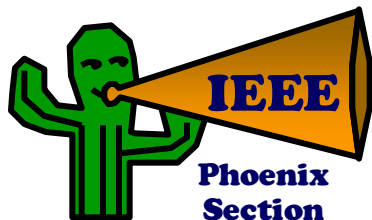


The Valley Megaphone

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

**March 2014,
Volume XXVIII, Number 3**



Executive Committee 2014

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IEEE Phoenix Section on-line updates can be found at <http://sites.ieee.org/phoenix/> and on LinkedIn at: <http://www.linkedin.com/groups?qid=2765918>

Please send announcements for the *Valley Megaphone* to Mahesh Shah at mkshah@ieee.org for inclusion in the Section Calendar.

All meetings announced in the Phoenix Section Megaphone or on the Phoenix Section Calendar are open to everyone (IEEE members and non-Members)

IEEE Phoenix Section 2014 Annual Banquet pictures are available to view and download at <http://sites.ieee.org/phoenix/2014/03/03/pictures-from-the-2014-annual-banquet/>

Chapters

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pturaga@asu.edu

Computer Society

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CPMT Society

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EMBS Chapter

TBD

EMC Society

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GOLD

Shafiul "Jacky" Islam 520-245-9010
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Waves & Devices Society

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Life Members

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lesdavietii@cs.com

Women In Engineering

Shamala Chickamenahalli
shamala.chickamenahalli@intel.com

U – News

(for Student Members)

Updates of Student Advisors and Committee Members

Each Student Branch noted on the right side of this page should review current information on Advisors and Student Committee Members and forward to my attention within this week, as we are reviewing contacts for reporting and activities including Student Monthly Meetings.

S. Diane Smith
602-749-4601
sdianesmith@computer.org
Student Activities Chair

Start your own MicroMouse and compete for cash prizes!

The Section has a full tournament sized MicroMouse maze. Funding for your project may be available. For details contact the Section Student Activities Chair, S. Diane Smith sdianesmith@computer.org

Student Branches

ASU Main, Engineering

Chair: Jennifer Taggart
928-581-5198,
jennifer.taggart@asu.edu
Advisor: Cihan Tepedelenioglu,
480-965-6623, cihan@asu.edu

ASU Main, Computer Society

Chair: TBD
Advisor: Guoliang Xue
480-965-6218, xue@asu.edu

ASU Polytechnic

Chair: TBD
Advisor: TBD

DeVry, Phoenix

Chair: Lori Renaldi
lorirenaldi@computer.org
Advisor: Diane Smith
dsmith2@devry.edu

DeVry, Computer Society

Chair: TBD
Advisor: Diane Smith
dsmith2@devry.edu

NAU, Engineering

Chair: TBD
Advisor: Niranjan Venkatraman
v.niranian@ieee.org

Embry-Riddle, Prescott

Chair: Lisa M. Ferguson
FERGUSL2@my.erau.edu
Advisor: John E. Post
posti@erau.edu

U – Newsbytes

ASU Polytechnic is currently seeking Advisor for the Student Branch. Please email Diane (at email address above) with Recommendations.

This month we had a meeting and a presentation about the High altitude balloon experiments done by ASU and ERAU was shown at the monthly meeting. DR Cone and ten other persons attended the banquet in Phoenix. There was a lunch and learn held at the Hazy library (ERAU campus library) about the type of articles and media available for research from the IEEE in our library and how to access it. The group also sponsored a representative from labview to come and demonstrate their product for a large group of people.

Our group did sponsor an "egg drop" contest for campus engineering week. The Idea was to get students involved to design a device in which an egg can survive a drop from a 3 story building. The criteria for the contest was based on the weight, number of pieces of the device, and if the device hit the target. I do have pictures from the event if you would like to see them.

Thank you
Brenda Moerchen
Secretary, ERAU Chapter, Prescott



Spring Lecture Series

Starting Friday March 21st, the ASU Student Branch will begin its Spring lecture series. Lectures are every Friday at 5 pm in GWC 487. Pizza and drinks will be served!

Schedule:

March 21st – Dr. Lawrence Clark “*Mitigating VLSI variability with transistor architecture and circuit approaches*”

March 28th – Dr. Dragica Vasileska “*Self-heating effects in nanoscale devices*”

April 4th – Dr. Zachary Holman “*Amorphous silicon/crystalline silicon heterojunctions: The future of high-efficiency silicon solar cells*”

April 11th - Dr. Hugh Barnaby (topic – TBD)

April 18th – Dr. Jennifer Blain Christen (topic – bioelectronics)

Location:

GWC 487

5 p.m. – 6:30 p.m.

RSVP at link below:



<http://goo.gl/7IXsWH>



Phoenix Section Student Paper Contest, 2014

The IEEE Student Paper Contest offers the undergraduate IEEE Student member opportunities to exercise and improve both written and verbal communication skills. Throughout a successful career, an engineer will be constantly called upon to communicate ideas to others. Researching, writing, and presenting a paper provides a student with invaluable early experience in expressing ideas related to engineering. The primary function of the paper contest is to improve communication skills. No student should be discouraged from entering the contest because they think they are not technically sophisticated.

The undergraduate student paper contest consists of a written paper and an oral presentation. The written paper should comply with the [IEEE Regional Student Paper Contest Guidelines \(PDF\)](#). The papers should be a maximum of 15 pages, double-spaced with 12-pt font. The written paper, as either an MS Word or an Adobe PDF file, should be emailed to sdianesmith@computer.org by **6 p.m. on March 16, 2014**.

The oral presentations are 15 minutes plus a 5-minute question and answer period. The oral portion of the contest will be held the morning of Saturday, **March 22, 2014**. A computer with projector will be provided. PowerPoint slides are recommended. More details on location and time will be provided to entrants at a later date.

The local awards for the paper contest winners are (1) First Place – \$300, (2) Second Place – \$200, and (3) Third Place – \$100. The five judges are local IEEE members, often IEEE Senior Members or IEEE Fellows.

The top entrant from *each* local Student Branch is eligible to present their paper to the IEEE Region 6 Southwest Area at the spring meeting to be held March 29, 2014 at Embry Riddle in Prescott, AZ.

If you have any questions, please contact:

Dr. S. Diane Smith
IEEE Phoenix Section
Student Activities Chair
E-mail: sdianesmith@computer.org



Upcoming Conferences in February in Region 6

There are a total of 9 IEEE conferences in the month of March in Region 6. One is in Montana, One is in Utah, and seven are in California. In spite of our beautiful weather, there are none in Phoenix.

If any group is looking to have a conference, please contact our new direct email Phoenix.Conferences@ieee.org



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

IEEE COMPONENTS, PACKAGING AND
MANUFACTURING TECHNOLOGY SOCIETY

IEEE Components, Packaging and Manufacturing Technology Society Phoenix Chapter

2014 Executive Committee for CPMT Chapter for IEEE-Phoenix Section

Position	Name	Phone Contact	Email Contact
Chair	Dr. Mahesh K. Shah	(480) 544-9438	mkshah@ieee.org
Asst. Chair	Mr. Vivek Gupta	(480) 734-2366	vmgupta@msn.com
Secretary	Dr. Devarajan Balaraman	(480) 619-0944	iangoibiking@gmail.com
Treasurer	Mr. Surinder L. Tuli	(480) 287-1437	surinder.tuli@gmail.com
Program Chair	Mr. David Dougherty	(480) 245-8099	david.dougherty@freescale.com
Asst. Program Chair	Dr. Nageswara R. Janapala	(650) 213-6733	nageswara.r.janapala@intel.com
Tutorial Chair	Dr. Ashish Gupta	(480) 554-2409	ashish.x.gupta@intel.com
Asst. Tutorial Chair	Adel Elsherbini	(734) 686-2278	a.elsherbini@gmail.com
Workshop Chair & Publicity	Dr. Vasudeva P. Atluri	(480) 227-8411	vpatluri@ieee.org

Tentative Schedule for Monthly Seminars

We are planning to arrange monthly Seminars on topics of interest on following days. If you have suggestion for topics and/or speakers please contact any of the executive committee members listed above.

Wednesday, February 26 – Lecture by Dr. Sandeep Sane from Intel on Changing Role of Mechanics in Electronics Packaging World. The lecture was attended by 37 people.

Future Lectures are being planned for 3rd Wednesday of each month. Tentative dates are: March 12th, April 23th, May 21st, June 18th, July 23rd, August 20th, September 17th, October 22nd, November 19th and December 17th.

Additional Activities – Save the Date - Tutorial and Workshop

Phoenix section is planning to hold a Half Day tutorial on May 9th. In addition we are working with other Society Chapters to hold a workshop on **Emerging Device and Packaging Technology** in mid-November.

If you suggestions for topic or speakers to contact, please feel free to contact appropriate members of the Executive Committee listed above.

Web Master – If you are knowledgeable with Word Press and are willing to help, the Chapter is looking for a volunteer to create and maintain its Webpage in association with Phoenix Section and CPMT Society Webpage



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

IEEE COMPONENTS, PACKAGING AND
MANUFACTURING TECHNOLOGY SOCIETY

IEEE Components, Packaging and Manufacturing Technology Society Phoenix Chapter

Wednesday, March 12th, 2014 at 5:30 PM

New Frontier in Electronics: System Scaling for Smart Mobile Systems by Glass Packaging

Prof. Rao Tummala

**Joseph M. Petit Chair in Electronics Packaging, School of Electrical and Computer Engineering
Director of National Science Foundation Packaging Research Center
Georgia Institute of Technology, Atlanta, Georgia**

ABSTRACT

Transistor scaling, starting with the invention of transistor in 1949, made electronics the largest single, \$1.5T global industry, serving a variety of individual industries that span computing, communications, consumer, automotive and others. The basis for this industry is a result of singular focus in transistor scaling, leading to more than a B transistor chip. But the electronics landscape is changing, driven by a new industry that integrates all these individual industries into so-called "Smart Mobile Systems" that promise to perform every imaginable function, in smallest size and lowest cost that every global person could afford. Such a new frontier, however, requires revolutionary technologies referred to as System Scaling, in contrast to transistor scaling only during the last 60 years. Smart mobile systems are expected to drive unparalleled electronics technology paradigms in system miniaturization, functionality, and cost. The 3D systems packaging center at Georgia Tech is pioneering this system scaling concept by an integrated approach to research, education and industry collaborations. This seminar highlights three important technical areas that include most leading-edge advances in glass substrates, integrated passives and actives and interconnections and assembly.

BIOGRAPHY



Prof. Rao Tummala is a Distinguished and Endowed Chair Professor, and Founding Director of NSF ERC at Georgia Tech. He has been well known as an industry technologist, technology pioneer, and an educator. Prior to joining Georgia Tech, he was an IBM Fellow, pioneering such major technologies as the first plasma display, the first and next three generations of multichip packaging. He is the father of LTCC and System-On-Package technologies. As an educator, he was instrumental in setting up the largest Academic Center in Packaging in the world at Georgia Tech involving more than 200 Ph.D. students, 25 faculty and 70 companies, all working together with an integrated approach to research, education and industry collaboration. Prof. Tummala published more 500 journal and conference technical papers, holds 92 US patents and inventions; authored and edited the first modern packaging reference book—Microelectronics Packaging Handbook (Van Nostrand, 1988), the first undergrad textbook—Fundamentals of Microsystems Packaging (McGraw Hill, 2001) and the first graduate textbook introducing the System-On-Package technology. He is a Fellow of IEEE, IMAPS, and the American Ceramic Society, and member of the National Academy of Engineering in USA. He was the President of both IEEE-CPMT and the IMAPS Societies. He received more than 30 industry, academic and professional society awards including the highest faculty award from Georgia Tech and Distinguished Alumni awards from University of Illinois and Indian Institute of Science, Bangalore.

Date: Wednesday, March 12th, 2014

Location: Group Conference Room, Freescale Semiconductor, Inc., 2100 E. Elliot Rd. Tempe, AZ. There are new signs on the property (Discovery Business Center). Enter the facility through the Main (South) Lobby in building 94 and sign in with Security (Photo ID required). You will be escorted to the meeting room.

Agenda: 5:30–6:00 PM: Social/Refreshments, 6:00–7:00 PM: Presentation, 7:00 PM: Dinner
(Pizza and Soda will be provided by the IEEE Phoenix Section CPMT Society Chapter)

IEEE members and non-members are all welcome to attend. Those who plan to attend should be at the facility entrance no later than 5:45 PM, as there will be no escorts available after that.

For more information, please contact any of the following CPMT officers:

Vasu Atluri (480) 227-8411	Devrajan Balaraman (480) 619-0944	David Dougherty (480) 413-6923
Adel Elsherbini (734) 686-2278	Ashish Gupta (480) 554-2409	Vivek Gupta (480) 734-0266
Nageswara Rao J. (650) 213-6733	Mahesh Shah (480) 544-9438	Surinder Tuli (480) 287-1437



Phoenix Chapter of the IEEE Computer Society

March, 2014

News

- We continue to assemble our programs for 2014. Tentative 2014 chapter meeting dates are listed below. Mark your calendars to save the dates:
 - March 5th at DeVry University (see below)
 - May 7th at DeVry University
 - July 2nd at DeVry University
 - Sep 3rd at DeVry University
 - Nov 5th at DeVry University

Details of the program for these chapter meetings will be published as the speakers are confirmed.

Future Events

- March 5th – Chapter meeting, DeVry University, speaker IEEE Distinguished Visitor Dr. Hal Berghel, “**The Digital Assault on Privacy**”

Response to the publicity for this meeting has been high and we expect a larger than usual audience at the meeting.

The Digital Assault on Privacy

George Orwell and Thomas Huxley are frequently mentioned in the context of the June, 2013 NSA PRISM and Verizon surveillance leaks. While both feared big government and big controls, they feared it for different reasons. This difference will set the tone for this talk.

We will begin with the history of the U.S. involvement in surveillance, from the early analog days to the latest digital technologies. We'll explain the alleged motivations, technologies and civil libertarian consequences of each surveillance project. We will specifically discuss: Echelon, Carnivore, Naruinsight, Magic Lantern, Trailblazer, Stellar Wind/Ragtime, TAO (Tailored Access Operations), and PRISM. The speaker will also cover corporate surveillance by high tech companies and cyber intelligence mercenaries. Discussion will likely include products like Google Now, Google Glasses, H.B. Gary Federal's FastDump and Magenta, and Gamma Group's FinFisher. The speaker will conclude with speculation on future directions for government and private surveillance programs the privacy implications that will arise therefrom.

Dr. Hal Berghel is currently Professor of Computer Science at the University of Nevada, Las Vegas where he has previously served as Director of both the School of Computer Science and School of Informatics, and Associate Dean of the College of Engineering. He is also the founding Director of the Identity Theft and Financial Fraud Research and Operations Center and CyberSecurity Research Center. His research interests are wide-ranging within the binary and digital ecosystem, ranging from logic programming and expert systems, relational database design, algorithms for non-resolution based inferencing, approximate string matching, digital watermarking and steganography, and digital security – including both computer and network forensics. Since the mid-1990's he has applied his work in digital security to law enforcement and intelligence gathering, particularly with respect to digital crime, cyberterrorism, information warfare and trusted identities. His research has been supported by both industry and government for over thirty years. His most recent work in secure credentialing technology was funded by the Department of Justice. In addition to his academic positions, Berghel is also a popular columnist, author, frequent, talk show guest, inventor, and keynote speaker. For nearly fifteen years he wrote the popular Digital Village column for the Communications of the ACM, and for the past two years has written the popular Out-of-Band column for IEEE Computer.

Berghel is a Fellow of both the Institute for Electrical and Electronics Engineers and the Association for Computing Machinery, and serves both societies as a Distinguished Visitor and Distinguished Lecturer, respectively. He has received the ACM Outstanding Lecturer of the Year Award four times and was recognized for Lifetime Achievement in 2004. He has also received both the ACM Outstanding Contribution and Distinguished Service awards. He is also the founder and owner of Berghel.Net, a consultancy serving business and industry.

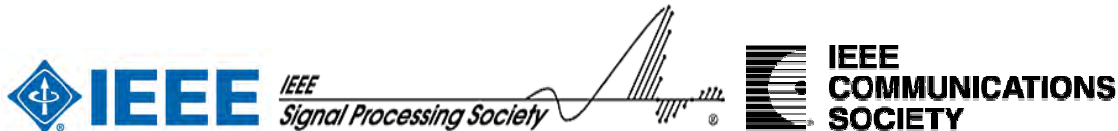
- May 7th – Chapter meeting, DeVry University, presentation on solid state disk drives by representatives from Intel Corporation.

Meetings start at 6:00 pm with networking and light refreshments followed by the presentation at 7:00 pm. DeVry University is located at 2149 W Dunlap Avenue, Phoenix, (a mile east of I-17 on Dunlap).

Visit the CS Chapter website for the latest information: <http://ewh.ieee.org/r6/phoenix/compsociety/>.
For brief announcements regarding upcoming events we are also on Twitter: @IEEECS_PHX

If you would like to suggest a topic or speaker for any of our future meetings, please contact one of the chapter officers:

Chair:	Jerry Crow (jerry.crow@computer.org)
Vice-chair:	Brad Morantz (bradscientist@ieee.org)
Secretary/Webmaster:	Audrey Skidmore (askidmore@computer.org)
Treasurer:	Diane Smith (sdianesmith@computer.org)



SP-COM Phoenix Chapter

New Google Group!

We have recently started a google group to be able to send you more timely announcements via email for upcoming events and talks. Please sign up for timely email announcements at the below link

<https://groups.google.com/d/forum/ieee-sp-com-phoenix-chapter>

In addition, we continue to post meeting notices on IEEE vtools at <https://meetings.vtools.ieee.org/main>

Upcoming Talks

SenSIP/IEEE SPCOM Graduate Student Seminar Series

Speech and multi-modal emotion recognition via latent topic model representations

Presenter: Mohit Shah, PhD candidate

March 7, 2014, 11am Room: GWC 487

Abstract

Automatically recognizing the emotional state of human beings has potential applications in realistic human-machine interfaces, health disorder diagnosis, education and entertainment related areas. In this talk, I will show how emotion recognition can be posed as a problem similar to semantic topic analysis in natural language processing. Specifically, two popular topic models will be discussed - latent Dirichlet allocation and replicated softmax model, and will be extended for speech and multi-modal emotion recognition. Additionally, the various factors and parameters that make topic models well-suited for this task will be analyzed in detail.

Biography:

Mohit Shah is a PhD candidate at Arizona State University. He received his B.Tech from Nirma University, India in 2008. His research interests lie in speech processing and analysis methods, covering both DSP and machine learning related aspects. His prior work in industry includes development of speech interfaces during research internships at Intel and Palo Alto Research Center (Xerox PARC) in 2012 and 2013, respectively.

Upcoming Seminars:

3/21 – Samuel Dodge: Attentive Machine Vision: Computational Modeling of Human Visual Attention

4/4 – Rushil Anirudh: Test driving object detectors and classifiers: Estimating performance on unlabeled data

5/2 – Revak Tyagi: Performance Models for LTE-Advanced Random Access

Sponsored by the SenSIP Center and NSF I/UCRC

Technical Co-Sponsorship by the IEEE Signal Processing and Communications Chapter, Phoenix Section

New Google Group!

Please sign up for timely email announcements at our google group link:

<https://groups.google.com/d/forum/ieee-sp-com-phoenix-chapter>



IEEE Power and Energy Society
Phoenix Chapter
<http://www.ewh.ieee.org/soc/pes/phoenix/>



News and Announcements:

- Want to know more about IEEE Power and Energy Society? Watch this video:
 - http://www.youtube.com/watch?v=BRKM4lpo_tk
 - More videos are available at:
<http://ieee-pes.org/outreach/pes-informational-promotional-videos>
- Have you considered becoming a Senior Member of IEEE? It's not as difficult as you think. Basically, you need ten years of professional experience, and your bachelor's degree counts for three of those years. Find out more at:
http://www.ieee.org/membership_services/membership/senior/index.html

March Luncheon Meeting

Date: Thursday March 20th, 2014
Time: 11:15 am – 11:30am: Registration
11:45: Lunch
12am – 1pm: Program
Location: Bobby Q's
8501 N. 27th Avenue, Phoenix, AZ 85051
Speaker: Bill West
Topic: Spot Networks
Cost: \$5
Reservations: Contact Nicole at (602) 470-0400 or submit your name here:
<http://ewh.ieee.org/soc/pes/phoenix/lunch.php>



IEEE

Meeting Free & Open to Non-IEEE Members

6:00 to 7:30PM, Wednesday, January 29th, 2014

*Artisan Court, Room 240, Arizona State University, Tempe, AZ
(East side of Mill between 6th and 7th street)*

Current and Future Trends in Photovoltaics Technologies

Dr. Christiana Honsberg

Professor, School of Electrical, Computer and Energy Engineering, Arizona State University

Abstract

Photovoltaics has made remarkable strides in the last several years, meeting several critical milestones related to the amount of power generated from photovoltaics and realization of grid parity in multiple markets. In order to achieve further rapid sustained growth, photovoltaic technology must continue to advance, particularly improving efficiency and other performance metrics. The rapid sustained growth rates of PV put it on a similar trajectory to transistors, and PV is following a “Moore’s Law” analog. The talk will summarize the state of the present PV industry and photovoltaic technology, as well as the path to continued growth rates and improvements in PV. Such rapid growth rates make PV and renewables able to address the Terawatt Challenge.

Biography

Christina Honsberg received her PhD from the University of Delaware in 1992. Until 2000, Dr. Honsberg was faculty at the University of New South Wales in Sydney, Australia, working on high efficiency commercial silicon solar cells (the buried contact solar cells which were transferred to multiple industrial partners), advanced concept photovoltaics, and on the world’s first undergraduate degree program in photovoltaic engineering. In 2001, Dr. Honsberg became faculty at Georgia Institute of Technology working on ultra-high efficiency and in 2004 Dr. Honsberg joined the University of Delaware to develop a high efficiency solar program there. This resulted in an NSF-IGERT and a DARPA program, VHESC, focused on 50% solar cells, culminating in the “champion” sub-module efficiency of 38%. In 2008, Dr. Honsberg joined Arizona State University, founding the Solar Power Laboratory. In 2010, she became Director of the NSF-DOE Engineering Research Center QESST, focused on developing PV technologies and educational activities which address the Terawatt Challenge.

Date: Friday, April 4th, 2014

Time: 5:00 PM *Presentation*, Pizza will be served following the Seminar

Location: [Agilent Office, Suite 367, 4330 West Chandler Blvd., Chandler AZ 85226](#)

(In Stellar Business Center on North side of Chandler Blvd west of McClintock Rd.)

For more information, contact:

Steve Rockwell (WAD Chapter Chair) (480) 241-9891 steve.rockwell@ieee.org
Vishwanath Natarajan (Chapter Publicity) (404) 428-0514 vishwanath.natarajan@ieee.org

WAD Website: <http://ewh.ieee.org/r6/phoenix/wad/>



Phoenix Section Life Member Affinity Group

Technical & Administrative Meeting May 13, 2014

Program Presentation: “Sample of IEEE Tours” details to follow

Meeting Agenda:

1. Introductions of attendees
2. Old Business
 - a. TOPICS FOR TECHNICAL PRESENTATIONS FOR 2014 TECHNICAL MEETINGS
 - b. ARIZONA SCIENCE LAB MANPOWER SUPPORT report Barry Cummings
 - c. Proposed ANNUAL SCHOLARSHIP PROGRAM report Les Daviet
3. New Business
 - a. Discussion for suggestions on the Program presentations.
 - b. Discussions of future LMAG activities

Where: SRP's **PERA Club** Bighorn Room,
1 East Continental Drive, Tempe, AZ
Continental is West of 68th St., ½ mile south of McDowell Road
Enter the Private PERA Club and follow drive to large parking lot. Big Horn Room is the most South east building off parking.

When: Tuesday, May 13, 2014, 11:00am – 1:00pm, Registration fee is \$15. This fee will include lunch provided by the PERA Club. Lunch will be: to be voted on

RSVP: Please respond to the Program Chair, Ronald Sprague by email: r.sprague@ieee.org at least 5 days before the meeting. The RSVP is needed to determine the number of meals to be provided by PERA.

The Program Chair is seeking suggestion from members for future presentations. Any ideas of interest to LM are open for consideration. Please contact Ronald Sprague Program Chair at r.sprague@ieee.org or any officer with ideas.

About IEEE Phoenix Section Life Member Affinity Group:

The IEEE Phoenix Section Life Member Affinity Group was organized to enable IEEE Life Members to retain active IEEE associations, contribute to the social good in their communities, advance IEEE's professional interests and enjoy each other's company. For more details use the link

http://www.ieee.org/web/volunteers/mga/home/life_members_committee/index.html

Activities: Technical meetings scheduled in February, May, October, and December. Elections are held at the December meeting.

Future Technical Meetings: All meeting are scheduled at the SRP PERA CLUB. It is suggested you put these dates on your calendar to attend our meetings.

- Tuesday, May 13, 2014
- Tuesday, October 14, 2013
- Tuesday, December 9, 2014

Officers:

Chair	Leslie Daviet II	lesdavietii@cs.com
Vice Chair	Position is Vacant	
Secretary	Tom Lundquist	Tom.Lundquist@ieee.org
Treasurer	Leslie Daviet II	lesdavietii@cs.com
Program	Ronald L. Sprague,	r.sprague@ieee.org
Past Chair	A. Barry Cummings	abarrycummings@gmail.com



IEEE youngprofessionals

IEEE Young Professionals (formerly GOLD) Phoenix Section Officers

- Chairman: Shafiul “Jacky” Islam (shafiul.islam@intel.com)
- Vice Chairman: Jennifer Taggart (jennifer.taggart@asu.edu)
- Treasurer: Ashley Meredith (ashley.meredith@aps.com)
- Secretary/Webmaster: Joseph Caglio (joseph.m.caglio@intel.com)

February 8, 2014, IEEE Phoenix Section Annual Banquet

At the IEEE Phoenix Section Annual Banquet, on February 8, 2014, Shafiul “Jacky” Islam has been awarded IEEE GOLD Affinity Group Award in recognition for revitalizing the IEEE Phoenix Section Graduates of the Last Decade Affinity Group in 2013.

February 22, 2014, Engineers Day at the Arizona Science Center

IEEE Young Professionals (formerly GOLD) Phoenix Section, took the lead to represent IEEE Phoenix Section on Engineers Day, February 22, at the Arizona Science Center from 10:00 am to 3:00pm. For this event, IEEE Young Professionals, Phoenix Section has collaborated with Arizona Science Lab, IEEE Women in Engineering, Phoenix Section, and IEEE Life Members, Phoenix Section. IEEE Young Professionals, Phoenix Section highly appreciate the help of those who were able to volunteer and thank their valuable contributions on Engineers Day. The list of volunteers are provided below:

- Shafiul “Jacky” Islam, Chair, IEEE Young Professionals Phoenix Section (from Intel Corporation)
- Ashley Meredith, Treasurer, IEEE Young Professionals Phoenix Section (from APS)
- Chuck Weitzel, Past Chair, IEEE Phoenix Section (IEEE Fellow)
- Shamala Chickamenahalli, Chair, IEEE Women in Engineering (from Intel Corporation)
- Ahmet Durgun, Past Chair, IEEE Arizona State University Student Branch (from Intel Corporation)
- Zhen Zhou (from Intel Corporation)



Upcoming Events

Officers of IEEE Young Professionals, Phoenix Section will be attending the Southwest Area Meeting on March 29, 2014 in Prescott, where they will also have an officers meeting.



IEEE Phoenix Section
Women in Engineering
Affinity Group



Representatives of the IEEE Phoenix Section **Women in Engineering (WIE) Affinity Group (AG)** role modeled Engineering Values by activities during Engineers' week. Four engineers visited area school Horizon Community Learning Center in Phoenix and participated in their Rocket building project activity with 3rd-5th graders on Friday Feb 21st. Two WIE AG engineers volunteered at the Arizona Science Center E-week Activities events along with GOLD AG members. Additional reports of WIE engineers participating in E-week activities will be provided next month.

The E-week Phoenix coordinator, Frederick Tack, can be reached at Frederick.tack@gmail.com. The E-week activities were coordinated via the webpage at <http://eweeek-phx.org>.

If you would be interested in helping to organize any of our activities or have suggestions for other activities or speakers for future events, please feel free to contact any of our Executive Committee members:

- Chair: Shamala Chickamenahalli (Shamala.Chickamenahalli@intel.com)
- Vice-Chair: Lesley Polka (lesley.a.polka@intel.com)
- Secretary / Publicity: Divya Kalimuthu (divya.kalimuthu@intel.com)
- Treasurer: Diane Smith (diane@web-oasis.com)
- Web Master: Audrey Skidmore (ASkidmore@azmag.gov)
- Membership: Lesley Polka (lesley.a.polka@intel.com)
- Region 6 Liaison: Barbara McMinn (barbara.mcminn@aps.com)

If you would like to be added to our distribution list for further information about this and future events, please contact Divya Kalimuthu (divya.kalimuthu@intel.com).

The IEEE WIE Affinity Group's mission is to inspire, engage, encourage and empower IEEE women worldwide with a vision of creating a community of IEEE women and men innovating the world of tomorrow. More information about IEEE WIE can be found at:

http://www.ieee.org/membership_services/membership/women/women_about.html.





2014 IEEE Phoenix Section News

View or down load the pictures from IEEE Phoenix Section Annual Banquet 2013 at: <http://sites.ieee.org/phoenix/category/annual-banquet/>

Executive Committee Meeting

Upcoming Meeting Tuesday, April 8, 2014
The Airport Hilton Phoenix,
2435 S 47th St. Phoenix, AZ 85034, (480) 894-1600.

2014 Executive Committee

Chair: Barbara McMinn
Vice Chair: Bruce Ladewig
Secretary: Surinder Tuli
Treasurer: Vivek Gupta
Past Chair: Charles Weitzel

Executive Committee Meetings

Date: First Tuesday of every month, except July and August

Time: 6:00 – 8:00 p.m.

Location: Hilton Phoenix Airport, 2435 South 47th Street, Phoenix, AZ 85034

IEEE Phoenix Section Annual Banquet 2014 Photos are Posted at:

<http://sites.ieee.org/phoenix/2014/03/03/pictures-from-the-2014-annual-banquet/>

IEEE Phoenix Section – Request for Forming Reliability Chapter

Reliability Chapter Forming

The IEEE Reliability Society (IEEE RS) is collecting signatures for a petition to form an IEEE Reliability Society Chapter in the state of Arizona. A Chapter is a technical sub-unit of the IEEE that serves the needs of the IEEE Reliability Society members at the local level. There are more than 20 Reliability Society Chapters worldwide. The IEEE RS plans to collaborate with the IEEE Phoenix Section, as well as, the IEEE Sections in Tucson and Sierra Vista/Ft Huachuca in forming this new state-wide IEEE Reliability Chapter. The Reliability Chapter will focus on 3 meetings in the first 6 months after being created. The topics that may be discussed will include new IEEE Reliability Standards (e.g., IEEE 1633), new software reliability techniques and reliability growth techniques. The IEEE RS plans to rotate Chapter meetings

between the 3 state locations. If you are a member of the IEEE, but not an IEEE-RS member, you could join the society for \$35 and be a charter member to help in the formation of this new Chapter. If you are an IEEE RS member and want to sign the petition, please contact Lou Gullo at Louis.Gullo@ieee.org.

IEEE Senior Member and Fellow Grade

IEEE Phoenix Section Membership Development would like to nominate eligible IEEE Members from the Section to Senior Member and Fellow Grades. Please review the requirements at www.ieee.org for eligibility.

Eligible candidates are requested to send in their resumes to Dr. Vasudeva P. Atluri, Membership Development Coordinator, at vpatluri@ieee.org and Dr. Charles E. Weitzel, Section Chair, at c.weitzel@ieee.org for consideration.

Phoenix Section LinkedIn Group

If you are interested in professional networking and shared Section related updates & discussions join the [IEEE Phoenix Section Group on LinkedIn](#). Signing up only takes minutes and is free. A job board is available as well.

IEEE Phoenix Section Ventures into Social Media

We have made good progress in our Facebook page so far.

We have 43 people who Like this page (subscribers). Our first goal is to reach 500 likes by end of this year.

The activity chart shows that between 100 to 160 people are accessing this page every week.

You can access the web page three ways:

Use the URL: <https://www.facebook.com/IEEEPhoenixSection>

Click on the Facebook logo link from IEEE Phoenix section home page. <http://sites.ieee.org/phoenix/>

Search for IEEE Phoenix Section from your Facebook page.

We need following help.

1. Each of you access the IEEE Phoenix Section Web page and click on "Like" hyperlink.
2. Go on the Friends section of the page and "Invite Your Friends." Once you click on Invite button, it will get your email contact list. Your facebook contact list will already be populated with your Facebook friends and you can simply click the Invite button next to their name. Please invite as many friends as you can.
3. Provide me the contents for posting on a regular basis - meeting/ event announcements, Event pictures, Videos.
4. Start some discussion topics under - Status section.

If you have any questions, please call me.

Thanks for you help in advance.

I will send out regular reminders as well to make sufficient progress.

Vivek Gupta
Pace Chair
IEEE Phoenix Section

480-734-0266

IEEE Membership Grade Advancement

IEEE Phoenix Section Executive Committee encourages all to apply for advancement in membership grade to Senior Member and Fellow Grade. Please review the requirements at www.ieee.org. Please contact IEEE Phoenix Section Membership Development Chair, Dr. Vasudeva P. Atluri, at vpatluri@ieee.org for additional information.

Enhanced Senior Member Application Launched

Effective 29 July 2011, IEEE Admission and Advancement launched a [new Senior Member Application](#). The new application includes numerous enhancements, based on feedback from volunteers and members, including:

- New user friendly format / design
- Secure environment (need IEEE Web account)
- Ability to save application in “draft” form
- Ability to upload resume or Curriculum Vitae (up to 3 MB)
- Applicant can view application online
- Applicant can view status of requested reference forms
- References will be notified by email to provide applicant reference
- References will have the ability to view their completed reference form(s)
- Real time application status

The goal is to provide prospective Senior Members with an easy to use and intuitive interface, while streamlining internal operations at the same time. [View the new Senior Member application](#).

IEEE Member's Benefits

IEEE-USA's Free E-Books to Members

IEEE-USA's Free E-Books to Members Promote Fostering an Innovation Culture & Building a Relationship with Your Elected Officials

March Free E-Book

WASHINGTON (4 March 2014) -- In March, IEEE-USA E-Books is offering “Doing Innovation -- Creating Economic Value: Book 3 -- Fostering an Innovation Culture” free to IEEE members.

In this e-book, author Gerard H. “Gus” Gaynor, a retired 3M director of engineering, talks about steps an organization can take to develop a workplace culture that encourages innovation. He notes that cultures develop over time, and it takes time and effort to develop a culture supportive of innovation.

Gaynor writes that, “The answer in one sense is very simple: find the right people; provide the freedom to act, but with discipline; implement effective and supportive management practices; provide the organizational resources and infrastructure; and promote an organizational attitude that focuses on achieving results.”

Featured topics include, among others: Encouraging Professional Attitudes; Optimizing People Performance; Organizational Culture; and Developing Appropriate Management Practices.

“Fostering an Innovation Culture” can be downloaded at <http://www.ieeeusa.org/communications/ebooks/files/108vskj2i/Doing-Innovation-Book-3.pdf> for free to IEEE members. The non-member price is \$9.99.

April Free E-Book

In April, IEEE-USA E-Books will offer “Communicating with Congress -- How to Build a Relationship with Your Elected Officials.”

Author Russell Harrison, IEEE-USA senior legislative representative, grassroots activities, offers insight into effective communication techniques to use when meeting with members of Congress. He encourages readers to be activists, and gives guidance on writing letters to Congress and having a successful congressional visit.

This e-book will be available free to members in April.

To purchase IEEE members-only products, and to receive the member discount on eligible products, members must log in with their IEEE Web account.

Call for Authors

IEEE-USA E-books seek authors to write an e-book, or an e-book series, on career guidance and development topics. If you have an e-book idea that will benefit members on a particular topic of expertise, email your proposal to IEEE-USA Publishing Manager Georgia C. Stelluto at g.stelluto@ieee.org, and IEEE-USA E-Book Chair Gus Gaynor at g.gaynor@ieee.org.

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 206,000 engineering, computing and technology professionals who are U.S. members of IEEE.

Web: www.ieeeusa.org

Facebook: www.facebook.com/ieeeusa

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Join IEEE: www.ieee.org/join

Contact: Sharon C. Richardson, Coordinator

IEEE-USA Communications & Publishing

Phone: 1 202 530 8363

E-mail: s.richardson@ieee.org

GoogleApps@IEEE Now Available to IEEE Members

GoogleApps@IEEE is a suite of products offered to IEEE members to enhance peer-to-peer communications and collaboration. The suite of applications includes e-mail, calendaring, contacts, and document sharing along with other collaborative tools. 30G of available cloud storage memory is available for these applications. Learn more about <http://www.ieee.org/googleapps>

GoogleApps@IEEE is available to members at no additional cost, bringing access to:

- A unique IEEE e-mail address (e.g., John.A.Doe@ieee.org);
- Mail forwarding or e-mail inbox (Gmail);
- 30-gigabytes of shared storage (Gmail and Google Drive);
- 99.9 percent up time guaranteed by Google;
- Advertisement-free Gmail;
- Files stored in the cloud for easy sharing and access from anywhere via Google Drive.