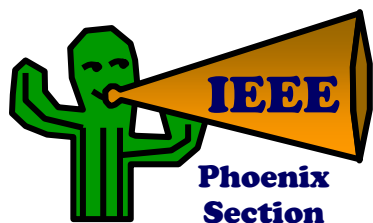


The Valley Megaphone



Newsletter of the Institute of Electrical and Electronics Engineers, Inc., Phoenix Section October, 2016 Volume XXX, Number 10

Executive Committee 2016

Chair

Bruce Ladewig, 480-620-9291
bruceladewig@ieee.org

Vice Chair

Surinder Tuli, 480-287-1437
Surinder.tuli@gmail.com

Secretary

Vivek Gupta, 480-734-0266
vmgupta@msn.com

Treasurer

Mahesh Shah, 480-544-9438
mkshah@ieee.org

Past Chair

Barbara McMinn 602-371-6383
barbara.mcminn@aps.com

Publicity

Wei Xu, 480-296-1116
Wei.Dr.Xu@ieee.org

PACE

TBD

Membership

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

Student Activities

S.Diane Smith, 602-749-4601
sdianesmith@computer.org

Conferences

TBD

Awards

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

Inter-Society

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

Webmaster

Gopi Krishna 480-552-2566
gckrishnan@gmail.com

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
Upcoming Conferences.....	4
CPMT Phoenix Chapter	5
Communication Society.....	6
Computer Society.....	7
Waves & Devices.....	9
Life Member Affinity Group.....	11
IEEE Phoenix Section News	13
Phoenix Section Executive Committee Meeting.....	14
Phoenix Section LinkedIn Group.....	15
Phoenix Section on Social Media.....	15
IEEE Membership Grade Advancement	16
IEEE Member's Benefit.....	18

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 Wei Xu at Wei.Dr.Xu@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)

Chapters

Signal Processing & Communications

Andreas Spanias
spanias@asu.edu

Computer Society

Jerry Crow
jerry.crow@computer.org

CPMT Society

Mahesh Shah
480-544-9438
mkshah@ieee.org

Education Chapter

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

EMBS Chapter

TBD

EMC Society

Brett Gassaway, 480-926-3100
brettg@compliancetesting.com

Power & Energy Society

Josh Gorman
josh@forman-co.com

Solid State Circuits

Mirembe Musisi-Nkambwe
Mirembe@ieee.org

Teacher-In-Service

Rickie Currens
Rickie.Currens@att.net

Waves & Devices Society

Steve Rockwell
steve.rockwell@ieee.org

Life Members

Les Daviet II
lesdavietii@cs.com

Women In Engineering

Phoebe Henson
480-888-6396
Phoebe.Henson.us@ieee.org

Young Professionals

Jennifer Taggart, 928-581-5198
jennifer.taggart@asu.edu

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

Update from ASU Polytechnic Student Branch

The club is going through a transition process at the moment. With several of the officers graduating, myself included, Josh Carroll and I are working to fill the seats. He will update you with the names of the new board members. Due to time constraints the club was unable to begin any of the projects that they wanted to create. The coming fall semester will have some changes to allow the members more freedom in exploring their interests. We also plan on collaborating with the robotics club to work on some troubleshooting as well as projects both clubs are interested in. With the help of Dr. Parsey the club plans to have a much more productive fall semester.

Elizabeth Long
IEEE ASU Poly Chapter - Vice President
Ira A. Fulton School of Engineering
Arizona State – Polytechnic
ealong2@asu.edu

Student Branches

ASU Main, Engineering

Chair: Ngoni Mugwisi
480-567-4299,
ieeasuchair@gmail.com
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 Main, Power and Energy Society

Chair: Nikita Singhal
nsinghal@asu.edu
Co-Chair: Deepak Ramasubramanian
dramasu1@asu.edu
Advisor: Kory Hedman
kory.hedman@asu.edu

ASU Polytechnic

Chair: Josh Carroll
jkcarroll@asu.edu
Elizabeth Long
Elizabeth.a.long@asu.edu
Advisor: : Dr. John M. Parsey, Jr.,
480-727-5279
John.Parsey@asu.edu

DeVry, Phoenix – Engineering

Chair: Jacob Dietz
dietzjacob0220@gmail.com
Vice Chair: Desiree Nielsen
Nielsen.desiree@gmail.com
Advisor: Roger S. Gullledge
602-749-4586
rgullledge@devry.edu

DeVry, Phoenix – Computer Society

Chair: Lisa Rodi
lisamarierodi@gmail.com
Vice Chair: Thomas Varland
T.varland2@gmail.com
Advisor: Thomas Stein II
602-749-7397
tsteinii@devry.edu
Advisor: Roger S. Gullledge
602-749-4586
rgullledge@devry.edu

DeVry, Phoenix – Women in Engineering

Chair – Andrea Gonzalez
andrea0611.ag@gmail.com
Vice Chair – Nahtasha Conzalez
nmgonzalez3397@gmail.com
Advisor – Roger S. Gullledge
602-749-4586
rgullledge@devry.edu

NAU, Engineering

Chair: Taylor Bruce
tab383@nau.edu
Advisor: Julie Heynssens
Julie.Heynssens@nau.edu

Embry-Riddle, Prescott

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

Update from DeVry University IEEE Student Branch

On behalf of the Engineering, Computer Society, and the WIE Chapters of DeVry University we thank the Outgoing student leaders who have done so much to further the good name and reputations of the IEEE and DeVry University. These folks have performed an outstanding service to the community through their dedication to outreach events such as the 2015 Arizona State Fair STEM Exhibit and the 2016 SkillsUSA Arizona State Championships. Thank you Diego, Oscar, Alan, and Jason.

We welcome the new leadership team as listed elsewhere in this newsletter. Please reach out to these outstanding men and women to create great synergies our independent organizations can achieve through collaboration in the IEEE Phoenix Section.

The Arizona State Fair is rapidly approaching (October 7 – 30, 2016) so all efforts are being directed to creating the static displays and the workshops that are its hallmark. All student branches and the all IEEE members are encouraged to not only attend the Fair and stop by the STEM Exhibit but to contribute projects for display at the Exhibit. As in years gone by, we gratefully acknowledge the great support of the Phoenix Section and its Executive Committee. We look forward to a great school year!

For the IEEE Student Branch, Computer Society Chapter, Women in Engineering Affinity Group
Roger S. Gullledge
Professor, College of Engineering and Information Sciences
Councilor, IEEE Student Branch
DeVry University, Phoenix Arizona
rgullledge@devry.edu



Upcoming Conferences in Region 6

Hello IEEE Student Members!

[IEEE International Conference on Rebooting Computing \(ICRC 2016\)](#), will be hosted at the Hilton San Diego/Del Mar, San Diego, CA on 17-19 October 2016.

[IEEE Rising Stars Conference](#), will be held in Las Vegas, NV, Jan 2-4, 2017.

Making the Future

Like many engineers I was inspired to get into technology partly due to the Science Fiction books I read when I was young. I try to keep up with the genre now, but it is difficult to find the time to read all of the great new SF stories as well as watch all the new movies and TV shows. These stories inspired me to think what life would be like with new technology and to want to have a hand in creating the technology that would enable the future. I was not alone. I am sure that many of my readers were also inspired (and frightened) by the worlds of tomorrow...

Today the tools available to us exceed greatly those of the past in terms of their precision and scale. As a consequence, we have detected gravity waves with transcontinental measuring devices and may soon have gravity wave observatories that, combined with electromagnetic and other observational devices (including satellites), can probe the deepest secrets of space.

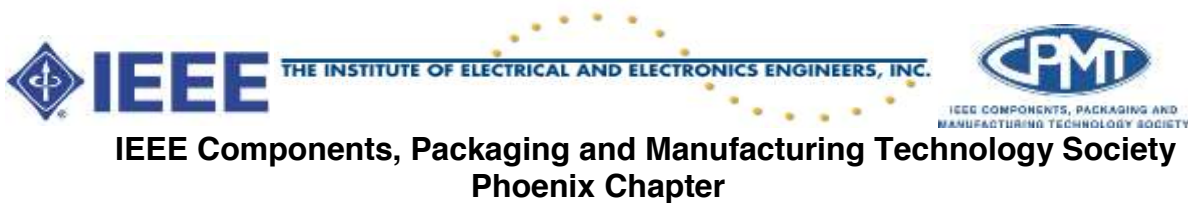
For designers of electrical devices, we have development kits that span the needs of hobbyists to professional system designers. This has spawned a whole generation of makers and hackers who don't consider that they own a device unless they know what makes it work and can program and fix it themselves. While most users of modern consumer products don't have such interests there is a growing group that do. These are a new breed of inventors and engineers. The ultimate goal for many of these creators is to program devices and perhaps ultimately matter itself.

Technology and its applications create wealth and this wealth in the hands of curious and ambitious people can lead to bold and innovative approaches. These include the creation of many ways to provide universal Internet access using satellites, balloons and drones promoted by companies such as Google and Facebook. This also drives the creation of driver assistance technology and ultimately cars that drive themselves.

SpaceX, Blue Origin and Virgin Galactic along with many other companies are working to create a commercial space industry with goals of inexpensive satellite launches, space tourism and ultimately the mining of extraterrestrial resources and mankind's move to new worlds. Ultimately these efforts will move mankind towards a full Type 2 civilization where we control the resources of our solar system and generate new levels of wealth and opportunity.

The future is enabled and shaped by engineers. It is our responsibility to create tomorrow's technology, but also to clarify the ethics of how technology should be used. IEEE is working on shaping the future as well as developing public policies to make these technologies serve the needs of humanity. However, IEEE is not some abstract entity, it is an organization of individual people. We need your help and imagination in the IEEE to create this future and a better life for future generations.

Tom Coughlin
Director, IEEE Region 6
tom@tomcoughlin.com

**2015 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. Rao Bonda	(480) 786-7749	r.bonda@ieee.org
Treasurer	Mr. David Dougherty	(480) 245-8099	david.dougherty@nxp.com
Program Chair	Dr. Vasudeva P. Atluri	(480) 227-8411	vpatluri@ieee.org
Asst. Program Chair	Bharat Penmecha	(480) 552 2511	bharat.penmecha@ieee.org
Tutorial & Workshop Chair	Dr. Vasudeva P. Atluri	(480) 227-8411	vpatluri@ieee.org
Website Co-Chair	Marc Liciardi		marc@dfxengineering.com

If anyone is interested to serve the Phoenix Chapter in any capacity, please send contact Chapter Chair (mkshah@ieee.org) or any other committee members listed above.

Tentative Schedule for Monthly Seminars

Date	Topic	Speaker
Jan. 20, 2016	Understanding and Managing the Key Cost Drivers in PCB Design to Optimize Performance and Cost	Marc Liciardi
Feb. 17, 2016	Roadmaps As We Approach The End of Moore's Law Scaling	Dr. Bill Bottoms
Mar. 23, 2016	System Level IC Packaging - An Overview of the Technology	Mike Kelly
Apr. 27, 2016	Design for Signal Integrity in a "Material" World	Chudy Roosevelt Nwachukwu, Intel Corp.
May. 11, 2016	Analyses of Oxide Ferroelectrics on GaN by Sol-Gel and MOCVD	Prof. Sandwip K. Dey, ASU
Jun. 6, 2016	Understanding the Optical, Thermal, and Electrical Performances of LED and their Relationship to Efficiency of Solid-State Lighting	Prof. Shi-Wei Ricky Lee, HKUST
Jul. 13, 2016	Recent Advances and New Trends in Semiconductor Packaging	Dr. John H. Lau
Aug. 17, 2016	Fluxless Thermo-Compression Bonding Process for 3-D Interconnect	Dr. Katsuyuki Sakuma
Tuesday, Sep. 20, 2016	On-Chip Embedded Cooling of Power and Logic Components	Prof. Avram Bar-Cohen
Oct. 19, 2016	Heterogeneous Integration Technology Roadmap	Dr. William Chen
Nov. 7, 2016	3D Interconnects, Materials, Processes, Reliability, and Applications	Prof. Karlheinz Bock
Dec. 14, 2016	Current and Future of Microelectronic Packaging	Darvin Edwards



SP-COM Phoenix Chapter

Please join our Google Group!

Please join our increasingly popular Google group to get the most up-to-date information about the society's activities. We have now over 50 members who are availing of this facility. Email traffic is thin, and used only to send meeting notices. No spam !

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

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



Phoenix Chapter of the IEEE Computer Society

October, 2016

Meetings

The dates for the remaining meetings in 2016 are shown below. Both are second Wednesdays and all meetings begin at 6:00 pm and end at 9:00 pm.

- October 12th DeVry University, Phoenix
- December 14th DeVry University, Phoenix

Speakers are confirmed for both of these meetings.

In August our speakers presented details of Bitcoin. Our October meeting will feature a presentation on blockchain, the technology underlying the security and integrity of Bitcoin.

Presentation

Blockchain, A Primer

The blockchain concept is most well known for being the technology underpinning of Bitcoin. The term is being used to describe a process of adding blocks of cryptographically signed data to form perpetual and immutable records. Blockchain has generated a huge amount of interest within Financial and Retail markets as it offers a new approach to data management and sharing. This session will examine existing methods of data management that typically involve large legacy IT systems that are prone to attack due to the fact that they are located within a single institution, often are complex and costly to update and patch, in contrast to blockchains (or distributed ledgers) that are inherently harder to attack because of their distributed shared database architecture. We will also discuss practices for ensuring blockchains (or distributed ledgers) and the challenges of deploying security of this type of digital infrastructure that markets are now relying on.

Presenters

Ed Vasko is CEO of Terra Verde Services.

Edward Vasko is a cybersecurity professional with a focused 25-year career. Rather than writing books that sit on a shelf, he has dedicated his career to helping clients around the world achieve better security through a pragmatic approach to understanding risk and implementing business supporting cybersecurity solutions. As the CEO of Terra Verde, Edward and his team of high-caliber, innovative professionals work tirelessly to keep bad guys away from critical data.

Edward has built multiple businesses as a “successive entrepreneur”. The services and solutions Edward and his team at Terra Verde provide to companies throughout the country help achieve two important goals: first,

reducing the likelihood that cyberattacks will be successful; second, reducing of the costs of cybersecurity and compliance.

Carlos Villalba is Vice President of Security Services and Solutions for Terra Verde Services.

Carlos has over 20 years of solid IT experience designing, developing, managing and implementing IT security solutions in compliance with IT security standards, and industry best practices. He has provided services to the US military, federal government, credit unions, universities, retailers, health care, manufacturing companies and small businesses. Further, he taught at Syracuse University for 12 years. Carlos has multiple contributions to trade publications, technical roundtables, presentations at professional seminars and creation of non-proprietary collateral and product support materials and has spoken at ISACA, ISSA, RSA, and many other conferences.

We are seeking volunteers for assistance in the operation of the chapter, from program acquisition to meeting preparation to the officer positions. If you are interested in volunteering or would like to suggest a topic or speaker for a future meeting, please let one of the officers noted below know via email.

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

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

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
WAVES AND DEVICES - Phoenix Chapter



Meeting Free & Open to Non-IEEE Members

6:00 to 7:30PM, Thursday, October 19, 2016

*Arizona State University
Goldwater Center, GWC487
650 E. Tyler Mall, Tempe, AZ*



**Current Research and Development of Wireless Power Transfer via Radio
Waves and the Application**

Naoki Shinohara, Ph.D., Kyoto University, Japan

Abstract: Theory, technologies, applications, and current R&D status of the wireless power transfer (WPT) will be presented. The talk will cover both the far-field WPT via radio waves, especially beam-type and ubiquitous-type WPT, and energy harvesting from broadcasting waves. The research of the WPT was started from the far-field WPT via radio waves, in particular the microwaves in 1960s. In recent years this became a hot topic again due to the rapid growth of wireless devices. Theory and technologies of antenna and circuits will be presented in case of beam-type and ubiquitous-type WPT. The industrial applications and current R&D status of the WPT via radio waves will be also presented.

Biography: Naoki Shinohara received the B.E. degree in electronic engineering, the M.E. and Ph.D (Eng.) degrees in electrical engineering from Kyoto University, Japan, in 1991, 1993 and 1996, respectively. He was a research associate in the Radio Atmospheric Science Center, Kyoto University from 1996. From 2010, he has been a professor in the Research Institute for Sustainable Humanosphere, Kyoto University. He has been engaged in research on Solar Power Station/Satellite and Microwave Power Transmission system. He is IEEE Distinguished Microwave Lecturer, IEEE MTT-S Technical Committee 26 (Wireless Power Transfer and Conversion) vice chair, IEEE MTT-S Kansai Chapter TPC member, IEEE Wireless Power Transfer Conference advisory committee member, international journal of Wireless Power Transfer (Cambridge Press) executive editor, Radio Science for URSI Japanese committee C member, , past technical committee chair on IEICE Wireless Power Transfer, Japan Society of Electromagnetic Wave Energy Applications vice chair, Wireless Power Transfer Consortium for Practical Applications (WiPoT) chair, and Wireless Power Management Consortium (WPMc) chair.

For more information <https://meetings.vtools.ieee.org/m/40739>, or contact:

Steve Rockwell, WAD Chapter Chair
Curtis Scott, WAD Chapter Vice-Chair
Trevor Thornton, WAD Chapter Secretary

(480) 241-9891
(623) 703-9177
(480) 965-3808

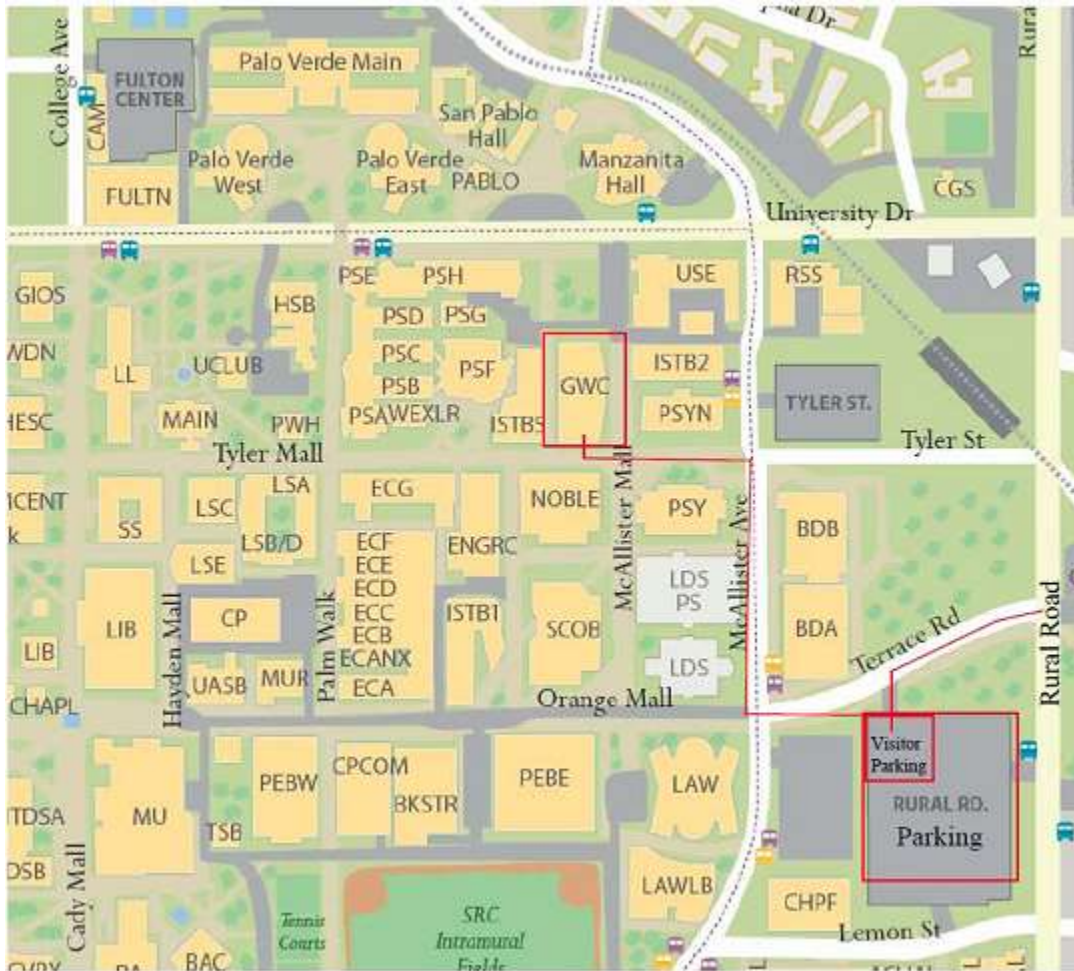
steve.rockwell@ieee.org
curtis.scott.us@ieee.org
t.thornton@asu.edu

Date: Wednesday, October 19, 2016

Time: 6:00-7:30 PM Presentations (Pizza will be served following the Seminar)

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

Goldwater Center – GWC – Room 487
Building is across from Noble Science Library





Technical Presentation and Administrative Meeting

Meeting Tuesday October 18, 2016

Program Presentation: “The Engine for 5G meeting IoT: mmW CMOS digital radio and Antenna” by

Dr. Joy Laskar

Senior Vice President/CTO and Co-Founder

Maja Systems

Abstract

Since the first demonstration of 60GHz connectivity in 1895 there has been much interest and promise in the future of mmW technology. It has been only recently, with the emergence of millimeter wave CMOS digital radio and active antenna integration that one can envision a new class of systems and applications. In this presentation we focus on a primary barrier to the deployment of mmW links: high capital cost structure (Capex) and high operational cost structures (Opex). We will review tradeoffs in mmW digital radio architectures, co-design with both fixed and steerable antenna array with an eye to volume manufacturable solutions. We believe this technology enables disruptive products from ultra-high speed data transmission, portable radar, sensing, detection and imaging of all kinds.

Bio

Dr. Laskar received his B.Sc. in Computer Engineering from Clemson University and the M.Sc. and Ph.D. degrees from the University of Illinois at Urbana-Champaign. He has held faculty positions at the University of Hawaii and Georgia Tech.

Currently Dr. Laskar serves as CTO and SVP at Maja Systems, where they are pioneering the development of low power millimeter wave gigabit wireless products for 5G and IoT.

Prior to Maja Systems, Dr. Laskar and his team developed the following products : highly integrated power amplifier technology designed in on the Intel Centrino, the original CMOS design for the Qualcomm RF 360 chipset, CMOS mixed-signal solution for active cable technology such as Apple’s Thunderbolt. More than 50 patents, 600 technical publications and \$1B of revenue have resulted from these efforts.

NOTE MEETING STARTS AT 11 AM

Meeting Agenda:

11AM: Attendee introductions

11.05 Lunch

11:20 AM: Program Presentation

12:20 Discussion possible tours.

12:45 Admin. Meeting / Officers

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 is small building at South East corner of lot.

When: Tuesday October 18, 2016 - **11:00am – 1:00pm**, Registration fee is \$15. This fee will include lunch provided by the PERA Club. Students attending will not pay the fee.

Lunch: TBD

RSVP: Please advise Ronald Sprague r.sprague@ieee.org if you plan to attend so accounting for lunch is possible.

Technical Presentations: The Program Chair is seeking suggestion from members for future presentations and/or tours of local facilities of interest. Please contact Barry Perlman Program Chair at 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.

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 October 18, 2016
- Tuesday December 20, 2016

The Officers are as indicated below.

Officers:

Chair	Leslie Daviet II	lesdavietii@gmail.com
Vice Chair	Jim Tang	JFTANG@cox.net
Secretary	Tom Lundquist	tom.lundquist@ieee.org
Treasurer	Gary Frere	gary.frere@gmail.com
Membership	Rao Thallam	Rao.Thallam@gmail.com
Facilities	Ron Sprague	r.sprague@ieee.org
Program	Barry Perlman	barry.perlman@gmail.com
Past Chair	Barry Cummings	abarrycummings@gmail.com



IEEE Phoenix Section News

IEEE Phoenix Section Officer Terms

At the November 3, 2015 Executive Committee (ExCom) meeting of the IEEE Phoenix Section officers and representatives of the affiliated Chapters and Affinity Groups, a decision was made to change the term of IEEE Phoenix Section Officers from one year to two years in accordance with the bylaws the Phoenix Section operates under. The rationale of this decision included operational efficiency and effectiveness of individuals being in a position for two years and thus more able to implement improvements; program continuity and planning; and improved section operations.

Per the Phoenix Section website (<http://sites.ieee.org/phoenix/about/section-bylaws/>), the Phoenix Section is “required to operate in accordance with IEEE Constitution, Bylaws, Policies, and the MGA Operations Manual.” Per Section 9.4.F.7.b. of the MGA Operations Manual:

- “The term of office for all officers shall be one or two years. A Section must define the officer term as one or two years and record it in its local operating procedures document; if the officer term is not recorded in the local operating procedures document, it shall be two years. An individual may continue in the position until a successor has been duly elected and takes office.”

There may be times when an individual is unable to serve for two years in a position so annually the Nominating Committee will confirm with each officer their willingness and ability to serve in the specific position for the second year of their term. If someone needs to drop out after their first year or be replaced, the Nominating Committee will identify replacements and place them on the ballot for election. Typically, the officer succession plan is to request individuals serving as officers to progress through the various positions but this is not a requirement.

The purpose of this notice is to record the decision reached regarding Phoenix Section Officers serving two year terms. Please contact any of the Phoenix Section Officers if you have questions or input. Thank you.

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.

2016 Executive Committee

Chair:	Bruce Ladewig
Vice Chair:	Surinder Tuli
Secretary:	Vivek Gupta
Treasurer:	Mahesh Shah
Past Chair:	Barbara McMinn

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: Calendar of Activities

For any questions and inputs regarding the calendar of activities, please contact Dr. Surinder Tuli, Vice Section Chair, at Surinder.tuli@gmail.com.

October 2016

Conference on Technologies for Sustainability October 9-11 Phoenix AZ

Register for the SusTech Conference

Announcement of Student Paper Contest. Announcement of Student Scholarships

Call for nominations for awards: Young Engineer/YP, Engineer, Company, Educator

Region 6 Global Humanitarian Technology Conference Oct 13-16, Seattle , Washington

November 2016

Election of 2017 Officers

2017 budget development

Start advertising for Student Scholarships, Nominations due January

Start advertising for Phoenix Section Awards

Nominations due November

Need to determine how much money needs to be transferred from the Investment Account


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. Bruce Ladewig, Section Chair, at bruceladewig@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.

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

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](#).

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 Phoenix Section Senior Member Drive Update

Dear IEEE Senior Members and Fellows:

Greetings!!!

We writing this email on behalf of IEEE Phoenix Section Executive Committee to extend our sincere thanks to you for providing the needed references in support of nominations submitted by IEEE Phoenix Section as part of Senior Member Drive during 2016.

IEEE Phoenix Section has nominated total of 62 members to Senior Member grade to date during 2016. Out of these nominations, the following 54 IEEE Phoenix Section members were approved by IEEE Admissions & Advancement Committee to be elevated to the Senior Member grade:

Mr. David F. Abdo	Dr. Gregory Durnan	Prof. Kory W. Hedman	Mr. Andrew McNeil	Prof. David R. Scott
Mr. Francy Abraham	Dr. Samuel Ebenezer	Ms. Julie Heynssens	Ms. Barbara McMinn	Dr. Songhua "Shawn" Shi
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Congratulations to these members for achieving the IEEE Senior Member grade. We are hoping in very near future they will get elected for IEEE Fellow.

IEEE Phoenix Valley Megaphone October, 2016

The remaining 8 nominations and any other new nominations submitted by Sunday, November 6th, 2016, will be reviewed at the next IEEE A&A Meeting scheduled for Saturday, November 19th, 2016, in New Brunswick, New Jersey.

IEEE Phoenix Section is planning to continue with Senior Member Drive during remaining part of 2016, 2017, and beyond. We will be reaching out to you and those that are newly elected to IEEE Senior Membergrade for support with the needed references. We are hoping we can still count on your support.

We would also like to seek your support in reaching out to eligible IEEE Phoenix Section members among your colleagues and peers that may qualify for Senior Member grade. We will help with the coordination of the nomination process. Access http://www.ieee.org/membership_services/membership/senior/index.html to learn more about IEEE Senior Member grade.

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Free IEEE-USA eBook Offered as Special Benefit to

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As a special benefit of IEEE Membership through 15 June, IEEE-USA is offering a free eBook, ***Starting Your Start-Up Book 5: The Launch***, by author Tanya Candia.

The Launch presents a detailed roadmap to successfully launching a company and product, from setting realistic goals for the launch, determining the key messages, and preparing the sales team--to briefing the press and analysts, finding the right venue, and enlisting the help of early customers. This book takes you through all the necessary steps to a successful launch.

Candia writes that a company or product launch should achieve some well-defined goals. But she reveals many entrepreneurs don't comprehend the launch purpose, and most technologists don't understand when or how to launch a company or product. Further, Candia says if there is no clear understanding about the need for a launch, it will be difficult to set realistic goals.



The launch, Candia shares, should build brand awareness, smooth the process for sales efforts, build buzz around the company or product, and result in benefits that last far beyond the launch. And she presents the information in an easy way for the busy entrepreneurs to act upon and internalize it.

Some of the topics in *The Launch* are: The Definition of a Launch; The Intent and Expected Outcome; Timing; How to Develop a Launch Plan; How to Manage the Message; Implementing the Launch Plan; and Post-Launch: Where Do We Go from Here?

The last eBook in the *Starting Your Start-Up* series, *The Launch* is filled with exercises that will assist you in planning and executing a successful launch. Other titles in the Starting Your Start-Up series include:

- Book 1: Starting Your Start-Up
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- Book 3: Competitive Analysis
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Members can download *Starting Your Start-Up Book 5: The Launch* for free through 15 June 2016. Sign in with your IEEE Account, add the book to your Cart, and enter the promo code **MAYFREE16** at checkout.

In June, IEEE-USA eBooks will offer *Shaping an Engineering Career Book 2: Dual Career Ladders*, by Raymond E. Floyd and Richard H. Spencer.

In *Dual Career Ladders*, Floyd and Spencer give a brief summary of their backgrounds; write about their experiences in a dual ladder career; what they learned along the way; and they offer insight to readers who may be considering a dual ladder" career path.

IEEE-USA Webinars

Workplace Civility & Employee Engagement: Two Hot Workplace Topics

Many employees today are faced with certain types of incivility in the workplace. From rudeness to belittling another employee's efforts, to outright bullying. Our presenter Nathalie Thompson of 5 Fold Consulting has heard and seen all these things take place in many workplaces. Nathalie has extensive experience in conflict resolution and mediation and is often brought in by companies to address these workplace problems.

IEEE-USA is sponsoring [a webinar on Thursday, 16 June at 2:00](#)

[pm EDT](#) so Nathalie can provide solutions to any IEEE member that might be facing these

issues or managers tasked with solving these complicated workplace issues. The webinar [Civility in the Workplace](#) is designed to prepare all members to deal with this growing concern.



Employee Engagement

Elizabeth Lions has again graciously volunteered her time to speak with IEEE members about *Employment Engagement*. An "engaged employee" is one who is fully absorbed by and enthusiastic about their work and so takes positive action to further the organization's reputation and interests. According to Gallup, only 30 percent of workers are engaged at work, which results in over US\$550 billion lost in productivity. Please join us on Friday, 24 June at 1:00 pm EDT for [Employee Engagement: How to Take the Reins and Get Involved](#) and let Elizabeth walk us through what is employee engagement and why is it important.

Refer a Colleague, Get Great Merchandise!

In conjunction with IEEE-USA, IEEE is excited to continue this special offer for U.S. members refer a colleague to IEEE. If they join before the end of the membership year, they'll get a 25% discount off their first year membership, and you'll get a gift. IEEE-USA gift items you can choose from include:

Cooler backpack	Computer backpack
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Members remain eligible to receive incentives through the existing IEEE Member-Get-a-Member (MGM) program. How it works:

- Refer your colleague via the [online form](#).
- Your referral will receive an email inviting them to join at a 25% discount off first-year membership dues, and will receive benefits through 31 December 2017.

- Your referral will provide your IEEE member number when he or she joins.
- Within 1-2 weeks after your referral joins, you will receive an email confirming your recruiting success, including a link which allows you to select your IEEE-USA merchandise item.
- You will receive a separate email for each new member you recruit.

Please help spread the word and share your IEEE experience - no one knows how beneficial IEEE Membership is to technical and career development better than you, the member. [Refer your friends and colleagues today!](#)

IEEE in 2030 Challenge Seeks the "Next Big Idea"

For the second year, IEEE is holding the IEEE in 2030 Challenge, designed to discover innovative, creative, and potentially disruptive approaches to new products and services targeted to technology professionals in industry. The IEEE New Initiatives Committee is currently accepting proposals for short-term (completed in 12 months or fewer) projects. **Submissions for the IEEE in 2030 Challenge are due by 1 July 2016.**



Applications may be submitted by one or more IEEE members or organizational units, individually or in cooperation with an IEEE staff group. The proposals will be evaluated on their potential to lead to new IEEE products, services and communities delivering value to engineers and technology professionals working in industry.

For more information, and to submit a proposal, [visit the 2030 Challenge page.](#)

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Generating Media Coverage for IEEE Members

IEEE's Public Visibility Initiative continues its efforts to increase worldwide recognition of the IEEE brand and its members. This initiative is intended to foster awareness of members ongoing contributions to society for the benefit of humanity, and to elevate these IEEE members to their peers and the general public. To view additional member media coverage

visit [IEEE in the News](#).