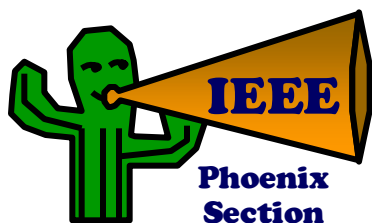


# The Valley Megaphone

Newsletter of the  
**Institute of Electrical and  
Electronics Engineers, Inc.,  
Phoenix Section**  
March 2013,  
Volume XXVII, Number 3



## Executive Committee 2013

### Chair

Charles Weitzel, 480-292-0531  
[c.weitzel@ieee.org](mailto:c.weitzel@ieee.org)

### Vice Chair

Barbara McMinn 602-371-6383  
[barbara.mcminn@aps.com](mailto:barbara.mcminn@aps.com)

### Secretary

Bruce Ladewig, 480-620-9291  
[bruceladewig@ieee.org](mailto:bruceladewig@ieee.org)

### Treasurer

Surinder Tuli, 480-554-8275  
[Surinder.tuli@gmail.com](mailto:Surinder.tuli@gmail.com)

### Past President

Ralph Hogan, 480-774-8227  
[rhogan@ieee.org](mailto:rhogan@ieee.org)

### Publicity

Mahesh Shah, 480-544-9438  
[mkshah@ieee.org](mailto:mkshah@ieee.org)

### PACE

Vivek Gupta, 480-734-0266  
[vmgupta@msn.com](mailto:vmgupta@msn.com)

### Membership

Vasudeva P. Atluri,  
480-227-8411  
[vpatluri@ieee.org](mailto:vpatluri@ieee.org)

### Student Activities

S.Diane Smith, 602-749-4601  
[sdianesmith@computer.org](mailto:sdianesmith@computer.org)

### Conferences

Guoliang Xue, 480-965-6218  
[xue@asu.edu](mailto:xue@asu.edu)

### Awards

Vasudeva P. Atluri,  
480-227-8411  
[vpatluri@ieee.org](mailto:vpatluri@ieee.org)

### Inter-Society

Mike Andrews, 480-991-1619  
[m.andrews@ieee.org](mailto:m.andrews@ieee.org)

### Webmaster

Krishna Bharath 480-552-8913  
[kbharath@ieee.org](mailto:kbharath@ieee.org)

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IEEE Phoenix Section on-line updates can be found at <http://ewh.ieee.org/r6/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](mailto:mkshah@ieee.org) for inclusion in the Section Calendar.

The IEEE Banquet pictures are up, see <http://ewh.ieee.org/r6/phoenix/index.php>

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

## Chapters

### Signal Processing & Communications

Pavan Turaga  
[pturaga@asu.edu](mailto:pturaga@asu.edu)

### Computer Society

Jerry Crow  
[jerry.crow@computer.org](mailto:jerry.crow@computer.org)

### CPMT Society

Vasudeva P. Atluri  
480-227-8411  
[vpatluri@ieee.org](mailto:vpatluri@ieee.org)

### Education Chapter

Martin Reisslein, 480-965-8593  
[reisslein@asu.edu](mailto:reisslein@asu.edu)

### EMBS Chapter

TBD

### EMC Society

Harry Gaul, 480-441-5321  
[harry.gaul@ieee.org](mailto:harry.gaul@ieee.org)

### GOLD

Shafiul "Jacky" Islam 520-245-9010  
[shafiul.islam@intel.com](mailto:shafiul.islam@intel.com)

### Power & Energy Society

Kory Hedman  
[Kory.Hedman@asu.edu](mailto:Kory.Hedman@asu.edu)

### Solid State Circuits

Mohamed Arafa  
[mohamed.arafa@ieee.org](mailto:mohamed.arafa@ieee.org)

### Teacher-In-Service

Rickie Currens  
[Rickie.Currens@att.net](mailto:Rickie.Currens@att.net)

### Waves & Devices Society

Steve Rockwell  
[steve.rockwell@ieee.org](mailto:steve.rockwell@ieee.org)

### Life Members

Barry Cummings  
[abarrycummings@gmail.com](mailto:abarrycummings@gmail.com)

### Women In Engineering

Shamala Chickamenahalli  
[shamala.chickamenahalli@intel.com](mailto: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](mailto:sdianesmith@computer.org)  
Student Activities Chair

## **Student Branches**

**ASU Main, Engineering**  
Chair: Ahmet Durgun,  
480-371-7743, [adurgun@asu.edu](mailto:adurgun@asu.edu)  
Advisor: Cihan Tepedelenlioglu,  
480-965-6623, [cihan@asu.edu](mailto:cihan@asu.edu)

**ASU Main, Computer Society**  
Chair: TBD  
Advisor: Guoliang Xue  
480-965-6218, [xue@asu.edu](mailto:xue@asu.edu)

**ASU Polytechnic**  
Chair: TBD  
Advisor: TBD

**DeVry, Phoenix**  
Chair: Lori Renaldi  
[lorirenaldi@computer.org](mailto:lorirenaldi@computer.org)

Advisor: Diane Smith  
[dsmith2@devry.edu](mailto:dsmith2@devry.edu)

**DeVry, Computer Society**  
Chair: TBD  
Advisor: Diane Smith  
[dsmith2@devry.edu](mailto:dsmith2@devry.edu)

**NAU, Engineering**  
Chair: TBD  
Advisor: Niranjana Venkatraman  
[v.niranjana@ieee.org](mailto:v.niranjana@ieee.org)

**Embry-Riddle, Prescott**  
Chair: Tim Lemm  
[timothy.lemm@erau.edu](mailto:timothy.lemm@erau.edu)  
Advisor: John E. Post  
[postj@erau.edu](mailto:postj@erau.edu)

## **U – Newsbytes**

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

**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](mailto:sdianesmith@computer.org)

- View pictures from the MicroMouse contest at the Southwest Area Spring 2010 meeting at <http://picasaweb.google.com/ieeegoldphx/2010IEEEESWASpringMeeting> (photography by David Huerta, GOLD Affinity Group Chair)



# IEEE

## Phoenix Section Student Paper Contest

### Submission Deadline Change

The IEEE Student Paper Contest offers the undergraduate IEEE Student member opportunities to exercise and improve both written and verbal communication skills. Throughout an engineer's career, the 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. Since the paper contest primary function is to improve the engineering student's communicative skills, no student should be discouraged from entering the contest due to a false requirement of technical sophistication.

This 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). Briefly, the type-written papers are 15 pages maximum, 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](mailto:sdianesmith@computer.org) by **6 p.m. on March 23, 2013**.

The oral presentations are 15 minutes plus a 5-minute question & answer period. The oral portion of the contest will be held the morning of Saturday, **April 6, 2013**. A computer with projector will be provided for the contestants to use, since PowerPoint slides are the recommended approach.

The local cash awards for the paper contest winners are (1) First Place – \$300, (2) Second Place – \$200, and (3) Third Place – \$100. The 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 in Spring 2013. If you have any questions, please contact:

Dr. S. Diane Smith IEEE Phoenix Section Student Activities Chair E-mail: [sdianesmith@computer.org](mailto:sdianesmith@computer.org)

# Signal Processing & Communications Society

Phoenix Chapter of IEEE Signal Processing Society and  
Communications Society



Please check out the call for papers of

**TWELFTH ANNUAL WIRELESS TELECOMMUNICATIONS SYMPOSIUM (WTS 2013)**

April 17-19, 2013, Phoenix, Arizona USA

Technical Co-Sponsor: IEEE Communications Society

Call for papers WTS 2013 can be found at [www.csupomona.edu/wtsi](http://www.csupomona.edu/wtsi)

WTSI General Chair: Steven Powell

Please contact Chapter Chair Pavan Turaga ([pturaga@asu.edu](mailto:pturaga@asu.edu)) to volunteer or propose a speaker for upcoming meetings.



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



## **CPMT- Packaging and Manufacturing Technology Society**

**IEEE CPMT Society Phoenix Chapter is seeking volunteers to serve as Chapter Officers for 2013.**

IEEE CPMT Society Phoenix Chapter is seeking volunteers to serve as Chapter Officers for 2013. One has to be a member of IEEE CPMT Society to serve as the IEEE CPMT Society Phoenix Chapter Officer. If interested, please contact Dr. Vasudeva P. Atluri, Chair, IEEE CPMT Society Phoenix Chapter, by sending an email to [vpatluri@ieee.org](mailto:vpatluri@ieee.org).

# Power & Energy Society



IEEE Power and Energy Society  
Phoenix Chapter

<http://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](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](http://www.ieee.org/membership_services/membership/senior/index.html)

## March 2013 Luncheon Meeting

Date: Thursday, March 21, 2013  
Time: 11:30 am - 11:45: Registration  
11:45: Lunch  
12:15 pm: Program  
Location: SRP PERA Club  
1 E Continental Dr  
Tempe, AZ  
Map: <http://ewh.ieee.org/soc/pes/phoenix/images/PERAMAP.pdf>  
Speaker: Representative from Quantum Energy and Sustainable Solar Technologies (QESST) at ASU.  
Topic: Solar Cell Technology  
Cost: \$5.00 (No cost if you are a college student)  
Reservations: Contact Nicole at (602) 470-0400 or submit your name here:  
<http://ewh.ieee.org/soc/pes/phoenix/lunch.php>  
The reservation deadline is NOON on Monday, March 18, 2013.

# Solid State Circuits Society



INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS



***New Updates coming soon***

# EMC Society



***New Updates coming soon***



# Life Member Affinity Group



## Technical Meeting May 14, 2013

**Topic:** TBD

**When:** Tuesday, May 14, 2013 11:00am – 1:00pm, Registration fee is \$15. This fee will include lunch provided by the PERA Club.

### AFFINITY GROUP MEETING

**Where:** SRP's **PERA Club** Bighorn Room,  
1 East Continental Drive, Tempe, AZ  
West of 68th St., ½ mile south of McDowell Road

**RSVP:** Please respond to Program Chair, Ronald Sprague by email:  
[r.sprague@ieee.org](mailto:r.sprague@ieee.org) at least 5 days before the meeting.

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](mailto: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](http://www.ieee.org/web/volunteers/mga/home/life_members_committee/index.html)

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

### Future Technical Meetings:

- Tuesday, May 14, 2013 SRP PERA CLUB
- Tuesday, October 15, 2013 SRP PERA CLUB
- Tuesday, December 3, 2013 SRP PERA CLUB

### Officers:

Chair	Rao Thallam	<a href="mailto:Rao.Thallam@srpnet.com">Rao.Thallam@srpnet.com</a>
Vice Chair	Michel Ebertin	<a href="mailto:Michel@ebertin.net">Michel@ebertin.net</a>
Secretary	Tom Lundquist	<a href="mailto:Tom.Lundquist@ieee.org">Tom.Lundquist@ieee.org</a>
Treasurer	Leslie Daviet II	<a href="mailto:lesdaviatii@cs.com">lesdaviatii@cs.com</a>
Program	Ronald L. Sprague. P.E.	<a href="mailto:r.sprague@ieee.org">r.sprague@ieee.org</a>
Past Chair	A. Barry Cummings	<a href="mailto:Barry.Cummings@srpnet.com">Barry.Cummings@srpnet.com</a>



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 throughout Engineers' week. WIE Engineers took the training hosted by the E-week Phoenix team at ASU SkySong in Scottsdale on February 14<sup>th</sup>. They visited area schools describing what engineering is all about to third and fourth grade students at Horizon Community Learning Center in Phoenix and to third and eighth grade students at St. John Bosco Catholic School in Phoenix on February 21<sup>st</sup>. 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](mailto:Frederick.tack@gmail.com). The E-week activities were coordinated via the webpage at <http://eweek-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](mailto:Shamala.Chickamenahalli@intel.com))
- Vice-Chair: Joy Harris ([joyelle.j.harris@intel.com](mailto:joyelle.j.harris@intel.com))
- Secretary / Publicity: Diane Watkins ([diane.watkins@srpnet.com](mailto:diane.watkins@srpnet.com))
- Treasurer: Diane Smith ([diane@web-oasis.com](mailto:diane@web-oasis.com))
- Web Master: Audrey Skidmore ([ASkidmore@azmag.gov](mailto:ASkidmore@azmag.gov))
- Membership: Lesley Polka ([lesley.a.polka@intel.com](mailto:lesley.a.polka@intel.com))
- Region 6 Liaison: Barbara McMinn ([barbara.mcminn@aps.com](mailto: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 Diane Watkins ([diane.watkins@srpnet.com](mailto:diane.watkins@srpnet.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](http://www.ieee.org/membership_services/membership/women/women_about.html).

# Computer Society



## Phoenix Chapter of the IEEE Computer Society

March, 2013

### News

- Jerry Crow gave a presentation on Windows Forensics to the DeVry University student chapter of the IEEE Computer Society on January 18<sup>th</sup>.
- Our March meeting will be on the second Wednesday (March 13<sup>th</sup>) and will be at ITT Technical Institute, 5005 S Wendler Drive, Tempe, AZ. This location is directly east of the Fry's Electronics Store in Tempe; it's on the NW corner of I-10 and Baseline Road.

### Future Events

- March 13<sup>th</sup> (**date and location change**) – Chapter meeting, ITT Technical Institute, 5005 S Wendler Drive, Tempe, AZ; speaker: Jay Cash, IT Manager, Prime Solutions Group, Inc.; topic: "Development and Integration of a Production Server Using Virtual Machine Software"
- May 1<sup>st</sup> – Chapter meeting, DeVry University; speaker, TBD.
- July 10<sup>th</sup> – (date change) Chapter meeting, DeVry University, speaker TBD.
- September 4<sup>th</sup> – Chapter meeting, DeVry University, speaker TBD.

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:

Jerry Crow ([jerry.crow@computer.org](mailto:jerry.crow@computer.org))  
Brad Morantz ([bradscientist@ieee.org](mailto:bradscientist@ieee.org))  
Audrey Skidmore ([askidmore@computer.org](mailto:askidmore@computer.org))  
Diane Smith ([sdianesmith@computer.org](mailto:sdianesmith@computer.org))

**INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS  
WAVES AND DEVICES - Phoenix Chapter***Meeting Free & Open to Non-IEEE Members***6:00 to 7:30PM, Thursday, February 28<sup>th</sup>, 2013****Arizona State University  
Goldwater Center, GWC487, 650 E. Tyler Mall, Tempe, AZ****Multiphysics Modeling of High-Power Microwave Transistors  
Dr. Peter Aaen, Freescale Semiconductor****Abstract**

High-power transistors for wireless infrastructure applications have become increasingly complex over the past two decades; from a single die mounted in the package to sophisticated multichip modules. The transistor has total gate widths of several hundred millimeters, achieved by connecting many gate fingers in parallel. In-package matching networks, comprising several bond-wire arrays connecting metal-oxide semiconductor (MOS) capacitors, and other passive circuit elements, used to create the matching networks, completes the design. As communications systems become more sophisticated, these transistors are required to operate at ever-higher frequencies and output powers, all while meeting stringent linearity requirements. As a result, design methodologies are becoming increasingly complex and they require new comprehensive modeling strategies. This presentation will provide a comprehensive overview of the simulation and modeling methodologies used to model these devices. The talk will review recent advances in multiphysics modeling where a comprehensive description of the packaged transistor is created by combining electromagnetic and thermal simulations with nonlinear electrothermal transistor models in harmonic-balance circuit simulations. This approach enables a greater understanding of the internal operation of the power transistor and reveals new avenues for performance optimization.

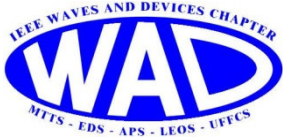
**Biography**

Peter H. Aaen received the B.A.Sc. degree in Engineering Science and the M.A.Sc. degree in Electrical Engineering, both from the University of Toronto, Toronto, ON., Canada, and the Ph.D. degree in Electrical Engineering from Arizona State University, Tempe, AZ, USA, in 1995, 1997 and 2005, respectively. He is the Manager of the RF Modeling and Measurement Technology team of the RF Division of Freescale Semiconductor, Inc, Tempe, AZ, USA. His areas of expertise include calibration techniques for microwave measurements, development of package modeling techniques, development of passive and active compact models for the design of microwave power transistors and RFICs, and development of efficient electromagnetic simulation and optimization methodologies for complex packaged environments. His current work focuses on the development and validation of multi-physics based modeling methodologies for high-power and high-frequency electronic devices. He is a Senior Member of the IEEE, a member of the Microwave Theory and Techniques Society, and is an active member of many technical committees including: IEEE Technical Committee (MTT-1) on Computer-Aided Design, technical program committee (TPC) of the IEEE Conference on Electrical Performance of Electronic Packaging and Systems (EPEPS), executive committee member of the Automatic RF Techniques Group (ARFTG), and the IMS TPRC sub-committee for CAD Algorithms and Techniques. Dr. Aaen co-authored Modeling and Characterization of RF and Microwave Power FETs (Cambridge University Press, 2007) and has authored over thirty papers, articles and workshops in the fields of electromagnetic simulation, package modeling, and microwave device modeling and characterization.

**Date: Thursday, Feb. 28<sup>th</sup>, 2013****Location: Arizona State University Goldwater Center, GWC487, [650 E. Tyler Mall, Tempe, AZ](#)****Time: 6:00 PM Presentation, Pizza will be served following the Seminar**

For more information, contact:

Steve Rockwell (WAD Chapter Chair) (480) 241-9891  
Vishwa Natarajan (WAD Publicity) (480) 552-1982[steve.rockwell@ieee.org](mailto:steve.rockwell@ieee.org)  
[vishwanath.natarajan@intel.com](mailto:vishwanath.natarajan@intel.com)**WAD Website:** <http://ewh.ieee.org/r6/phoenix/wad/>



INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS  
**WAVES AND DEVICES - Phoenix Chapter**  
**Antennas and Propagation Society Meeting**



*Meeting Free & Open to Non-IEEE Members*

***5:00PM, Wednesday, March 20<sup>th</sup>, 2013***

*Arizona State University, Interdisciplinary Science and Technology Bldg. IV, 4<sup>th</sup> Floor*

**Characterization of Space Shuttle Ascent Debris Based on Radar  
Scattering and Ballistic Properties – Evolution of the NASA Debris Radar  
(NDR) System**

**Dr. Brian M Kent, APS Distinguished Lecturer, AFRL**

**Abstract**

The NASA Debris Radar (NDR) system was developed to characterize debris liberated by the space shuttle (and any follow-on rocket system) during its ascent into space. Radar technology is well suited for characterizing shuttle ascent debris, and is especially valuable during night launches when optical sensors are severely degraded. The shuttle debris mission presents challenging radar requirements in terms of target detection and tracking, minimum detectable radar cross-section, calibration accuracy, power profile management, and operational readiness. The NDR system consists of stationary C-band radar located at Kennedy Space Center (KSC) and two X-band radars deployed to sea during shuttle missions. To better understand the signature of the shuttle stack, Xpatch calculations were generated at C and X band to predict the radar signature as a function of launch time. These calculations agreed very well with measured data later collected. Various sizes, shapes, and types of shuttle debris materials were characterized using static and dynamic radar measurements and ballistic coefficient calculations. The NDR success has led to a new challenge of processing and analyzing the large amount of radar data collected by the NDR systems and extracting information useful to the NASA debris community. Future applications for space situational awareness and space-lift applications will also be discussed.

**Biography**

**Dr. Brian M. Kent**, a member of the scientific and professional cadre of senior executives, is Chief Scientist, Sensors Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio. He serves as the directorate's principal scientific and technical adviser and primary authority for the technical content of the science and technology portfolio. He evaluates the total laboratory technical research program to determine its adequacy and efficiency in meeting national, Department of Defense, Air Force, Air Force Materiel Command and AFRL objectives in core technical competency areas. He also collaborates on numerous interdisciplinary research problems that encompass multiple AFRL directorates, customers from other DOD components, as well as the manned space program managed by NASA. He has significant experience related to the development of multiple USAF aircraft systems, and was a member of the technical staff for the Columbia Accident Investigation Board (CAIB). Dr Kent also spent nearly five years supporting NASA in their “return to flight” activities for Shuttle. Dr. Kent has authored and co-authored more than 90 archival articles and technical reports and has written key sections of classified textbooks and design manuals. He has delivered more than 200 lectures, and developed a special DOD Low Observables Short Course that has been taught to more than 2,000 scientists and engineers since its inception in 1989.. Dr. Kent is also a Fellow of the IEEE, AMTA, and AFRL.

**Date:** **Wednesday, Mar. 20<sup>th</sup>, 2013**

**Location:** **Arizona State University, Interdisciplinary Science and Technology Bldg. IV, Room 492**

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

For more information, contact:

Steve Rockwell (WAD Chapter Chair) (480) 241-9891  
Vishwa Natarajan (WAD Publicity) (480) 552-1982

[steve.rockwell@ieee.org](mailto:steve.rockwell@ieee.org)  
[vishwanath.natarajan@intel.com](mailto:vishwanath.natarajan@intel.com)

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

# 2013 IEEE Phoenix Section Calendar



The calendar is updated by the Vice Chair on a rolling basis.  
TBD

You may access the IEEE Phoenix Section Calendar of Events at:

<http://ewh.ieee.org/r6/phoenix/Calendar.htm>

For inputs and updates to the Calendar, please contact the IEEE Phoenix Section  
Charles Weitzel, 480-292-0531 [c.weitzel@ieee.org](mailto:c.weitzel@ieee.org)

**View or down load the pictures from IEEE Phoenix Section Annual Banquet 2013  
at: <http://ewh.ieee.org/r6/phoenix/index.php>**



## Executive Committee Meeting Phoenix Section

Tuesday, March 5, 2013, 5:45 – 8:00 PM

## 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](http://www.ieee.org). Please contact IEEE Phoenix Section Membership Development Chair, Dr. Vasudeva P. Atluri, at [vpatluri@ieee.org](mailto:vpatluri@ieee.org) for additional information.

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### 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 USA E Book on Transition

### IEEE-USA E-Books to Members in September and October Feature Career Survival and Writing for Success:

IEEE-USA is offering two free e-books to IEEE members the next two months as a special benefit of IEEE membership. In September members can receive “The Best of IEEE-USA Today’s Engineer on Career Survival.” In October, the free featured publication will be “Writing for Success -- An Engineer’s Guide, Volume 1: Designing for Success.” “The Best of Today’s Engineer on Career Survival” is a compilation of career-focused articles from “IEEE-USA Today’s Engineer” that can help you find success in a challenging job market. We all need the ability to survive in a changing world, and engineers need a better awareness about the evolving business ecosystem and what those changes mean. The articles in this e-book will help to increase your situational awareness of the marketplace, which in turn, can help you with career planning and developing sustainable job skills. You’ll also learn how to assess the market and yourself, how to stay competitive, and what steps to take to thrive in the job market. “The Best of Today’s Engineer on Career Survival” can be downloaded at <http://www.ieeeusa.org/communications/ebooks/files/wisao2sf/Best-of-TE-On-Career-Survival-V1.pdf> for free to IEEE members. The nonmember price is \$5.99. The purpose of “Writing for Success -- An Engineer’s Guide, Volume 1: Designing for Success” is to inspire and help engineers to approach their writing tasks with the same confidence and skill they take to the technical problems that confront them -- so that emails, reports, test-plans, and other documents they write are as useful, successful and valued as their engineering efforts. “Writing for Success – An Engineer’s Guide, Volume 1: Designing for Success” will be available for members to download in October.

## **IEEE-USA Government Fellowships:**

2013-2014 IEEE-USA Government Fellowships

Each year, IEEE-USA sponsors three qualified IEEE members to serve as government fellows: one Engineering & Diplomacy Fellow and two Congressional fellows. The fellows spend a year in Washington – from September to August each year – serving as advisers to the U.S. Congress or key U.S. Department of State decision-makers. IEEE-USA's Government Fellowships link engineers with government, providing a mechanism for IEEE-USA members to learn firsthand about the public policy process through personal involvement.

The congressional fellowship consists of an appointment to the personal staff of a U.S. Senator or Congressman, or to the professional staff of a Congressional Committee. For an application Kit for the 2013-2014 Congressional Fellowship Program, visit: <http://ieeusa.org/policy/govfel/congfel.asp>

The State Department fellowship offers an opportunity for an engineer to provide technical expertise to the State Department, and help raise awareness of the value of engineering input while learning about and contributing to the foreign policy process. For an application Kit for the 2013-2014 Engineering & Diplomacy (State Department) Fellowship Program, visit:

<http://ieeusa.org/policy/govfel/state.asp>

The postmark application deadline for 2013-2014 Fellowships is 8 February 2013. For more information, visit: <http://ieeusa.org/policy/govfel/congfel.asp>



## **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.

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