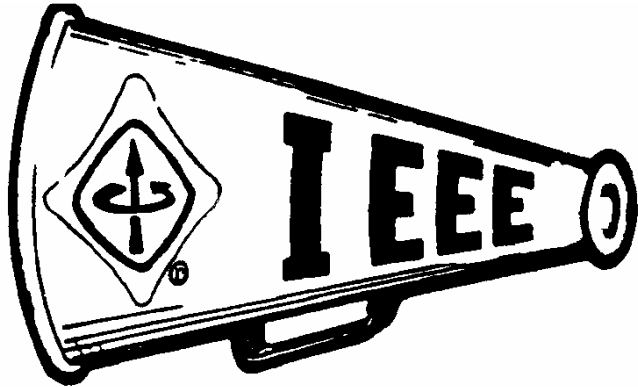


The Valley Megaphone



Newsletter of the
**Institute of Electrical and
Electronics Engineers, Inc.**
Phoenix Section
January 2007, Volume XXI, Number 1

Executive Committee

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shamala@ieee.org

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cdas@ieee.org

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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
daniel.lu@ieee.org

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EMBS Chapter

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ahmed_a@acm.org

EMC Society

Harry Gaul, 480-441-5321
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GOLD

Mike Poggie
michael.poggie@gdc4s.com

Power Engineering Society

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

Solid State Circuits

Bertan Bakaloglu
bertan@asu.edu

Waves & Devices Society

Chuck Weitzel, 480-413-5906
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, 1/2 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>

IEEE ANNOUNCEMENTS

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

Message from the Chair

January 2007

By Rao Thallam



This will be my last message as chairman of the IEEE Phoenix Section. The support I received from the chapters, student branches and members of the Executive Committee has been excellent. I thank all section officers for their dedication in supporting the activities of the section. Volunteering for the IEEE is an enriching experience and personally very rewarding for me.

Saturday, February 10 is the date of the Phoenix Section's annual banquet. The program details are listed in this newsletter. The new Engineering Dean of ASU, Dr. Deirdre Meldrum will give the key note speech "Health and Environment: From Fundamental Understanding to Future Applications". This is also a good networking and social event. Please register early since the banquet hall was full last year.

There is a volunteer opportunity for retired members of the IEEE in the valley. RE-SEED (Retirees Enhancing Science Education through Experiments and Demonstrations) is seeking volunteers. The organization will be conducting training for volunteers at the Chandler Unified Schools in conjunction with Arizona State University. The all day workshops will take place Monday, March 19-Thursdays March 22, 2007. They are hoping to have 15-20 engineers or scientists take part in it and they will then be placed in Chandler schools as volunteers. If interested, please contact Shelia Kirsch at Sheila.Kirsch@asu.edu and / or Deirdre Weedon, d.weedon@neu.edu. See also the web site: www.reseed.neu.edu or phone: 1-888-742-2424

One of our goals for the section was to initiate pre-college activities. The section began exploring to offer Teacher-in-Service workshop to local high school teachers. This features IEEE Section volunteers presenting technologically oriented subject matter to local pre-university educators in an in-service or professional development setting. Mike Poggie is leading this effort. If you are interested in participating in this project, please contact Mike at: michael.poggie@gdc4s.com

All our chapters were very active this year. A total of 150 meetings were held to serve the members of the section. Brief highlights of the activities of some of the chapters are included here.

I wish you all a bright, happy and prosperous New Year 2007.

IEEE ANNOUNCEMENTS

Power Engineering Society Chapter

The Power Engineering Society held 7 technical lunch meetings during 2006 with average attendance of 41 people per meeting. This represents a 14% increase in attendance over last year. The 49th annual PES golf tournament was held at Antelope Hills Golf Club in Prescott with good participation resulting in a good fund raising opportunity for the chapter. In 2006, the chapter received recognition as one of the Power Engineering Society High Performing Chapters (one of two in Region 6). We expect to receive the same distinction for the 2006 time frame.

Doug Selin
2006 PES Chapter Chair

GOLD (Graduates of Last Decade) Chapter

The IEEE GOLD affinity group became much more active this year by holding 13 meetings/events in 2006 compared to last year's 2 meetings. Some of our more notable events were a seminar on the new wireless network being provided by WAZMetro, a lecture/tour of a startup biomedical company called Flowchips and a seminar on "How Money Works". We also had many social events that brought GOLD members from several engineering companies together.

Michael Poggie
2006 GOLD Chair

EMC Chapter

Over the past year, the EMC Chapter has hosted four technical meetings with attendance averaging about 15 to 20 people. The talks at the meetings covered a variety of topics including radiated emissions testing, antenna calibration, anechoic chambers, electromagnetic modeling, systems EMC, and the new European Union EMC Directive. An election for chapter officers was held in December with the current officers reaffirmed for 2007 and a new officer was confirmed as Treasurer.

Harry Gaul
2006 IEEE EMC Society Chapter Chair

Communication and Signal Processing Chapter

In 2006, the Phoenix section SP-COM Chapter held 25 technical seminars. These seminars were co-sponsored by the Chapter in collaboration with the Sensor, Signal & Information Processing (SenSIP) Center, Fulton School of Engineering, Arizona State University <http://enpub.fulton.asu.edu/sensip/>. Speakers were top researchers in the field. Through these technical seminars, the state-of-the-art technologies in signal processing and communications, especially in the area of sensor network, were introduced to audience, including both IEEE members and non members.

Dr. Gang Qian
2006 Comm & Signal Processing Chapter Chair

IEEE ANNOUNCEMENTS

Computer Society Chapter

The Computer Society Chapter held six technical presentations in 2006. The meetings were held in DeVry University Phoenix Campus in the first Wednesday of the following months: February, March, April, May, October and December. Elections were held on 12/6/06 and the new officers were elected for 2007.

Cesar A. Vasquez-Carrera
2006 Computer Society Chapter Chair

Phoenix Area Consultants Network

The IEEE Phoenix Area Consultants Network held twelve monthly meetings in 2006, on the second Thursday of each month. The exception was May, in which we held our annual picnic on Saturday the 13th. At each meeting we had a guest speaker give a presentation of interest to engineers and consultants, except for December, which is our annual business meeting. At this meeting all of our current officers were re-elected.

Vaughn Treude
2006 PACN Chair

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 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 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 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

RE-SEED

Retirees Enhancing Science Education through Experiments & Demonstrations

Overview

RE-SEED (Retirees Enhancing Science Education through Experiments and Demonstrations) is a Northeastern University program that prepares engineers, scientists, and other individuals with science backgrounds to work as volunteers, providing in-classroom support to upper elementary and middle school science teachers with teaching the physical sciences.

After completing a comprehensive free training program, participants volunteer in middle school classrooms on the average once a week for at least one year. RE-SEED began in 1991 with six volunteers. To date close to 500 RE-SEED volunteers have worked in schools in about 100 communities throughout the country offering about 500,000 hours of their time.

Nationally, 75 percent of 7th and 8th grade students are taught physical science by teachers who do not have a major or a minor in the subject (The National Science Board, Science and Engineering Indicators 2000). RE-SEED volunteers possess talent and expertise that complement those of science teachers. They bring with them a wealth of knowledge and experience that allows them to make science interesting and relevant to everyday situations.

RE-SEED volunteers work closely with the host science teachers to help them enrich and implement their school curriculum. Overall the volunteers become involved members of their schools' and even their districts' teaching team, sometimes taking part in curriculum adoption decisions.

Please contact us by email at reseed@neu.edu or phone 888-742-2424; Shelia Kirsch at Sheila.Kirsch@asu.edu and / or Deirdre Weedon, d.weedon@neu.edu. if you are interested in learning more about these training programs.

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 Michelle at (602) 437-0469 or submit your name on the Chapter website: <http://ewh.ieee.org/soc/pes/phoenix/>
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.

**February Meeting
Announcement for the
Phoenix Chapter of the
IEEE EMC Society**



Date: Wednesday, February 21st, 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: Shielding Theory and Design

Speaker: Michael J. Oliver, MAJR Products Corporation

Abstract: It is important for electronic and hardware engineers to not only be knowledgeable of a products intended function and performance, but also the ability of the product to perform within electromagnetic compatibility (EMC) limits. In this talk, practical shielding theory and design fundamentals are introduced that includes crosstalk, electromagnetic fields, board level, and enclosure shielding. A segment on testing of board level shields is presented in conjunction with an aperture attenuation modeling program used to model attenuation characteristics prior to expensive FCC/CE compliance testing. As a final point, honeycomb vent panels and respective plating attenuation comparisons are discussed.

About the speaker: Mr. Oliver is Vice President of Electrical / EMC Engineering at MAJR Products Corporation. His expertise is in EMI/RFI shielding technology with a background in electronics, military shelter electrical systems, and high power antenna / radome design. Mr. Oliver holds a B.S. degree in Electrical Engineering from Gannon University and he currently holds three patents (two pending), on EMC shielding-thermal management devices. He has experience in the design and testing of aerospace antennas, shielding of military shelter electrical systems, and discrete EMC shielding components. Mike has performed open and anechoic chamber radiated tests to military standards and has utilized many antenna and radiated test systems. He has written numerous technical papers and publications on electromagnetic shielding components, product testing - design, and military antenna/radome test methodology standards. He currently serves as Chairman of the newly formed IEEE Pittsburgh EMC Society, Vice Chairman of the SAE AE4 Electromagnetic Compatibility Committee, and is a member of the IEEE EMC Standards Advisory Coordination Committee (SACCom).

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

IEEE Computer Society - Phoenix Chapter

February Meeting

Speaker: Tobijah Pettus

Date: 6:00 P.M., Wednesday, February 7, 2007

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.

<http://ewh.ieee.org/r6/phoenix/compsociety/index.html>