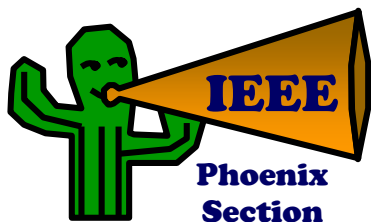


# The Valley Megaphone

Newsletter of the  
**Institute of Electrical and  
Electronics Engineers, Inc.,  
Phoenix Section**  
January, 2015  
Volume XXIX, Number 1



## Executive Committee 2014

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## In this Issue of the Valley Megaphone: Table of Contents

(Please Click on the heading below to go directly to that page)

U – News .....	2
Student Branches .....	2
Phoenix Section Annual Banquet.....	3
Upcoming Conferences.....	5
MTS Call for Papers.....	6
IMS-2015.....	7
CPMT Phoenix Chapter.....	8
Communication Society.....	9
Computer Society.....	10
Power & Energy Society.....	11
Waves & Devices .....	12
Life Member Affinity Group.....	13
IEEE Women in Engineering .....	15
IEEE Young Professional.....	16
IEEE Phoenix Section News .....	17
Phoenix Section Executive Committee Meeting.....	17
Phoenix Section LinkdIn Group.....	18
Phoenix Section on Social Media.....	18
IEEE Membership Grade Advancement .....	19
IEEE Member's Benefit.....	19

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> and on Facebook at:  
<https://www.facebook.com/IEEEPhoenixSection>

Please send announcements for the Valley Megaphone to Mahesh Shah at [mkshah@ieee.org](mailto: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)**

**Please Register for  
Phoenix Section Annual  
Banquet on February 7, 2015  
5:30 PM  
Details on Page 3**

## 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

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

### Education Chapter

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

### EMBS Chapter

TBD

### EMC Society

Brett Gassaway, 480-926-3100  
[brettg@compliancetesting.com](mailto:brettg@compliancetesting.com)

### Power & Energy Society

Craig Smith  
[craig.smith@aps.com](mailto:craig.smith@aps.com)

### Solid State Circuits

Mirembe Musisi-Nkambwe  
[Mirembe@ieee.org](mailto:Mirembe@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

Les Daviet II  
[lesdavietii@cs.com](mailto:lesdavietii@cs.com)

### Women In Engineering

Shamala Chickamenahalli  
[shamala.chickamenahalli@intel.com](mailto:shamala.chickamenahalli@intel.com)

### Young Professionals

Shafiu "Jacky" Islam 520-245-9010  
[shafiu.islam@intel.com](mailto:shafiu.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](mailto:sdianesmith@computer.org)  
Student Activities Chair

## **Student Branches**

### **ASU Main, Engineering**

Chair: Nick Spirakus  
480-789-9867,  
[nmspirak@asu.edu](mailto:nmspirak@asu.edu)  
Advisor: Cihan Tepedelenioglu,  
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: Niranjan Venkatraman  
[v.niranjan@ieee.org](mailto:v.niranjan@ieee.org)

### **Embry-Riddle, Prescott**

Chair: Lisa M. Ferguson  
[FERGUSL2@my.erau.edu](mailto:FERGUSL2@my.erau.edu)  
Advisor: John E. Post  
[posti@erau.edu](mailto:posti@erau.edu)

## **U – Newsbytes**

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

The Department of Computer, Electrical, and Software Engineering at Embry-Riddle Aeronautical University in Prescott, AZ invites applications for a faculty position (tenure-track or tenured) at the assistant or associate professor level. The successful candidate should have a Ph.D. in Computer Science, Software Engineering, Computer Engineering or a related field at the time of employment. Preferred areas of expertise for this position include network, cyber, or computer system security and defense, computer forensics, information security, cyber-physical and trustworthy systems, and net-centric computing, embedded systems, autonomous systems, and physical computing. Significant industrial, entrepreneurial and/or teaching experience would strengthen a candidate's credentials, but recent graduates are encouraged to apply.

Apply online at [www.erau.edu/jobs](http://www.erau.edu/jobs) and search for positions at Prescott.  
Contact Professor Post at [john.post@erau.edu](mailto:john.post@erau.edu) for further information.

**Annual Banquet - Saturday, February 7<sup>th</sup>, 2015**  
**Hilton Phoenix Airport, 2435 South 47<sup>th</sup> Street, Phoenix, Arizona 85034**

**Keynote Presentation**

**Title: The Grand Canyon - A 1.8-Bilion-Year Slice of Earth History**

**Speaker: Prof. Thomas Sharp**

**Professor in the School of Earth and Space Exploration and Director of the LeRoy Eyring Center for Solid State Science  
Arizona State University**

**Abstract**

The Grand Canyon is an amazing surface feature that attracts millions of tourists from around the world. The canyon exposes a thick sequence of rocks that represent 40% of Earth's history. The inner canyon exposes the oldest igneous and metamorphic rocks, known as the Vishnu basement. These rocks record the history of continental crust assembly through collisions, mountain building, metamorphism and melting in the Paleoproterozoic Era between 1840 and 1660 Ma. The layered Grand Canyon Supergroup rocks of the inner canyon in the east record a history of sedimentation, crustal extension and basaltic volcanism on the continental interior during the Neoproterozoic Era between 1200 and 700 Ma. Separating the rocks of the inner canyon from those of the main canyon is the Great Unconformity, representing as much as 1200 million years of missing geologic record. The flat-lying sedimentary rocks of the of the main canyon record a history of sediment deposition in and adjacent to shallow seas that moved on and off of the continent through the Paleozoic Era (540 to 260 Ma). A thick sequence of Mesozoic sediments covered the area, but have been eroded away. The timing and mechanism of Canyon formation is the subject of current study and debate. The erosion that created the Grand Canyon is part of the recent history of the Colorado Plateau uplift and formation of the Basin and Range Province and is believed to be as young as 6 Ma.

**Speaker Biography**



Prof. Thomas Sharp is a professor in the School of Earth and Space Exploration and director of the LeRoy Eyring Center for Solid State Science at Arizona State University. He earned a BS in Geology and in Geophysics at the University of Minnesota in 1983 and a PhD in Geology from Arizona State University in 1990. Prof. Sharp is a mineralogist interested in mineral reactions, phase transitions and deformation and how these can be used to understand processes that occur within Earth and other planetary bodies. This research combines experimental and natural samples with detailed physical and chemical characterization of rocks and minerals with transmission and scanning electron microscopy, Raman spectroscopy, thermal emission infrared spectroscopy and other techniques. Applications include: Phase transitions in Earth's deep mantle; High-pressure minerals in meteorites as indicators of impact history; and Chemical weathering of basalt and its implications for the remote sensing of Mars. In addition to his research, Professor Sharp is the ASU Associate Director of the NASA Arizona Space Grant Consortium.

\*\*\*\*\*



# IEEE PHOENIX SECTION



## Banquet Agenda

- Registration / Social Hour: 5:30 PM – 6:30 PM
- Sit-Down Dinner: 6:30 PM – 7:30 PM
- Section Program: 7:30 PM – 8:00 PM
- Keynote Presentation: 8:00 PM – 8:30 PM
- Awards Presentation: 8:30 PM – 9:15 PM
- Change of Section Officers: 9:15 PM – 9:30 PM

Note: Business Attire is recommended

**Complete Banquet Information along with Banquet Registration:**  
<http://sites.ieee.org/phoenix/>

**Banquet Registration Direct Link:**  
<https://meetings.vtools.ieee.org/m/31367>

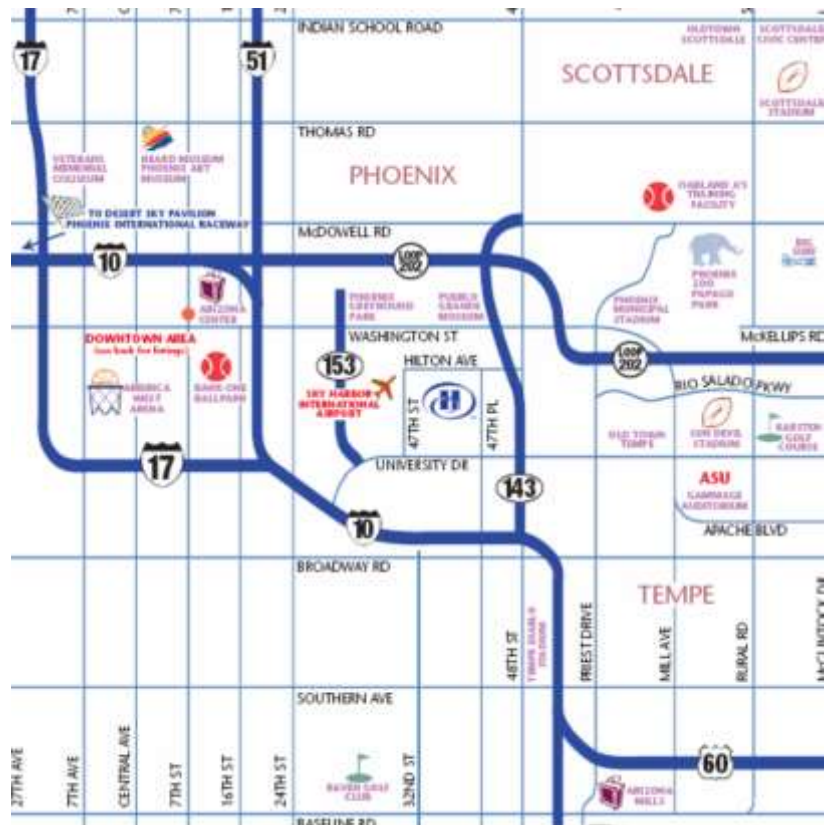
**IEEE Phoenix Section  
Annual Banquet 2015  
Saturday, February 7<sup>th</sup>, 2015**

**Venue**



**Hilton Phoenix Airport**  
2435 South 47<sup>th</sup> Street  
Phoenix, Arizona 85034  
(480) 894-1600

**West of Hohokam (143) Freeway  
and North of University Drive**



*Please Support the IEEE Phoenix Section by Joining as Volunteer in Section Committees, Society Chapters, Affinity Groups, and Student Branches.  
Visit the Section website at [sites.ieee.org/phoenix/](http://sites.ieee.org/phoenix/) for additional information.*



## Upcoming Conferences in Region 6

**Hello IEEE Student Members!**

[2015 IEEE International Conference on Cloud Engineering \(IC2E\)](#) will be held March 9 to 13, 2015

[2015 International Conference on Microelectronic Test Structures \(ICMTS\)](#) will be held March 23 to 26, 2015

[2015 IEEE/MTT-S International Microwave Symposium - MTT 2015](#) Will be held May 16 to 22, 2015

[2015 85th ARFTG Microwave Measurement Conference \(ARFTG\)](#) will be held on May 22, 2015

[2015 IEEE Workshop on Automatic Speech Recognition and Understanding \(ASRU\)](#) will be held Dec 13 to 16, 2015

### **Metro Area Workshop**

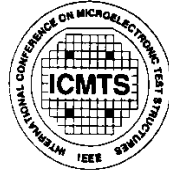
We are trying to plan an all day workshop here in Phoenix for the spring of 2015. It will be for learning and networking and will be kept affordable so that everyone who wants to attend can. We are planning on having a keynote speaker and then break into a number of classes all day, with breaks for snacks, lunch, and networking.

Anyone who would like to volunteer to help or is able to teach a class, please contact me at [Phoenix.conferences@ieee.org](mailto:Phoenix.conferences@ieee.org) or [bradscientist@ieee.org](mailto:bradscientist@ieee.org)

We are also planning on having exhibits for the attendees to learn about new companies, products, and to meet other people. The booths will be reasonably priced, and if anyone is interested, please contact me at the email listed in the lines above.



Call for Papers  
**28<sup>th</sup> International Conference on  
Microelectronic Test Structures**  
March 23-26, 2015, Phoenix, Arizona USA



**General Chair:**

Larg Weiland  
PDF Solutions  
[larg.weiland@pdf.com](mailto:larg.weiland@pdf.com)

**Technical Chair:**

Colin McAndrew  
Freescale Semiconductor, Inc.  
[Colin.McAndrew@freescale.com](mailto:Colin.McAndrew@freescale.com)

**Tutorial Chair:**

Brad Smith  
Freescale Semiconductor, Inc.  
[Brad.Smith@Freescale.com](mailto:Brad.Smith@Freescale.com)

**Local Arrangements:**

Colin McAndrew  
Freescale Semiconductor, Inc.  
[Colin.McAndrew@freescale.com](mailto:Colin.McAndrew@freescale.com)

**Equipment Exhibition:**

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Agilent/Keysight Technologies  
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**Asian Representative:**

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**USA Representative:**

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**Conference Manager:**

Wendy Walker  
Widerkehr and Associates  
[wwalker@widerkehr.com](mailto:wwalker@widerkehr.com)

The 28th International Conference on Microelectronic Test Structures (ICMTS) will be held in Phoenix, Arizona, USA, bringing together designers and users of test structures to discuss recent developments and future directions. The conference will be held March 24-26, 2015, preceded by a one-day Tutorial Short Course on Microelectronic Test Structures on March 23. There will be an equipment exhibition relating to test structures and measurements. Original papers are solicited presenting new developments in test structures, as well as their implementation, measurement, and application, related to semiconductors, nanotechnology, and MEMS. A Best Paper award will be presented by the Technical Program Committee. The conference is sponsored by the IEEE Electron Devices Society and all published papers will be posted to IEEE Xplore®.

Topics of relevance to ICMTS include, but are not limited to:

**Material and Process Characterization:** Wafer material evaluation for SiGe, strained Si, Si-on-insulator, Ge, GaAs, GaN and other compounds. Resistivity, mobility, stress, contact resistance, dielectric, and interconnect measurements. Test structures and methods to evaluate new materials and devices, e.g. graphene and CNTs.

**Test structure design methods:** Flows for automated test structure design, generation, and verification; design-for-analysis, parameterized design, layout issues (grid, hierarchy, misalignment), switched arrays.

**Replicated Feature Metrology:** Level-to-level registration, overlay, CD uniformity and control, non-electrical characterization techniques, mask and reticle process control.

**Manufacturing of Integrated Circuits and MEMS:** Evaluation of individual and groups of integrated circuit, device, and MEMS process steps and elements: transistors, diodes, mechanical structures, device isolation, memory cells, and interconnect. Assessment of MMICs and RF components and products. Evaluation and optimization of standard cell macros and other circuits.

**Reliability and Product Failure Analysis:** Test structures for quality assurance, transistor, thin film, dielectric, and interconnect reliability, thermal monitoring and analysis, accelerated wafer level tests, wafer level burn-in, failure identification, reliability prediction.

**Nanotechnology, Displays, and Emerging Devices:** Test structures and methods to evaluate nanotechnology (materials and devices), displays, optoelectronic materials and devices, novel memories, and related materials.

**(BIO-)MEMS, (BIO-)Sensors, and Actuators:** Test structures for MEMS and micromachining including physical/chemical/optical/bio sensors, photonic devices, amorphous silicon films and devices.

**Device and Circuit Modeling, Parameter Extraction:** Model parameter extraction, RF device modeling, de-embedding, pulsed measurements, DC and high frequency measurement techniques and applications.

**Technology R&D, Integration, and DFM:** Test structures for FEOL or BEOL evaluation, design rule determination, process uniformity and worst-case analysis, test structures to assess integration and new technologies, switched array test chips/devices for large scale evaluations and reduced pad count.

**Test Circuits:** Novel on-wafer circuits for characterization of manufacturing technologies, variability, yield, and performance. Circuits to simplify probing, improve measurement robustness, and reduce pad count.

**Yield Enhancement, and Production Process Control:** Yield enhancement structures and methods, critical area calculation, defect estimation structures and methods, yield modeling, evaluation of design-manufacturing interactions, place and route methodology, and statistical process control. Large-scale, many-component test arrays and multiplexing techniques for technology assessment.

**Test Structure Measurement Utilization Strategy:** Test equipment, probing and programmable testing for process diagnostics, optimizing test throughput, database and data analysis methods, statistical data analysis, expert systems and related techniques, including capacitance, voltage, current, resistance, optical, and thermal measurements.

**Matching and Variability Test Structures:** Matching and variability of components (transistors, resistors, capacitors, inductors) and layout for circuit applications and their evaluation. Characterization of identically designed components. Modeling of matching and variability.

Authors are asked to submit an abstract of up to four pages in PDF format (font-embedded). The first page **must** consist of a title, a 50-words summary, author name(s), the full address, fax number, and e-mail address of the lead author, and author preference for oral or poster session presentation, if any. The body of the abstract should be three pages or less consisting of one page of text (800 to 1000 words) and up to two pages containing major figures and tables. Please visit the ICMTS 2015 official web site [icmts2015.pdf.com](http://icmts2015.pdf.com) for further information and paper submission. You may care to join the ICMTS group at [www.linkedin.com](http://www.linkedin.com).

The selection process will be based on the technical merit and will be highly weighted in favor of papers that have a high test structure content, include measured data and analysis, together with illustrations of the test structures involved. The submission deadline is **October 17, 2014**. Notice of paper acceptance, with instructions for manuscript preparation for the conference proceedings, will be sent to the authors of the papers selected for presentation by early December, 2014. The deadline for submission of the final paper will be January 20, 2015.

Details of the venue, hotel, registration, etc. will be posted at [icmts2015.pdf.com](http://icmts2015.pdf.com) as they are finalized.

For further technical information, please contact the technical chair:

Colin McAndrew, Freescale Semiconductor, Inc., [Colin.McAndrew@freescale.com](mailto:Colin.McAndrew@freescale.com)



International Microwave Symposium  
IEEE 17 – 22 May 2015 Phoenix, AZ MTT-S



## Come join us in Phoenix and enjoy the flagship Microwave Theory and Techniques Society (MTT-S) Conference

The IEEE Microwave Theory and Techniques Society's 2015 International Microwave Symposium (IMS2015) will be held **17 - 22 May 2015** at the Convention Center in Phoenix, Arizona as the centerpiece of Microwave Week 2015. IMS2015 offers technical sessions, interactive forums, plenary and panel sessions, workshops, short courses, industrial exhibits, application seminars, historical exhibits, and a wide variety of other technical and social activities including a guest program. As usual, the Microwave Week 2015 technical program also comprises the RFIC symposium ([www.rfic2015.org](http://www.rfic2015.org)) and the ARFTG conference ([www.arftg.org](http://www.arftg.org)). Unique to Microwave Week in 2015, a High School Science and Engineering Invitational will be held.

With over 9,000 participants and 800 industrial exhibits of state-of-the-art microwave products, Microwave Week is the world's largest gathering of Radio Frequency (RF) and microwave professionals and the most important forum for the latest research advances in the field.

### Call for Papers

Authors are invited to submit technical papers describing original work on Radio-Frequency, microwave, millimeter-wave, and terahertz (THz) theory and techniques. The deadline for submission is **8 December 2014**. Please refer to the IMS2015 website ([www.ims2015.org](http://www.ims2015.org)) for detailed instructions concerning paper submission. **Please don't wait** until the last day to start using the paper submission process. Those unfamiliar with the process may encounter paper formatting or clearance issues that may take time to resolve. The Symposium proceedings will be recorded on electronic media and archived in IEEE-Xplore. Authors of accepted papers should consider submitting an extended version of their symposium paper for possible publication in the *IEEE Transactions on Microwave Theory and Techniques*.

### Emerging technical areas:

IMS2015 enthusiastically invites submission of papers that report state-of-the-art progress in technical areas that are outside the scope of those specifically listed in this Call for Papers, or that may be new to the symposium, but are of interest to our attendees.

### Student paper and student design competitions:

Eligible students are encouraged to submit papers for the student paper competitions. In addition, eligible students or student teams are invited to consider taking part in student design competitions during the IMS2015, which are organized and sponsored by various Technical Committees (TC) of the MTT-S Technical Coordination Committee (TCC). Please visit the IMS2015 web site for full details.

### MicroApps:

The Microwave Application Seminars serve as a forum for exhibitors at the IMS to present the technology behind their commercial products and their special capabilities. The presentations are open to all conference and exhibit attendees. All submissions must be made through email to [microapps@ims2015.org](mailto:microapps@ims2015.org). Please refer to the IMS2015 website for more information on submitting MicroApps technical papers.

**We are looking forward to meeting you in Phoenix and sharing some of the hottest new microwave ideas under the sun!**



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	<a href="mailto:mkshah@ieee.org">mkshah@ieee.org</a>
Asst. Chair	Mr. Vivek Gupta	(480) 734-2366	<a href="mailto:vmgupta@msn.com">vmgupta@msn.com</a>
Secretary			
Treasurer	Dr. Vasudeva P. Atluri	(480) 227-8411	<a href="mailto:vpatluri@ieee.org">vpatluri@ieee.org</a>
Program Chair	Mr. David Dougherty	(480) 245-8099	<a href="mailto:david.dougherty@freescale.com">david.dougherty@freescale.com</a>
Asst. Program Chair			
Tutorial Chair			
Asst. Tutorial Chair			
Workshop Chair & Publicity	Dr. Vasudeva P. Atluri	(480) 227-8411	<a href="mailto:vpatluri@ieee.org">vpatluri@ieee.org</a>
Website Co-Chair			
Website Co-Chair			

### 2015 Executive Committee

Based on the responses received, we have been able to fill some of the positions on the Executive Committee. If you are IEEE & CPMT member and are willing to serve please contact the any of the EC members listed above. We need volunteers to keep the Society Activities going.

### 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.

### CPMT Society Website Development

IEEE is using Word Press to develop and support their webpages. If you are familiar with creating webpage using Word Press, and would like to volunteer your time for the helping Phoenix Chapter have its own web page tied to Phoenix Section website as well as main CPMT society website, please contact Mahesh Shah at [mkshah@ieee.org](mailto:mkshah@ieee.org)

### Additional Activities –Tutorial and Workshop

Phoenix section is planning to hold a **Half Day Tutorial** in 2015. In addition we are working with other Society Chapters to hold a workshop on **Emerging Device and Packaging Technology** also in 2015. Please wait for announcements in near future. If you are interested to volunteer your time to organize the tutorial, please contact Mahesh Shah at [mkshah@ieee.org](mailto:mkshah@ieee.org)





## 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.

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>)

### Upcoming Talks

(Please look for detailed announcement on our Google Group)

***Akihiko (Ken) Sugiyama, IEEE Distinguished Lecturer***

IEEE Fellow, Research Fellow of Information & Media Labs at NEC, Dec. 3rd, 2014.

***Hamid Krim, IEEE Distinguished Lecturer***

IEEE Fellow, Professor, North Carolina State University, on Feb 6<sup>th</sup> 2015.

Title: "Shape Analysis and Modeling in Video Applications: Activity Analysis"



## Phoenix Chapter of the IEEE Computer Society

January, 2015

### News

- Our first chapter meeting of 2015 was held on Wednesday, January 7<sup>th</sup> at the Granite Reef Senior Center in Scottsdale. Dr. Brad Morantz spoke on "Intelligent Decision Making". This venue worked out quite well and we hope to have several future meetings at this location. We are still researching other venues and will report to the members as the search progresses.
- We have decided to switch from odd-numbered months to even-numbered months for our meetings. The chapter meetings will still be held on the first Wednesday of the month at the usual time. The meetings for the remainder of 2015 will be on
  - April 1<sup>st</sup>
  - June 3<sup>rd</sup>
  - August 5<sup>th</sup>
  - October 7<sup>th</sup>
  - December 2<sup>nd</sup>

Note that the next meeting will be in April. All dates are Wednesday. Meetings will be held from 6:00 pm to 9:00 pm. We will publish the venue for each of these meetings as soon as it is known.

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 ( <a href="mailto:jerry.crow@computer.org">jerry.crow@computer.org</a> )
Vice-chair:	Brad Morantz ( <a href="mailto:bradscientist@ieee.org">bradscientist@ieee.org</a> )
Secretary/Webmaster:	Audrey Skidmore ( <a href="mailto:askidmore@computer.org">askidmore@computer.org</a> )
Treasurer:	Diane Smith ( <a href="mailto:sdianesmith@computer.org">sdianesmith@computer.org</a> )



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



## January 2015 Luncheon Meeting

*Date:* Thursday, January 15, 2015

*Time:* 11:30 - 11:45 am: Registration  
11:45 am: Lunch  
12:00 pm: Program

*Location:* SRP PERA Club (map)  
1 E Continental Dr  
Tempe, AZ

*Speaker:* John Felty, Manager of Water Relationships, Salt River Project

*Topic:* Water Resources for the Phoenix Area

*Cost:* \$8.00 Note new cost (No cost if you are a college student)

*Reservations:* Contact Gorman Company at (602) 470-0400 or submit your name here. Reservations deadline is NOON on Monday, January 12, 2015. If you have already registered for this luncheon but need to cancel, click [here](#).

### **Abstract:**

Are we in a drought? Do we have enough water for the future? Learn about our Valley's unique water history and how water is being managed for the future. Mr. John Felty, Manager of Water Relationships at Salt River Project, will present about Water Resources for the Phoenix Area including an overview of the history of water in Arizona.

### **Biography:**

Mr. John Felty is the Manager of Water Relationships at Salt River Project. He has worked at SRP for fifteen years in a variety of capacities including telecom, land, and water. As an Arizona native, John has always been interested in water and sustainability issues, and has enjoyed matching that passion with his current role. Mr. Felty participated in the Arizona Blue Ribbon Commission on water reuse; is serving on the Public Affairs Committee for the Colorado River Water Users Association; and is a board member of the Multi State Salinity Coalition. He has a degree in History from Arizona State University, and is a graduate of Valley Leadership Class. John lives in Gilbert with his wife and three boys.



## 2015 IEEE Phoenix Waves and Devices Chapter Officers

<b>Position</b>	<b>2015</b>
Chair:	Steve Rockwell
Vice-Chair:	Trevor Thornton
Treasurer:	Adel Elsherbini
Publicity/Secretary:	Curtis Scott
Webmaster:	Craig Birtcher
MTTS Rep:	Paul Hale
EDS Rep:	Michael Goryll
APS Rep:	Adel Elsherbini
Photonics Rep	Shane Johnson
UFFCS Rep:	Steve Rockwell

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



## Phoenix Section Life Member Affinity Group

### Technical, Elections, & Administrative Meeting February 17, 2015

Program Presentation: TBD

## **NOTE MEETING STARTS AT 11 AM**

### Meeting Agenda:

11AM: Attendee introductions

11:15 AM: Program Presentation

New officer's responsibility & introductions.

Program chairs will review the results of survey taken to determine LM interests for technical presentations.

Continued discussion of LMAG program for student assistance and possible scholarship program for HS students.

Administration Meeting.

**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, **February 17, 2015 - 11:00am – 1:00pm**, Registration fee is \$15. This fee will include lunch provided by the PERA Club. Lunch TBD

**RSVP:** Please advise Ronald Sprague if you plan to attend so accounting for lunch is possible.

**Technical Presentations:** The Program Chairs are seeking suggestion from members for future presentations. Any ideas of interest to LM are open for consideration. Please contact Ronald Sprague or Barry Perlman Program Chairs at r.sprague@ieee.org and/or barry.perlman@gmail.com.

**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.

**Activities:** Technical meetings scheduled the 3<sup>rd</sup> Tuesday of 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 the meetings.

- Tuesday, February 17, 2015
- Tuesday May 19, 2015

- Tuesday October 20, 2015
- Tuesday December 15, 2015

**Officers:**

<b>Chair</b>	<b>Leslie Daviet II</b>	<a href="mailto:lesdavietii@cs.com"><u>lesdavietii@cs.com</u></a>
<b>Vice Chair</b>	<b>Jim Tang</b>	<a href="mailto:JFTANG@cox.net"><u>JFTANG@cox.net</u></a>
<b>Secretary</b>	<b>Tom Lundquist</b>	<a href="mailto:tom.lundquist@ieee.org"><u>tom.lundquist@ieee.org</u></a>
<b>Treasurer</b>	<b>Leslie Daviet II</b>	<a href="mailto:lesdavietii@cs.com"><u>lesdavietii@cs.com</u></a>
<b>Membership</b>	<b>Rao Thallam</b>	<a href="mailto:Rao.Thallam@gmail.com"><u>Rao.Thallam@gmail.com</u></a>
<b>Program</b>	<b>Ron Sprague</b>	<a href="mailto:r.sprague@ieee.org"><u>r.sprague@ieee.org</u></a>
	<b>Barry Perlman</b>	<a href="mailto:barry.perlman@gmail.com"><u>barry.perlman@gmail.com</u></a>
<b>Volunteer</b>	<b>Gary Frere</b>	<a href="mailto:gary.frere@gmail.com"><u>gary.frere@gmail.com</u></a>
<b>Past Chair</b>	<b>Barry Cummings</b>	<a href="mailto:abarrycumings@gmail.com"><u>abarrycumings@gmail.com</u></a>



IEEE Phoenix Section  
Women in Engineering  
Affinity Group



The IEEE Phoenix Section Women in Engineering (WIE) Affinity Group (AG) wrapped up the year 2014 with a lot of activities.

WIE engineers held video conferencing sessions in early December with Rural Maricopa County elementary schools as part of the collaboration with the Maricopa County Education Service Agency's (MCESA) STEM Identity awareness initiative. WIE engineers Ruth Fisher and Kayleen Helms role modeled for 8th grade science students.

WIE Chair, Shamala Chickamenahalli gave an invited presentation on her Career Journey at the Young Professionals Leadership conference held on Dec 16th at the Intel Chandler campus.

Divya Kalimuthu, WIE representative along with other Young Professional IEEE engineers is part of the judging team who is currently judging SimCity models, essays and presentations for the Smart City contest. During December, the SimCity models were evaluated and scored.

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: Lesley Polka ([lesley.a.polka@intel.com](mailto:lesley.a.polka@intel.com))

Secretary / Publicity: Divya Kalimuthu ([divya.kalimuthu@intel.com](mailto:divya.kalimuthu@intel.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 Divya Kalimuthu ([divya.kalimuthu@intel.com](mailto: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](http://www.ieee.org/membership_services/membership/women/women_about.html).



### IEEE Young Professionals Phoenix Section Executive Board 2015

- Chair: Jennifer Taggart ([jennifer.taggart@asu.edu](mailto:jennifer.taggart@asu.edu))
- Past Chair: Shafiuil "Jacky" Islam ([shafiuil.islam@intel.com](mailto:shafiuil.islam@intel.com))
- Note: We will be holding an election towards the end of January 2015 for Vice Chair, Secretary, and Treasurer positions. Please contact Jennifer or Jacky if you are interested.

### December 02, 2014, December 12, 2014, and December 15, 2014 Meetings

Jacky (meeting chair), Jennifer, and George met over Google Hangouts (from 9:30pm to 10:00pm on 12/02) to plan for Leadership Conference promotion in ASU and registration/check-in strategy. Jacky (meeting chair), Shamala, and Lesley met over Lync (from 2:30pm to about 3:15pm on 12/12) for registration planning with Intel, and room setup planning, and deciding whether or not to allow virtual attendance. Jacky and Ahmet tried out AV setup (from 4:00pm to about 4:30pm on 12/15).

### December 16, 2014, 1<sup>st</sup> Leadership Conference with IEEE Phoenix Young Professionals, Women in Engineering, and IEEE / IEEE-HKN ASU groups -- Career Paths and Personal Journeys of Select Intel and IEEE Leaders

IEEE Phoenix Young Professionals in collaboration with Women in Engineering and IEEE/IEEE-Eta Kappa Nu ASU groups organized our first leadership conference as part of IEEE Young Professionals Strategic Alliance initiative.

Select Intel and IEEE leaders talked about their career paths and personal journeys to mentor on how to achieve excellence in leadership. Further the conference provided networking opportunities.

When: December 16, 2014      Where: Intel Chandler Campus, 5000 West Chandler Blvd, Chandler, Arizona 85226

For speaker biographies and organizing committee please visit: <https://meetings.vtools.ieee.org/m/20965>

Presentation by Jacky: <http://www.slideshare.net/ShafiuilJackyIslam/my-leadership-journeyjacky2014-43393530>

We intend to hold this conference again in 2015 with entire Region 6 over WebEx.

### January 2-4, 2015, IEEE Rising Stars Conference

Members and officers from IEEE Phoenix Young Professionals and IEEE / IEEE-HKN ASU groups attended the 2015 IEEE Rising Stars Conference in Las Vegas. We learned from the speakers on various topics, we had networking opportunities, and we also had some social activities. Some of us also attended Storage Visions conference and the CES.



Anyone interested to serve in Vice Chair, Secretary, or Treasurer position please contact any of the executive board members. We will hold an election either in December 2014 or in January 2015.





## 2014 IEEE Phoenix Section News

### Executive Committee Meeting

**No meeting of Executive Committee in July & August**

Normal meetings are on first Tuesday of the month from 6:00 PM to 8:00 PM  
The Airport Hilton Phoenix,  
2435 S 47th St. Phoenix, AZ 85034, (480) 894-1600.

### 2014 Executive Committee

Chair: Bruce Ladewig  
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 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](http://www.ieee.org) for eligibility.

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

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## 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.

You can also go to IEEE Phoenix Section LinkedIn page by clicking  button on the [IEEE Phoenix Section home page](#)


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## IEEE Phoenix Section Ventures into Social Media

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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](#).

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](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](#).

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## IEEE Member’s Benefits

IEEE-USA Offering Survivor Planning E-book Free to IEEE Members

### January Free E-Book

IEEE-USA is offering “Shaping an Engineering Career -- Book 1: Responding to Career Challenges -- A Personal Journey” free to IEEE members in January.

Penned by IEEE Life Fellow Gus Gaynor, it is the first in the IEEE-USA 2014 Communicator Award of Excellence e-book series.

The series describes the challenges that practitioners, academics and managers face in building their careers and provides guidance about what is required to build a successful career in technology or related discipline.

“Book 1” is Gaynor’s personal journey from his roots in Toledo, Ohio, in 1921 -- through what he describes as a “Lifetime of Challenges” to “Retirement.” After each phase, he writes about the lessons he learned.

“Shaping an Engineering Career -- Book 1: Responding to Career Challenges -- A Personal Journey” can be downloaded at <http://www.ieeeusa.org/communications/ebooks/files/jan15/kmvwoi8a/Shaping-an-Career-Book-1.pdf> for free to IEEE members. (\$9.99 for non-members.)

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

In February, IEEE-USA E-books will offer “Work-Life Balance: Book 1,” by Peggy Hutcheson.

#### Call for Authors

IEEE-USA E-books seek authors to write an e-book or e-book series on career guidance and development topics. If you have an idea that you think will benefit members in a particular area of expertise, please email your proposal to IEEE-USA Publishing Manager Georgia C. Stelluto at [g.stelluto@ieee.org](mailto:g.stelluto@ieee.org) and IEEE-USA Communications Committee Chair Gus Gaynor at [g.gaynor@ieee.org](mailto:g.gaynor@ieee.org).

IEEE-USA serves the public good and promotes the careers and public policy interests of more than 200,000 engineering, computing and technology professionals who are U.S. members of IEEE.

Web: [www.ieeeusa.org](http://www.ieeeusa.org)

Facebook: [www.facebook.com/ieeeusa](http://www.facebook.com/ieeeusa)

Twitter: [www.twitter.com/ieeeusa](http://www.twitter.com/ieeeusa)

Join IEEE: [www.ieee.org/join](http://www.ieee.org/join)

Contact: Sharon C. Richardson, Coordinator  
IEEE-USA Communications & Publishing  
Phone: [1 202 530 8363](tel:12025308363)  
E-mail: [s.richardson@ieee.org](mailto: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](mailto: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.