the Phoenix area schools in their mission of training science teachers in improved ways to science and engineering to school children and instilling a deeper interest in our younger generation in science and engineering.

Bill Carr, John Fitch and Thad Enloe visited Apache Junction (four 5th Grade classes and two 4th Grade classes – each of one hour duration) and Gilbert Elementary (two 4th Grade classes – each of one hour duration) Schools. They introduced and demonstrated concepts such as "Electric Switches", "Flashlights and Batteries" and "Insulators and Conductors" to the children, with hands on experiments with "Basic Electricity Kit".

John Purchase and William Magallanez visited the Sacaton Middle School in the Gila River Indian Community. They gave three lessons on "Working with Watermills" to 7th Graders and three lessons on "All About Electric Motors" to 8th Graders.

These visits and lessons generated tremendous amount of interest among the teachers and students. An 8th Grade girl student from Sacaton Middle School even told her teachers, at the end of one such classes, that she wants to be an engineer when she grows up.

Here are some pictures from these interesting and inspiring visits by these tireless IEEE Phoenix TISP volunteers.



John Fitch assisting a pair of students with the Basic Electricity Kit



Bill Carr providing guidance



John Purchase demonstrating the principles of Electromagnetics



Bill Magallanez lecturing on Potential and Kinetic energy



The girl on the left has already declared that she wants to be an engineer!



Group work on a Design



Putting their Watermill designs to test

The TISP program is an effort sponsored and promoted by the IEEE national office but run at the local chapter level. As a subset of TISP, talented retirees in the IEEE Phoenix section are being organized by John Purchase to help on this noble cause. Any retiree interested in joining this effort should please email John Purchase at: jpurchase@cox.net. Plus any non-retiree interested in helping the Chapter's TISP effort should get in touch with Mike Poggie at: Mike.Poggie@ieee.org.



Celebrating 125 Years
of Engineering the Future

IEEE Mentoring Connection

IEEE is offering its members the opportunity to participate in an online program which will facilitate the matching of IEEE members for the purpose of establishing a mentoring partnership. By volunteering as a mentor, individuals use their career and life experiences to help other IEEE members in their professional development. I believe this program can be a great tool to provide our newest members of our profession guidance in their careers and provide experienced members a chance to hear first hand from the newly graduated about the latest training the next generation is receiving. This is a program for higher level members and is provided to help ease the transition out of school and into a career.

As a mentee, you lead your partnership by selecting your mentoring partner from among those who have volunteered to serve in this capacity. I ask that you review the time and effort commitment to the program to ensure a successful mentoring partnership. Participation in the program is voluntary and open to all IEEE members above the grade of Student Member.

If you are interested, please go to <http://www.ieee.org/mentoring> for information on the roles and responsibilities of each mentoring partner. I encourage you to take advantage of the IEEE network of technical professionals or offer your expertise and sign up for the online mentoring program today.

Who can be an IEEE Mentor?

IEEE higher-grade members (above Student Member grade) who are, but not limited to:

- Willing to give time and effort to the mentoring partnership (we suggest minimum of two hours per month)
- Able to communicate effectively with others
- Willing to share some career successes and failures
- Individuals who may be or have been executives, consultants, or in middle or upper management, or in research
- Individuals who may be or have been educators, entrepreneurs, or self-employed
- Individuals who may be or have been proven leaders offering inspiration and insight
- Individuals who may be or have been IEEE officers or volunteers
- Willing to review an orientation session to learn guidelines, tools of program and the mentee and mentor's role and responsibilities

Who can be an IEEE Mentee?

IEEE higher-grade members (above Student Member grade) who are, but not limited to:

- New professionals in their first or second job, or considering entering graduate programs
- Recent graduates entering the professional workforce for the first time
- Professional making a career move or career change
- Passionate for learning
- Willing to give time and effort to the mentoring partnership (we suggest minimum of two hours per month)
- Willing to identify and clarify their developmental goals
- Interested in learning from another professional "who has been there"
- Willing to participate in mentee orientation session to learn guidelines, and tools of program and their role and responsibilities as a mentee

This program deserves your consideration and doesn't require a large amount of time on your part. It can provide of great assistance to the next generation of engineers.

Russ Kinner
Conferences Chair, Phoenix Section



IEEE Computer Society at ASU Open Source University Meetup

[IEEE Computer Society at Arizona State University](#) has a history of dedication to collaboration and innovation, and is a firm believer in the power of open source software. We are also passionate about helping our students network and succeed. In this spirit, we are proud to announce collaboration with [Sun Microsystems](#) and their [Open Source University Meetup \(OSUM\)](#) program!

Sun Microsystems has rapidly emerged as a leader in the open source community, making a large variety of their platforms open including [OpenOffice](#), [OpenSolaris](#), [OpenJDK](#), and even [OpenSPARC](#). You know a company is serious about open source when it makes its hardware open! In their passion for open source, they have created a community called the Open Source University Meetup which exists as a social networking tool for developers to meet others who are passionate about open source and learn more about Sun technologies. Members of the OSUM community include students from all around the world, Sun staff, and any developer who has a passion for expanding his or her own knowledgebase.

Beyond the obvious networking opportunities, [members of OSUM also get free, well-written and authoritative training](#) on Sun technologies through the [Sun Academic Initiative](#), and *extremely* reduced-cost sun certification exams! This is an amazing deal for those seeking to enhance their skill-set or prove that they have mastered a particular tool, and the best part is it's free and easy!

So what are you waiting for, an invitation? Well, here it is: go to <http://osum.sun.com> to sign up. Need more information? Please contact Nicholas Vaidyanathan at Nicholas.Vaidyanathan@asu.edu.

Phoenix Section Executive Committee Meeting – First Tuesday of the month.

June '09 Meeting:

No Meetings in July and August

Date: June 2, 2009, Tuesday

Time: 6:00 pm to 8:00 pm

Place: Phoenix Airport Hilton, 2435 S 47th St, Phoenix, AZ, 85034 Tel.: 480-804-6017

Directions: From the Hohokam Expressway (AZ 143), exit University Ave, go West and turn right on 47th Place.

More Info: Meetings are held on the first Tuesday of the month. All interested IEEE members are welcome to attend.

Contact: Debendra Mallik, Phoenix Section Chairman, dmallik@ieee.org

IEEE Phoenix - Calendar of Events for June 2009:

You may access the IEEE Phoenix Section Calendar of Events at
<http://www.mynetcalendar.com/calendar.php?month=6&year=2009&calendarid=2400>

For inputs and updates to the Calendar, please contact the IEEE Phoenix Section Conferences Chair, Russ Kinner at 602-997-2353 or e-mail: r.kinner@ieee.org