The Valley Megaphone



Newsletter of the

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

August 2009, Volume XXIII, Number 8

Executive Committee

Past Chair

Keith Holbert, 480-965-8594 holbert@asu.edu

Chair

Debendra Mallik, 480-554-5328 dmallik@ieee.org

Vice Chair

Henning Braunisch, 480-552-0844 braunisch@ieee.org

Secretary

Jim Hudson jim.hudson@srpnet.com

Treasurer

Ralph Hogan, 480-774-8227 rhogan@ieee.org

Publicity Sam Karikalan, 480-753-2267 samk@broadcom.com

PACE

Mike Andrews, 480-991-1619 m.andrews@ieee.org

Membership

Victor Prokofiev victor.prokofiev@intel.com

Student Activities

Nick Leonardi, 480-736-1970 x 23 nleonardi@ieee.org

Conferences

Russ Kinner, 602-997-2353 r.kinner@ieee.org

Awards Vasudeva P. Atluri, 480-227-8411 vpatluri@ieee.org

Inter-Society Mike Andrews, 480-991-1619 m.andrews@ieee.org

Webmaster

Monica H. Braunisch

mhbraunisch@ieee.org

This Issue of the Valley Megaphone features:

Contacts:

- **Executive Committee (page 1)**
- Chapters and Branches (page 1)
- Student Branches (page 2)

Contents:

- University Student U-News (page 2)
- **Call for IEEE Phoenix Section Officer** Nominations (page 3)
- Note from the Publicity Chair (page 3)
- **IEEE Phoenix Section Workshop** Announcement (page 4)
- **Waves and Devices Chapter** Announcements (page 5 - 7)
- **Power & Energy Society** Announcements (page 8)
- ECTC 2010 Call for papers (page 9)
- Teacher-in-Service Program (page 10)
- Mentoring Connection (page 11)
- Computer Society at ASU OSUM Program (page 12)
- **IEEE Phoenix Section Executive Committee Meeting and Events** Calendar (page 12)

IEEE Phoenix Section Executive Committee meeting minutes can be found at: http://www.ieee.org/phoenix

Please send announcements for Valley Megaphone to Russ Kinner at r.kinner@ieee.org.

Chapters

Communication & Signal Processing Harvey Thornburg, 480-727-7902 harvey.thornburg@asu.edu

Computer Society Joy Shetler jsshetler@juno.com

Consultants Network (PACN) Ronald L. Sprague, 602-828-7374 r.sprague@ieee.org

CPMT Society Samir Pandey, 480-552-7502 samir.pandey@intel.com

Education Chapter Martin Reisslein, 480-965-8593 reisslein@asu.edu

> **EMBS Chapter** Ahmed Abdelkhalek ahmed a@acm.org

EMC Society
Harry Gaul, 480-441-5321
harry.gaul@ieee.org

GOLD Matt Mets

matt.mets@freescale.com

Power & Energy Society Bob Paris, 602-437-0469 bob@arizonasunsales.com

> **Solid State Circuits Hugh Barnaby** hbarnaby@asu.edu

Teacher-In-Service Mike Poggie mike.poggie@ieee.org

Waves & Devices Society Steve Rockwell, steve.rockwell@ieee.org

Life Members George Karady, 480-965-6569 karady@asu.edu

U - News

(for Student Members)

Welcome to all Returning and Newly Enrolled Students!

My daily commute takes me past the ASU Main Campus right here in Tempe, but I am sure that my comments apply to the entire list of Universities in the IEEE Phoenix Section as we enter August.

Students are returning and preparing to start the school year off on the right foundation. Likewise the Section Executive Committee will be holding its next meeting in early September, as there are no meetings in July and August, with preparation underway on activities. With one full year under my belt as Student Activities Chair, I am looking forward to interfacing with Officers and Members of the various Student Branches and starting off IEEE activities on a solid foundation, having thanked all graduating officers and welcoming in newly elected!

This U-News Page, initiated last year, will continue to serve as the focal point for communications related to Student Branch Activity. The Section Committee is always looking for student recommendations for various improvements and support in expanding student memberships.

Wishing all Students success in their 2009 - 2010 Academic Year!

Regards,

Nick Leonardi 480-720-1435 - Cell nleonardi@ieee.org Student Activities Chair

Student Branches

ASU Main, Engineering Chair: Ramesh Bodakunta <u>ieeeasuchair@gmail.com</u> Advisor: Cihan Tepedelenlioglu, (480) 965-6623, <u>cihan@asu.edu</u>

> ASU Polytechnic Chair: Justin Burrell justin.burrell@asu.edu Advisor: TBD

> **DeVry, Phoenix** Chair: Mason Surerus <u>msurerus@ieee.org</u> Advisor: Dion Benes

DeVry, Computer Society Chair: TBD Advisor: Diane Smith

NAU, Engineering
Chair: Kenji R. Yamamoto
kry3@nau.edu
Advisor: Niranjan Venkatraman
v.niranjan@ieee.org

Embry-Riddle, Prescott Chair: Caleb Young, young27f@erau.edu Advisor: John E. Post postj@erau.edu

U-Newsbytes

- ♣ 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 3).



Call for IEEE Phoenix Section Officer Nominations

The IEEE Phoenix Section is seeking nominations for the following Section Officer positions for the 2010 term:

- Chair,
- Vice-Chair,
- Secretary and
- Treasurer

Please send your nominations or questions to any of the following Nomination Committee members:

Keith Holbert (email: holbert@asu.edu),

Bob Paris (email: bob@arizonasunsales.com), or

Vasu Atluri (email: vpatluri@ieee.org)

Section Officers may be of Member, Senior Member, or Fellow grade, and must reside within the boundaries of the Phoenix Section. Self-nominations are perfectly acceptable. **Deadline for nominations is Monday, August 31, 2009.**

Note from the Publicity Chair

Dear Fellow IEEE Phoenix members,

I will be relocating to Irvine, CA by mid-August, to work out of my company's Headquarters. So, I will be relinquishing my position as the Publicity Chair for the IEEE Phoenix Section from this edition of Valley Megaphone.

Russ Kinner, our Conferences Chair, has kindly agreed to assume my responsibilities as well in the interim, so that you continue to receive the Valley Megaphone on time every month. Russ can be reached at 602-997-2353 or e-mail: r.kinner@ieee.org for all your inputs to and questions on this Newsletter.

I take this opportunity to thank all of you for the support and help I received during the past year, for the timely publication of our Newsletter. I also seek your support to Russ, who will be functioning as the Interim Publicity Chair, until a permanent replacement is approved by the IEEE Phoenix Executive Committee.

Sincerely, Sam Karikalan samk@broadcom.com

IEEE-Phoenix Section

Workshop



A PROFESSIONAL CHALLENGE: Your Job Search

Saturday, August 1, 2009

10:00 AM - 1:00 PM

Mustang Library Auditorium, 10101 N 90th St, Scottsdale, AZ 85258

The Valley job market is evolving. There are many companies downsizing, discontinuing or relocating, re-engineering their organization or otherwise impacted by economic conditions. In addition, there are new opportunities created by emerging technologies, business births, economic development and other factors.

The challenge for the displaced engineer or the individual searching for a new opportunity is how to effectively identify/qualify job leads and hiring organizations, develop an effective resume/job application package, and have a successful interview.

The Job Search workshop will go through each phase of your job transition including: preparation, search, contact, interview, selection, and growth.

Major workshop topics include:

- Personal SWOT analysis
- Resume development
- Networking
- Market analysis
- Search (industry and market)
- Interviewing (competency based and technical)
- Follow-up

In this three-hour workshop, you will:

- Identify and analyze your attributes, interests, skills and accomplishments and the impact you can make on an organization
- Develop a competency based resume and companion introduction letter
- Determine methods for making effective contacts and distributing your materials
- Identify of the different resources and personal networks that can be used in your job search
- Discuss elements of effective interviewing, including competency-based interviews, technical interviews and interview scoring
- Identify personal improvement opportunities and options
- Develop a marketing and tracking plan for all applications, interviews and feedback.

Registration

The registration fee for the program is \$10.00, payable to the IEEE-Phoenix Section. Registration and course related questions should be made directly to Michael Andrews, m.andrews@ieee.org. Registration is limited.

Participants must bring an existing resume and current work history (soft copy and hard copy). You may bring a personal computer (optional).







http://ewh.ieee.org/r6/phoenix/wad/

2009 Calendar

2009 Waves & Devices Technical Meetings

<u>Date</u>	<u>Speaker</u>	Society	<u>Location</u>	<u>Time</u>	Topic / Title
2-Feb	Dr. Mike Golio (Consultant)	MTT	Freescale	4:00 PM	Engineering your retirement
16-Apr	Mr. Bruce Bosco (Consultant)	MTT	Freescale	4:00 PM	Emerging Wireless Standards for Gigabit Applications
23-Apr	Dr. Michael Goryll (ASU)	EDS	ASU	4:00 PM	lon Channel Biosensors on Silicon
18-May	Dr. Fadhel Ghannouchi (Univ. of Calgary)	MTT	Fre escale	2:00 PM	SDR Based Power amplifiers /Transmitters for Advanced Wireless and Satellite Communications
28-May	Dr. Shahin Farahani (Freescale)	MTT	Freescale	4:00 PM	Short-Range Wireless Networking Standards
25-Aug	Dr. Peter De Maagt (ESA)	APS	ASU - MU246 (Coconino)	4:00 PM	Terahertz Technology for Space and Earth Applications
18-Sep	Dr. Abbas Abbaspour- Tamijani (ASU)	APS	ASU - MU228 (Cochise)	4:00 PM	Electronically-steerable Antennas for Millimeter-wave Frequency Range
14-Oct (Date still to be confirmed)	Dr. Shane Johnson (ASU)	LEOS	Freescale (Group Conference Room)	6:00 PM	Device physics related to the efficiency of LEDs for lighting and optical refrigeration applications
6-Nov (Speaker still to be confirmed)	Dr. Tahir Ghani (Intel)	EDS	Freescale (Group Conference Room)	6:00 PM	Device Scaling in the Nanoscale Era



WAVES AND DEVICES – PHOENIX CHAPTER http://ewh.ieee.org/r6/phoenix/wad/

APS Meeting

Meeting Free & Open to Non-IEEE Members

4PM, August 25, 2009

Memorial Union, Room 246 Coconino Room Arizona State University, Tempe, AZ



Terahertz Technology for Space and Earth Applications

Presented by

Dr. Peter de Maagt

peter.de.maagt@esa.int

Electromagnetics & Space Environments Division, European Space Agency

Abstract

The terahertz (THz) part of the electromagnetic spectrum falls between the lower frequency millimeter wave region and at higher frequencies, the far-infrared region. The frequency range extends from 0.1 THz to 10 THz, where both these limits are rather loose. As the THz region separates the more established domains of microwaves and optics, a typical THz technique will incorporate aspects of both realms, and may even draw on the best of both. The two bounding parts of the spectrum also yield distinct sets of methods of generating and detecting THz waves. These approaches can thus be categorized as having either microwave or optical/photonic origins. As a result of breakthroughs in technology, the THz region is finally finding applications outside its traditional heartlands of remote sensing and radio astronomy. Extensive research has identified many attractive uses and has paved the technological path towards flexible and accessible THz systems. Examples of novel applications include medical and dental imaging, gene theory, communications and detecting the DNA sequence of virus and bacteria. The presentation will discuss the range of THz applications and will present the components and systems that are utilized for the frequency region.

Biography

Peter de Maagt was born in Pauluspolder, The Netherlands, in 1964. He received the M.Sc. and Ph.D. degrees from Eindhoven University of Technology, Eindhoven, The Netherlands, in 1988 and 1992, respectively, both in electrical engineering. In the period 1992/1993 he was station manager and scientist for an INTELSAT propagation project in Surabaya, Indonesia. He is currently with the European Space Research and Technology Centre (ESTEC), European Space Agency, Noordwijk, The Netherlands. His research interests are in the area of millimeter and submillimeter-wave reflector and planar integrated antennas, quasioptics, electromagnetic bandgap antennas, and millimeter- and submillimeter-wave components. Dr. de Maagt was co-recipient of the H.A. Wheeler Award of the IEEE Antennas and Propagation Society for the best applications paper of 2001. He was granted a European Space Agency Award for innovation in 2002. He was co-recipient of the LAPC 2006 best paper award. Dr. de Maagt serves as an Associate Editor for the IEEE Transaction on Antennas and Propagation.

Date: August 25th, 2009

<u>Location</u>: Memorial Union, Room 246 Coconino Room, Arizona State University, Tempe

Closest visitor parking is the Apache Blvd. parking structure (\$2 per hour)

<u>Time</u>: 4:00-5:00 PM *Presentation*; Pizza will be served following the Seminar

For more information, please call:

Steve Rockwell (Chapter Chair) at (480) 241-9891 <u>steve.rockwell@ieee.org</u> Chuck Weitzel (Chapter Publicity) at (480) 292-0531 <u>steve.rockwell@ieee.org</u>



WAVES AND DEVICES – PHOENIX CHAPTER http://ewh.ieee.org/r6/phoenix/wad/

APS Meeting

Meeting Free & Open to Non-IEEE Members

4PM, September 18, 2009

Memorial Union, Room 228 Cochise Room Arizona State University, Tempe, AZ



ELECTRONICALLY-STEERABLE ANTENNAS FOR MILLIMETER-WAVE FREQUENCY RANGE

Dr. Abbas Abbaspour-Tamijani

Assistant Professor of Electrical Engineering, Arizona State University

Abstract

Recent years have witnessed a steady progress towards commercialization of millimeter-wave radio systems for applications ranging from automotive radar to ultra-high-speed internet and short range data communication. Much of this excitement is owed to the advances in millimeter-wave IC technology that enable cost-effective production of highly integrated RF front ends. Besides abundant bandwidth, an attraction of millimeter-waves is that they allow for smaller and more directive antennas. At these frequencies, the antenna gain in fact becomes an important term in the link budget calculations, as it has to compensate for the low output RF power and poor noise performance of the electronics and the high atmospheric absorption. Thus, almost all of the envisaged millimeter-wave systems with a range of more than a few meters rely on some type of beam-steering for achieving directivity and wide-angle coverage. There are significant research and development efforts in both academia and industry to address this requirement by developing low-cost phased array technologies based on IC phase shifters. However, the high noise figure of IC phase shifters can offset the directive gain in smaller arrays. Alternatively, passive quasi-optical beam-forming concepts offer high performance and more efficient beam-steering solutions. In this talk we review passive electronically-steered antenna designs for millimeter-wave band and present our recent work on lens-arrays, integrated lens beamformers, and frequency scanned leaky-wave antennas. For high end defense and satellite communication applications, we will also present a class of reconfigurable lens-arrays and reflectarrays based on monolithically-integrated MEMS switch technology.

Biography

Dr. Abbaspour-Tamijani received his B.S. and M.S. degrees from The University of Tehran, Tehran, Iran, in 1994 and 1997, respectively, and his Ph.D. degree from The University of Michigan at Ann Arbor, in 2003, all in electrical engineering. From 1996 to 1999, he worked in industry as an Antenna and RF Engineer. In 2004, he was a Research Fellow with the Radiation Laboratory, The University of Michigan at Ann Arbor. He is currently an Assistant Professor of electrical engineering with the School of Electrical, Computer and Energy Engineering, Arizona State University, Tempe. His research focuses on novel device concepts for reconfigurable radio systems including beam-steerable and reconfigurable antennas, ultrawideband tunable filters based on vibrating and non-vibrating RF MEMS technologies, multi-functional millimeter-wave modules, and applications of microwaves in bio-telemetry and neural interfacing. His research is funded by NSF, NIH, DARPA, NASA, and industry.

Date: September 18th, 2009

Location: Memorial Union, Room 246 Coconino Room, Arizona State University, Tempe

Closest visitor parking is the Apache Blvd. parking structure (\$2 per hour)

Time: 4:00-5:00 PM Presentation; Pizza will be served following the Seminar

For more information, please call:

Steve Rockwell (Chapter Chair) at (480) 241-9891 steve.rockwell@ieee.org Chuck Weitzel (Chapter Publicity) at (480) 292-0531 steve.rockwell@ieee.org c.weitzel@ieee.org



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 <u>Ladewig@wapa.gov</u>.



COMPONENTS, PACKAGING AND MANUFACTURING TECHNOLOGY SOCIETY ECTC Electronic Components & RF Program Committee CPMT RF & Wireless Technical Committee



60th Electronic Components and Technology Conference (ECTC) June 1 – June 4, 2010 Paris Las Vegas Hotel, Las Vegas, Nevada USA

Call for Papers

The ECTC Electronic Components & RF Program Committee and the CPMT RF & Wireless Technical Committee encourage you to submit an abstract to ECTC 2010 in the areas of passive components & networks, RF & Microwave components & modules, and subsystems. ECTC is the premier Electronic Components and Packaging conference held annually and attended by about 1000 delegates with equal participation from companies and academia. As in the past, Electronic Components, RF & Microwave, and MEMS related papers are solicited for focus sessions during this prestigious conference.

Discrete Passive Components

Design, materials, processes, and manufacturing considerations for discrete passive components: resistors, capacitors, inductors, and passive networks.

Integrated & Embedded Components

Design, materials, processing, modeling, manufacture, and characterization of integrated & embedded passive & active components on silicon, organic, ceramic, ultra-thin, and glass type substrates for digital, mixed signal, and RF applications; metamaterials, component integration for power converter modules.

RF & Microwave Components

Integrated antennas, filters, baluns, RFID/sensors, RF MEMS, MEMS packaging, tunable devices and switches, high power and high efficiency RF/Microwave power amplifiers – design, technology and high frequency characterization

RF & Microwave Modules

Module Integration technologies in semiconductor, organic, and glass substrates – System in Package, System on Chip, Package on Package, and 3D integration; shielding and isolation

Materials, Processing, Reliability, & Manufacture of Electronic Components

Design, High permeability and high permittivity materials at high frequencies and their processing, yield and reliability aspects of electronic components, through silicon vias, wafer level RDL, and nanostructured materials and processes,

SUBMISSIONS:

Please submit abstracts using the ECTC web site: www.ectc.net by October 15, 2009. Abstracts must comply with the guidelines outlined at the website. To have your paper considered for inclusion in the "Electronic Components & RF" focused sessions
YOU MUST SELECT

"Electronic Components & RF" committee as your PRIMARY subcommittee preference

when you submit your abstract at the ECTC web site. Again, to have your paper considered for the electronic components & RF/microwave sessions, please do the following:

STEP #1: Submit abstract through the ECTC web site (www.ectc.net) and

select "Electronic Components & RF" as PRIMARY subcommittee preference

STEP #2: Email abstract copy and author's email & contact information to:

Craig Gaw at c.a.gaw@ieee.org & Amit Agrawal at amiagra2@cisco.com

Craig Gaw,

Chair - CPMT RF & Wireless TC Freescale Semiconductor Inc. c.a.gaw@ieee.org

Amit P. Agrawal,

Chair - ECTC Electronic Components & RF TC

Cisco Systems, Inc. amiagra2@cisco.com



IEEE Strategies to Help School Science Teachers

The national office of the IEEE has had an active program for a couple of years now to train science teachers in improved ways to teach science and engineering to school children. Called **TISP** — **Teacher In-Service Program** — the program is a response by the institute to the widely acknowledged appallingly low quality of science and mathematics knowledge among graduating school children, and the rapidly decreasing number of students who opt for a degree and a career in engineering rather than in business management, finance or law. The institute recognizes that a large part of the problem is the lack of knowledge and experience of engineering matters among the science teachers, this leading to a lack of exposure of children at a young age to real science or the encouragement of any child that might have an interest. In fact, studies show if children have not been exposed to science before high school it is really too late for them to get into it. Along with that, by 5th grade students need to know that going to college is a possibility for them.

Hence, a major part of the national IEEE program is the creation of a growing set of teaching modules / lessons plans, each module being structured around a particular engineering problem such as electric motors, structure loads, etc. Each module emphasizes the teaching of the relevant engineering, science and mathematics principles through a practical project performed by the students. These modules are freely available to any teacher on the institute website: www.tryengineering.org/lesson.php.

The TISP program is an effort sponsored and promoted by the national office but run at the local chapter level. The Phoenix Section lead on TISP is Mike Poggie. To further help the process, the national office has been running a series of workshops to train IEEE member volunteers in achieving two goals: to train teachers in better ways to teach engineering and science principles, and to provide in classroom assistance to the science and mathematics teachers. A small group from the Phoenix Section participated in the last session in November held in San Francisco; it was a lot of fun and very inspiring! But it is clear that to manage and implement TISP over the whole Phoenix Section, we have to divide up the tasks into manageable subsets, each subset under a different lead and all the subsets coordinated by Mike Poggie. A subset could be a distinct grouping such as retirees, or a town remote from Phoenix like Flagstaff, or even quite possibly a particular school.

As a first subset we are seeking to enlist the help of the talented retirees in the IEEE. Retirees represent a tremendous pool of engineering talent and knowledge associated with its application in the real world of industry, academia, government, etc. They are very capable of being able to show school children in science classes how what they are being taught relates to the real world and how science and math studies can lead to a fruitful and enjoyable career in engineering. Plus they have more time they can devote to this cause than do our colleagues in full-time employment and with young families. This subset is being organized by John Purchase. So 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. And the national office continues to run regular TISP workshops (and all travel expenses are reimbursed!); they are well worth attending for anyone interested in working with school children and teachers.

Please read the June 2009 edition of the Valley Megaphone at http://ewh.ieee.org/r6/phoenix/vm/2009/June09vm.pdf, for a glimpse of the contributions by the IEEE Phoenix TISP volunteers.



IEEE Mentoring Connection

I EEE 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

<u>IEEE Computer Society at Arizona State University</u> 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 <u>Sun Microsystems</u> and their <u>Open Source University Meetup (OSUM)</u> program!

Sun Microsystems has rapidly emerged as a leader in the open source community, making a large variety of their platforms open including OpenOffice, 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, <u>members of OSUM also get free</u>, <u>well-written and authoritative training</u> on Sun technologies through the <u>Sun Academic Initiative</u>, and <u>extremely</u> 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.

No Meetings in July and August

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

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

members are welcome to attend.

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

IEEE Phoenix - Calendar of Events for August 2009:

You may access the IEEE Phoenix Section Calendar of Events at http://www.mynetcalendar.com/calendar.php?month=8&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