

The Valley Megaphone



Newsletter of the

Institute of Electrical and
Electronics Engineers, Inc.
Phoenix Section

December 2008, Volume XXII, Number 12

Executive Committee

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This Issue of the Valley Megaphone features:

Contacts:

- Executive Committee (page 1)
- Chapters and Branches (page 1)
- Student Branches (page 2)

Contents:

- Call for IEEE Fellow Nominations (page 2)
- IEEE-EDS Student Fellowship (page 2)
- Computer Society Announcements (page 3 & 4)
- ASU Computer Society Announcement & ASU Poly IEEE Chapter Seminar (page 5)
- Life Members Affinity Group - December Meeting Announcement (page 6)
- PACN December Meeting (page 7)
- PACN President's Article (page 8 & 9)
- PES Announcements (page 10)
- IEEE Phoenix Section Award Nominations (page 11 - 15)
- Student Paper Contest (page 16)
- IEEE Phoenix Section Student Member Scholarships (page 17 - 20)
- IEEE/ICME 2009 Call for papers (page 21)
- Fundraiser Golf Tournament for Phoenix Region Future City Competition (page 22)
- Mentoring Connection (page 23)
- IEEE Phoenix Events Calendar (page 24)

IEEE Phoenix Section Executive Committee meeting minutes can be found at:
<http://www.ieee.org/phoenix>

Please send announcements for Valley Megaphone to Sam Karikalan at samk@broadcom.com

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Computer Society

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Consultants Network (PACN)
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Rao Thallam
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Student Branches

ASU Main, Engineering

Chair: Ramesh Bodakunta
ieeemasuchair@gmail.com
Advisor: Cihan Tepedelenioglu,
(480) 965-6623, Cihan@asu.edu

ASU Main, Computer Society

Chair: Nicholas Vaidyanathan
nvaidyan@asu.edu
Advisor: Guoliang Xue
(480) 965-6218 xue@asu.edu

ASU Polytechnic

Chair: Justin Burrell
Justin.Burrell@asu.edu
Advisor: Barbara Rempel
Barbara.Rempel@asu.edu

DeVry, Phoenix

Chair: Mason Surerus
MSurerus@ieee.org

DeVry, Computer Society

NAU, Engineering

Chair: Kenji R. Yamamoto
Kry3@nau.edu
Advisor: Niranjan Venkatraman
v.niranjan@ieee.org

Embry-Riddle, Prescott

Chair: Maria Nzmebi Ngomba
ngomb7db@erau.edu
Advisor: John E. Post
postj@erau.edu

Phoenix Section Executive Committee Meeting – First Tuesday of the month.

December '08 Meeting:

No Meetings in
July and August

Date: December 2, 2008, Tuesday

Time: 6:00 pm to 8:00 pm

Place: Phoenix Airport Hilton, 2435 South 47th Street
Phoenix, AZ, 85034 Tel.: 480-804-6017

Directions: From the Hohokam Expressway (AZ 143), exit
University Ave, go West and turn right on 47th Place.

More Info:

Meetings are held on the first Tuesday of the month. All interested
IEEE members are welcome to attend.

Contact:

Keith Holbert, Phoenix Section Chairman, holbert@asu.edu

Call for IEEE Fellow Nominations

Nominations are being accepted for the IEEE Fellows class of 2010. The rank of IEEE Fellow is the institute's highest member grade, bestowed on an IEEE Senior Member who has had an extraordinary record of accomplishments in any of the IEEE fields of interest. The deadline for nominations is 1 March 2009. Senior Members can be nominated in one of four categories: application engineer/practitioner, research engineer/scientist, educator, or technical leader.

The Fellows Web pages (<http://www.ieee.org/fellows>) contain information regarding the history of the IEEE Fellows program, the nomination process, access to the Fellows Nomination Kit, lists of Fellows who are eligible to be references and more about the Fellow program.

IEEE – EDS Masters/Ph.D Student Fellowship

The IEEE Electron Devices Society has established the Masters and Ph.D. Student Fellowship Programs to promote, recognize, and support advanced degree study and research within the Electron Device Society's fields of interest. The application deadline is May 15, 2009. Please contact Chuck Weitzel, the Chair of the IEEE Phoenix – Waves Devices Chapter, at E-mail: Chuck.Weitzel@freescale.com or Tel. 480-413-5906, for more details.



Phoenix Chapter of the IEEE Computer Society

Congratulations and a big thanks to the returning officers (same as 2008) and volunteers (check out the list on the web site) who are willing to serve for 2009!

December 3 meeting

Topic: **Inference Engines for Consumer Electronics,**

Speaker: **Dr. Keshu Zhang, Motorola Applied Research & Technology Center**

Location: **DeVry University,**

2149 West Dunlap Ave, Phoenix, AZ 85021 (1 mile east of I-17 on Dunlap, SE corner of 22nd Ave and Dunlap). Networking will be in the Courtyard (6-7PM with light meal), presentation at 7PM.

Free, everyone is welcome. Please tell others about this meeting.

Upcoming Meetings

- December 3, 2008 - Inference Engines for Consumer Electronics, Dr. Keshu Zhang, Motorola Applied Research & Technology Center
- January 14, 2009 - Software Quality Assurance, Bob Fowler and Oris Friesen
Note Alternate Date Due To Holiday
- February 4, 2009 - Cognitive Ubiquitous Computing, Prof. Panchanathan of ASU, ***Southeast Valley location TBA later***
- March 2009 - Annual Picnic, **Time and Date TBA**
- April 1, 2009 - Chat Localization: Developing Applications for 26 Different Languages, Highland Mary Mountain of Intel, ***Southeast Valley location TBA later***
- May 4, 2009 - Emerging Trends for Security and Technology Careers in the Coming Decade, Debbie Christofferson, CISSP, CISM
- October, 2009 Advances in Digital Image Processing, Jorge Caviedes, Intel Corp
- November, 2009 - TBA
- December, 2009 - TBA

Would you like to be a speaker at a future meeting? We are always looking for interesting speakers to cover computer related topics.

Contact joy.shetler@computer.org OR Jon.Candelaria@motorola.com for more information on becoming a speaker today.



Phoenix Chapter of the IEEE Computer Society

Website Improvements

We've added several new features to our website:
<http://ewh.ieee.org/r6/phoenix/compsociety/>
including information on the following topics such as:

- Jobs** - New web page for positions available around the Phoenix area.
- News** - lists other events around the Phoenix area
- Contacts** - lists officers and other volunteers
- Meetings** - descriptions of upcoming meeting and links to archives for previous meeting materials (in case you missed a meeting)

LinkedIn Update

Our LinkedIn group has grown to over 100 members!

LinkedIn has added a new discussion forum feature for groups as well as the following features for individual members:

- **Work collaboratively with your network.**
- **Share information and keep up to date with your network.**
- **Present yourself and your work in new ways.**
- **Gain key insights that will make you more effective.**

If you are interested in joining the group, please send an email to Louis Rayes or Joy Shetler (email addresses are listed on the Computer Society website).

For more information about LinkedIn, please check out the description on Wikipedia:

<http://en.wikipedia.org/wiki/LinkedIn>

Or the LinkedIn Website: <http://www.linkedin.com>.



IEEE Computer Society at ASU

Open Source University Meetup

[IEEE Computer Society at Arizona State University](#) has a history of dedication to collaboration and innovation, and is a firm believer in the power of open source software. We are also passionate about helping our students network and succeed.

In this spirit, we are proud to announce collaboration with [Sun Microsystems](#) and their [Open Source University Meetup \(OSUM\)](#) program!

Sun Microsystems has rapidly emerged as a leader in the open source community, making a large variety of their platforms open including [OpenOffice](#), [OpenSolaris](#), [OpenJDK](#), and even [OpenSPARC](#). You know a company is serious about open source when it makes its hardware open! In their passion for open source, they have created a community called the Open Source University Meetup which exists as a social networking tool for developers to meet others who are passionate about open source and learn more about Sun technologies. Members of the OSUM community include students from all around the world, Sun staff, and any developer who has a passion for expanding his or her own knowledgebase.

Beyond the obvious networking opportunities, [members of OSUM also get free, well-written and authoritative training](#) on Sun technologies through the [Sun Academic Initiative](#), and *extremely* reduced-cost sun certification exams! This is an amazing deal for those seeking to enhance their skill-set or prove that they have mastered a particular tool, and the best part is it's free and easy!

So what are you waiting for, an invitation? Well, here it is: [go sign up today!](#)
Need more information? Please contact Nicholas Vaidyanathan at Nicholas.Vaidyanathan@asu.edu.

ASU Polytechnic IEEE Chapter Seminar

Date: **Thursday, December 4, 2008**

Time: **5:30 pm**

Speakers: **Dr. Petrovic** on "Alternative Energy and Nuclear Energy"
Dr. Subach on "Alternative Energy and the Economy"

Venue: **ASU Poly Campus, Cooley Ballroom**

Refreshments and Parking will be provided. Please contact the ASU Poly IEEE Vice President Bon Brannan at yakuza.ifrit@gmail.com for more details.

IEEE Life Members Affinity Group, Phoenix Section

MEETING NOTICE

The meeting of the Life Members Affinity Group of the IEEE Phoenix Section will be held on **Thursday, December 11, 2008** at SRP's PERA Club (Big Horn Terrace Room), 1 East Continental Drive, Tempe. The new executive committee election will also be held at this meeting. See details at the end of this notice.

Topic: "What's in the IPCC report on Global Warming?"

Speaker: John S. Sadowsky, General Dynamics, Scottsdale

AGENDA: 11:00 AM - 11:30 Registration
11:30 - 11:45 Lunch
11:45 - 12:00 Executive Committee 2009 Election
12:00 - 1:00 PM Presentation
1:00 - 1:15 PM Question and Answer session
1:15 PM Adjourn

Cost: \$8.00 per person, includes lunch

Please RSVP, by Tuesday, December 2, to the Section Secretary, Michel Ebertin (michel@ebertin.net). When you make reservation, please try to attend, as the Chapter has to pay for lunch for the complete number reserved. Click on this link for directions to SRP PERA Club: [SRP PERA Club](#)

ABSTRACT

The presentation has 3 parts. The first part is an overview of the IPCC (Intergovernmental Panel on Climate Change) and its history. The second part is a summary of the content of the 2007 Assessment Report from Working Group I, which deals with climate science and prediction of future climate. The third part will cover some of the critics of Global Warming.

About the speaker:

J. S. Sadowsky is a Member of the Technical Staff at General Dynamics in Scottsdale, AZ. He has been an IEEE member for 30 years. He has a Ph.D. in Electrical Engineering, M.S. in EE, M.A. in mathematics, and B.S. degrees in mathematics and EE. His professional career has been split between industry (14 years) and academia (15 years). He has published ~30 papers in IEEE Transactions and in various mathematics journals, and has over 60 conference papers and presentation. His academic research included applications of probability theory to modern digital communications. Today he is a leading physical layer architect for the MUOS project, which is a military satellite communications system.

2008 Chapter Executive Committee

Chair	Dr. Rao Thallam	(602) 236-8064
Vice Chair	Prof. George Karady	(480) 965-6569
Secretary	Michel Ebertin	(480) 991-2136
Treasurer	Leslie Daviet II	(602) 525-2377
Program Committee	Dr. C.B. Johnson	(480) 759-2826

Election of Executive Committee for 2009

Election of the Executive committee members will be held at the Dec 11 membership meeting. If you are interested in any of the positions: Chairman, Vice Chairman, Secretary, Treasurer or Program Committee Chairman, e-mail your name, phone number, contact address, and position interested to serve, by November 15, 2008 to Chapter Secretary, Michel Ebertin at michel@ebertin.net or (480) 991-2136

IEEE Phoenix Area Consultants Network

December Meeting

2008 Annual Business Meeting And Round Table Discussion

- Date: **Thursday, December 11th, 2008**
- Time: **Feel free to come around 5:30 and socialize.
We take dinner orders around 6:30 PM
Meeting begins around 7:30 PM**
- Place: **Denny's Restaurant
3315 N. Scottsdale Rd. (at Osborn)
Scottsdale, Arizona 85251**

Abstract:

Traditionally, the December meeting is our annual business meeting when we elect Board members and entertain motions on changes to bylaws. The election is followed by a round-table discussion. This is a free-for-all discussion of the issues confronting our Network and how we propose to resolve them. This is an important meeting for members to attend, but non-members are welcome as well.

For more information, contact Vaughn Treude, vaughn@nakota-software.com, or see the IEEE PACN website, ieeepacn.com.

IEEE Phoenix Area Consultants Network

An Appeal To Phoenix Area IEEE Members:

According to the website of the IEEE Phoenix Section, we have 3700 members in the local area. Only a small number of us are members of the Phoenix Area Consultants Network. And most likely, only a few have heard of the PACN. This is unfortunate, since the Consultants Network provides a great opportunity for anyone who does independent consulting work, or is thinking of doing so.

The PACN is an affinity group of the IEEE, which means that it is not technology-specific like many IEEE societies. It is more of a social entity akin to the Life Members or Women in Engineering. As an affinity group it falls under its own hierarchy, the Alliance of IEEE Consultants' Networks (AICN).

There are consulting network chapters all over the country, in most major metropolitan areas. According to the "Consultant Services" page of iee.org, the purpose of these networks is to support the career interests of self-employed IEEE members. Admittedly, most IEEE members do not fit this classification, but they are a significant minority. According to a 2003 report by Ron Hira (which was published on ieeusa.org), self-employed engineers made up about ten percent of IEEE membership in the US. By this logic, there should be over 300 consultants in the IEEE Phoenix section. If this is the case, only a small fraction of that number has taken advantage of the local Consultants Network.

The Phoenix Area Consultants Network was founded in the early 1990's, and has been active since then, though the group's membership has risen and fallen during that time. According to the group's website, ieepacn.com, "The mission of the IEEE PACN is to provide a forum for meeting, networking, and sharing collective experiences."

The PACN has held meetings almost every month during the intervening years. Most of these meetings have featured a speaker or presentation on some technical or business-related topic. As engineers don't often receive enough training in the ins and outs of running a business, the latter can be quite valuable. Another difficulty for consultants is figuring out how to market their services. One of the most reliable and time-tested methods for doing so is networking. As I noted above, this is another of the group's functions. The membership of the PACN is not limited to any particular discipline, nor even to electrical engineering. This allows members to trade leads for potential projects. Another opportunity is to form cross-disciplinary alliances, which allows one-person consultancies to broaden their appeal to clients by forming alliances with other consultants having different skills and levels of experience.

In the early days of the PACN, the group was very active and had dozens of paid members. Typical attendance at our meetings was 15-20 or more. This was due in part to the efforts of Henry Burger, who was president of the group at that time. Since Mr. Burger relocated to another city, we have had various presidents, most recently myself. In the last few years we have been regrettably lax in our attempts to attract new members and maintain the group in an active state. We have devolved into more of a social group than an active network. There is nothing wrong with this, but I feel it's unfortunate that the PACN is not living up to its potential. The PACN's resources are all the more important in an era in which rising unemployment has hit our area. Many engineers find consulting to be a good opportunity in a layoff or between-jobs situation.

This is why I want to inform the section membership of this opportunity. The PACN is a great resource for active consultants. The annual dues are quite reasonable. The group is open to non-IEEE members, for a small surcharge on the dues. Our meetings are free and open to the public, but only dues-paying members can serve as officers or vote in our business meetings. Traditionally we have met twelve times a year. Eleven of those meetings have been held on the evening of the second Thursday of each month, at a restaurant centrally located in the metropolitan area. In May, we choose one Saturday afternoon for our annual picnic, which we hold in lieu of that month's meeting.

I have been a member of the PACN for most of its existence, and I can personally vouch for numerous occasions in which I found work by referral from other members. Likewise I have referred potential jobs

to other consultants in the group. In this last year, however, I received a job offer from one of my clients that was too good to turn down. Since I am not an independent consultant at the moment, I have not been as motivated to try to think of ways to revitalize the group. Besides this, I have become involved in another organization which sometimes conflicts with PACN meetings. I would like to continue to attend PACN meetings, but I cannot continue to serve as the group's president. Unfortunately, it has been difficult for me to find my own replacement, since many of the group's active members have already served in this post. This presents a perfect opportunity for someone who would like to grow their consulting practice and expand their contacts in the Valley of the Sun.

So I invite all of you IEEE consultants, plus those of you who are interesting in consulting, to attend our group's upcoming meeting on December 11th. The time and place are detailed in the announcement above. We hope to see you there!

Vaughn Treude, President
Phoenix Area Consultants Network
vaughn@nakota-software.com



Power & Energy Society Announcements

December Technical Meeting

No meeting will be held due to the holidays.

January 2009 Technical Meeting

Date: **Thursday, January 15, 2009**

Speaker: **Chico Hunter**, Salt River Project
Tony Tewelis, Arizona Public Service Company

Topic: **Renewable Energy Programs**

Abstract: See PES website <http://ewh.ieee.org/soc/pes/phoenix/> for update.

Biography: See PES website <http://ewh.ieee.org/soc/pes/phoenix/> for update.



IEEE PHOENIX SECTION



ANNUAL BANQUET

Saturday, February 7th, 2009

Hilton Phoenix Airport - Grand Ballroom, Phoenix, Arizona

AWARD NOMINATION INSTRUCTIONS

1. This Awards Guide lists the awards along with the selection criteria that will be implemented for selecting the award recipient.
2. Please read through this awards guide to help you in selecting the award category for nomination.
3. Complete the award nomination form given at the end of this document and submit ONLY as an email attachment to the IEEE Phoenix Section Annual Banquet Organizing Committee member responsible for the award category along with a copy to Dr. Vasu Atluri, Awards Committee Chair. Dr. Vasu Atluri's email address is vpatluri@ieee.org and telephone number is (480) 227-8411. The list of contacts is as follows:

For Member Category Nominations, please send the form along with supporting documents to Dr. Keith Holbert, Chair, at keith.holbert@asu.edu. He can be reached by telephone at (480) 965-8594.

For Chapter / Society Category Nominations, please send the form along with supporting documents to Mr. Debendra Mallik, Vice-Chair, at dmallik@ieee.org. He can be reached by telephone at (480) 554-5328.

For Non-Member Category Nominations, please send the form along with supporting documents to Dr. Henning Braunisch, Secretary, at braunisch@ieee.org. He can be reached by telephone at (480) 552-0844.

For Corporate Category Nominations, please send the form along with supporting documents to Dr. Vasu Atluri, Awards Committee Chair, at vpatluri@ieee.org. He can be reached by telephone at (480) 227-8411.

For Educational Category Nominations, please send the form along with supporting documents to Mr. Nick Leonardi, Student Activities Coordinator, at nleonardi@premiers2.com. He can be reached by telephone at (480) 720-1435.

4. Nominator can submit a form for self or for others. All sections of the form should be completely filled by typing in bold and capital letters. If needed, submit additional documents such as resume in support of the nomination.
5. Deadline for submission of the nomination form is Friday, December 5th, 2008. Awards Banquet Committee will review the forms and inform the selected candidates and nominators by Friday, December 19th, 2008.

If you have any additional questions, please contact Dr. Vasu Atluri, Awards Committee Chair, at (480) 227-8411 or by email at vpatluri@ieee.org.



IEEE PHOENIX SECTION ANNUAL BANQUET



Saturday, February 7th, 2009
Hilton Phoenix Airport - Grand Ballroom, Phoenix, Arizona

AWARDS GUIDE (UPDATED OCTOBER 2007)

The scope and purpose of the Section Awards program is to plan, promote and implement award and recognition 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 and recognition categories:

- Member
- Chapter/Society
- Non-member
- Corporate
- Educational
- Special Chair

AWARD AND RECOGNITION CATEGORIES

A. Member:

The Section recognizes individual members in two categories:

- Young Engineer of the Year
- Engineer of the Year

The **Young Engineer of the Year** award is offered to recognize an individual of Member Grade in the section with 10 years or less experience in the profession. Ten years include graduate degree study period. Nominations for this award may be offered by individuals, by a company or by a Society Chapter. Qualifications for the award must satisfy at least one of the following criteria:

- Be recognized by his/her employer for important contributions to a project /company mission
- Made important contributions to the Section/Chapter/Conference, profession or the community through leadership activities related to an event(s)
- Publish at least one refereed technical paper
- Hold at least one U.S. patent

The **Engineer of the Year** award is offered to recognize an individual of Member or Senior Member Grade in the section with over 10 years experience in the profession. Nominations for this award may be offered by individuals, by a company or by a Society Chapter. Qualifications for the award must satisfy at least one of the following criteria:

- Be recognized by his/her employer for important and significant contributions to the organization projects or towards the company mission
- Publish at least two refereed technical papers
- Hold at least two U.S. patents
- Made significant contributions to the community or profession

The Section also recognizes members who attain advanced member grade levels including Fellow and Senior Member. Criteria are established by the IEEE.

Fellow recognizes unusual distinction in the profession and is conferred only by invitation of the Board of Directors upon a person of outstanding qualifications and experience in IEEE designated fields. It is conferred to a person who has made important individual contributions to one or more of the IEEE designated fields. The Fellow Grade is the highest membership grade which can be achieved within IEEE. Total number selected in any one year does not exceed one-tenth percent of the total voting institute membership.

Senior Member Grade is the highest for which application may be made and requires experience reflecting professional maturity. Candidate should be an engineer, scientist, educator, technical executive, or originator in IEEE designated fields. Candidate should have shown significant practice for at least ten years and significant performance over a period of at least five of those years.

B. Chapter/Society:

The Chapter/Society may provide one award to recognize individual, team or organization using a variety of criteria including technical, professional, chapter / society contribution or other special category. Awards

should recognize specific contributions, achievements and efforts (individual or team) in the development and implementation of the criteria used for the award.

An "Outstanding Society Chapter Award" for the IEEE Phoenix Section may also be awarded each year. The Section shall solicit and qualify chapters for the Outstanding Society Chapter Award. Nominees are either provided by the Society Chapters or decided by awards committee. The Section may recognize a Society Chapter using a variety of criteria including technical, professional or other special category. Awards should recognize specific contributions, achievements, and efforts including the number of meetings, workshops, etc. consistent with membership size of the Society Chapter, in the development and implementation of the criteria used for this award. The Chapter/Society award nominations should be approved and submitted by the Chapter Chair or a Chapter Officer assigned by Chapter Chair. The assigned officer name should be informed by Chapter Chair by email in advance to both Dr. Rao Bonda, Annual Banquet Organizing Committee Member responsible for Chapter / Society Category Nominations, and to Dr. Vasu Atluri, Awards Committee Chair.

C. Non-Member:

The Section may recognize non-IEEE members for exemplary contributions (technical and/or professional) to the engineering profession through their efforts within their company, the community or for the Section.

D. Corporate:

The Section recognizes companies in two categories:

- Large Company of the Year
- Small Company of the Year

The companies are recognized for their outstanding technical and / or professional contributions in furthering the objectives and professional aims of the IEEE Phoenix Section, the IEEE, the IEEE-USA and the field of Electrical Engineering. The Technical Contributions should include significant contributions or advancements in technology or the application of technology in the electronics or electro-technology fields. The specific area of technology is not restricted and may include, but is not restricted to, design and manufacturing processes, new products or creative applications to existing technologies. The Professional Contributions include significant contributions made to further the professional goals and programs of IEEE. Companies may be recognized for specific contribution, achievements and efforts that promote the professionalism goals of the section and IEEE. Nominations may be for a variety of professionalism related areas including support of IEEE members, employee development and training initiatives, community involvement or other programs that improve the general image of the engineer or engineering profession. Companies with less than or equal to 500 employees are considered Small Companies and those with greater than 500 employees are considered Large Companies during the award selection.

E. Educational:

The Section recognizes educational institutions and educators in the following categories:

- Outstanding IEEE Student Branch
- Outstanding Pre-college Educator
- Outstanding Faculty

The Section shall solicit and qualify award candidates for the Student Branch award. Nominees are provided by the student branch, branch advisor, administrators or Society Chapters. The Section may recognize a Student Branch using a variety of criteria including technical, professional or other special category. Awards should recognize specific contributions, achievements and efforts (individual or team) in the development and implementation of the criteria used for this award.

Nominations for Outstanding Pre-college Educator and Outstanding Faculty may be submitted by any member of the Section. Awards should recognize specific contributions, achievements, programs and efforts completed by an individual who promotes technical literacy, or the technical or professional goals of the Section, the IEEE or the IEEE-USA.

The section also recognizes student scholarship winners selected during the year by a committee consisting of section officers. The criteria for selection are based on academic excellence, participation in IEEE activities, contributions to IEEE and financial need.

F. Special Chair:

The Section Chair may wish to provide up to three special awards to recognize individuals or organizations for activities that support the goals of the Section that are not specified within the above categories, such as public service. The Section Chair may solicit inputs and recommendations from the Awards Committee, Section Officers, and Members of the Section. The Section Chair may recognize IEEE or Non-IEEE members for contributions to IEEE, the engineering profession, and volunteer work. The section chair also recognizes current section officers for their contributions for advancement of the section.



IEEE PHOENIX SECTION



ANNUAL BANQUET

Saturday, February 7th, 2009

Hilton Phoenix Airport - Grand Ballroom, Phoenix, Arizona

Award Nomination Form

Completely filled form should be submitted as an email attachment ONLY to the appropriate award committee member Award committee chair should be copied on the email – Award committee contact list are listed on first page

Candidate's Name: <small>(including Dr., Mr. and Ms.)</small>	<input style="width: 100%;" type="text"/>		
Address:	<input style="width: 100%;" type="text"/>		
	<input style="width: 100%;" type="text"/>		
	<input style="width: 100%;" type="text"/>		
Telephone Number:	<input style="width: 25%;" type="text"/>	Fax Number:	<input style="width: 25%;" type="text"/>
Email:	<input style="width: 100%;" type="text"/>		
IEEE Member:	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Student <input type="checkbox"/>
			Membership # <input style="width: 20%;" type="text"/>
Award Categories: (please select one)			
A. Member:	Engineer of the Year <input type="checkbox"/>	Young Engineer of the Year <input type="checkbox"/>	
B. Chapter / Society:	Technical <input type="checkbox"/>	Professional <input type="checkbox"/>	Special Category <input type="checkbox"/>
	Chapter / Society Contribution <input type="checkbox"/>		
	Outstanding Society Chapter <input type="checkbox"/>		
C. Non-Member:	Contributions to the IEEE / Engineering Profession <input type="checkbox"/>		
D. Corporate:	Large Company of the Year <input type="checkbox"/>		
	Small Company of the Year <input type="checkbox"/>		
E. Educational:	Outstanding Student Branch <input type="checkbox"/>	Outstanding Faculty <input type="checkbox"/>	
	Outstanding Pre-College Educator <input type="checkbox"/>		
F. Special Chair:	IEEE / Engineering Contributions <input type="checkbox"/>	Non-IEEE Contributions <input type="checkbox"/>	
Award Citation: <small>(Limit to Maximum Twenty Words)</small>	<input style="width: 100%;" type="text"/>		
	<input style="width: 100%;" type="text"/>		
	<input style="width: 100%;" type="text"/>		



IEEE PHOENIX SECTION ANNUAL BANQUET Saturday, February 7th, 2009



Award Nomination Form

Completely filled form should be submitted as an email attachment ONLY to the appropriate award committee member Award committee chair should be copied on the email – Award committee contact list are listed on first page

Please provide information in support of the nomination in the space provided below – if needed use additional sheets. Submit other documents such as resume in support of the nomination.

Nominator's Name:

IEEE Member: Yes No Student Member #

Affiliation: Section Chapter / Society Student Branch None

Affiliated Organization Name:

Telephone Number: Email:

 **IEEE** **IEEE Phoenix Section**  **IEEE**
Student Paper Contest 2009

The IEEE Student Prize Paper Contest offers the undergraduate IEEE Student member opportunities to exercise and improve both written and verbal communication skills. Throughout an engineer's career, (s)he will be constantly called upon to communicate ideas to others. Researching, writing, and presenting a paper provides a student with invaluable early experience in expressing ideas related to engineering. Since the paper contest primary function is to improve the engineering student's communicative skills, no student should be discouraged from entering the contest due to a false requirement of technical sophistication.

This undergraduate student paper contest consists of a written paper and an oral presentation. The written paper should be in the IEEE Region 6 standard, which is available at <http://www.ewh.ieee.org/reg/6/MemberStudentActivities/IEEERegionalStudentPaperContestGuidelines.doc> . Briefly, the type-written papers are 15 pages maximum, double-spaced with 12 pt font. The written paper, as either an MS Word or an Acrobat pdf file, should be emailed to nleonardi@ieee.org by 6 p.m. on **February 13, 2009**.

The oral presentations are 15 minutes plus a 5-minute question & answer period. The oral portion of the contest will be held the morning of Saturday, **February 28, 2009**. A computer with projector will be provided for the contestants to use, since PowerPoint slides are the recommended approach.

The local cash awards for the paper contest winners are (1) First Place – \$300, (2) Second Place – \$200, and (3) Third Place – \$100. The five judges are IEEE members from local industries.

The top entrant from each Local Student Branch (ASU Main, ASU Polytechnic, DeVry, Embry-Riddle, and NAU) is eligible to present their paper to the IEEE Region 6 Southwest Area contest to be held April 2009.

If you have any questions, please contact:

Mr. Nick Leonardi
IEEE Phoenix Section
Student Activities Chair
480-736-1970 x 23
nleonardi@ieee.org



IEEE PHOENIX SECTION SCHOLARSHIPS

Applications Due: December 22, 2008
Awardees Announced: January 2009

The Institute of Electrical & Electronics Engineers

IEEE Student Member Scholarships

- For full-time undergraduates who are members of IEEE: approved majors are Electrical Engineering, Computer Systems Engineering, Electrical Engineering Technology, Computer Engineering Technology, or Computer Science
- Must attend a university in the Phoenix Section during 2008-2009 (*i.e.*, ASU, ASU Polytechnique, DeVry, Embry-Riddle, or NAU)

Scholarship Application Requirement

- Application form (in the next three pages) with general information and qualifications including:
 - financial aid statement, and
 - one-page personal statement of attainments, interests and goals
- Official transcripts of all college work
- Recommendation letters (optional, but helpful to the selection committee)

For further information and to submit applications please contact:

Mr. Nick Leonardi
IEEE Phoenix Section
Student Activities Chair
480-736-1970 x 23
nleonardi@ieee.org



IEEE PHOENIX SECTION

SCHOLARSHIP APPLICATION

(Due: December 22, 2008)

Applicant IEEE Member No. _____

Name _____
Last/Family
First
Middle

Home Address _____
Number
Street
Apt

City
State
Zip Code

Telephone No. () _____ E-mail _____

Social Security No. _____ Date of Birth _____
Month/Day/Year

Are you an Arizona resident? Yes No

Present School _____ GPA (and scale) _____

Class (Fr/So/Jr/Sr) _____ Academic Probation/Suspension Yes No

Name of Instructor familiar with your qualifications _____ Her/His Telephone _____

College Attending Next Year _____ Expected Graduation Date _____

College Major _____ Specialty within Major, if any _____

Please complete the next two pages also (Financial Aid Statement and Personal Statement) and Attach Official Transcripts from Present School/College.

IEEE PHOENIX SECTION SCHOLARSHIP FINANCIAL AID STATEMENT

Name _____

Marital Status: Married ____ Single ____

Can anyone claim you as a dependent? Yes ___ No ___

Number of dependents you are able to claim _____

Who sponsors your education? Yourself ____ Other ____ (please specify)

Projected College Costs and Financial Resources (for the 2008-09 School year)

Projected Expenses

Tuition and Fees:	\$ _____
Books and Supplies:	\$ _____
Transportation (Car/Bus/Insurance)	\$ _____
Room & Board (Dorm/Apt/Food/Utilities/Phone)	\$ _____
Personal (Clothes/Insurance/Recreation)	\$ _____
Total Expenses:	\$ _____

Projected Financial Resources

Education Loans	\$ _____
Government Grants	\$ _____
Federal Benefits (GI Bill/Social Security/etc)	\$ _____
Scholarships	\$ _____
Parent and/or Spouse Support	\$ _____
Employment (your job income)	\$ _____
Total Resources:	\$ _____

I certify that the information in this scholarship application is true to the best of my knowledge.

Signature

Date

IEEE PHOENIX SECTION SCHOLARSHIP PERSONAL STATEMENT

Name_____

Please provide a one-page statement summarizing your interests, academic accomplishments, school & athletic activities, community service, education and career goals, and employment history (position, company, dates).

IEEE/ICME 2009 International conference on Complex Medical Engineering

Second Call for Papers

The aim of CME 2009 is to bring together researchers and practitioners from diverse fields to promote scientific research and industrial development in the field of complex medical engineering. The conference will consist of workshops, special sessions, and keynote presentations from renowned experts. We invite you to participate in an exciting interchange of ideas in the following cutting edge areas of *Clinical Medicine, Neuroscience and Bioengineering*.

Conference Dates: **April 9-11, 2009**

Conference Venue: **Fiesta Inn Resorts, Tempe, AZ, USA**

The abstract submission deadline (**December 8, 2008**) is quickly approaching and we invite you to submit a 250 WORDS short abstract on the web site: <http://enpub.fulton.asu.edu/cme2009/> when it is open for submission on Nov. 15th, 2008. We will provide a quick review and notify you of acceptance and invitation for a full length paper to be included in the conference proceeding (4-6 page IEEE double column format and indexed by IEEE Xplorer).

Final camera ready paper will be due online February 15, 2009

The scientific technical issues to be addressed include, but not limited to:

Biomedical Robotics and Biomechanics
Information and Communication Technology in Medicine
Biomedical image processing
Biomedical Optics
Technology in Rehabilitation
Cognitive Neuroscience and Technology
Complex Bioinformatics and Systems Biology

Biosensors and Bio-analytics
Neuroscience and Neural Technology

Conference Chair: Jiping He, USA
 Conference Co-chair: Jinglong Wu, Japan

Program Chairs:
 Jit Muthuswamy, USA
 Douglas Weber, USA
 Tetsou Touge, Japan
 Yong Shen, USA

For more details, please contact Prof. Jiping He at jiping.he@asu.edu

CALL FOR PAPERS **2009 IEEE/ICME**  **IEEE**
CME2009 International Conference on Complex Medical Engineering 

April 9-11, 2009, Arizona, U.S.A.
 Sponsored by
 Institute of Complex Medical Engineering, ICME
 Engineering in Medicine and Biology Society, IEEE
 Arizona State University
<http://enpub.fulton.asu.edu/cme2009/>

■ **Paper Deadline**
 Abstract: **Dec 1, 2008**
 Final paper: **Feb 1, 2009**
 ■ **Online Registration**
 Pre-registration deadline: **Dec 15, 2008**
 ■ **Conference Chair**
 Jiping He, PhD, Professor
 Arizona State University

■ **Registration fees**

	Before Dec. 15, 2008	After Dec. 15, 2008
IEEE/ICME Members	\$450	\$550
Non-members	\$550	\$650
Students	\$200	\$300
Post-doc	\$300	\$400

■ **Topics**
[Neuroscience and Neural Technology](#)
[Biomedical Robotics and Biomechanics](#)
[Information and Communication Technology in Medicine](#)
[Biomedical image processing](#)
[Biomedical Optics](#)
[Technology in Rehabilitation](#)
[Tissue Engineering and Drug Delivery](#)
[Cognitive Neuroscience and Technology](#)
[Complex Bioinformatics and Systems Biology](#)
[Biosensors and Bio-analytics](#)

Fundraiser for Phoenix Region Future City Competition

On Saturday, 17 January 2009, the Phoenix Region Future City Competition will kick off the year with its 8th Annual Golf Classic Tournament at the Whirlwind Golf Club. The Future City Group is composed of practicing engineers and architects involved in getting 7th and 8th grade kids interested in the future of engineering, science, and architecture. Our golf tournament is a major fundraiser for our yearly statewide competition held in Phoenix.

Last year over 130 players joined us at the Estrella Mountain Ranch Golf Club for a sold out day of golf and prizes in which over \$12,000 was raised. The success of our tournament is attributed to both the sponsorships we receive and the golfers who participate. Join us as we kick off the year, and test our New Years Resolutions, playing the Devil's Claw course at Whirlwind. Registration includes a gift, golf, lunch, beverages on the course, and the chance to win over \$10,000 worth of prizes.



8th Annual Design the Future Golf Classic *Benefiting the Phoenix Region Future City Competition*



TOURNAMENT HIGHLIGHTS:

**Saturday 17 January 2009
Devil's Claw @ Whirlwind Golf Club
5692 W. North Loop Rd, Chandler
Wild Horse Pass Blvd, West of I-10**

**7:00 AM
Registration**

**7:45 AM
Shotgun Start**

**Four-Person Teams
18-hole Modified Scramble**

**\$175 per player
(Includes cart, fees, lunch &
1 Mulligan per player)**

KICK OFF 2009!!!

**With the our version
Of the Vegas Hole**

PLUS:

Closest to Pins

Longest Putts

Longest Drives

Hole In One

Golf Poker



The Phoenix Region Future City Competition is open to 7th and 8th graders across the state. Additional information can be found at www.futurecity-phoenix.org. For further information on the golf tournament, contact Andrew Smigielski at SouthWest Traffic Engineering 602.266.7983 or smig@swte.us.

Design the Future Golf Tournament Entry Form

Name	Company	Phone/E-mail
1		
Address		
2		
Address		
3		
Address		
4		
Address		
<input type="checkbox"/> Please keep players 1-2-3-4 together <input type="checkbox"/> Please pair us with others <input type="checkbox"/> Sorry, I cannot attend, but please accept my contribution		_____ Players @ \$175 _____ Total
MAKE CHECKS PAYABLE TO: Future City Competition. Please complete and return this entry form by 8 January 2009 to: Andrew Smigielski, SouthWest Traffic Engineering, 3838 North Central Avenue, Suite 1810, Phoenix, AZ 85012 (phone- 602.266.7983, fax -602.266.1115).		
Thank you for participating!		

IEEE Mentoring Connection

IEEE is offering its members the opportunity to participate in an online program which will facilitate the matching of IEEE members for the purpose of establishing a mentoring partnership. By volunteering as a mentor, individuals use their career and life experiences to help other IEEE members in their professional development. I believe this program can be a great tool to provide our newest members of our profession guidance in their careers and provide experienced members a chance to hear first hand from the newly graduated about the latest training the next generation is receiving. This is a program for higher level members and is provided to help ease the transition out of school and into a career.

As a mentee, you lead your partnership by selecting your mentoring partner from among those who have volunteered to serve in this capacity. I ask that you review the time and effort commitment to the program to ensure a successful mentoring partnership. Participation in the program is voluntary and open to all IEEE members above the grade of Student Member.

If you are interested, please go to <http://www.ieee.org/mentoring> for information on the roles and responsibilities of each mentoring partner. I encourage you to take advantage of the IEEE network of technical professionals or offer your expertise and sign up for the online mentoring program today.

Who can be an IEEE Mentor?

IEEE higher-grade members (above Student Member grade) who are, but not limited to:

- Willing to give time and effort to the mentoring partnership (we suggest minimum of two hours per month)
- Able to communicate effectively with others
- Willing to share some career successes and failures
- Individuals who may be or have been executives, consultants, or in middle or upper management, or in research
- Individuals who may be or have been educators, entrepreneurs, or self-employed
- Individuals who may be or have been proven leaders offering inspiration and insight
- Individuals who may be or have been IEEE officers or volunteers
- Willing to review an orientation session to learn guidelines, tools of program and the mentee and mentor's role and responsibilities

Who can be an IEEE Mentee?

IEEE higher-grade members (above Student Member grade) who are, but not limited to:

- New professionals in their first or second job, or considering entering graduate programs
- Recent graduates entering the professional workforce for the first time
- Professional making a career move or career change
- Passionate for learning
- Willing to give time and effort to the mentoring partnership (we suggest minimum of two hours per month)
- Willing to identify and clarify their developmental goals
- Interested in learning from another professional "who has been there"
- Willing to participate in mentee orientation session to learn guidelines, and tools of program and their role and responsibilities as a mentee

This program deserves your consideration and doesn't require a large amount of time on your part. It can provide of great assistance to the next generation of engineers.

Russ Kinner
Conferences Chair, Phoenix Section

IEEE Phoenix - Calendar of Events for December 2008:

IEEE Phoenix Section



Local activities in the Phoenix Section

<http://www.ewh.ieee.org/r6/phoenix/>

December 2008



Choose Year:



Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2 6:00p-8:30p Phoenix Section Executive Board Meeting	3 7:00p Computer Society Chapter Meeting	4	5	6
7	8	9	10	11 11:00a-1:15p IEEE Life Members Affinity Group, Phoenix Section	12	13
14	15	16	17	18	19	20
21	22 IEEE Phoenix Section Scholarships APPLICATIONS DUE	23	24	25 Christmas	26	27
28	29	30	31			
Sun	Mon	Tue	Wed	Thu	Fri	Sat