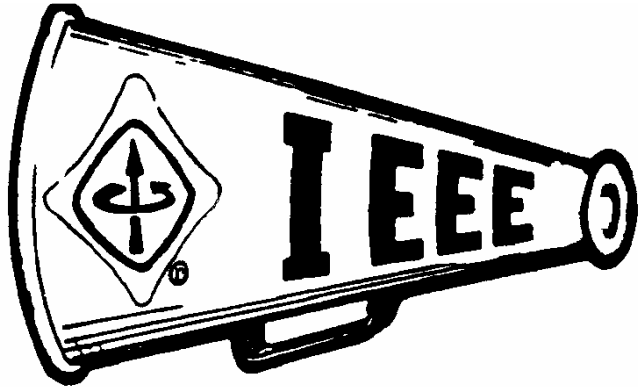


The Valley Megaphone



Newsletter of the
**Institute of Electrical and
Electronics Engineers, Inc.**
Phoenix Section
December 2006, Volume XX, Number 12

Executive Committee

Past Chair

Shamala Chickamenahalli, 480-554-6774
shamala@ieee.org

Chair

Rao Thallam, 602-236-5481
thallam@ieee.org

Vice Chair

Rao Bonda, 480-413-6121
r.bonda@ieee.org

Secretary

Dongming He, 480-552-0947
dongming@ieee.org

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Keith Holbert, 480-965-8594
holbert@asu.edu

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ecpalmer@ieee.org

PACE

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

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Russ Kinner
r.kinner@ieee.org

Student Activities

Jim Drye, 480-413-5685
jdrye@ieee.org

Conferences

Henning Braunisch, 480-552-0844
braunisch@ieee.org

Awards

Vasudeva P. Atluri, 480-554-0360
vpatluri@ieee.org

Inter-Society

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

Web Master

Chandan K. Das, 480-554-1300
cdas@ieee.org

This Issue of The Valley Megaphone Features:

Contacts:

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

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

Please send announcements for Valley Megaphone to Eric Palmer: ecpalmer@ieee.org.

Chapters

Communication & Signal Processing

Gang Qian
gang.qian@asu.edu

Computer Society

Cesar A. Vasquez-Carrera
cvasquezcarrera@yahoo.com

Consultants Network (PACN)

Vaughn L. Treude, 602-750-3662
vaughn@nakota-software.com

CPMT Society

Daniel D. Lu, 480-552-2909
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Education Chapter

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

EMBS Chapter

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ahmed_a@acm.org

EMC Society

Harry Gaul, 480-441-5321
harry.gaul@ieee.org

GOLD

Mike Poggie
michael.poggie@gdc4s.com

Power Engineering Society

Doug Selin, 602-371-6388
douglas.selin@aps.com

Solid State Circuits

Bertan Bakkaloglu
bertan@asu.edu

Waves & Devices Society

Chuck Weitzel, 480-413-5908
Chuck.weitzel@freescale.com

The Valley Megaphone is the newsletter of the Phoenix Section of the Institute of Electrical and Electronics Engineers. It is published monthly and reaches about 3200 members. Submit articles, advertisements, and announcements to Eric Palmer at the above email address. Deadline for announcements and advertisements is the third Friday of the month prior to publication.

Advertising Rates: Full page: \$200, 3/4page: \$125, ½ page: \$75, 1/3 page: \$50, 1/4 page: \$25.

Change of address/email? Call toll free 1-800-678-IEEE. Please allow 6-8 weeks. Section Web Page is: <http://www.ieee.org/phoenix>

Student Branches

ASU Main, Engineering

Chair: Nathanael Coonrod

ieeemasuchair@gmail.com

Advisor: Cihan Tepedelenlioglu,
(480) 965-6623, Cihan@asu.edu

ASU Main, Computer Society

Chair: Guofeng Deng

guofeng.deng@asu.edu

Advisor: Joseph Urban, 480-965-3374,
joseph.urban@asu.edu

ASU Polytechnic

Chair: Samir Sharma

Samir.Sharma@asu.edu

Advisor: Raji Sundararajan, 480-727-
1507 raji.sundararajan@gmail.com

DeVry, Phoenix

Chair: Richard Taylor

RLTaylor@ieee.org

Advisor: Dion Benes, (602) 870-9222,
dion.benes@phx.devry.edu

DeVry, Computer Society

Chair: David Huerta

huertanix@computer.org

Advisors: Diane Smith
602-870-9222, dasmith@phx.devry.edu

NAU, Engineering

Gabriel Brewer

rgb7@dana.ucc.nau.edu

Advisor: Phil Mlsna, 928-523-2112,
Phillip.Mlsna@nau.edu

Embry-Riddle, Prescott

Chair:

Advisor: Chuck Cone

conec@erau.edu

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

Time: 6:00 pm to 8:30 pm

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

Directions: From 143, exit University Ave, go west, turn right on 47th street.

More Info: Meetings held first Tuesday of month. No meetings in July and August. All interested IEEE members are welcome to attend.

Contact: Rao Thallam, Phoenix Section Chairman, ph: (602) 236-5481 or e-mail: thallam@ieee.org

The IEEE Computer Society is now accepting nominations for new officers. Elections will be held at the December meeting: 7:00 PM Wednesday December 6, at DeVry University, 2149 West Dunlap Ave., Phoenix, AZ. You must be a current paid member of both the IEEE and the Computer Society to hold office. You can nominate yourself by speaking to Bob Bianca at either the November 1st or December 6th meeting, during the networking hour, 6:00-7:00 PM. The Computer Society will be electing: Chair, Vice Chair, Program Chair, Treasurer, Secretary, and Webmaster. All members are encouraged to run for office.

Message from the Chair

December 2006

By Rao Thallam



My tenure as Chairman of the IEEE Phoenix Section is nearing completion. Technically, the Executive Committee holds the office for one calendar year, starting in January. But in practical terms, change of officers takes place after the annual banquet which is scheduled for February 10, 2007. The two months leading up to the annual banquet is busy period for the executive committee and also for the chapters. The January issue of the section's Megaphone newsletter with details of the annual banquet and the chairman's annual report along with regular features will be sent to all members in hard copy by US mail. The selection of chapter awards, Engineer and Young Engineer of the Year awards, Company of the year awards, IEEE scholarships awards and the planning of the banquet itself fully occupy the Executive Committee's time.

As brief summary of the activities and goals achieved, two new chapters, Engineering Education Society chapter and the EMBS Society chapter have started this year and are off to a good start. They have elected officers and held meetings. There are now ten active chapters and two affinity groups in the Phoenix Section. They hold an average of about ten meetings a month serving members of the Phoenix Section. The section also supported several IEEE Conferences held in Phoenix area. The CPMT and Waves and Devices Chapters held another successful joint workshop "Convergence in Communications and Computing" this year. The section is pursuing to develop pre-college activities and in this effort is collaborating with SRP's Sc4Kids employee interest group. The section is building a micro maze, which should be available for competitions in the spring next year.

In November, I visited Power Engineering Society Chapters in Bangkok, Bandung in Indonesia and Singapore under the IEEE Distinguished Lecturer Program. The Distinguished Lecturer Program is a service to chapters that helps chapters offer lectures, workshops or seminars on current topics from a selected list of experts. In Bangkok, the lecture was part of the Conference and Exposition on "Power Engineering for Sustainable Development". In Singapore, the one day workshop was eligible for earning CEUs approved by the Professional Accreditation Board.

The section and chapters are seeking your active participation in various capacities. At this time of the year, there will be change of the officers, chair, vice chair, secretary and treasurer. If you are interested in participating, please contact any of the current officers listed in the front page of this newsletter, or send e-mail to me (thallam@ieee.org)

IEEE ANNOUNCEMENTS

**2nd ANNUAL ADVANCED MATERIALS FAILURE ANALYSIS
(AMFA) WORKSHOP**

TO BE HELD FRIDAY, APRIL 20, 2007

**(Following the International Reliability Symposium, SUNDAY-THURSDAY, APRIL 15-19,
2007)**

**HYATT REGENCY HOTEL
PHOENIX, ARIZONA**

AMFA MISSION:

*To serve the interests of failure analysis & materials characterization professionals by providing a forum for the presentation and **active** discussion of timely and pertinent technological issues and trends and to promote the development of new capabilities that fill critical gaps in emerging technologies.*

Unlike traditional conferences that often restrict audience participation, AMFA Workshops provide only top quality invited speakers on leading edge topics, in a format where audience participation is expected and strongly encouraged. Preliminary program details will be available in September, 2006.

Mark your calendars now for this exciting event!

<http://www.amfaworkshop.org>

IEEE ANNOUNCEMENTS

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
COMPONENTS, PACKAGING AND
MANUFACTURING TECHNOLOGY SOCIETY
ECTC Components & RF Program Committee
CPMT RF & Wireless Technical Committee



57th ECTC May 29 – June 1, 2007

Reno, Nevada, USA

The CPMT RF & Wireless Technical Committee and the ECTC Components & RF Program Committee encourage you to submit an abstract to ECTC 2007 in the area of passive components & networks, RF and Microwave components and modules and subsystems. ECTC is the premier Electronic Components and Packaging conference held annually and attended by about 1000 delegates with equal participation from companies and academia. As in the past, Components, RF & Microwave related papers are solicited for focus sessions during this prestigious conference.

Passive components

Design, Materials, Processes and manufacturing considerations for discrete passive components-resistors, capacitors, inductors and passive networks

Integrated / Embedded Passives for digital, mixed signal, RF/Microwave applications:

Design, technology, characterization - Embedded passives (inductors, capacitors) for RF/microwave applications & evaluation of their performance in terms of Quality Factor (Q), component value, fabrication challenges & cost

RF and Microwave Components:

Integrated Antennas, filters, baluns, RFID/sensors, RF MEMS, high power and high efficiency RF/microwave power amplifiers – design, technology, new high frequency characterization methodologies

RF and Microwave Modules:

RF/Microwave Packaging techniques & characterization

Module Integration in semiconductor, ceramic, organic or glass substrates for UWB, integrated transceivers for Zigbee, mobile digital TV ---

EMI and innovative shielding techniques for passive components and mixed signal application

SUBMISSIONS:

Please submit abstracts using the ECTC web site: www.ectc.net by October 15, 2006. Abstracts must comply with the guidelines outlined at the website. To have your paper considered for inclusion in the “Components & RF” focused sessions **YOU MUST SELECT**

“Components & RF” committee as your PRIMARY subcommittee preference

when you submit your abstract at the ECTC web site. Again, to have your paper considered for the RF & microwave components sessions, please do the following:

STEP #1: Submit abstract through the ECTC web site (www.ectc.net) and select **“Components & RF” as PRIMARY subcommittee preference**

STEP #2: Email abstract copy and author’s email & contact information to:
Craig Gaw at c.a.gaw@ieee.org & Mahadevan Iyer at mahadevan.iyer@ece.gatech.edu

Craig Gaw, Chair - CPMT RF & Wireless TC
Freescale Semiconductor Inc.
c.a.gaw@ieee.org

Mahadevan K Iyer, Chair - ECTC RF & Components TC
Georgia Institute of Technology
mahadevan.iyer@ece.gatech.edu



IEEE PHOENIX SECTION ANNUAL BANQUET

Saturday, February 10th, 2007



At
**Hilton Phoenix Airport
Grand Ballroom**
2435 South 47th Street
Phoenix, Arizona 85034
Tel: (480) 894-1600

Program:
6:00 PM – 7:00 PM Registration and Social Hour with Cash Bar
7:00 PM – 8:30 PM Dinner and Keynote Presentation
8:30 PM – 9:30 PM Section Awards Program

Keynote Speaker: Dr. Deirdre R. Meldrum
Dean and Professor of Electrical Engineering
Director, Center for EcoGenomics
Arizona State University, Tempe, Arizona

Keynote Presentation: Health and the Environment: From Fundamental Understanding to Future Applications

AWARD RECOGNITION CATEGORIES

Member

Young Engineer of the Year
Engineer of the Year

Advance Member Grade

Fellows, Senior Members

Chapter/Society

Individuals, Teams, Organizations, Best Society Chapter

Non-IEEE Member

Contributions to the Engineering Profession

Corporate

Large Company of the Year
Small Company of the Year

Education

Outstanding IEEE Student Branch
Outstanding IEEE Student Branch Leader
Outstanding Faculty
Outstanding Pre-College Educator
Phoenix Section Student Scholarships

Special Chair

Chair Special Recognition
Phoenix Section 2006 Officers

Future Cities Competition

Phoenix Section Communication Award

Banquet Fees:	IEEE Members and Guests	\$30.00	IEEE Student Members	\$20.00
	IEEE Student Member Guests	\$30.00	IEEE Chapter / Society Table	\$300.00*
	Corporate Sponsorship	\$500.00**		

*Table sits 10 persons

**Sponsorship includes recognition at program, table of ten for dinner, and space for display

The deadline for receiving the registration fee is **Friday, January 26th, 2007**

For Making Reservations and Sending Checks Please

Contact:

Dr. Keith E. Holbert
Treasurer, IEEE Phoenix Section
Electrical Engineering Department
Arizona State University
P.O. Box 875706
Tempe, AZ 85287-5706
Tel: (480) 965-8594
Fax: (480) 965-3837
Email: keith.holbert@asu.edu (preferred)

For Further Information Please Contact Annual Banquet Organizing Committee Members:

Dr. Vasudeva P. Atluri	(480) 554-0360
Dr. Rao Bonda	(480) 413-6121
Mr. James E. Drye	(480) 413-5685
Dr. Dongming He	(480) 552-0947
Dr. Keith E. Holbert	(480) 965-8594
Dr. Rao S. Thallam	(602) 236-8064

For more information visit our web page: <http://www.ieee.org/phoenix>



IEEE PHOENIX SECTION ANNUAL BANQUET

Saturday, February 10th, 2007

At

**Hilton Phoenix Airport
Grand Ballroom**

2435 South 47th Street
Phoenix, Arizona 85034
Tel: (480) 894-1600



Registration Form

Banquet Fees:

IEEE Members and Guests	\$30.00
IEEE Student Members	\$20.00
IEEE Student Member Guests	\$30.00
IEEE Chapter / Society Table	\$300.00*
Corporate Sponsorship	\$500.00**

*Table sits 10 persons

**Sponsorship includes recognition at program, table of ten for dinner, and space for display

For additional information please access www.ieee.org/phoenix

The deadline for receiving the registration fee is **Friday, January 26th, 2007**

Please mail completed registration form along with your check, payable to: "IEEE Phoenix Section" and mail to:

Dr. Keith E. Holbert
Treasurer, IEEE Phoenix Section
Electrical Engineering Department
Arizona State University
P.O. Box 875706
Tempe, AZ 85287-5706

Tel: (480) 965-8594

Fax: (480) 965-3837

Email: keith.holbert@asu.edu (preferred)

Banquet Timings:

Registration / Social Hour with Cash Bar:	6:00 PM – 7:00 PM
Dinner / Keynote Presentation:	7:00 PM – 8: 30 PM
Section Awards Program:	8:30 PM – 9:30 PM

Social Hour Hors D'Oeuvres:

Tequila Jalapeno Poppers	Crab Stuffed Mushrooms
Teriyaki Beef Kabobs	Cheese and Cracker Tray
Vegetable Tray with Ranch Dip	

Cash Bar:

Sodas and Alcoholic beverages

Dinner Menu:

- 1) Petite Filet Mignon and Chicken Piccata Combo Dinner
- 2) Chilean Sea Bass Dinner
- 3) Vegetable Wellington with Roasted Red Pepper Sauce

Dinner Menu also includes Field Green Salad with Ranch and Vinaigrette Dressings, Garlic Mashed Potatoes, Rolls and Butter, Fresh Vegetables, Ice Tea and Water

Dessert:

New York Cheesecake with Strawberry Sauce
Coffee, Decaffeinated Coffee and Tea are served with Dessert

Please limit Registration to two persons per form, attach multiple forms if necessary. Detach below and mail with check.

IEEE PHOENIX SECTION ANNUAL BANQUET – 2007 Registration

(Please complete all sections of the form by typing or printing in bold and capital letters)

Name:

Guest Name:

Address:

Telephone Number:

Email:

IEEE Member: Yes

No

Student

Membership #

Dinner Choice (please select one per person)

(1) ___ Petite Filet Mignon and Chicken Piccata Combo Dinner

(2) ___ Chilean Sea Bass Dinner

(3) ___ Vegetable Wellington with Roasted Red Pepper Sauce

IEEE ANNOUNCEMENTS

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
Membership Chair, Phoenix Section

December Meeting
Announcement for the
Phoenix Chapter of the
IEEE EMC Society



Date: Wednesday, December 6th, 2006

Place: Garcia's Mexican Restaurant at Embassy Suites Hotel

Address: 4400 South Rural Road, Tempe, Arizona

Address: Just South of U.S. 60 on West side of Rural Rd.

Time: 5:30PM Social, 6PM Dinner (order off menu), 7PM Meeting and Presentation

Title: The New EMC Directive for Europe, Are You Ready?

Speaker: Gary Fenical, Laird Technologies

Abstract: At the end of 2004, the European Council and the European Parliament have formally adopted a revised Directive on Electromagnetic Compatibility (EMC Directive): the new Directive 2004/108/EC of the European Parliament and of the Council, of 15 December 2004, on the approximation of the Laws of Member States relating to electromagnetic compatibility, published in the OJEU on 31 December 2004 (L 390/24). This new Directive will replace the old Directive 89/336/EEC within three years (from 20 July 2007).

Some items to be presented are:

- Timeline
- Updated Definitions
- Fixed Installations
- Documentation
- New role for Notified Bodies
- Enforcement

There will be no grandfathering for products currently being placed on the market. With mandatory compliance to the new directive to be the 20th of July 2007, **are you ready?**

About the speaker: Mr. Fenical is the EMC Technical Sales Representative at Laird Technologies, in Delaware Water Gap, PA and has been with the firm for 23 years. Mr. Fenical is a specialist in RF shielded enclosures and has been responsible for the design and/or measurement and quality control of hundreds of large-scale shielded enclosures as well as a number of shielded equipment cabinets and housings. He was instrumental in the design and construction of Laird Technologies' state-of-the-art World Compliance Centers. Mr. Fenical has authored many articles on EMC Requirements for Medical Devices, Mutual Recognition Agreements and Guidelines to meet the essential requirements of the EMC Directive. He has also authored several seminars on the EU EMC Directive, International Compliance, and Designing for EMC and EMC Requirements for Medical Devices which have been presented worldwide. He holds the patent for the invention of heat-treated beryllium-copper knitted wire mesh gasket.

RESERVATIONS: Please call Daryl or Mary at Kimmel Gerke Associates in Mesa AZ at 480-755-0080. (If no answer, please leave a voice mail.) You may also register by email at dgerke@emiguru.com. There is no charge for meetings, but you pay for your own meal and drinks. Since we order off the menu, we do not need an exact number, so if you decide at the last minute, please come anyway. You don't need to be an IEEE or EMC Society member to attend -- all are welcome.

PES January 2007 Luncheon Meeting

Date: Thursday, January 18, 2007

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

Location: SRP PERA Club
<http://ewh.ieee.org/soc/pes/phoenix/images/PERAMAP.pdf>
1 E. Continental Dr.
Tempe, AZ

Speaker: Dr. Keith E. Holbert, Associate Professor of Electrical Engineering, Arizona State University

Topic: An Update on Nuclear Power in the U.S.

Cost: \$8.00 (Students \$4.00)

Reservations: Contact Info TBA .

Reservations deadline is Noon Monday, January 15, 2007.

Abstract:

Since the 1970s, the nuclear power industry has been beset with a lack of growth. Economic issues with several root causes have ultimately stymied nuclear plant development. The U.S. government gave birth to nuclear power, and now, via incentives in the Energy Policy Act of 2005, has set the stage for a potential revival of nuclear power. Wildcards, such as global warming and global competition for energy sources, could propel a nuclear renaissance.

Biography:

Dr. Keith E. Holbert is currently an Associate Professor in the Electrical Engineering Department of Arizona State University. He earned his Ph.D. in nuclear engineering from University of Tennessee in 1989. His research interests focus on power plant instrumentation, signal processing, and fuzzy logic applications for power plants. Dr. Holbert is a registered professional engineer (nuclear). He has published more than 65 refereed journal and conference papers.

IEEE ANNOUNCEMENTS

IEEE Computer Society - Phoenix Chapter

December Meeting

Speaker: Lonnie Dworkin

Date: 6:00 P.M., Wednesday, December 6, 2006

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.

Computer Forensics Tools

About the Speaker

CompuFor was established in 2004 and is based in Scottsdale, AZ. CompuFor specializes in Computer Forensics, Data Recovery, and Information Security. The company has established a reputation for flexibility, and rapid response during their history working directly with local, national, and international businesses, and law firms.

CompuFor is engaged in a wide spectrum of civil matters including intellectual property, employment, due-diligence, and domestic matters. CompuFor drafts affidavits and motions, and consults for pre-trial management conferences and evidentiary hearings.

The company also has extensive criminal defense experience including; advises clients and attorneys on developing and evaluating theories of defense in matters that involve identity theft, Internet fraud, murder, and other types of illegal activities that directly or indirectly implicate computers. Many of their cases are resolved without going to trial, saving litigation costs to all parties involved. CompuFor makes every "bit" evident.

Lonnie Dworkin is an IEEE Computer Society member with an extensive background in New Product Development and IT.

Company website: <http://www.compufor.com>.

For more information about this meeting, contact cesar.vasquez-carrera@computer.org

IEEE Phoenix Area Consultants Network December Meeting: Weekly Business Meeting

Date: Thursday, December 14th, 2006

Time: Networking begins at 6:30 pm

Dinner begins at 7:00 pm

Program starts at 8:00 pm

Place: Denny's Restaurant

3315 N. Scottsdale Rd. (at Osborn)

Scottsdale, Arizona 85251

Abstract: December is our annual business meeting. We will elect new members of our Executive Board and entertain suggestions for the future direction of our organization, including the ways that our organization can help the cause of independent consultants. Non-members are welcome to come join in the discussion.

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

IEEE Phoenix Section Student Paper Contest 2007

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 jdrye@ieee.org by 6 p.m. on **February 16, 2007**.

The oral presentations are 15 minutes plus a 5-minute question & answer period. The oral portion of the contest to be held the morning of Saturday **March 03, 2007**, at the ASU Tempe campus in the ASU Memorial starting at 8 a.m. A computer with projector will be provided for the contestants to use, since PowerPoint slides are the recommended approach. The best place to park that day should be the visitor section of Parking Structure 1 which is located near the intersection of Apache Blvd. and Normal St., and which is a short walk to the south of the Memorial Union (see <http://www.asu.edu/map/>).

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___ in Las Vegas, NV.

If you have any questions, please contact:

Jim Drye
Student Activities Chair
Phoenix Section

Voice: (480) 413-5685
Email: jdrye@ieee.org



IEEE PHOENIX SECTION SCHOLARSHIPS

Applications Due: December 22, 2006

Awardees Announced: January 2007

Institute of Electrical & Electronics Engineers

IEEE Student Member Scholarships

- For full-time undergraduates who are members of IEEE: approved majors are Electrical/Electronic Engineering, Computer Systems Engineering, Electrical Engineering Technology, Computer Engineering Technology, or Computer Science
- Must attend a university in the Phoenix Section during 2006-07 (*i.e.*, ASU, ASU Polytechnic, DeVry, Embry-Riddle, or NAU)

Scholarship Application Requirement

- Application form (attached) 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 any further Information Please Contact:

Jim Drye
jdrye@ieee.org
(480) 413-5685

Send Completed Application Materials to:

Jim Drye
Student Activities Chair
705 E. Bates St.
Mesa, AZ 85203



IEEE PHOENIX SECTION
SCHOLARSHIP APPLICATION
(Due: December 22, 2006)

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 pages 2 and 3 (Financial Aid Statement and Personal Statement),
And Attach Official Transcripts from Present School/College.

IEEE ANNOUNCEMENTS

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 2006-2007 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 ANNOUNCEMENTS

**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).