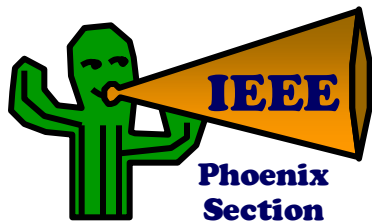


The Valley Megaphone

Newsletter of the
**Institute of Electrical and
Electronics Engineers, Inc.,
Phoenix Section**
May 2014,
Volume XXVIII, Number 5



Executive Committee 2014

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barbara.mcminn@aps.com

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In this Issue of the Valley Megaphone: Table of Contents

U – News.....	2
Student Branches	2
IEEE Fort Huachuca Section Joint Social	3
Upcoming Conferences.....	4
CPMT Phoenix Chapter.....	5
Communication Society.....	6
Computer Society.....	7
Power & Energy Society.....	9
Waves & Devices	10
Life Member Affinity Group.....	11
IEEE Young Professional.....	13
Women in Engineering.....	14
2014 IEEE Phoenix Section News	15
Phoenix Section Executive Committee Meeting....	15
Reliability Chapter Forming	15
Phoenix Section LinkdIn Group.....	16
IEEE Phoenix Section on Social Media.....	16
IEEE Membership Grade Advancement	17
Enhanced Senior Member Application Launched...17	
IEEE Member's Benefit.....	17

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

Signal Processing & Communications

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EMBS Chapter

TBD

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Teacher-In-Service

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Women In Engineering

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Young Professionals

Shafiul "Jacky" Islam 520-245-9010
shafiul.islam@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: Niranjana 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



IEEE Fort Huachuca Section

Is Hosting a Joint Social and Networking event for the IEEE Sections
in Arizona and New Mexico:

Phoenix, Tucson, Ft. Huachuca, Albuquerque, Los Alamos, Alamogordo-Holloman

10:00 A.M. - 4:00 P.M. Saturday, June 7, 2014

LOCATION – Kartchner Caverns, Rte. Az-90, south of Benson

(Map: <https://www.google.com/maps/place/Kartchner+Caverns/>)

Admission: The event is free. Lunch is provided to attendees and guests, courtesy of the Ft. Huachuca Section.

Participants are encouraged to schedule cave tours on their own.
The first 25cave tours scheduled will be reimbursed by the Ft. Huachuca Section

Complete details and registration link on vtools at:

https://meetings.vtools.ieee.org/meeting_view/list_meeting/23867



Upcoming Conferences in April in Region 6

There is a grand total of 8 conferences in Region 6 during the month of April. Five are in California and one each in Nevada, Hawaii, and Idaho.

Please mark your calendars for May 19 to 23 as the IEEE International Parallel and Distributed Processing Symposium (IPDPS) is going to be held at the Arizona Grand Resort which is across the street from the Fry's Electronics on Baseline.

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	iamgoinbiking@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
Website Co-Chair	Huiyang Fei		Huiyang.H.Fei@ieee.org
Website Co-Chair	Bharat Penmecha	(480) 552 2511	bharat.penmecha@ieee.org

Tentative Schedule for Monthly Seminars

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

May 8 – Dr. Glen Daves – Trends in Automotive Packaging

June 4 – Dr. Ravi Mahajan – Direction in Advance Microelectronic Packaging

July (Tentative) – Dr. Darrel Frear – Packaging Needs for Automotive Radar

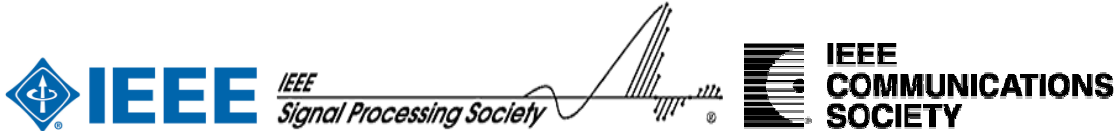
September – Dr. Jon Harris – Packaging for LED Lighting

October – Dr. Stuart Bowden – Solar Cells

November – Dr. Jaynal Molla – Plating for Electronic Packaging

Additional Activities – Save the Date - Tutorial and Workshop

Phoenix section is planning to hold a Half Day tutorial on the topic of **Reliability Engineering** in early Fall. In addition we are working with other Society Chapters to hold a workshop on **Emerging Device and Packaging Technology** in late November or Early December. Please wait for announcements in near future



SP-COM Phoenix Chapter

Please join our 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>

We are limiting member permissions only to receiving emails posted by the group owner - the SP-COM chapter chair.

Canceled May 2nd student seminar by Revak Tyagi “Performance Models for LTE-Advanced Random Access”

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

We continue to post meeting notices on IEEE vtools at (<https://meetings.vtools.ieee.org/main>)



Phoenix Chapter of the IEEE Computer Society

May, 2014

News

- We continue to assemble our programs for 2014. Chapter meeting dates for the remainder of 2014 are listed below. Mark your calendars to save the dates:
 - May 7th at DeVry University (see below)
 - July 2nd at DeVry University
 - Sep 3rd at DeVry University
 - Nov 5th at DeVry UniversityDetails of the program for these chapter meetings will be published as the speakers are confirmed.
- On March 5th an IEEE Distinguished Visitor, Dr. Hal Berghel from the University of Nevada, Las Vegas, presented “**The Digital Assault on Privacy**” at the chapter meeting at DeVry University. The presentation was extremely interesting and contemporary. Feedback has been positive.

Future Events

- May 7th – Chapter meeting, DeVry University, presenter Steve Smiley, Intel Corporation, “**Solid State Drives (SSDs) – What’s Inside?**”

“Solid State Drives (SSDs) – What’s Inside?”

Moore’s Law, the advancement of semiconductor process technology, along with computer architecture evolution, has raised computing to unprecedented levels for individuals, institutions and corporations. How do we feed these hungry compute beasts with enough data to keep them satisfied as well as feed our own insatiable appetites for data and content? Storage technologies using NAND Flash hold the key.

We’ll talk about the limitations of HDDs and the value proposition of SSDs. We will then walk through the basics of NAND Flash, discussing the physical structures and the concepts behind SLC (Single Level Cells) and MLC (Multi-Level Cells). We’ll look at SSDs from a systems perspective and the major technological building blocks that compose an SSD (ASIC controllers, FW, DRAM) and how these things work together to mitigate some of the effects/errors inherent in solid state storage. Finally, we’ll discuss some of the emerging trends in storage and how SSD’s are shaping these trends.

Steve Smiley

Since graduating from Arizona State University in 1984, Steve Smiley has worked at Intel Corporation, holding various engineering positions from Product/Test Engineering, VLSI chip design and Software Developer. Since 1997 Steve has managed Software/Firmware engineering teams for a variety of Intel business units, delivering production firmware, drivers and software building blocks in support of Intel products. Recently Steve has held positions delivering Audio, Video and Security-based FW and drivers for Intel SOCs (System On Chip). Currently, Steve is the Director of DataCenter Software Engineering for Intel's Nonvolatile Solutions Group where his teams deliver SSD firmware, NVMe Drivers and other host-based SW components in support of storage usage models.

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)



**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

May Luncheon Meeting

Date: Thursday May 15th, 2014
Time: 11:30 am: Registration
11:45: Lunch
12am – 1pm: Program
Location: Bobby Q's
8501 27th Ave. Phoenix, AZ
Speaker: Ronald H. Lunt
Topic: Central Arizona Project Power Operations
Cost: \$5
Reservations: Contact Nicole at (602) 470-0400 or submit your name here:
<http://ewh.ieee.org/soc/pes/phoenix/lunch.php>

IEEE Phoenix Valley Megaphone May 2014

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS

WAVES AND DEVICES - Phoenix Chapter

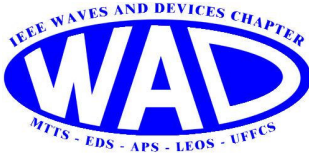
Meeting Free & Open to Non-IEEE Members

6:00 to 7:00PM, Thursday, May 22, 2014

Freescal Semiconductor

2100 E. Elliot Rd., Tempe, AZ

Group Conference Room



On-Chip Antennas for Multi-Chip RF Data Transmission

Professor Kathleen L. Melde, IEEE Fellow

Department of Electrical and Computer Engineering, University of Arizona, Tucson, USA

Abstract

The full promise of multicore systems cannot be achieved unless efficient (both in energy and time) communications between cores is realized. This talk will present some of the recent developments to overcome package design challenges – providing a hybrid computing architecture with implemented 60 GHz antennas as the high efficient wireless interconnect which could generate over 10 Gbps bandwidth on the data transmissions. The short links between the router and the adjacent cores use physical transmission lines, while longer link communications between routers are done wirelessly. The work compares the design and performance of using a single antenna or a small reconfigurable antenna array. The antennas utilize a periodically-patched AMC structure associated with the ground-shielded conductor in order to enhance the antenna's impedance matching bandwidth. This work leverages from smart antenna methods that have demonstrated capacity improvements in wireless communications, yet the router locations in the multi core computer are in a fixed location.

Biography



Kathleen L. Melde is a Professor in Electrical and Computer Engineering Department, University of Arizona, Tucson, AZ, USA and a Fellow of the IEEE. She received the B.S. degree from California State University, Long Beach, CA, the M.S. degree from California State University, Northridge, CA, and the Ph.D. degree from University of California, Los Angeles, CA, all in electrical engineering. She was with the Radar Systems Group, Hughes Electronics, El Segundo, CA, from 1985 to 1996. Her current projects include tunable RF front ends for cognitive radio, high-speed electronics packaging, on chip antennas, and computational photovoltaics. She has published over 90 publications and has co-authored five U.S. patents. Her current research interests include applied electromagnetics, antenna theory and design, and microwave circuit design.

Date: Thursday, May 22, 2014

Time: 6:00-7:00 PM Presentations (Pizza will be served following the Seminar)

Location: Goldwater Center, GWC487, Arizona State University, [650 E. Tyler Mall, Tempe, AZ](#)

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/>



Technical & Administrative

Meeting May 13, 2014

Program Presentation: “IEEE LIFE MEMBER TOUR EXPERIENCES”

Discussion of how the tours work and experiences during the past 4 years of tours to England & Scotland, Japan, Eastern Canada, and Panama.

Presenter: David Onstad

David worked in electric power for 30 years with the US Bureau of Reclamation, the Western Area Power Administration and the Arizona Power Authority. He has volunteered for about 20 design teams during the past 15 years performing designs for missionaries in other countries who need to have schools, hospitals, children’s homes and churches built to further their programs. He is a member of the Phoenix LMAG.

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 RSVP if attending to the Secretary - Tom Lundquist e-mail Tom.Lundquist@ieee.org at least 5 days before the meeting (Ron Sprague not available). 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 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)



March 29, 2014, Region 6 Southwest Area Meeting and Officers Meeting

Shafiul “Jacky” Islam did a presentation to provide an overview of:

- Major of changes over transition from IEEE GOLD to IEEE Young Professionals;
- IEEE Young Professionals Phoenix Section Officers;
 - Succession Plan effective 2015: Jennifer is going to be Jacky’s successor;
- IEEE Young Professionals Phoenix Section key events in 2013;
- Jacky’s perspectives/idea on:
 - Challenges in IEEE engagement right out of school;
 - Why to be part of IEEE: Networking, Empowerment, and Professional Development opportunities;
 - Applying IEEE leadership experiences towards MBA / Executive MBA (in future).
- Ashley’s idea on paper clip helicopters, which was super hit with kids on Engineer’s Day when we represented Phoenix Section.
- Tentative Event Plans for 2014;

During breaks and commute, we also held officer’s meeting to discuss succession plan effective 2015 and event plans for Fall 2014.



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 various activities during the National Engineering week. WIE engineers visited the St. John Bosco Catholic School, Awahatukee and gave a talk about careers in engineering to 8th grade science class students.



WIE representatives anchored to arrange a speaker session for the month of April, Dr. Celeste Fralick, senior technologist and Principal engineer from Intel Corporation is giving a talk on 'Intelligent Analytics' on the 29th of April. Harvard Business Review stated that being a Data Scientist is the Dream job of the 21st century. In this talk, Dr. Fralick will discuss why the Internet of Things has heated up the need to be more analytic savvy, and the secrets of a Data Scientist. What does "analytics" mean? What's "Big Data"? Why should you care? What do you need to know to survive without turning into a Data Scientist? Join Dr. Fralick from the Internet of Things Solutions Group as she provides the answers to these questions as well as a primer for Analytics 101.

Link to the talk session and registration can be found here at https://meetings.vtools.ieee.org/meeting_view/list_meeting/25361

Date: 29-April-2014

Time: 05:30PM to 07:00PM (1.50 hours) **All times are:** US/Arizona

Location: Goldwater Center for Science & Engineering,

Room Number: GWC 487 Tempe, Arizona United States

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.

Celeste Fralick is a senior technologist and Principal Engineer at Intel Corporation. She is currently focused in strategic data analytics and its architecture in the embedded, "Internet of Things" markets, and has been a technical leader in Intel's biotech strategies, product qualification, and life cycle programs. Active in various industry boards, journal editorial staffs, and consortiums, her 34 year experience spans semiconductor process and product development, regulatory, medical device, analytics, and quality /reliability technology. Celeste holds a Ph.D. in Biomedical Engineering from Arizona State University, with a concentration in predictive analytics and neuroscience

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:



 **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, May 3rd, 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 – Forming Reliability Chapter **Reliability Chapter Forming**

The IEEE Reliability Society (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 or interested in Reliability Society, 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

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.

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

May Free E-Book

WASHINGTON (30 April 2014) -- IEEE-USA E-Books is offering “Educating 21st Century Engineers” as a free member benefit in May. A career planning guide follows in June.

IEEE Fellow Dr. James Gover and Dr. Paul Huray wrote this e-book to raise awareness of the declining interest many U.S. students have in an engineering career. The authors advocate for the federal government to declare engineering a public good, and for corporations to assume a major role in engineering education -- as engineers invent, improve, design and manage the production of technology that drives much of our economy.

“Educating 21st Century Engineers” can be downloaded at <http://www.ieeeusa.org/communications/ebooks/files/may14/vi2n09/Educating-21st-Century-Engineers.pdf> for free to IEEE members. The nonmember price is \$5.99.

June Free E-Book

In June, IEEE-USA will offer “Career Planning Guide: How to Achieve Greater Satisfaction and Impact at Work.”

This e-book challenges readers to analyze themselves and their current job by completing a self-assessment, writing down their likes and dislikes and listing what their ideal job would be. The reader is then asked to think about their talents and accomplishments and prepare vision statements.

After reading this, you will have a ready reference of knowledge to help you achieve greater satisfaction and impact on the job.

This e-book will be available free to members starting 1 June.

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 Communications Committee Chair Gus Gaynor at g.gaynor@ieee.org.

IEEE-USA serves the public good and promotes the careers and public policy interests of more than 205,000 engineering, computing and technology professionals who are U.S. members of IEEE.

Contact: Sharon C. Richardson, Coordinator
IEEE-USA Communications & Publishing
Phone: 1 202 530 8363
E-mail: s.richardson@ieee.org

App-E-Feat Mobile App Development Contest to Benefit Humanity

WASHINGTON (7 May 2014) -- The deadline to enter the IEEE-USA-sponsored mobile app development contest is 19 May. App-E-Feat is designed to help solve a local or global problem and positively impact people’s lives. <http://www.appfeat.org/contest>

Contestants 13- to 17-years-old are asked to sketch or describe an app. Writing actual app code is required of those 18 and older. A first-place winner, as selected by a panel of judges, in each of the two categories will win an iPad Air tablet computer. A \$250 Amazon gift card will go to both second-place finishers, while those placing third will receive a \$150 Amazon gift card.

Winners will also have the opportunity to work with an IEEE mentor to help them develop their technology skills and explore a high-tech career.

“We think the chance to work with a technology professional is a great benefit,” said IEEE-USA K-12 STEM Literacy Committee co-chair Dusty Fisher, who helped create the contest. “Because IEEE is a worldwide membership organization, we have access to some of the world’s foremost technologists. So it is a natural fit for us to offer winners the opportunity to learn from a mentor.”

Winners will be notified 20 June.

The app contest is part of a greater initiative IEEE is sponsoring to match members with nonprofits around the world to develop apps for the advancement of humanity. Ideas include apps to help fishermen get the best price for their catch, tips for farmers to increase their yield and apps with information on meeting medical and basic living needs after a natural disaster.

App-E-Feat, the brainchild of IEEE Fellow Dr. Karen Panetta, is IEEE’s contribution to the Clinton Global Initiative, which convenes leading global organizations to implement new solutions to some of the world’s most difficult problems.

“These organizations have their hands on the pulse of important humanitarian efforts,” said Panetta, IEEE-USA vice president of communications and public awareness. “We are looking to match them with IEEE members who can help them deploy technology to advance their work.

“We’re creating a powerful synergy that’s unprecedented between a nonprofit and IEEE.”

IEEE-USA serves the public good and promotes the careers and public policy interests of more than 205,000 engineering, computing and technology professionals who are U.S. members of IEEE.

Web: www.ieeeusa.org

Facebook: www.facebook.com/ieeeusa

Twitter: www.twitter.com/ieeeusa

Benefits of IEEE membership: www.ieee.org/join

Contact: Chris McManes
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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.