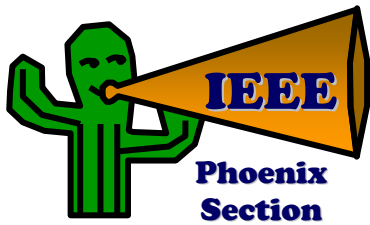


The Valley Megaphone

Newsletter of the
**Institute of Electrical and
Electronics Engineers, Inc.,
Phoenix Section**
July 2010,
Volume XXIV, Number 7



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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* to Satish Ayer at satish.ayer@ieee.org and to Russ 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.

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Student Activities Chair

Student Branches

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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/2010IEEESWASpringMeeting> (photography by David Huerta,



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:

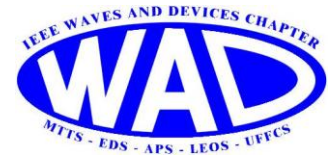
Contributed papers: 26 April 2010

Tutorial proposals: 3 May 2010

Special Session proposals: 1 March 2010

Notification of acceptance: 1 July 2010

Final submissions due: 6 September 2010

Waves and Devices**Phoenix Chapter**<http://ewh.ieee.org/r6/phoenix/wad/>**2010 Calendar**

<u>Date</u>	<u>Time</u>	<u>Location</u>	<u>Topic / Title</u>	<u>Speaker</u>	<u>Affiliation</u>	<u>IEEE Society</u>
Wed. March 17	0-Jan	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	0-Jan	ASU GWC-490	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	0-Jan	ASU GWC-487	State-of-the-Art Time-Domain Measurement and Modeling Techniques for Non-linear Components & Systems	Dr. Christopher Silva	The Aerospace Corp.	MTT
Wed., April 14 Jointly Sponsored w/ ASU Center of Nanophotonics	0-Jan	ASU GWC-487	Surface and Strain Driven Morphology in the MBE Growth of Quantum Dots	Dr. Kurt G. Eyink	AFRL/RXPS Wright Patterson AFB, Ohio	Photonics
Friday, April 16 - Postponed	4:00PM	ASU, GWC-487	Coupled EM/Device/Circuit Modeling Approach for RF/mm-wave IC's	Zheng Huang	ASU / Pedasoft	MTT
Thursday, April 29	0-Jan	ASU Brickyard 6th Floor	Communications-Electronics and Enabling Mixed Signal Technologies	Dr. Barry Perlman	IEEE / Army	General
Thursday May 13	0-Jan	ASU GWC-487	Are You Smarter Than a DARPA PM?	Dr. Robert Reuss	Consultant	General
Thursday, June 24	0-Jan	Agilent, Chandler	A History of Space Communications in the Valley of the Sun	Mr. Robert Anderson	General Dynamics	MTT, AP
Thursday, Aug. 5	6:00 PM	Agilent, Chandler	Rough-Metal-Surface Propagation Loss Modeling	Dr. Henning Braunsch	Intel	MTT
Thursday, Sep. 16	6:00 PM	Agilent, Chandler	From mm-Wave Measurement to Design: Measurement, De-embedding and Design	Dr. Marcel Tutt	Freescale	ED & MTT
Thursday, Oct. 14	6:00 PM	Agilent, Chandler	Radio Communications Systems on Next Generation Manned Space Vehicle	Mr. William Boger	General Dynamics	MTT, AP
Friday, Nov. 12	3:00 PM	ASU	Wireless Networks for Medical Implant Devices	Dr. Sayfe Kiaei	ASU	ED, MTT, & AP

IEEE Phoenix Valley Megaphone July 2010
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
WAVES AND DEVICES - Phoenix Chapter



Meeting Free & Open to Non-IEEE Members

6:00 PM, Thursday, August 5th, 2010

Agilent Offices, 4330 West Chandler Blvd, Chandler



Rough-Metal-Surface Propagation Loss Modeling

Dr. Henning Braunisch

Intel Corporation

Abstract

We discuss prediction of the surface-roughness augmented propagation loss encountered on interconnect structures in microwave components such as high-speed packages and boards, based on a small-perturbation method (SPM). In this methodology, rough surfaces are characterized by their power spectral density (PSD) that can be obtained from surface height profiles by the application of Fourier methods and averaging. Piecewise uniformly rough interconnect structures can be treated by localization of the SPM and assigning corresponding effective conductivities in an electromagnetic field solver. Quantitative surface imaging techniques for acquiring surface height maps include optical interferometry, scanning probe microscopy and scanning electron microscopy. Reactive ion etching is used to expose copper surfaces on post-lamination samples with organic dielectrics. For demonstration of the SPM through correlation with measurements, de-embedding of the transmission line loss is performed using a two-line method. Atomic force microscopy is employed to image the rough ground plane of the microstrip interconnect and obtain its PSD. Good agreement between measured and predicted loss is shown up to 20 GHz.

Biography



Henning Braunisch received M.S. degrees in electrical engineering from Michigan State University, East Lansing, in 1995, and the University Of Hanover, Germany, in 1996, and the Ph.D. degree in electrical engineering and computer science from the Massachusetts Institute of Technology (MIT), Cambridge, in 2001. He has since been with Intel Corporation, Components Research, Chandler, Arizona. His research interests and expertise are in advanced microelectronic packaging, applied electromagnetics, physics-based signal processing, and forward and inverse modeling. Dr. Braunisch is a Senior Member of the IEEE and a Member of the Institute of Physics (MInstP), London, UK. Dr. Braunisch holds 22 US patents and has co-authored 70 technical papers that were published in peer-reviewed journals or presented at international conferences. He was the lead author of the ECTC 2006 Best Poster Paper and the ECTC 2007 Best Paper and was a recipient of the 2008 SRC GRC Mahboob Khan Outstanding Mentor Award. Dr. Braunisch is currently Chair of the IEEE Phoenix Section.

Date: Thursday, August 5th, 2010

Time: 6:00 PM *Presentation*, Pizza will be served following the Seminar

Location: [Agilent Office, Suite 367, 4330 West Chandler Blvd., Chandler AZ 85226](#)

(In Stellar Business Center on North side of Chandler Blvd west of McClintock Rd.)

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

Phoenix Section IEEE Website Calendar:

http://meetings.vtools.ieee.org/meeting_view/list_meeting/2329

Waves and Devices Chapter Website: <http://ewh.ieee.org/r6/phoenix/wad/>



Radio Wireless Week

16 - 20 JANUARY 2011, PHOENIX, AZ, USA



IEEE



IEEE COMMUNICATIONS SOCIETY

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

RWS Call For Papers

General Chair

George E. Ponchak,
NASA Glenn Research Center

Technical Program Co-Chairs
John T. Barr, *MITT*

Hsiao-Hwa Chen, *Natl. Cheng Kung Univ.*

Finance Co-Chair

Jan-Erik Mueller, *Infinion*

Finance Co-Chair, Webmaster

Takao Inoue, *National Instruments*

Topical Conferences

RF Power Amplifiers

Marc Franco, *RFMD*

Allen Katz, *The College of NJ*

Biomedical Wireless

Techn. Networks & Sensing

Rizwan Bashirullah, *Univ. of Florida*

Mohamed Mahfouz, *Univ. of Tennessee*

Sensors and Sensor Networks

Dietmar Kissinger,

Univ. of Erlangen-Nuremberg

Massood Zandi Atashbar,

Western Michigan Univ.

Workshops Co-Chairs

Luclano Boglione,

Univ. of Massachusetts, Lowell

Liuqing Yang, *Univ. of Florida*

Plenary Session Chair

Silvio Barbin, *Univ. De Sao Paulo*

Panel Session Co-Chairs

John Papapolymerou,

Georgia Inst. of Tech.

Faranak Nekoojar,

Lawrence Livermore Nat. Lab.

Exhibits and Sponsorships

Co-Chairs

Mike Majerous, *FreeScale*

Charlie Jackson, *Northrop Grumman*

Special Consultant and Advisor

George Heiter,

Heter Microwave Consulting

Student Paper Competition

Co-Chairs

Rashaunda Henderson,

Univ. of Texas at Dallas

Talal Al-Attar, *Santa Clara Univ.*

IMSTPC Chair Coordination

Jeff Pond, *Naval Research Laboratory*

Paper Submission Management

Jeremy Muldavin, *MIT Lincoln Laboratory*

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Salam Alkousm, *The Univ. of Texas at Austin*

Omar El Ayach, *The Univ. of Texas at Austin*

Microwave Magazine Special Issue

Editor, Debabani Choudhury, *IEEE*

Conference Management

Jennifer Mora, *Ry Events LLC*

The 2011 IEEE Radio and Wireless Symposium (RWS2011) will be held the week of January 16, 2011 in Phoenix, AZ as part of the Radio Wireless Week (RWW2011). This year, RWS2011 and SiRF2011 will hold more joint sessions to highlight the indispensable use of silicon in modern wireless systems. In addition, RWW2011 will include topical conferences on RF Power Amplifiers, Biomedical Wireless Technologies, Networks, and Sensing Systems, and Wireless Sensors and Sensor Networks. Each of these highlighted topics will be organized separately, with their own call for papers found at <http://www.radiowirelessweek.org/>. In addition to these topics, RWS invites papers on all areas of radio and wireless systems, including but not limited to:

1. Passive Antennas

- Dipoles, Integrated and Patch Antennas

2. Propagation Channel Modeling and Utilization

- Propagation & Channel Characterization & Modeling

- Fading Countermeasures

- Spectrum Sensing Technologies

3. Transceivers and Front-end Technologies, SOC and SiP

- Receiver and Transceiver Components

- Active Sub-systems

- Low-Power/Low Noise RF/Analog IC and System-On-Chip Solutions

4. MIMO, Signal Processing, and Smart Antennas

- Electrically Small and Smart Antennas

- MIMO and Space-Time Processing

- Relaying Technology

5. High-speed and Broadband Wireless Technologies

- 802.16/LMDS Broadband Fixed Wireless

- Techniques and Last-Mile Access Techniques

- Powerline Communication Technologies

- 3G/4G Wireless Communication Services

- Ultra-Wideband (UWB) Systems

6. Software Defined Radios and Cognitive Radios

7. Wireless System Architecture and Modeling

- Ad Hoc Network Techniques for Anytime,

- Anywhere Internetworking

- Wireless LAN Systems

- Wireless Mesh and Broadband Local/Personal

- Area Networks

- Wireless Security and RFID Technologies

8. Emerging Wireless Technologies and Applications

- Heterogeneous Mobile Networks and Mobile

- Network Convergence

- Multicasting and Broadcasting

- Satellite Network Systems

- Ultra-High Rate Communications Links

9. Digital Signal Processing as Applied to Wireless

- Digital/Analog Adaptive/Collaborative Signal

- Processing

- Methods for Maintaining Signal Integrity

10. Passive Components & Packaging

- Discrete, Embedded and Distributed Passive

- components

- Filters, Couplers and Signal Separation Devices

- Discrete and Highly Integrated Packaging

Papers describing technologies that enable Radio and Wireless Systems are welcome including:

- System Level Design, Modeling, and Simulation

- Multilayer integration of RF, energy and sensing

- components

- Signal Generation and Modulation Circuits

- Microwave Energy Transmission



Paper submission instructions will be found at <http://www.radiowirelessweek.org/>. Submissions should be properly formatted with all figures included within a maximum of four pages. Only electronic submissions in pdf format will be accepted for review. Authors should indicate their preference for oral or poster presentation. All submissions must be received by July 30, 2010. All accepted papers will be published in a digest and be included in IEEE Xplore. Submissions will be evaluated based on novelty, significance of the work, technical content, interest to the audience, and presentation.



2011 IEEE Topical Conference on Wireless Sensors and Sensor Networks

RF and millimeter-wave sensors and wireless sensor networks are critical system components for manufacturing, monitoring, safety as well as positioning and tracking applications. WISNet2011 will be a two day topical conference focused in the latest developments in this area. Papers featuring innovative work are solicited in (but not limited to) the following areas of wireless sensors and sensor systems:

- » Sensors for communications, radars, positioning and imaging applications
- » Integrated RF and mm-Wave Sensor Frontends Sensors or building blocks
- » Indoor & Outdoor Local Positioning Technologies
- » High-Precision Ultra-Wideband Techniques
- » Wireless Sensors Networks and Smart Sensor Systems
- » RFID Technologies and Applications
- » Surface Acoustic Wave Technologies and Applications
- » RF Tracking and Positioning Devices



2011 IEEE Topical Conference on Biomedical Wireless Technologies, Networks & Sensing Systems

The wireless revolution has begun to infiltrate the medical community with patient health monitoring, telesurgery, mobile wireless biosensor systems, and wireless tracking of patients and assets becoming a reality. The rapid evolution of wireless technologies coupled with powerful advances in adjacent fields such as biosensor design, low power battery operated systems, and diagnosing and reporting for intelligent information management has opened up a plethora of new applications for wireless systems in medicine. BioWireless2011 will be a two day topical conference focused in the latest developments in this area. Papers featuring innovative work are solicited in (but not limited to) the following areas of Biomedical Wireless Technologies, Networks, & Sensing Systems:

- » Miniaturization and integration of wireless technologies and micro sensors for medical applications
- » Personal area networks and body area sensor networks in hospital environments
- » High data rate wireless protocols & processing for biosignals
- » Wireless positioning technologies in medicine
- » Microwave systems for imaging, diagnostics & therapeutics
- » New advances in understanding microwave interaction with biological tissues
- » Biomedical devices for remote monitoring
- » Microwave systems for biological applications
- » Coexistence and modeling of wireless technologies in clinical environments
- » Health monitoring, energy scavenging & biosensor E-textiles



2011 IEEE Topical Conference on RF/microwave Power Amplifiers

Power amplifiers are often the most critical component of RF/microwave communications systems and consequently the focus of intense research to achieve increased linearity and power efficiency. New forms of power amplification are being developed to meet the needs of the wireless communication equipment industry and the world's demand for greater information transmission. PAWR2011 will be a two day topical conference on RF/microwave Power Amplifiers. Papers featuring innovative work are solicited in (but not limited to) the following areas of RF/microwave power amplifier technology:

- » High Power/Wideband Active Devices
- » Modeling and Characterization
- » Advanced Circuit Design and Topologies
- » Linearization and Efficiency Enhancement Techniques
- » Applications and Novel Architectures
- » Packaging and Integration Technology

Papers submission instructions will be available through respective topical conference websites found at <http://www.radiowirelessweek.org/>. Submissions should be properly formatted with all figures included within a maximum of four pages. Only electronic submissions in pdf format will be accepted for review. Authors should indicate their preference for oral or poster presentation. All submissions must be received by July 30, 2010. All accepted papers will be published in a digest and be included in IEEE Xplore.



Call for Papers



IEEE Topical Symposium on **Power Amplifiers for Wireless Communications** September 13 & 14, 2010 Tempe, AZ

Power amplifiers are a vital enabling technology for wireless communications. They are evolving rapidly to meet the demands for greater efficiency and linearity when handling complex modulated signals. This meeting provides a forum for discussing innovative work in the area of power amplifiers, covering handset and base-station technologies, voice, video and data, from HF through millimetre-wave.

Technical papers are solicited in the following topics:

- Design techniques for power amplifiers
- Device & IC technology for power amplifiers
- System requirements and transmitter architectures
- Linearization techniques
- Measurement and characterization of power amplifier devices and circuits
- Broadband power amplifiers and matching techniques
- Device and system-level modeling
- ...and other areas of development and application of power amplifiers

Invited papers highlighting state-of-the-art developments from around the world will also be presented.

The symposium will be held at the University Club, Arizona State University, in Tempe.

Instructions for Authors:

Prospective authors are requested to submit by email a 2 page abstract in PDF format (one page text, not to exceed 500 words, and one page figures) clearly describing the novel features of their work, to the Technical Program Chair, John Wood, at john.wood@freescale.com
Abstracts of accepted papers will be collected in a digest and distributed at the conference.

Deadline:

The deadline for abstract submissions is **July 12, 2010**.
Authors will be notified of the acceptance decision by **August 3, 2010**.

For further information, please contact P.A Symposium 2010 General Chair:

Paul Draxler pdraxler@qualcomm.com
or visit the website: <http://pasymposium.ucsd.edu>

Sponsored by





Power & Energy Society Announcements



- **We have entered into the summer period. There will be no more technical luncheons until September 16th when last year's PES President Wanda Reder will present on interconnecting wind farms. Please note that we will no longer be holding luncheons at APS. We will provide the new venue information on the PES website once the details have been settled.**
- **The Phoenix PES chapter is forming a Local Organizing Committee for the March 2011 Power Systems Conference & Exposition. The LoC will assist the PSCE steering committee with organizing utility participation, conducting technical tours, and running the Companions program. Volunteers are needed both for the LoC and during the event. Volunteers will be compensated with Conference attendance.**

Please contact bruceladewig@ieee.org for details and to volunteer.

Conference details can be found at <http://www.psceexpo.com/>



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



IEEE TISP - Engineers In The Classroom

Support to Kid Zone

Kid Zone is a Tempe City program to occupy K–8 children all day during June and July and after school during the school year; it is aimed at the children of parents who both work. The group met with Patty Russell, Tempe Community Education Coordinator for Kid Zone, and her prime helper, Michaela Doherty, a civil engineering student at ASU who has been working with Kid Zone since she was 16.

Michaela has started a new program: "Everyone Engineers With Miss Michael" in the Summer School and After School Programs and is keen to get help and support from TISP/EIC. Kid Zone's objective is to occupy the K – 8 children with entertaining and instructive projects and activities with minimal lecturing, whereas the TISP/EIC objective is to replace a school science lesson with a lecture and project.

It has been agreed the group will help Kid Zone adopt our projects and they are free to modify, adapt and cut our presentation packages to their needs without any constraint from TISP/EIC. Initially we will loan them the capital equipment for one session so they can see how the lesson works, and after that we will help them procure and build their own copies at their expense.

Kid Zone will take care of procuring the consumable materials at their expense. Thus, rather than provide teams like we do for the schools, we will have our guys train their ASU and MCC student helpers in how to do our projects during the initial session and then let them get on with it.

Support Plan For 2010/2011 School Year

The TISP/EIC group met to discuss the draft support plan for the new school year; it is already larger than the past year so several important changes to the way we operate were agreed in order to conserve our limited volunteer resource and not overload or burnout any member:

- Limit the lessons to 3 days duration, Tuesday thru' Thursday, instead of four days.
- Cease support of elementary schools (grades K - 5) and high schools (grades 9 - 12) and limit our support to middle schools (grades 6 - 8). This conserves our limited staff resources and reflects the feelings of most of the group members that grades 6 thru' 8 are the best ones to interest in science -- -- grades 9 and above have already decided whether they are interested or not.
- Limit any school to no more than two lesson plans per school year.

- Book the first lesson plan for each school now and keep the second lesson plan on a waiting list for later confirmation when staffing support is clearer.

John Purchase will now confirm their bookings to the schools and teachers, and prepare a budget for the next ExCom in September.

Structure of lesson presentations

During the past school year it had become evident to all the group members that we needed to rethink the structure of our presentation packages to make them shorter, more adaptable to the school and class, and more interesting to the students. The group has made the following decisions:

- The lessons should be limited to three days duration
- A lively discussion of the copyrighting issue agreed that henceforth:
 - Presentations would not bear any copyright or authorship
 - Presentations would carry "IEEE TISP / EIC" as a footer on each page
 - All animations, videos, pictures and drawings used in a presentation would carry a note defining their source and authorship
 - Music clips would be limited to around 10 secs.
- It was also agreed that any group member could make small changes to any lesson presentation to improve the flow and clarity and to better fit it to a particular school, class or grade.
- The presentations will all be modified as necessary to limit the thrust to two or three main topics and to allow the lecture and demos to be completed in one class period (50 – 60 mins).
- Lectures must include as many hands-on demos as feasible to reinforce the teaching and keep the students engaged.

It was agreed that making the presentations more modular is probably the better way to go in future, so that modules can be added and subtracted to match the lesson to the school, and also for re-use in another lesson plan. How to do this was not entirely clear and will require a couple of members to take a crack at doing it, so we will try this with the two new lessons to be developed: "Popsicle Bridges" and "Rockets!"



IEEE Phoenix Life Member Affinity Group

The IEEE Phoenix Section Life Member (LM) 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

- October 5, 2010 SRP PERA CLUB, 1 E. Continental Dr, Tempe AZ
- December 7, 2010 SRP PERA CLUB

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



Future Events

- **August (date T.B.D.) – Chapter officer’s Fall Planning meeting; location T.B.D.**
- **September 8, 2010 – Chapter Meeting; location T.B.D. – (Tentative) Program: Apple workshop (iPhone 4.0, iPad overviews)**
- **October 6, 2010 – Chapter Meeting @ DeVry University (Phoenix); Speaker: Jerry Crow; ‘Cryptography, Part 1’**
- **November 3, 2010 – Chapter Meeting @ DeVry University (Phoenix); Annual Chapter elections; Speaker: Jerry Crow; ‘Cryptography, Part 2’**
- **December 1, 2010 - Chapter Meeting; Technical Speaker/location: TBD (Linux, Android workshop?)**
- **Spring 2011 – 1/2-day workshop?**

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

For information about our Chapter, meetings past and future, etc., go to:

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



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.



2011 IEEE Phoenix Section Officer Nominations

The IEEE Phoenix Section is seeking nominations for the following Section officer positions for the 2011 term: Chair, Vice Chair, Secretary, and Treasurer. Section officers must be IEEE members. Self-nominations are acceptable.

Please send nominations or any questions to :

Bruce Ladewig (e-mail: bruceladewig@ieee.org),

copying also Nominating Committee members

Hugh Barnaby (e-mail: hbarnaby@asu.edu) and
Steve Rockwell (e-mail: steve.rockwell@ieee.org)

Section members are urged to submit your nominations within one month of this call for nominations.

Sincerely,

Bruce Ladewig

Chair, Nominating Committee, Phoenix Section



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.



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.
- 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 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.