The Valley Megaphone

IEEE — Phoenix Section

◆IEEE

Executive Committee 2016

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Student Activities
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Awards
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IEEE Phoenix Section on-line updates can be found at **http://sites.ieee.org/phoenix/** and on LinkedIn at:**http://www.linkedin.com/groups?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)

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EMBS Chapter
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Solid State Circuits
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Life Members
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lesdavietii@cs.com

Women In Engineering
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Young Professionals
Jennifer Taggart, 928-581-5198
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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
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ASU Main, Computer Society
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ASU Main, Power and Energy Society
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Advisor: Kory Hedman
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NAU, Engineering
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Embry-Riddle, Prescott
Chair: Lisa M. Ferguson
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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 the 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. Gulledge
Professor, College of Engineering and Information Sciences
Councilor, IEEE Student Branch
DeVry University, Phoenix Arizona
rgulledge@devry.edu

A Generous Challenge in Support of Arizona Science Lab

The Arizona Science Lab (ASL), an IEEE Phoenix Section Program, is one of the most impactful programs with which our Section has been involved. Recently, it caught the attention of Mr. Gary Tooker, Former Chairman and CEO of Motorola, Inc. and an IEEE Life Member, who has offered to match up to **$50,000** in a dollar-to-dollar challenge of all donation raised from IEEE Phoenix Section Members **between now and December 31st, 2016**. In order to take full advantage of Mr. Tooker's generosity, the Phoenix Section Executive Committee is working with the IEEE Foundation to raise funds in support of ASL. Mr. Tooker said "We encourage all our IEEE Phoenix Section Members to join Diane and me in supporting the great work of ASL in exciting more young people to pursue STEM courses and careers".

Arizona students' rank 35th in the nation according to standardized testing in science and math. This unique program offers hands-on, project-based science workshops for more than 2,000 students in grades 4-8 each year. The workshops are taught by expert, credentialed engineers and scientists that include IEEE members and others.

Launched in February 2009, ASL is a volunteer group operating under the management of the IEEE, a 501(c)(3) organization. ASL volunteers, including retired and employed engineers, scientists and teachers, university students and other professionals create exciting Science, Technology, Engineering, and Mathematics (STEM) based workshops for the students and deliver them from the Evans Learning Center facility located in Tempe, Arizona. These workshops stimulate the student's interest in STEM subjects, and inspire them to pursue studies and future careers in STEM related fields.

This experimental based learning offers the students a window into the world of science, technology, engineering and mathematics (STEM) through a unified lesson including scientific principles, social relevance, experimental demonstrations, and hands-on engineering project construction activities. This program, offered **free of charge** to all grade 4-8 student classes in the **greater Phoenix area**, responds to the growing concern that not enough students are adequately prepared to enter into the fields of science, technology, engineering and/or mathematics (STEM). A key focus of ASL is serving the needs of underserved students in low performing schools with a State Grade of "C" and "D" and Federal "non-AYP" and "Title 1" schools.

ASL is supported by our sponsor organization, community partners, and IEEE members like you. Learn more about ASL at www.azsciencelab.org.

IEEE Phoenix Section Executive Committee requests all members to help us reach our challenge match by making a generous donation to this worthwhile cause. Donations can be made online to the IEEE Foundation [https://ieeefoundation.org/support_azsciencelab] or mailed to IEEE Foundation, 445 Hoes Lane, Piscataway, New Jersey 08854, USA. Consider the range of gifts necessary to meet the challenge and **let us know where you fit in!**

1 gift of $10,000 = $10,000,	3 gifts of $5,000 = $15,000,	5 gifts of $1,000 = $5,000
10 gifts of $500 = $5,000,	20 gifts of $250 = $5,000,	100 gifts of $100 = $10,000

If circumstances don't allow you to make a gift at one of the above levels, we would be happy to accept a donation of any amount.

Contact Mr. Rickie Currens at rickie.currens@att.net and Dr. Vasudeva Prasad Atluri at vpatluri@ieee.org for additional information and clarifications.

Thank you for helping us help the youth of the greater Phoenix Area embrace the wonders of STEM!

THE ARIZONA SCIENCE LAB

Evans Learning Center, 4525 S. College Ave, Tempe, AZ

www.azsciencelab.org

ASL VOLUNTEER POSITION DESCRIPTION

The primary objective of the IEEE "Arizona Science Lab" program is to encourage students in grades 4 - 8 to become interested in science, technology, engineering and/or math (STEM) so they might pursue studies and a career in one of these fields. Through interactive workshops the ASL program is trying to reverse the widely acknowledged continuous downward trend in the number of students opting for studies and careers in STEM. The secondary objective of the ASL is to encourage retired engineers and scientists, employed engineers and scientists, retired teachers, university engineering students, and anyone with an interest in science and a practical aptitude to become engaged with the students and share their knowledge, expertise and passion for engineering and science with them.

To accomplish both of these objectives, ASL offers science workshops, executed by a team of teachers and 5-7 volunteers, to student classes in grades 4-8 throughout the Phoenix metro area, in our facility in Tempe, with all the volunteers, equipment and supplies being provided at no cost to the teacher or school or students.

See some short videos at this link: http://www.azsciencelab.org/workshop-videos.html

Position Description:

IEEE ASL Volunteers provide the academic and career support to grade 4 - 8 students during these 4 hour one day workshops in the IEEE Arizona Science Lab. Volunteers teach students science and help them perform experiments and construction projects that reinforce the science they have been taught. Volunteers also advise students on studies and careers in science and engineering.

In each workshop there are two different positions:
- **Teacher:**   responsible for giving the lectures and managing the demonstrations.
- **Supporters:**   responsible for working with the students on experiments and the construction projects.

Qualifications & Responsibilities:

- Retired or employed engineer or scientist or teacher, or university engineering or science student, or anyone with an interest in science and an aptitude for hands-on activities
- Enthusiasm for science, technology, engineering and math (STEM)
- Desire to share knowledge and experience with grade 4 - 8 students
- Desire to help students learn and enjoy science
- Commit one day in a week at least twice a month as a Workshop Teacher or Project Supporter
- Actively participate in IEEE ASL Group meetings to review program status, discuss issues and ideas, review lesson plans, etc.
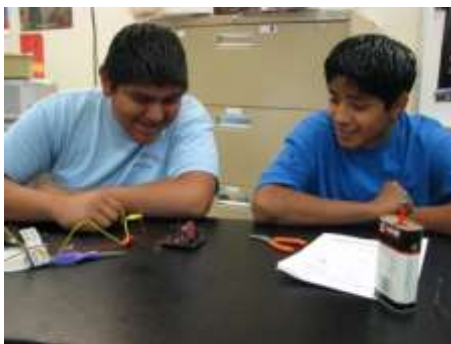
TISP/ASL Provided Training and Orientation:

- Understand how IEEE ASL operates.
- Deepen your teaching skills.
- Expand your tutoring and support techniques.
- Increase your sensitivity to different cultures and age groups.

Benefits:

- Access to free trainings and workshops.
- Opportunity to make a difference in a child's life and in your community.
- Share the excitement and "Wow Factor" the students have when they complete and test their project.
- Be a small part of helping create a better world for tomorrow — students will remember these workshops and your help and advice for a very long time!

The "Wow!" Factor In The IEEE ASL Lesson Workshops

For more information: visit our website: www.azsciencelab.org OR contact:

| Richard Hrusovsky | ASL Director of Volunteer Recruitment | rhrusovsky@azsciencelab.org |
| Stuart Wecker | ASL Executive Director | swecker@azsciencelab.org |

"Helping Students Transfer What Is Learned In The Classroom To The World Beyond"

Upcoming Conferences in Region 6

Hello IEEE Student Members!

IEEE 3rd World Forum on Internet of Things (WF-IoT) will be held in Reston VA USA, 12-14 December 2016.

International Conference on Consumer Electronics (ICCE) will be hosted Las Vegas NV, in Region 6, for the 35th year, on Jan 8-11, 2017.

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

IEEE Components, Packaging and Manufacturing Technology Society
Phoenix Chapter

2016 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 Licciardi
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. 12, 2016	Current and Future of Microelectronic Packaging	Darvin Edwards
Nov. 16, 2016	2.5D and 3D IC Technology for Electronic Microsystems: Design Considerations and Experimental Demonstrations	Prof. Muhannad S. Bakir
December	**No meeting Planned**	

The IEEE Phoenix Section, CPMT Society Chapter is seeking nominations for the following elected Section officer positions for the 2016 term:

- Chair
- Asst. Chair
- Secretary
- Treasurer

Additionally, the Nominating Committee is seeking candidates for some of the following non-elected appointed standing committee Chair positions for the 2016 term:

- Program Chair
- Tutorial Chair
- Workshop Chair
- Publicity
- Web Master

Society officers must be IEEE and CPMT members. Self-nominations are acceptable.
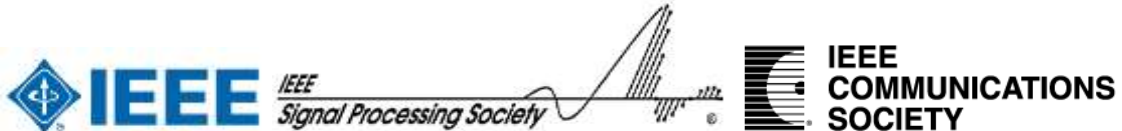
Please send nominations or any questions to any member of the Nomination Committee via an email.

Dr. Mahesh Shah (Current Chair): **mkshah@ieee.org**
Dr. Vasudeva Atluri (Past Chair): **vpatluri@ieee.org**

Deadline for Nominations is midnight, Sunday, December 4, 2016.

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

December, 2016

Meetings

The dates for our upcoming meetings in 2016 & 2017 are shown below. All are second Wednesdays and all meetings begin at 6:00 pm and end at 9:00 pm.

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

DeVry University Phoenix is located at 2149 W Dunlap, Phoenix (about ½ mile east of I-17 on Dunlap). We thank DeVry for the privilege of holding our meetings at their campus.

Speakers are confirmed for both of these meetings. Note that we normally meet in February, but next year we intend to cancel the February meeting in lieu of the IEEE Awards Banquet which will be held the weekend following our normal meeting date. If this decision changes, we will notify you.

Our presenter on December 14th will be Mark Goldstein of International Research Center. Mark is a well known speaker in Phoenix and has presented to the computer society on multiple occasions in the past. Mark will provide us with an update on the Internet of Things.

Presentation

The IEEE Computer Society Phoenix Chapter Presents:

Internet of Things Innovations & Megatrends Update

With Mark Goldstein, President, International Research Center

Wednesday, December 14, 2016 from 6:00-9:00 PM

Presentation: Mark Goldstein, President of International Research Center will explore the next Internet wave, the Internet of Things (IoT), expected to connect tens of billions of new sensors and devices in the coming years. Waves of change will roll through home, business, government, industrial, medical, transportation, and other complex ecosystems. Join us as we examine how IoT will be implemented and monetized creating new business models from pervasive sensor deployments and data gathering, accompanied by new privacy and security risks. Come and explore IoT's roadblocks and operational challenges, emerging standards and protocols, gateway and wireless integration, and big data strategies and opportunities.

Speaker: Mark Goldstein is President of International Research Center (http://www.researchedge.com/), providing consulting, custom research, and strategic support for business, legal and public policy clients across a variety of disciplines and arenas since 1992. IRC concentrates on clients' needs in the complex worlds of telecommunications, information technology, eCommerce, eContent, eLearning, the Internet, biotechnology and other domains by harnessing global information resources for informed decision making. He also represents Sustainability Partners (http://www.gsvsp.com/), a transformative finance company that provides full funding for sustainable energy and conservation projects under a shared savings model.

Mark is a technophile and technology visionary, activist, advisor, and entrepreneur with extensive experience and connections throughout myriad technology sectors. He is involved with a number of policy, economic development, professional, and trade groups, and a frequent speaker and trainer. Mark previously worked for 18 years in electronic and computer engineering including 12 years managing engineering teams and projects for Medtronic, a Fortune 500 biomedical device manufacturer. He worked in the mid-seventies for MicroAge in R&D at the beginning of the personal computer revolution.

Logistics: The next chapter meeting will be held on Wednesday, December 14th, at DeVry University, Phoenix Campus, at 2149 W. Dunlap Ave., Phoenix, AZ 85021 (about 1 mile east of I-17 on Dunlap Ave.). There is no charge to attend. The meeting will begin at 6:00 PM with light refreshments and networking followed by the presentation and Q&A from 7:00-9:00 PM.

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

IEEE **Phoenix Section Life Member Affinity Group**
Celebrating 125 Years
of Engineering the Future

Technical Presentation and Administrative Meeting

Meeting Tuesday December 20, 2016

Program Presentation: "Research Outside the Confines of Traditional R&D"
by
Dr. William Chappell, Director, DARPA Microsystems Technology Office

Abstract: The U.S. Defense Advanced Research Projects Agency (DARPA) has had a long history in foreshadowing large scale shifts in technology. Programs currently within the Microsystems Technology Office (MTO) are on the cusp of changing several technological landscapes in the MEMS, Photonics, Processing, SiGe, and GaN communities. This talk will cover these specific technologies in detail, while attempting to predict the impact of these technologies for future National Security issues.

Bio: Dr. Chappell received his Bachelor of Science (summa cum laude), Master of Science, and Doctorate of Philosophy degrees in Electrical Engineering, all from the University of Michigan.

Currently Dr. Chappell serves as director of the Microsystems Technology Office (MTO) where he focuses the office on three key thrusts important to national security including ensuring unfettered use of the electromagnetic spectrum, building an alternative business model for acquiring advanced DoD electronics that feature built-in trust, and developing circuit architectures for next-generation machine learning.

Prior to his role as MTO director, Dr. Chappell managed DARPA programs on adaptable radio frequency (RF) systems and low-cost antenna array technologies. If these programs become fully successful, they will result in the deployment of RF components that provide the DoD with unperturbed access to the electromagnetic (EM) spectrum while enhancing society's ability to connect by way of the same EM resource.

NOTE MEETING STARTS AT 11 AM

Meeting Agenda:

11AM: Attendee introductions
11.05AM Lunch
11:20AM Program Presentation
12:30PM Nominations from the floor for Officers positions
    If you are a member you know are willing to accept an officers position you may nominate by responding back to tom.lundquist@ieee.org or at the December 20th meeting. We particularly are in need for a PROGRAM Chair nominee as Barry Perlman is unable to continue.
12:35PM Vote for Officer Nominees
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 December 20, 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 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 Spraque	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.

IEEE Phoenix Section Nomination of Officers for 2017-18

Have you been looking for a way to volunteer with IEEE? Have you wondered how you could influence how the IEEE Phoenix Section supports and contributes to its members?

Opportunity is knocking as the IEEE Phoenix Section is seeking nominations for the following elected Section officer positions for the 2017-18 term:

- Chair
- Vice Chair
- Secretary
- Treasurer

In addition, the Nominating Committee is seeking candidates for some of the following non-elected, appointed standing committee Chair positions for the 2017-18 term:

- Publicity
- Membership
- Student Activities
- Conferences
- Awards
- Inter-Society
- PACE (Professional Activities Committee for Engineers)
- TISP (Teacher In-Service Program)
- ASL (Arizona Science Lab)
- Web Master

Please note, these individuals will be serving for a 2 year term. This is a great opportunity to learn more about how IEEE and the Phoenix Section work and to be able to influence the projects and activities undertaken by the Section.

Section officers must be IEEE members. Self-nominations are acceptable and encouraged.

Please send nominations or any questions to any member of the Nominating Committee:

- Barbara McMinn (Chair) barbara.mcminn@aps.com
- Rickie Currens rickie.currens@att.net
- Mike Andrews m.andrews@ieee.org
- Vasu Atluri vpatluri@ieee.org

Deadline for nominations is November 18, 2016.

We hope all interested parties will take this opportunity to become more involved with the IEEE Phoenix Section and help us continue to improve our member support. Thank you.

◆IEEE # IEEE PHOENIX SECTION ◆IEEE

Annual Banquet - Saturday, February 11th, 2017

Phoenix Airport Marriott, 1101 North 44th Street, Phoenix, Arizona 85008

Keynote Presentation

Title: The Strategic Landscape for Healthcare: Balancing Technological Innovation and the Cost of Care

Speaker: Dr. George Poste

Chief Scientist of Complex Adaptive Systems Initiative (CASI)
Regents Professor and Del E. Webb Chair in Health Innovation
Arizona State University
SkySong, 1475 N. Scottsdale Rd, Suite, 361, Scottsdale, Arizona 85257
Tel: 480.727.8661, Email: George.Poste@asu.edu

Abstract

Healthcare is entering an era of conflicting opportunities and constraints. The pace of discovery in biomedical research is accelerating with the promise of unprecedented opportunities to improve health. At the same time, the demographics of an aging society will dramatically increase the prevalence of high cost diseases such as cancer and neurodegeneration and reveal the growing imbalance between infinite demand for care versus finite resources and the economic unsustainability of the current $3 trillion healthcare ecosystem. The best opportunity to balance these conflicting forces lies in the evolution of precision medicine which seeks to understand how genetics, environment, lifestyle and behavior affect individual disease risk. These insights will shift care from the current wasteful, inefficient 'one-size-fits-all' approach to disease treatment and prevention to more proactive approaches in which care is increasingly customized to the risk profile of an individual. Making precision medicine a reality will depend on convergence of technologies for profiling disease at the molecular level with the use of sensors, mobile devices and social media to monitor health status in real-time both in and outside of healthcare facilities. Integration of these diverse technologies will redraw the boundaries of traditional medicine and engage new participants from the telecommunications, electronics, logistics and consumer services sectors hitherto uninvolved in healthcare. Above all, these trends will generate data of unprecedented scale and complexity. Precision medicine and data-intensive medicine are inextricably linked. The healthcare ecosystem is ill-prepared for this data deluge. Implementation will impose disruptive changes in clinical practice, the design of new organizational models for health services and an increased emphasis on data analytics, machine learning and computerized decision support tools in clinical decisions. Despite the appeal of these technology-centric trajectories, demonstration of their economic value in reducing the cost of care will be the critical determinant in the speed at which precision medicine becomes routine practice.

Speaker Biography

Dr. George Poste is the Del E. Webb Professor of Health Innovation and Chief Scientist, The Complex Adaptive Systems Initiative (CASI) (http://www.casi.asu.edu) at Arizona State University (ASU). This program integrates research in genomics, synthetic biology and high performance computing to study the altered regulation of molecular networks in human diseases to develop new diagnostic tests for precision (personalized) medicine and the remote monitoring of health status using miniaturized body sensors and mobile devices. He assumed this post in 2009. From 2003 to 2009 he directed and built The Biodesign Institute at ASU.

He has published more than 350 research papers and edited 14 books on pharmaceutical technologies, cancer and infectious diseases. He has received honorary degrees in science, law and medicine for his research contributions.

He serves on the Board of Directors of Monsanto, Exelixis, Caris Life Sciences, and the Scientific Advisory Boards of the A. Alfred Taubman Medical Research Institute at the University of Michigan, Synthetic Genomics, Health Longevity Inc. and Haplogen GmbH. From 1992 to 1999, he was Chief Science and Technology Officer and President, R&D, of SmithKline Beecham (SB) – now GlaxoSmithKline (GSK). During his tenure at SB, he was associated with the successful registration of multiple drug, vaccine and diagnostic products. He received the 'R&D Scientist of the Year' Award from R&D Magazine in 2004, the Einstein Global Business Leadership Council Award in 2006, the Scrip Lifetime Achievement Award in 2009 and the Arizona Bioscience Industry Pioneer Award for Lifetime Achievement in 2016.

He is a Fellow of the U.K. Royal Society, the Royal College of Pathologists and the U.K. Academy of Medicine, a former Distinguished Fellow at the Hoover Institution, Stanford University, a member of the Council for Foreign Relations, a Governor of the Bulletin of Atomic Scientists, and a member of the U. S. Institute of Medicine Board on Global Health. He has served as a

member of the Defense Science Board of the U.S. Department of Defense and currently serves on advisory committees for several U.S. government agencies in defense, intelligence, national security and healthcare.

◆IEEE   # IEEE PHOENIX SECTION   ◆IEEE

Annual Banquet - Saturday, February 11th, 2017
Phoenix Airport Marriott. 1101 North 44th Street. Phoenix. Arizona 85008

Banquet Agenda

Registration / Social Hour:	5:00 PM – 6:00 PM
Sit-Down Dinner:	6:00 PM – 7:00 PM
Section Program:	7:00 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

Business Attire is recommended

Banquet Registration Fees

IEEE Members – All Categories:	$60.00
IEEE Student Members:	$40.00
IEEE Member and Student Member Guests:	$60.00
IEEE Student Branch Table without Guests:	$400.00
IEEE Society Chapter / Affinity Group Table:	$600.00
Corporate Sponsorship:	$1500.00

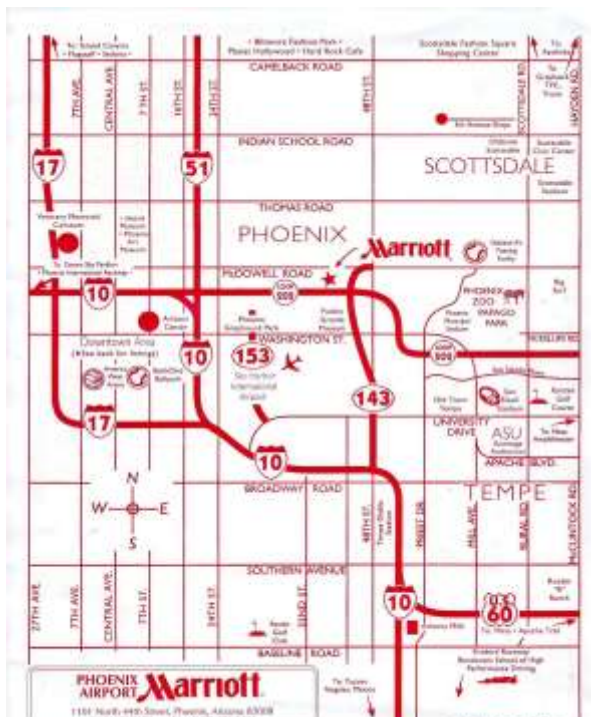**Banquet Registration Direct Link:** https://events.vtools.ieee.org/meeting/edit/42498

Note:
> IEEE Members of all categories including student members should list their membership numbers at the time of registration.
  o   The membership should be current and will be checked against IEEE Member Data Base.
> All tables seat ten attendees. Student Member table for ten cost is for seating ten IEEE Student members.
  o   Cost for guests seated at the Student Branch table is $60.00.
> Corporate Sponsorship includes recognition in program, table of ten for dinner, and 6' x 3' space for a display.
> Meals choice should be made during online registration. Refer to menu on the next page.
  o   Dinner is not guaranteed without meal choice.
> **Deadline for registration is Sunday, February 5th, 2017. No exceptions will be made.**
> For additional information about the banquet, access the website located at
>   http://sites.ieee.org/phoenix/2016/12/07/annual-banquet-saturday-february-11th-2017/

Banquet Venue

/\\/\arriott
PHOENIX AIRPORT

1101 North 44th Street
Phoenix, Arizona 85008
(602) 273-7373

Northeast of Red Mountain Freeway
(Loop 202) and 44th Street

◈**IEEE**   # IEEE PHOENIX SECTION   ◈**IEEE**

Annual Banquet - Saturday, February 11th, 2017

Phoenix Airport Marriott, 1101 North 44th Street, Phoenix, Arizona 85008

Banquet Menu

Social Hour

Appetizers

Spanakopita
Chicken Sate
Assorted Vegetable & Assorted Cheese Displays

Cash Bar

Guests to Buy Tickets from the Hotel Cashier sitting next to Bar and present to Bartender for the Desired Drink

Drink Prices

Premium Brands @ $8.00 Each
Absolute, Beefeaters, Bacardi Silver, Jack Daniel's, Dewar's, Sauza Gold, & Canadian Club
Wine by the Glass @ $8.00 per Glass
Canyon Roads Chardonnay, Cabernet Sauvignon, or Merlot
Domestic Beer Selection @ $5.00 per Bottle
Bud, Bud Light, Miller Lite
Imported Beer Selection @ $6.00 per Bottle
Corona, Heineken, Amstel Light
Assortment of Juice, Soda & Bottled Water @ $3.50 Each
Specialty Beer Selection @ $6.00 per Bottle
Sam Adams, Non-Alcoholic Beer St. Pauli, & O'Douls

Dinner Menu

Salad

Strawberry Fields Dinner Salad
Chilled Spring Mix, Candied Pecans, Crumbled Maytag Bleu Cheese, with Raspberry Vinaigrette Dressing Sliced Strawberries, Mandarin Oranges
Served with Assorted Rolls & Butter

Entrees

Chicken Mediterranean
Boneless Breast of Grilled Chicken with sun dried tomato pesto, roasted red & yellow peppers, fresh mozzarella cheese
Served with Roasted Asparagus & Roasted Baby Red Potatoes
OR
Sliced Roast Beef Strip
Served with Red Wine Demi Sauce, Roasted Asparagus & Roasted Baby Red Potatoes
OR
Grilled Filet of Salmon
Served with Dejon Cream Sauce, Roasted Asparagus & Roasted Baby Red Potatoes
OR
Vegetarian / Vegan: Grilled Balsamic Portabello Mushroom Stack
Served Over Garlic Mashed Potatoes, Roasted Asparagus & Roasted Baby Red Potatoes

Dessert

Cheesecake with Raspberry Sauce or Raspberry Sorbet (Vegan)
Served with Freshly Brewed Regular & Decaffeinated Coffee & Hot Tea

IEEE Phoenix Section Information

Support the IEEE Phoenix Section by Joining as Volunteer in Section Committees, Society Chapters, Affinity Groups, and Student Branches
IEEE Phoenix Section Executive Meeting on First Tuesday of the Month at Hilton Phoenix Airport Except for January, July, and August
IEEE Phoenix Section Executive Committee Meeting is Open to Section Members
Visit the Section website at sites.ieee.org/phoenix/ for additional information

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IEEE Phoenix Section Awards For The Year 2016

The IEEE Phoenix Section recognizes the contributions of members, non-members, society chapters, affinity groups, student branches, corporations, and educational institutions at the annual banquet. The next banquet is scheduled for Saturday, February 11th, 2017 at Phoenix Airport Marriott located at 1101 N. 44th Street, Phoenix, AZ 85008 from 5:30 PM to 9:30 PM (Tel: 602-273-7373).

The Section is pleased to issue a call for nominations for this year's Section awards. The scope and purpose of the Section Awards Program is to plan, promote and implement IEEE award programs that recognize outstanding performance in furthering the objectives and professional aims of the IEEE Phoenix Section, the IEEE, and the IEEE-USA, and to stimulate others to pursue such achievements of excellence.

The Phoenix Section has established the following general award categories:

- Member
- Society Chapter/Affinity Group
- Non-member
- Corporate
- Educational
- Section Chair

The Awards Guide lists the awards along with the selection criteria that will be implemented for selecting the award recipient. The Awards Guide can be accessed at http://sites.ieee.org/phoenix/files/2013/10/IEEE-Phoenix-Section-Annual-Banquet-2014-Award-Nomination-Instructions-Ver.-1-Final.pdf.

Please read through the Awards Guide to help you in selecting the award category for nomination.

All sections of the form should be completely filled electronically. Submission of additional documents such as resume in support of the nomination is highly encouraged.

Key Dates:
Submission Website Opens: Tuesday, November 1st, 2016
Submission deadline: Wednesday, January 11th, 2017
Awardees and nominators will be informed by: Wednesday, January 18th, 2017

Only nomination forms submitted by the deadline will be reviewed by the awards committee consisting of the following IEEE Phoenix Section Officers:

- Awards Committee Chair: Dr. Vasudeva P. Atluri
- Awards Committee Vice-Chair: Dr. Charles E. Weitzel
- Past Chair: Ms. Barbara McMinn
- Chair: Mr. Bruce J. Ladewig
- Vice Chair: Mr. Surinder K. Tuli
- Secretary: Mr. Vivek Gupta
- Treasurer: Dr. Mahesh K. Shah
- Student Activities Coordinator: Dr. Diane S. Smith

For additional information, please contact Dr. Vasudeva P. Atluri, Section Awards Committee Chair, at (480) 227-8411 or by email at vpatluri@ieee.org, and Dr. Charles E. Weitzel, Section Awards Committee Vice-Chair, at (480) 292-0531 or by email at c.weitzel@ieee.org.

EEE Phoenix Section Student Scholarships For The Year 2016

The IEEE Phoenix Section awards Student Scholarships to full-time graduate and undergraduate students who are IEEE student members. The applying student must attend a full academic year at a university in the Phoenix Section during 2016. The universities include Arizona State University, DeVry University, Embry-Riddle Aeronautical University, and Northern Arizona University.

The student must submit a completely filled application along with a financial aid statement; a one-page personal statement of achievements, interests, and goals; official transcripts of all college work; and two recommendation letters from the School's faculty. The scholarships are awarded based on academic achievement, financial need, and service to the IEEE.

The IEEE Phoenix Section will present the following Student Scholarship awards at the annual banquet scheduled for Saturday, February 11th, 2017 at Phoenix Airport Marriott located at 1101 N. 44th Street, Phoenix, AZ 85008 from 5:30 PM to 9:30 PM (Tel: 602-273-7373):

"Atluri Award" sponsored by Dr. Vasudeva Prasad Atluri and Dr. Satyavathi Atluri. Total of two award recipients are presented with a plaque and a check for $1000.00 each. Only graduate students are eligible for these awards.

"Al Gross Award" sponsored by IEEE Components, Packaging, and Manufacturing Technology (CPMT) Society Phoenix Chapter. The award recipient is presented with a plaque and a check for $1000.00. Graduate and undergraduate students are eligible for this award.

"Irv Kaufman Award" sponsored by IEEE Waves and Devices Phoenix Chapter. The award recipient is presented with a plaque and a check for $1000.00. Graduate and undergraduate students are eligible for this award.

"Dieter Schroder Award" sponsored by IEEE Phoenix Section. The award recipient is presented with a plaque and a check for $1000.00. Graduate and undergraduate students are eligible for this award.

The checks for these four awards are given out from the IEEE Phoenix Section Student Scholarship Endowment administered by the IEEE Foundation. To learn more about IEEE Foundation, access http://www.ieeefoundation.org/.

Only applications received by the deadline, Wednesday, January 11th, 2017, will be reviewed by the awards committee consisting of the following IEEE Phoenix Section Officers:

Awards Committee Chair: Dr. Vasudeva P. Atluri
Awards Committee Vice-Chair: Dr. Charles E. Weitzel
Past Chair: Ms. Barbara McMinn
Chair: Mr. Bruce J. Ladewig
Vice Chair: Mr. Surinder K. Tuli
Secretary: Mr. Vivek Gupta
Treasurer: Dr. Mahesh K. Shah
Students Activities Coordinator: Dr. S. Diane Smith

Student scholarship winners, upon receiving notification from IEEE Phoenix Section Awards Committee, should send by email completely filled either Form W-9 for US Citizen or Form W-8 for Non-US Resident to Mr. Richard Allen, Senior Annual Giving & Data Integrity Specialist, IEEE Foundation, at richard.allen@ieee.org with a copy to Dr. Vasudeva P. Atluri, Section Awards Committee Chair, at vpatluri@ieee.org, by Sunday, January 22nd, 2017.

Key dates:
Submission Website Opens: Tuesday, November 1st, 2016
Application submission deadline: Sunday, January 11th, 2017
Scholarship recipients will be informed by: Wednesday, January 18th, 2017
Submit W-8 and W-9 Forms by: Wednesday, January 22nd, 2017

If you have any additional questions, please contact and Dr. Vasudeva P. Atluri, Section Awards Committee Chair, at (480) 227-8411 or by email at vpatluri@ieee.org and Dr. Charles E. Weitzel, Section Awards Committee Vice-Chair, at (480) 292-0531 or by email at c.weitzel@ieee.org.

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.

December 2016
Declare Election of 2017 Officers
2017 Budget Development
Report of Section activities for the year
Appoint chairs of Section committees
Annual Banquet:
- Finalize speaker
- Email program
- Section Award Nominations Due; Student Scholarship applications due January

January 2017
Annual Banquet: Awards selection and notification
Officer's Appreciation Dinner - January TBD
Finalize Section committee Chairs and Chapter chairs and updated website
Scholarship Applications due
Scholarship Awards announced
Concentration Banking Account year end statements available
Future City competition: Jan 21-Jan 28 Final. Need Judges to help
Deadline for submission of 1099 reports and bank account disclosure form

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 LinkdIn page by clicking [in] 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 [f] 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 your click on Invite button, it will get your email contact list. Your facebook contact list will already be populated with your Facebook friends and you can simply click the Invite button next to their name. Please invite as many friends as you can.
3. Provide me the contents for posting on a regular basis - meeting/ event announcements, Event pictures, Videos.
4. Start some discussion topics under - Status section.

IEEE Membership Grade Advancement

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

Enhanced Senior Member Application Launched

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

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

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

IEEE Member's Benefits

Job Seekers

Look for job postings and other career opportunities in IEEE Collabratec. Visit the Opportunities section to:

- Search job listings and filter by location, interest, and posting date.
- Manage your saved job listings for quick reference and review.

There are over 2,100 job posted in IEEE Collabratec in technical areas such as:

- Communications (signal processing), *over 1,000 jobs posted*
- Energy, *over 600 jobs posted*
- Information Technology, *over 600 jobs posted*
- Nuclear and Plasma Sciences, *over 300 jobs posted*
- Biomedical Engineering, *over 300 jobs posted*
- Cybersecurity, *over 100 jobs posted*

Have Recruiters Find You

Make yourself visible to recruiters who represent the top technology firms in their respective industries. Get started by enabling your Employment Preferences under the Settings tab in Opportunities. Identify your desired interest in areas such as:

- Job type (Full-time, Part-time, Temporary, Internship)
- Preferred amount of business travel
- Willingness to relocate
- Employer location (Country, State, City)
- Annual salary

Upload your CV/Resume to further enhance your visibility to recruiters. Recruiters will be searching for potential candidates by using search tools that scan your CV/Resume for key word matches.

Thank you to the Charter Sponsors of IEEE Collabratec

Member Discounts

IEEE members can access more savings in more places for home and office including group discounts on insurance, travel, home/office and technology needs. While you focus on your

career, well take care of saving you money. See vendor details for terms, conditions and availability.

Visit the Member Discounts page at www.ieee.org/discounts to discover this added perk of IEEE Membership.

Lenovo

Work and life never stand still... neither should your PC! Now is the time to upgrade and save instantly up to 38% off select Lenovo PC desktops, laptops, tablets, and accessories that keep you in motion.

Shop now at www.lenovo.com/ieee and save in the month of May!

- Up to 38% off Lenovo Tablets
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- Up to 15% off ThinkCentre Desktops
- Up to 13% off Lenovo Laptops

Innovation...never stand still.

A Message from Liberty Mutual Insurance

Auto & Home Insurance That Give You Peace of Mind

Liberty Mutual has partnered with IEEE to offer members exclusive savings on auto and home insurance.* Along with quality coverage, expert advice, and personalized service, you could also enjoy our valuable and unique benefits, such as Better Car Replacement, Accident Forgiveness, Home Protector Plus, and our Multi-Policy Discount. Helping people live safer, more secure lives for more than 100 years, Liberty Mutual is a company you can trust.

Call 1-800-531-4958 or visit Liberty Mutual to learn more or get a free quote.

* Discounts and savings are available where state laws and regulations allow, and may vary by state. To the extent permitted by law, applicants are individually underwritten; not all applicants may qualify.

Be Prepared: May is Disability Insurance Awareness Month

Brought to you by the IEEE Member Group Insurance Program

What if you become disabled and you were not able to work? How would you continue to pay your bills and take care of your family?

Now is a good time to ask yourself these questions and evaluate your financial protection. Disability insurance helps provide valuable income protection and peace of mind, but many people underestimate their risk or need for it. Here are some common myths and facts about disabilities to help make sure you're aware AND prepared.

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Kirk St. Amant, Madelyn Flammia
ISBN: 978-1-118-32802-6, April 2016, Wiley-IEEE Press
List Price: **Member Price: US$32.47**

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Free IEEE-USA eBook Offered as Special Benefit to

IEEE Members

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
- Book 2: Market Size and Strategy
- Book 3: Competitive Analysis
- Book 4: Pricing Strategies

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 employees 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 mangers 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
Portable solar battery charger	Tablet case
Portable speaker	Parker pen and mechanical pencil set
Parker ballpoint pen	Travel coffee mug and tumbler set
Golf balls	Baseball hat
Golf umbrella	Travel umbrella

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.

Build an Effective Resume/CV to

Land the Perfect Job

Utilize the resume and CV building tools in IEEE ResumeLab. Available to IEEE members at no additional cost, this is an effective way to build your resume or CV. Select from a wide array of templates geared toward specific industries, sectors and work experience stages. The step-by-step process is intuitive and simple to use so you can create the type of resume employers are expecting to see. Build your resume or CV today.

Generating Media Coverage for IEEE Members

IEEEs 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.](#)