

The Valley Megaphone

Newsletter of the
**Institute of Electrical and
Electronics Engineers, Inc.,
Phoenix Section**
May 2010,
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Executive Committee - 2010

Chair

Henning Braunisch,
480-552-0844

braunisch@ieee.org

Vice Chair

Jim Hudson

jim.hudson@srpnet.com

Secretary

Ralph Hogan, 480-774-8227

rhogan@ieee.org

Treasurer

Charles Weitzel, (480) 292-0531

c.weitzel@ieee.org

Past Chair

Debendra Mallik, 480-554-5328

dmallik@ieee.org

Publicity

Satish R. Ayer, 480-633-1193

satish.ayer@ieee.org

PACE

Mike Andrews, 480-991-1619

m.andrews@ieee.org

Membership

Victor Prokofiev

victor.prokofiev@intel.com

Student Activities

Nick Leonardi,
480-736-1970 x23

nleonardi@ieee.org

Conferences

Russ Kinner, 602-997-2353

r.kinner@ieee.org

Awards

Vasudeva P. Atluri,
480-227-8411

vpatluri@ieee.org

Inter-Society

Mike Andrews, 480-991-1619

m.andrews@ieee.org

Webmaster

Monica H. Braunisch

mhbraunisch@ieee.org

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IEEE Phoenix Section on-line updates can be found on our Web site at:

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

and on LinkedIn at:

<http://www.linkedin.com/groups?gid=2765918>

Please send announcements for the *Valley Megaphone* to Satish Ayer at satish.ayer@ieee.org and to Russ Kinner at r.kinner@ieee.org for inclusion in the Section Calendar.

Chapters

Communication & Signal Processing

Harvey Thornburg, 480-727-7902
harvey.thornburg@asu.edu

Computer Society

Jon Candelaria

Jon.Candelaria@motorola.com

Consultants Network (PACN)

Ronald L. Sprague, 602-828-7374
r.sprague@ieee.org

CPMT Society

Surinder Tuli, 480-554-8275

Surinder.k.tuli@intel.com

Education Chapter

Martin Reisslein, 480-965-8593

reisslein@asu.edu

EMBS Chapter

TBD

EMC Society

Harry Gaul, 480-441-5321

harry.gaul@ieee.org

GOLD

David Huerta

huertanix@ieee.org

Power & Energy Society

Bruce Ladewig, 480-620-9291

bruceladewig@ieee.org

Solid State Circuits

Hugh Barnaby

hbarnaby@asu.edu

Teacher-In-Service

Mike Poggie

mike.poggie@ieee.org

Waves & Devices Society

Steve Rockwell,

steve.rockwell@ieee.org

Life Members

C Bruce Johnson,

cbj@johnsonscientificgroup.com

U – News

(for Student Members)

IEEE REGION 6 SW AREA SPRING MEETING HELD at ASU in TEMPE

The Region 6 Southwest Area meeting was held Saturday April 10th on the ASU Tempe Campus, with members of Phoenix Section Executive Committee there to support coordination of various presentations and other related events, with several other IEEE Sections represented at the meeting. There were several students from various Universities participating in events such as the Student Paper Contest and the MicroMouse Maze competition.

IEEE STUDENT PAPER CONTEST. . . ERAU leads Phoenix Section ! !

The Student Paper prepared by Elijah Brown of Embry-Riddle, titled : A Detection System for the Navel Space Surveillance Radar Transmitters, was selected as Winner of IEEE Phoenix Section Paper Contest for 2010 and went on to compete in the SW Area Paper Contest, taking 3rd place. Excellent work by Mr. Brown with other Sections presenting on the topics of Solar Cell, Computer Programming, Autonomous Cars and Data Mining.

S-PAC EVENT HELD by Embry-Riddle Aeronautical University April 10th

ERAU continues to lead the Student Branches with excellent effort and cooperation, with the preparation of an S-PAC Event help last month. Interface between students and industry professionals is key to success and continued growth of IEEE Organization. Direct mentoring of student members leverages the potential of them becoming professional members upon graduation. This will be a focus for all Student Branches for 2010-11.

This U-News Page, initiated last year, will continue to serve as a focal point for communications related to Student Branch Activity. The Section Executive Committee requests student recommendations for improvements and support in expanding student branch membership.

Nick Leonardi
480-720-1435 Cell
nleonardi@ieee.org
Student Activities Chair

Student Branches

ASU Main, Engineering

Chair: Harshini Yerra
ieeasuchair@gmail.com
Advisor: Cihan Tepedelenioglu,
(480) 965-6623, cihan@asu.edu

ASU Main, Computer Society

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

ASU Polytechnic

Chair: Justin Burrell
justin.burrell@asu.edu
Advisor: TBD

DeVry, Phoenix

Chair: TBD
Advisor: Diane Smith
dsmith2@devry.edu

DeVry, Computer Society

Chair: TBD
Advisor: Diane Smith
dsmith2@devry.edu

NAU, Engineering

Chair: Kenji R. Yamamoto
kry3@nau.edu
Advisor: Niranjan Venkatraman
y.niranian@ieee.org

Embry-Riddle, Prescott

Chair: Tim Lemm
timothy.lemm@erau.edu
Advisor: John E. Post
postj@erau.edu

U – Newsbytes

CONGRATULATIONS to the 2010 Graduating Classes for all schools with best wishes for continued participation as industry professionals!

- ASU Polytechnic is currently seeking Advisor for the Student Branch. Please email Nick (at email address above) with Recommendations.
- Student volunteers are being enlisted by the IEEE Event Organizers for IECON 2010 in Glendale, AZ. Details to be published as available.



36th Annual IEEE Industrial Electronics Conference (IECONN 2010)



7-10 November 2010, Greater Phoenix AZ

Call for Participation

Industrial Electronics Conference (IECON) is an IEEE international conference on industrial applications of electronics, control, robotics, signal processing, computational and artificial intelligence, sensors and actuators, instrumentation electronics, computer networks, internet and multimedia technologies. The objectives of the conference are to provide high quality research and professional interactions for the advancement of science, technology, and fellowship. Papers with new research results are encouraged for submission. IECON'10 is being held concurrently with the 4th IEEE International Conference on E-Learning in Industrial Electronics (ICELIE'10) and the Industry Forum. Participation in all three events just requires the IECON'10 registration fee. Industry, research, and academia are cordially invited to participate in the wealth of presentations, tutorials, exhibits, plenary sessions, and social activities for the advancement of science, technology, engineering education, and fellowship. Accepted and presented papers will be published in the respective conference proceedings, and included in the IEEE *Xplore*® online digital library and EI Compendex database. Detailed information about manuscript submission is available at the following website:

<http://iecon2010.njit.edu>

Important Dates for Authors:
Contributed papers: 26 April 2010
Tutorial proposals: 3 May 2010
Special Session proposals: 1 March 2010
Notification of acceptance: 1 July 2010
Final submissions due: 6 September 2010



IEEE SCSS & Eta Kappa Nu Electrical Engineering Afternoon



Date: **Friday, May 14th, 2010**

Time: **12:30 PM to 3:00pm**

Location: **Imagine Elementary School**
 1538 E Southern Ave
 Tempe, AZ 85281

Description:

The Electrical and Computer Engineering Honor Society, Eta Kappa Nu (HKN) has partnered with IEEE SCSS for an outreach program designed to increase awareness amongst sixth and seventh grade students at Imagine School in Tempe of electrical and computer engineering opportunities at the university level. This program will help these students learn the basics of electronics by building an alarm, doorbell or any one of the other 100 experiments from an Electronics Learning Lab Kit. Two to three students will be paired with an Eta Kappa Nu mentor and a lab kit and have an hour to complete a designated experiment.



Attend a free seminar about accelerating your analog IC layout and enter a raffle to win an Apple iPad. Come learn about an intuitive layout process that could save you hundreds of hours of design time.

We are holding these seminars throughout Arizona this May.

Feel free to forward this information to anyone who may be interested.

Attendance is limited, so be sure to register by May 5th, at:

<http://www.tannereda.com/dm2/azseminaroth>

I look forward to seeing you next month.

Douglas Bloom | Account Manager | **Tanner EDA**
825 South Myrtle Avenue | Monrovia, CA | 91016
Phone +1-626-471-9770 | Fax +1-626-471-9801
dbloom@tannereda.com | www.tannereda.com



Waves and Devices

Phoenix Chapter

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

2010 Calendar

Special Notice to IEEE Student Members: Present your IEEE Student Member card at the meeting and get your meal for free including drinks (except for alcoholic beverages).



INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
Waves and Devices - Phoenix Chapter
Microwave Theory & Techniques Society Meeting
Meeting Free & Open to Non-IEEE Members



6:00 PM, Thursday, May 13th, 2010
Arizona State University, Goldwater Center, GWC-487

Are You Smarter Than a DARPA PM?

Dr. Robert Reuss

Former DARPA PM, Consultant

Abstract

The Defense Advanced Research Projects Agency (DARPA) is the R&D arm of the Pentagon. It is a child of the space age, with its creation directly attributed to Sputnik in 1957. DARPA has a long and illustrious history in fostering some of the most important science and technology breakthroughs of the last 50 years. It was my great honor and privilege to serve as a program manager (PM) at DARPA for five years (2001 to 2006).

In this presentation I will focus on three areas in an effort to describe DARPA and what it is like to be a DARPA PM.

- DARPA history and future from an electronics perspective (especially Si ICs).
- DARPA's mode of operation in selecting and managing an R&D program.
- Personal experiences as a DARPA PM suggesting the opportunity to the attendees.

While at DARPA, Dr. Reuss was responsible for several research thrusts into fabrication of flexible, large area electronics including high mobility TFTs for digital and RF applications and organic photovoltaics, as well as conventional microelectronics efforts that included reconfigurable, multi-core processor design, asynchronous logic design methodology, and sub-threshold, ultra-low power operation. Prior to joining DARPA, Dr. Reuss spent twenty years in various technology and research management positions with Motorola.

Date: **Thursday, May 13th, 2010**

Time: **6:00 PM Presentation, Pizza will be served following the Seminar**
No Reservations Required

Location: **Arizona State University, Main Campus, Goldwater Center (GWC) Room 487**
Enter building through main (south) lobby and take elevator to fourth floor. Go north down the west hallway, the conference room is on the right.
See <http://www.asu.edu/map/> for map.

For more information, contact:

Steve Rockwell (WAD Chapter Chair) (480) 241-9891 steve.rockwell@ieee.org
Chuck Weitzel (Chapter Publicity) (480) 292-0531 c.weitzel@ieee.org



Power & Energy Society Announcements



May Technical Luncheon

Date: Thursday, May 20, 2010

Location: SRP PERA Club

Speaker: Marc L. Etherton, P.E., PDS Consulting, PLC

Topic: An Update on the SunZia Southwest Transmission Project

Summary: Mr. Etherton is returning to provide an update on the SunZia Southwest Transmission Project, which is a 345kV line being proposed between southern New Mexico and southern Arizona. Mark has previously presented to PES on the project's inception and scope, some of the goals and restrictions associated with the proposed effort, and the schedule.

Biography: Prior to starting PDS Consulting in August 2006, PLC, Mr. Etherton was a partner at K.R. Saline and Associates, PLC. He has twenty-three years of electric utility experience with responsibilities ranging from system planning and analysis, protective relaying, substation design and communications systems, as well as approximately nine years in utility supervision and management. Mr. Etherton has been actively involved with the regional transmission planning organizations, including; Southwest Transmission Expansion Plan (STEP), Southwest Area Transmission (SWAT), and the Central Arizona Transmission Study (CATS) committee planning EHV facilities with local and regional utilities, independent power producers and the Arizona Corporation Commission. Mr. Etherton also has extensive background and experience in transmission and distribution system planning, Navajo and Palo Verde Operation Studies, WECC Seasonal Nomogram Studies, communications and protective relaying systems and developing operating procedures for system operations. He earned his B.S. in Electrical Engineering in May, 1984 from New Mexico State University and has been a Registered Professional Engineer in Arizona since February, 1990.

See the PES website for details on this meeting.

Future Technical Meetings

Sep 16th APS

Oct 21st SRP

Nov 18th APS



IEEE Phoenix Life Member Affinity Group

About IEEE Phoenix Section Life Member Affinity Group:

The IEEE Phoenix Section Life Member (LM) Affinity Group was organized in 2008 to enable IEEE Life Members to retain active IEEE associations, contribute to the social good in their communities, advance IEEE's professional interests and enjoy each other's company. Life Members Affinity Groups replaced Life Member Chapters in 2005.

Activities:

Annually, three technical meetings and three administrative meetings meet our minimum required activity.

A 2010 goal is to add activities meeting some of the other purposes stated above. Please participate in this 2010 goal by contacting any of the Group's officers with ideas. Technical meeting topics and suggested speakers are also encouraged.

Members:

An IEEE member automatically becomes an IEEE "Life Member" status when at least 65 years of age and a member of IEEE (including predecessor societies) for a period sufficient for the minimum sum of your current age and years of membership is 100. For more details use the link:

http://www.ieee.org/web/volunteers/mga/home/life_members_committee/index.html

2010 Officers:

Chair	C. Bruce Johnson	cbj@johnsonscientificgroup.com
Vice Chair	Michel Ebertin	Michel@ebertin.net
Secretary	A. Barry Cummings	Barry.Cummings@srpnet.com
Treasurer	Leslie Daviet II	lesdaviatii@cs.com
Program Chair	Ronald L. Sprague, P.E.	r.sprague@ieee.org
Past Chair	Professor George Karady	karady@asu.edu

Upcoming:

Technical meeting: October 2010, date and topic to be announced.



Computer Society Technical Meetings

Phoenix Chapter Website

www.ewh.ieee.org/r6/phoenix/compsociety



Next Monthly Meeting Chapter Meeting

Date: Tuesday, May 4, 2010 6:00 PM- 8:30 PM

Main Speakers: Prof. Raghu Santanam & Dr. Adrian Sannier
Arizona State University

Title: "Cloud Computing and the Future of IT"

Cloud computing offers new opportunities and challenges for researchers in Computer Science, Information Technology and Business.

Cloud computing enables new ways of composing and defining IT services. It also enables organizations to store, manage and harness large amounts of data at very low computational costs.

The talk will cover the fundamental forces shaping the emergence of Cloud computing. Examples of the use of cloud computing approaches in education and industry will be discussed.

Location:

University of Advancing Technology, 2625 W. Baseline Road., Tempe, Az. (near the corner of Baseline and 48th St.)

Agenda:

6:00-7:00 P.M. - Networking & Light Meal
7:00-8:30 P.M. - Presentation

Meeting Room number will be announced on our web site and via email to all of those on our mailing list at least one week prior to the meeting.

- Members & Non-Members All Welcome -



Computer Society Technical Meetings



Phoenix Chapter Website

www.ewh.ieee.org/r6/phoenix/compsociety

Future Events

- **May 4, 2010 - University of Advancing Technology (48th St. & Baseline)**
 - Prof. Adrian Sannier, and Prof. Raghu Santanam; '**Cloud Computing - Where it's At, Where it's Headed: Challenges and Possible Solutions**'
- **September 1, 2010 – DeVry University (Dunlap & 22nd Ave.)**
 - Jerry Crow; '**Cryptography, Part 1**'
- **October 6, 2010 – DeVry University (Dunlap & 22nd Ave.)**
 - Jerry Crow; '**Cryptography, Part 2**'
- **November 3, 2010 – T.B.D., Chapter Elections**
- **December 1, 2010 – T.B.D.**

Please contact jjcandelaria@ieee.org or any of our officers to suggest a topic and/or speaker for any of our upcoming meetings.

Past Meetings

For information about any past meetings and presentation files, go to:

www.ieeecs.com



IEEE Phoenix Area Consultant's Network



Our current officers are:

President	Ronald L. Sprague, P.E.	r.sprague@ieee.org
Vice President	C. Bruce Johnson	cbj@johnsonscientific.com
Treasurer	Bill Morgan	bill.morgan@cox.net
Secretary	Ed Mischen	ed.mischen@cox.net
Webmaster	Mike Pyska	m.pyska@ieee.org
Advisor editor	Ronald Sprague	r.sprague@ieee.org
Program Chairman	Robert Petro	Robert.petro@systemdatasolutions.com
Member at Large	Land Garrett, P.E.	lanegarret@aol.com
Member at Large	Ed Bawolek	bawolek@ieee.org

We have established a tentative schedule of programs for the next year, so we can all plan for future attendance.

Our meetings are held on the second Thursday of the month, unless otherwise indicated.

We invite any of the IEEE Phoenix Section members and student members to attend our meetings, and we would like some inputs on program topics. Some of the topics we are considering for future meetings are:

SCORE assistance for Small Business Startups

The State of Arizona Mechanic's Lien Laws and their application to consultants

Engineering Registration requirements for offering Professional Engineering services

We will be happy to add any new topics, if they are of interest to the Phoenix Section Membership.



Upcoming IEEE Conferences in Phoenix

The ***IEEE Industrial Electronics Society (IES)*** of the IEEE is holding **IECON 2010 - 36th Annual Conference of IEEE Industrial Electronics** 7-10 November 2010 in Glendale, AZ. For more information:

<http://iecon2010.njit.edu/>

The ***IEEE Microwave Theory and Techniques Society*** will sponsor the conference entitled **2011 IEEE Radio and Wireless Symposium (RWS)**. This conference will be held in Glendale, AZ on January 16-20, 2011.

For further information, please contact,
George E. Ponchak, NASA Glenn Research Center
21000 Brookpark Rd., MS 54/5
Cleveland, OH 44135
george.ponchak@ieee.org

Both of the above Conferences are being held at the Renaissance Glendale Hotel, Glendale, AZ. The hotel is adjacent to the Univ. of Phoenix Stadium and Jobing.com Arena at Westgate.

The ***IEEE Instrumentation and Measurement Society*** will sponsor the conference entitled **2010 IEEE International Workshop on Haptic Audio Visual Environments and Games (HAVE 2010)**. This conference will be held in Phoenix, AZ on October 16 - 17, 2010.

For further information, please contact,
Chris Dyer
1115 Westport Dr
Ste. D-2
Manhattan, KS 66502
+1 785 783 5520
cdyer@conferencecatalysts.com
<http://have.ieee-ims.org/>

or Conference Business Services Dept., at IEEE Operations Center at +1 732 562 3878.
(Ed. Note: the link above has not yet been updated with the 2010 information as of the date of publication, February, 2010)

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

Venue: Phoenix Airport Hilton, 2435 S 47th St, Phoenix, AZ, 85034
Tel.: 480-804-6017

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

Contact: Dr. Henning Braunisch, Phoenix Section Chairman,
braunisch@ieee.org

IEEE Phoenix - Calendar of Events

You may access the IEEE Phoenix Section Calendar of Events at:

<http://ewh.ieee.org/r6/phoenix/Calendar.htm>

For inputs and updates to the Calendar, please contact the IEEE Phoenix Section Conferences Chair, Russ Kinner at 602-997-2353 or e-mail: r.kinner@ieee.org

Phoenix Section Present on LinkedIn!

If you are interested in professional networking and shared Section related updates & discussions join the new [IEEE Phoenix Section Group on LinkedIn](#). Signing up only takes minutes and is free. A job board is available as well.