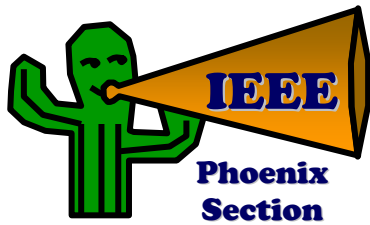


The Valley Megaphone



Newsletter of the Institute of Electrical and Electronics Engineers, Inc., Phoenix Section

October 2010,
Volume XXIV, Number 10

Executive Committee - 2010

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IEEE Phoenix Section on-line updates can be found at:
<http://www.ieee.org/phoenix>
and on LinkedIn at:
<http://www.linkedin.com/groups?gid=2765918>
Please send announcements for the *Valley Megaphone*
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Kinner at r.kinner@ieee.org for inclusion in the Section
Calendar.

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U – News

(for Student Members)

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
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Student Activities Chair

Student Branches

ASU Main, Engineering

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DeVry, Phoenix

Chair: TBD
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DeVry, Computer Society

Chair: TBD
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Embry-Riddle, Prescott

Chair: Tim Lemm
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Advisor: John E. Post
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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.

Start your own MicroMouse and compete for cash prizes!

- The Section has a full tournament sized MicroMouse maze. Funding for your project may be available. For details contact the Section Student Activities Chair, Nick Leonardi at nleonardi@ieee.org.
- View pictures from the MicroMouse contest at the Southwest Area Spring 2010 meeting at <http://picasaweb.google.com/ieeegoldphx/2010IEEEESWASpringMeeting> (photography by David Huerta, GOLD Affinity Group Chair)



IEEE Signal Processing Society 14th DSP & 6th SPE Workshop

**Enchantment Resort, Sedona, Arizona USA
January 4-7, 2011**

Call for Participation

The 2011 IEEE Digital Signal Processing (DSP) Workshop and IEEE Signal Processing Education (SPE) Workshop will be held jointly January 4 to 7, 2011, at the award-winning Enchantment Resort. The Enchantment Resort is located 5 miles from Sedona in Boynton Canyon, two hours north of the Phoenix / Scottsdale metropolitan area and two and a half hours south of the Grand Canyon. The venue is surrounded by the Coconino National Forest and Red Rock Secret Mountain Wilderness. The area is revered by the Apache Native Americans as the birthplace of their tribe and holds ancient ruins of Native American cliff dwellings.

The goals of the workshops are to bring together leading engineers, researchers, and educators in signal processing from around the world to discuss novel signal processing theories, methods, and applications. The DSP/SPE Workshops will feature prominent plenary speakers from the signal processing community as well as technical sessions for presenting contributed papers.

Submission of Papers	August 30, 2010
Notification of Acceptance	October 11, 2010
Authors' Registration	October 25, 2010
Submission of Accepted Camera-Ready Papers	November 8, 2010
Resort Reservation	November 15, 2010
Advance Registration	November 15, 2010

For more information, please click on the following link:

<http://www.dspe2011.org/>



Phoenix Chapter of IEEE Signal Processing Society and Communications Society



Thanks to all of the attendees who made the September 28th technical meeting a success!

An administrative meeting will be held in late October to elect officers.

Please contact Chapter Chair David Frakes (dfrakes@asu.edu) to volunteer or propose a speaker for upcoming meetings.

DON'T FORGET TO REGISTER FOR THE SEDONA DSP WORKSHOP!

<http://enpub.fulton.asu.edu/ivu/Workshops/DSPE2011/>

NATIONAL ENGINEERS WEEK

FUTURE CITY COMPETITION™

www.futurecity.org



FOR IMMEDIATE RELEASE

September 29, 2010

Contact: Michael Book
Gunn Communications
(623) 258-3128

or

Michael Andrews
Andrews & Associates
(602) 368-6013

Future City Competition Registration Deadline October 31

Phoenix, AZ—Registration is nearing a close for the annual Future City Competition. A national education program sponsored by the engineering community, Future City Competition promotes technological literacy and engineering to middle school (6–8th grade) students. The program fosters an interest in science, technology, engineering and math (STEM) through hands-on, real-world applications. The competition is open to all students from public, private and parochial schools.

Each team will plan and design a city of the future, using both computer and scale models. The students must write a narrative describing the city and a research essay explaining their solution to a specific design challenge. At the competition, they are required to make an oral presentation to a team of engineering professionals.

"The Future City Competition is a growth opportunity for the students engaged in the program," says Michael Andrews, Arizona Regional Coordinator for the Future City Competition–Arizona. "Through their quest of a vision for what the future could be, they grow academically through their research, computer use and the communication of their ideas."

This year's Arizona Region Future City Competition will be held on Saturday, January 22, 2011, with the winning team competing in national finals in Washington, DC. Last year, Arizona's winner was a team from Cocopah Middle School in Scottsdale, Arizona.

School registration ends on October 31, 2010. For complete Arizona Region Future City information, please visit www.futurecity-arizona.org.



Venue
Phoenix-Scottsdale's
The Westin Kierland Resort



1 registration. 3 conferences

Embedded Systems Week, a federated conference including CASES, CODES+ISSS and EMSOFT, is a forum for research in all aspects of embedded computing. Registered attendees can freely attend all the three conferences – CASES, CODES+ISSS, & EMSOFT – with only one registration! (Associated workshops require separate registration).

Advance registration for the three conferences, tutorials and workshops is available at www.esweek.org and will close on September 30, 2010. Special prices for hotel reservation are available until September 23.

ESWeek General Chairs:
Samarjit Chakraborty and Donatella Sciuto
ESWeek Organisation Chair: Karamvir S. Chatha
ESWeek Financial Chair: Franco Fummi

Conferences

	International Conference on Compilers, Architecture, and Synthesis for Embedded Systems Program Chairs: Reid Tatge & Vinod Kathail
	International Conference on Hardware - Software Codesign and System Synthesis Program Chairs: Adam Donlin & Tony Givargis
	International Conference on Embedded Software Program Chairs: Luca Carloni & Stavros Tripakis

Embedded Systems Week
October 24-29, 2010
Call for participation

ESWeek will be held in Scottsdale Arizona, from October 24 to 29, 2010. It will feature three major embedded systems conferences and a number of workshops and tutorials.

The keynote speakers for this year will be Vida Ilderem (Vice President, Intel Labs), Tom Henzinger (IST Austria) and John L. Hennessy (Stanford University).

Six half-day tutorials on Sunday, October 24, 2010:

- *Modeling and Analyzing Real-Time Multiprocessor Systems*, Organizer: Marco Bekooji (NXP)
- *Exploring Models of Computation using Ptolemy II*, Organizer: Christopher Brooks (UC Berkeley, USA)
- *Model-based Analysis, Synthesis and Testing of Automotive Hardware/Software Architectures*, Organizer: Samarjit Chakraborty (TU Munich, Germany)
- *Quantitative System Validation in Model-Driven Design*, Organizer: Kim Guldstrand Larsen (Aalborg University, Denmark)
- *MNEMEE - A Framework for Memory Management and Optimization of Static and Dynamic Data in MPSoC Systems*, Organizer: Arindam Mallik (IMEC, Belgium)
- *Challenges for Embedded Multicore Architectures*, Organizer: Luigi Carro (UFRGS Brazil)

The following workshops will be held during the same week and will require a separate registration. A SystemC user group meeting will be held in conjunction with the conference on Monday October 25, after the regular sessions.

WFCD Artist Design Workshop on Foundations of Component Based Design	October 24, 2010
WESS10 Workshop on Embedded Systems Security	October 24, 2010
ESTIMEDIA 8th IEEE Workshop on Embedded Systems for Real-Time Multimedia	28-29 October 2010
WCPS First Workshop on Diversity in Embedded Computing and Cyber-Physical Systems	28 October 2010
IWSSPS The Fifth International Workshop on Software Support for Portable Storage	28 October 2010
WESE Embedded Systems Education	28 October 2010
CASA10 Workshop on Compiler Assisted SoC Assembly	28 October 2010
WSS'10: Workshop on Software Synthesis	29 October 2010

A Xilinx academic workshop will also be co-hosted on Thursday and Friday October 28 and 29.



36th Annual IEEE Industrial Electronics Conference (IECON 2010)



7-10 November 2010, Glendale, 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 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Phoenix Section

*Components, Packaging and Manufacturing Technology Society Chapter
& Waves and Devices Chapter*



**Friday, November 19, 2010
7:00 AM - 5:00 PM
ASU Memorial Union (Arizona Room)
Arizona State University, Tempe, Arizona 85287**

Portions of the above image courtesy of Orbital Sciences Corporation and Ocean Services

present an all-day workshop on

***Emerging Device and Packaging Technologies:
Sense, Compute, and Communicate***

ABSTRACT

The combination of technologies required to address societal grand challenges in areas such as energy, health, and security necessitates the creation of systems that have far-reaching abilities to sense, compute, and communicate. Such systems vary in complexity, from basic home networks to much more sophisticated remote health, security monitoring, and satellite systems, and can involve fields as diverse as biochemical sensing, ad-hoc networks, low-power/high-performance computing, and planetary surface science.

This year's one-day workshop will focus on the 'sense, compute, and communicate' topic and will pull together experts from industry, academia, research labs, and consortia to share their vision of technical challenges and opportunities in these areas. A poster session will be featured on the broader workshop topic of emerging device and packaging technologies and select vendors will exhibit products and services related to all aspects of the supply chain for design and manufacturing.

COMMITTEE MEMBERS

Workshop Chair
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Chair: Mel Miller
Co-chair: Dr. Henning Braunsch

Vendor Committee
Chair: Vivek Gupta
Co-chair: Dr. Rashanda Henderson

Electronic Media Committee
Chair: Dr. Junseok Chae

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Co-chair: Karla Reyes

Arrangements Committee
Chair: Dr. Samir Pandey
Co-chair: Dr. Hongyu Yu

Publicity Committee
Chair: Gurinder Tuli
Co-chair: Dr. Rudy Elmrck

For additional information and vendor registration

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

Online registration

<https://www.ece.asu.edu/~phoenix2010/>

ALL DAY VENDOR DISPLAYS



AGENDA

Morning Session

7:00AM Registration and Continental Breakfast

8:00AM Workshop Welcome
Dr. Vasu Aturi, IEEE Senior Member, Chairman and CEO, Rensselaer Technologies LLC
Steve Rockwell, IEEE Senior Member, Senior Lead Systems Engineer, Advanced Information Systems, General Dynamics

**8:20AM Mars Odyssey Thermal Emission Imaging System:
Exploring the Red Planet in the Infrared**
Greg Mehall, Instrument and Mission Manager, School of Earth and Space Exploration, Arizona State University

8:55AM Open Architectures for Space Software-Defined Radios
Dr. John Liebetreu, Distinguished Member of the Technical Staff, Advanced Information Systems, General Dynamics
Carl Smith, Senior Lead Software Engineer, Advanced Information Systems, General Dynamics

9:30AM Free-Space Intersatellite Communications Systems
Dr. Davis Hartman, Member of the Technical Staff, Advanced Information Systems, General Dynamics

Break and Vendor Session

10:05AM Terahertz Quantum Cascade Lasers at the Crossroad
Dr. Nigam Samal, Director, Photonics R&D, Trion Technology

10:35AM Micromachined Sensors: From Simple Sensors to an Integrated Smart Sensor World
Dr. Mark DaSilva, Product Development Team Leader, Micromachined Products Division, Analog Devices, Inc.

11:10AM Lunch and Poster/Vendor Session

Afternoon Session

1:15PM Keynote: Participatory Sensing with Mobile Devices

Dr. Jeff Burke, Director, Technology Research Initiatives, School of Theater, Film and Television, UCLA

2:00PM Microsystem Technology for Guidance in Life Sciences – Challenges and Opportunities

Prof. Yitshak Zohar, Professor, Department of Aerospace and Mechanical Engineering, and Department of Biomedical Engineering, University of Arizona

Break and Vendor Session

2:36PM Low Power Medical Transceivers

Dr. Seth Wik, Assistant Professor Research, School of Electrical, Computer and Energy Engineering, Arizona State University

3:05PM Scaling Microprocessor Interconnects for the Next Decade and Beyond

James Jausi, Senior Research Scientist, Intel Corporation

3:40PM Fine Pitch Flip Chip and 3D Packaging Solutions for High Density

Smartphone Applications
Lee Smith, VP Marketing & Business Development, Amkor Technology, Inc.



INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS

COMPONENTS, PACKAGING AND
MANUFACTURING TECHNOLOGY SOCIETY
ECTC Electronic Components & RF Program Committee
CPMT RF & Wireless Technical Committee



61st ECTC May 31 – June 3, 2011
Walt Disney World Swan & Dolphin Resort
Lake Buena Vista, Florida USA

The ECTC Electronic Components & RF Program Committee and the CPMT RF & Wireless Technical Committee encourage you to submit an abstract to ECTC 2011 in the areas of passive components & networks, RF & Microwave components & 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, Electronic Components, RF & Microwave, and MEMS related papers are solicited for focus sessions during this prestigious conference.

RF, Microwave, Terahertz Components & Modules

Integrated antennas, filters, baluns, tunable devices & switches; high power & high efficiency RF/Microwave power amplifiers – design, technology & high frequency characterization; module integration in semiconductor, organic, & glass substrates – System in Package, System on Chip, Package on Package, & 3D integration; shielding, isolation, nanoscale structures for enhancing performance

RFID

Design & development of miniature interconnects for HF, UHF & WiFi RFIDs; assembly & matching with antennas & passives; universal RFID modules; RFID enabled wireless sensor nodes; power scavengers & nanomaterials for autonomous RFID's; flexible/conformal materials & printing technologies; reliability & environmental issues; metal-mounted RFID assembly & integration; multiband RFID's; integration of RFID's & batteries; RFID reader packaging; "rugged" RFID packages for space & extreme environments

RF MEMS & Sensors

RFID, RF MEMS, MEMS, MEMS packaging; MEMS/NEMS-enabled sensors, nanotechnology-based sensors, MEMS-based power scavenging; low-cost "Smart House" & "Smart Skin" sensor integration & packaging

Medical Devices for Monitoring, Imaging, WPAN/WBAN & Biomedical Applications

Design, materials, processing, manufacture, modeling & characterization; UWB & THz imaging & monitoring devices; technology for integrated wireless implantable/wearable electronics, including energy harvesting, ultra-low power electronics & batteries; 3D packages for ultra-miniaturization; biocompatibility, BioMEMS & microfluidic packaging

Flexible & Printed Electronics

Printing electronics technologies up to mmW frequencies; 3D printed RF electronics modules; low cost substrates; flexible RF modules, interconnects & adhesives; integration with wearable/implantable wireless personal networks, smart fabrics; inkjet- & gravure-printed RF components; environmentally-friendly RF substrates, antennas & passives

Discrete and Embedded Electronic Components, Materials, Processing, Reliability, & Manufacturing

Design, materials, processes, & reliability considerations for discrete passive components: resistors, capacitors, inductors, & passive networks, including through silicon vias (TSV), wafer level RDL, nano materials & processes

SUBMISSIONS:

Please submit abstracts using the ECTC web site: www.ectc.net by October 15, 2010. Abstracts must comply with the guidelines outlined at the website. To have your paper considered for inclusion in the "Electronic Components & RF" focused sessions

YOU MUST SELECT

"Electronic Components & RF" committee as your PRIMARY subcommittee preference when you submit your abstract at the ECTC web site. Again, to have your paper considered, please do the following:

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

STEP #2: Email abstract copy and author's email & contact information to:
Craig Gaw at c.gaw@ieee.org & Rockwell Hsu at r.hsu@wilinx.com

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Rockwell Hsu, Chair - ECTC Electronic Components & RF TC
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INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS

WAVES AND DEVICES PHOENIX CHAPTER

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

2010 Calendar



Date	Time	Location	Topic/Title	Speaker	Affiliation	IEEE Society
27-Jan	0-Jan	Agilent, Chandler	Digital Pre-Distortion for high linearity RF Power Amplifiers	Dr. John Wood	Freescale	ED & MIT
3-Feb Jointly Sponsored w/ ASU Center of Nanophotonics	0-Jan	ASU, GWC487	Si Photonics: Towards Lasers on Silicon	Dr. Sangam Chatterjee	Philipps-Universität Marburg Marburg, Germany	Photonics Center of Nanophotonics
Thursday Feb. 4	0-Jan	Agilent, Chandler	Both IFA Conversions – What You Need To Know	Mr. Greg Wojak	LPL Financial	General Interest
Friday Feb. 19	0-Jan	ASU Brickyard	Non-Foster Reactances for Electrically Small Antennas, High-Impedance Surfaces, and Engineered Materials	Dr. Jim Aberle	ASU	AP & MIT
Wed March 3 Jointly Sponsored w/ ASU Center of Nanophotonics	0-Jan	ASU, GWC487	Microscopic modelling and experimental results on high-power VECSELS	Prof. Dr. Stephan W. Koch	Philipps-Universität Marburg Marburg, Germany	Photonics and ASU Center of Nanophotonics
Wed. March 17		Agilent, Chandler	High Speed Inter-Satellite Laser Communications Systems Design	Dr. Davis Hartman	General Dynamics	Photonics
Wed. March 26 Jointly Sponsored w/ ASU Center of Nanophotonics		ASU GWC480	Vertical External-Cavity Surface-Emitting Semiconductor Lasers for Compact High-Power Visible-IR Sources	Dr. Mahmoud Fallahi	College of Optical Sciences University of Arizona	Photonics
Friday, Apr. 9		ASU GWC487	State-of-the-Art Time-Domain Measurement and Modeling Techniques for Nonlinear Components & Systems	Dr. Christopher Silva	The Aerospace Corp.	MIT
Wed., April 14 Jointly Sponsored w/ ASU Center of Nanophotonics		ASU GWC487	Surface and Strain Driven Morphology in the MBE Growth of Quantum Dots	Dr. Kurt G. Eyink	AHR/HAPS Wright Patterson AFB, Ohio	Photonics
Friday, April 16 - Postponed	4:00PM	ASU, GWC487	Coupled EM Device/Circuit Modeling Approach for RF/mmwave ICs	Zheng Huang	ASU/Pedasoft	MIT
Thursday, April 29		ASU Brickyard 8th Floor	Communications-Electronics and Enabling Mixed Signal Technologies	Dr. Barry Perlman	IEEE / Army	General
Thursday May 13		ASU GWC487	Are You Smarter Than a DARPA P/M?	Dr. Robert Reuss	Consultant	General
Thursday, June 24		Agilent, Chandler	A History of Space Communications in the Valley of the Sun	Mr. Robert Anderson	General Dynamics	MIT, AP
Thursday, Aug. 5	0-Jan	Agilent, Chandler	Rough-Metal-Surface Propagation Loss Modeling	Dr. Fleming Braunisch	Intel	MIT
Thursday, Sep. 16	6:00 PM	Agilent, Chandler	From mmWave Measurement to Design: Measurement, De-embedding and Design	Dr. Marcel Tütt	Freescale	ED & MIT
Thursday, Oct. 14	6:00 PM	Agilent, Chandler	Radio Communications Systems on Next Generation Manned Space Vehicle	Mr. William Boger	General Dynamics	MIT, AP
Friday, Nov. 12	3:00 PM	ASU	Wireless Networks for Medical Implant Devices	Dr. Sayle Krael	ASU	ED, MIT, & AP



<http://www.radiowirelessweek.org/>





Power & Energy Society Announcements



- **Golf Tournament**

Thank you to all the participants in our 53rd Annual Golf Tournament for contributing to a fun and successful event! The tournament is our biggest fundraiser and allows our Chapter to subsidize the monthly technical luncheons (remember, students eat free!) and support multiple technical and educational efforts.

- **GOLD Chair Needed**

The Phoenix PES Chapter is looking for a someone for our GOLD (Graduate of the Last Decade) Chair position. This volunteer would reach out to the recent grads (within the last ten years) at regional companies and facilitate their participation in the chapter, whether it's our regular technical luncheons or our golf tournament or conferences. The PES Gold Chair also typically coordinates with the college IEEE Chapters to facilitate student participation. If you are interested in helping connect recent grads and students with the Power Engineering community, please email Phoenix Chapter Chair Bruce Ladewig at bruceladewig@ieee.org.

- **October 2010 Technical Luncheon**

Date : October 21, 2010
Location : SRP PERA Club (1 E. Continental Drive, Tempe)
Speaker : James Charters (North Branch Resources)
Topic : The San Luis Project

Mr. Charters will be discussing the San Luis Project, which includes new generation in Mexico and also new transmission lines that come into the U.S

Please register for this technical luncheon at the Phoenix PES Chapter's Website: <http://ewh.ieee.org/soc/pes/phoenix/>



2011 IEEE PES Power Systems Conference & Exhibition

<http://www.pscexpo.com/>



2011 IEEE PES

Power Systems Conference & Exposition

Focused on Power Systems Operations, Planning, Policy, Markets, Analysis, and Control

THE NEXT GENERATION GRID...PUTTING IT ALL TOGETHER

**March 20-23, 2011
Phoenix, Arizona, USA**



A comprehensive program that offers attendees in-depth information on the following topics:

- Smart sensing, communication and control in energy systems
- Smart grid for distributed energy resources
- Smart grid for cyber and physical security systems
- Emerging software needs for the restructured grid
- System-wide events and analysis methods
- Intelligent monitoring and outage management
- Integrating wind and solar energy into the grid
- Substation and distribution automation
- Internet tools for better understanding of power systems
- Dynamic performance and control of power systems
- Market interactions during system-wide events
- Asset management

and much more

The PSCE Audience-Who Should Attend: A program that has been designed for an international group of practicing power systems engineers, operators, planners, policy makers, economists, and others with interest in advancing state-of-the-art power systems. The conference will include a plenary session as well as tutorials on the most up-to-date topics on power systems. Timely and important paper, panel and poster sessions will be presented during the three-day conference.

The Exposition Offers Attendees a Look at State-of-the-Art Systems Technology: Attendees will have the opportunity to interact with the manufacturers and service providers who can provide the information that is essential to the multi-faceted field power and energy. Software and hardware systems and consulting services will be on display from leading companies in the field.

The paper submissions will open in August 2010.



Watch for program updates at: www.pscexpo.com



Phoenix Section Life Member Affinity Group

2010 October Technical Meeting

Topic: An Update on the Solar Photovoltaic Industry Worldwide and AZ

Summary: Topic includes recent history and future trends, comparisons to other alternatives and what is a level playing field. Show PV has essentially reached parity with electric power costs in much of the Southwest. To kick off the Q&A, presenter will comment on how the utilities have almost destroyed the AZ PV industry in the last few months. Attendees are encouraged to participate in the Q&A with varying views.

When: Tuesday, October 5, 2010, 11:00am – 1:00pm

Where: SRP's **PERA Club** Bighorn Room,
1 East Continental Drive, Tempe, AZ
West of 68th St., ½ mile south of McDowell Road
Click this map link to SRP PERA Club:
<http://insidesrp/pera/facilities/PERAstreetmap.pdf>

RSVP: Please respond to Section Secretary, Ronald Sprague by email:
rlsprague@q.com

Speaker: Lane Garrett P.E. C.E.M president of ETA engineering

Biography: Mr. Garrett has 30 years experience as an entrepreneur in energy conservation and renewable energy. He has introduced more than 20 successful new products to these markets.

- Has over 40 years of electrical engineering and business experience.
- Is currently on 10 boards for renewable energy, having founded, chaired, been president, or is currently president of 7.
- Has taught/been department head at 3 colleges (including 8 years MBA), and given numerous lectures, seminars, and authored many articles.

Mr. Garrett is one of the first in Arizona involved in the commercial solar electricity industry.

About IEEE Phoenix Section Life Member Affinity Group:

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

An IEEE member automatically becomes an IEEE "Life Member" status when at least 65 years of age and the 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

Activities

Annual technical meetings scheduled in February, May, October, and December.

Technical meeting topics and suggested speakers are encouraged. Contact any Officer.

Future Technical Meetings

- December 7, 2010 SRP PERA CLUB

Elections

The annual election of officers will be held at this December 7 meeting. Please send your nominations or questions to any officer including our secretary Barry Cummings at Barry.Cummings@srpnet.com . Self nominations are perfectly acceptable.

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.	rlsprague@cox.net
Past Chair	Professor George Karady	karady@asu.edu



Phoenix Chapter of IEEE Computer Society



October, 2010

- Jerry Crow has assumed the post of Chair with the departure of Jon Candelaria who has moved out of state. Crow will serve as Chair until the end of the year; the newly elected slate of officers will take over on January 1, 2011.
- Chapter annual elections will be held at the November meeting on November 3rd. If you are interested in learning more about any of our chapter officer or volunteer positions please contact one of the officers listed below.

Future Events

Please note that the dates have changed for the cryptography presentations. Meeting dates, time and place are the same. All meetings start at 6:00 pm with networking and light refreshments in the meeting room followed by the presentation at 7:00 pm. DeVry University is located at 2149 W Dunlap Avenue, Phoenix.

- October 6, 2010 – Chapter Meeting @ DeVry University, Phoenix Campus; Speaker: Galen Updike, **"Arizona Broadband Council – Bringing Broadband to Rural Arizona"**
- November 3, 2010 – Chapter Meeting @ DeVry University, Phoenix Campus; Speaker: Jerry Crow, **"Cryptography, Part 1"**; Chapter Officer Elections for 2011
- December 1, 2010 – Chapter Meeting @ DeVry University, Phoenix Campus; Speaker: Jerry Crow, **"Cryptography, Part 2"**
- Spring 2011 – ½-day workshop; topic: TBD (programming for cloud computing?)

Visit the CS Chapter website for the latest information:

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

If you would like to suggest a topic and/or speaker for any of our 2011 meetings, please contact one of the chapter officers:

Jerry Crow (jerry.crow@computer.org)

Audrey Skidmore (askidmore@computer.org)

Diane Smith (diane@web-oasis.com)



IEEE Phoenix Area Consultants 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.



Become an IEEE Senior Member

If you have 10 years of experience in electrical engineering (including any time in graduate school) you may qualify for elevation to IEEE Senior Member!

Apply on-line at the following link:

http://www.ieee.org/membership_services/membership/senior/senior_application.html

Need help with reference letters or a nomination? Contact any Section officer (see page 1 for contact information).



Faculty Opening at Embry-Riddle

Computer Engineering faculty opening at Embry-Riddle, Prescott. For more information, search available positions at Prescott at www.erau.edu/jobs or contact Dr. Ed Post at postj@erau.edu.



IEEE Phoenix Section Volunteer Positions

The Section Executive Committee is currently looking for volunteers for the positions of Membership Chair and Conferences Chair! In 2011 the position of Publicity Chair will also become available. If interested please contact Section Chair Henning Braunsch (braunsch@ieee.org) for more information.



Phoenix Section 2011 Executive Committee Officer Candidates

Dear Section Members:

The membership is invited to consider the following candidates for elected Section officer positions in 2011:

Chair : Jim Hudson

Vice Chair: Ralph Hogan

Secretary : Charles Weitzel

Treasurer : Russ Kinner

Voting will be conducted by secret ballot during the November 2nd Section Executive Committee meeting. Please see page 21 for time and location details.

Please feel free to contact me directly with any questions.

Regards,

Bruce Ladewig – Chair, Nominating Committee
bruceladewig@ieee.org



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)

The ***IEEE Power & Energy Society*** will sponsor the conference entitled **2011 Power Systems Conference & Exhibition (PSCE)**.

This conference will be held in Phoenix, AZ on March 20-23, 2011.

For further information please click on the following link:

<http://www.psceexpo.com/>

Phoenix Section Executive Committee Meeting

Venue: Phoenix Airport Hilton
2435 S 47th St, Phoenix, AZ, 85034 ([map](#))
Tel.: 480-804-6017

More Info: Meetings are held on the first Tuesday of the month, 6–8 PM.
- Except for July & August

All interested IEEE members are welcome to attend.

Contact: Dr. Henning Braunisch, Phoenix Section Chair
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 LinkedIn Group

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.