IEEE Central Texas Section

THE ANALOG

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Newsletter of the Central Texas Section of the Institute of Electrical and Electronic Engineers, Inc.

Archives of The Analog can be found on the CTS web site here.

Published monthly. Deadline for inclusion is the 26th day of the previous month. Send submissions, comments, questions to John Purvis, Editor, john.purvis@ieee.org

CONTENTS

General Interest

Chairman's Column

Another summer vacation season has come to a close, the students are back in school and CTS Chapter meetings are back in full swing. September is filled with interesting meetings from many of the chapters, check out the list below and plan to attend.

Elections for the 2013 chapter officers should be held by November and the results reported to the Section Secretary, Zhuo Li, zhuoli@ieee.org, by December. If a chapter does not plan to have a meeting in November then the election should be held before then. CTS Chapter officers terms of office start January 1 and go to December 31. The Chapter Elections process is specified in the MGA Operations Manual, section 9.6.F Chapter Election Process (it can be found at http://www.ieee.org/documents/section_09_feb_2013.pdf).

Kenny Rice
Chairman, Central Texas Section
krice@ieee.org

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Membership Development

Annual IEEE Election – VOTE…VOTE….VOTE!

Annual Election Process Has Begun: Look for your annual election ballot package to arrive in August or by early September. All members eligible to vote will receive a paper ballot and a postage-paid reply envelope via first-class mail. Included is information about how to vote electronically. VOTE NOW AT www.ieee.org/election.

Not an IEEE Member

Join IEEE today and get 16 months of membership for the price of 12. That's right signup today and renewals will be deferred till the end of 2014. Checkout the updated benefits of being an IEEE member at www.ieee.org/membership.

Did you know about IEEE – eLearning Library

Did You Know –

The IEEE has created an IEEE eLearning Library, the premier online collection of short courses and conference workshops. Login with your IEEE login and view many recorded webinars and training tutorials. Login as a guest and see public content. Check it out at www.ieee.org/elearning.

Joe Redfield
CTS Membership Development Chair
J.Redfield@ieee.org
210-522-3729

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News of Interest to the Section

Central Texas Section Fall Meeting

Twice a year, the leadership of the Central Texas Section and all the Chapter officers and volunteers meet to review the recent section and chapter activities and plan for the next year. The Fall meeting will be held Saturday September 7th at Texas State University in San Marcos. The daylong meeting will start at 7:30 AM with breakfast and is scheduled to complete at 3:00 PM. A BBQ lunch will be provided. ALL IEEE members and volunteers are invited to attend. If you are coming, please register using Vtools at https://meetings.vtools.ieee.org/meeting_view/list_meeting/19085 so we can get a good headcount for lunch. Room number and directions are provided in the Vtools invitation.

Come by and meet your Central Texas Section leaders.

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Continuing Education

04 October 2013 | 7:30 AM to 5:00 PM - 2014 NEC Code Change Workshop

This day-long workshop will provide updates on recent changes to the National Electrical Code (NEC) that will take effect in 2014. The class will be taught by James Stallcup, a nationally renowned author, instructor and expert on matters pertaining to the NEC. The workshop will also include displays and presentations by various electrical industry suppliers. The workshop is intended for electrical engineers, electrical designers, electricians and estimators.
https://meetings.vtools.ieee.org/meeting_view/list_meeting/18422

Student Branches

St Mary's University - San Antonio (http://engineering.stmarytx.edu/ieee/)
Faculty Adviser: Djaffer Ibaroudene, email: dibaroudene@stmarytx.edu
Branch Chair: Jordan Dean, email: jdean5@mail.stmarytx.edu

Texas State University - San Marcos **(new branch, 2009)**
Faculty Adviser: Larry Larson, email: Larry.Larson@TXState.edu
Branch Chair: Adrian Fabian, email: af1362@txstate.edu

Trinity University - San Antonio (http://www.engr.trinity.edu/)
Faculty Adviser: Farzan Aminian, email: Farzan.Aminian@Trinity.edu
Branch Chair: Mohsin Rahim, email: mrahim@trinity.edu

University of Texas at Austin (http://ieee.ece.utexas.edu/)
Faculty Adviser: Sriram Vishwanath, email: sriram@ece.utexas.edu
Branch Chair: Connor Weins, email: chair@ieee.ece.utexas.edu

University of Texas at San Antonio (http://www.utsaieee.org/)
Faculty Adviser: Shuo Wang, email: Shuo.Wang@utsa.edu
Branch Chair: Michael Starkweather, email: michael.starkweather@ieee.org

Calls for Volunteers

Are you interested in having some fun, learning a few things, and participating with fellow IEEE members, if so, please contact Ina Angeles at iangeles@ieee.org in Austin or Ron Seaman at rseaman3353@att net in San Antonio.

Local Chapter Activities

Antennas & Propagation/Microwave Theory and Techniques (APS/MTTS)
http://ewh.ieee.org/r5/central_texas/ap_mtt/

Topic/Title	No meeting planned at ths time
Speaker	
Abstract	
Date/Time	
Cost	
Reservations	
Location	
Notes	

Council on Electronic Design Automation (CEDA)
http://ewh.ieee.org/r5/central_texas/ceda

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Cost	
Reservations	
Location	
Notes	

The CEDA chapter normally meet on the 3rd Thursday of every month. This meeting is open to the public and interested parties. Additional details will be posted at the website. If you have any questions about this meeting or this group, please contact zhuoli@ieee.org.

Joint Circuits and Systems/Solid-State Circuits (CASS/SSCS)
http://ewh.ieee.org/r5/central_texas/cas_ssc/

Topic/Title	Fundamentals and Recent Advances on Continuous-Time Sigma-Delta Modulators
Speaker	Jose Silva-Martinez from Texas A&M
Abstract	Recent developments in mobile computing and wireless internet have led to exponential growth in demand for portable computers and smart phones equipped with WLAN operating at different standards. The digital computing required by these gadgets is facilitated by process scaling that follows Moore's law and is expected to continue down to 10nm physical gate lengths. Various wireless standards have been developed over the years due to the high demand for faster data rate in portable wireless communications, which has pushed baseband bandwidths up to a few tens of MHz. When high-resolution continuous-time lowpass $\Sigma\Delta$ ADC architectures are selected for emerging products because of their efficiency, a wide bandwidth is essential in multi-standard applications to accommodate receiver bandwidth requirements. In this lecture, the fundamentals will be revised and limitations due to clock jitter and presence of strong blockers will be quantified; technology trends will be highlighted. A top-down design approach is followed, starting with system specifications down to design issues of main blocks. Properties of main architectures are fully described. Stability, linearity and power consumption issues in $\Sigma\Delta$ Modulators are addressed. Also, outof-band blocker effects on modulator's SQNR and loop stability as well as loop saturation effects due to agile blockers, usually not properly discussed neither in books nor in scientific papers, are covered. Even though multi-bit architectures have been successfully utilized in multi-MHz bandwidth designs, significant research efforts are devoted to the find efficient solutions for the remaining issues: better linearity, wider bandwidth, robustness to clock jitter and co-existence with other standards. In particular, the feedback DAC nonlinearity significantly affects the ADC performance because it directly adds error to the filter input signal and it is not noise-shaped. The foundations on $\Sigma\Delta$ modulators will be covered first and then we will elaborate on linearity limitations as well as jitter and blocker tolerance issues. Two case studies experimentally verified are presented to illustrate design issues and to give insights into the possibilities that exist for solving these contemporary challenges with analog hardware and software-based processing techniques.
Date/Time	Thursday, September 19, 6:00 to 6:30 PM networking, 6:30 PM to 8:00 PM program
Cost	Free. Pizza, snack and drink will be provided
Reservations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/20135
Location	Building: ACES 2.402 Room Number: 314 2501 Speedway Austin, Texas United States 78712
Notes	

The joint Circuits & Systems/Solid State Circuits Societies normally meet on the 2nd Tuesday of every month. This meeting is open to the public and interested parties. Additional details will be posted at the website. IIf you have any questions about this meeting or this group, please contact zhuoli@ieee.org.

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Components, Packaging and Manufacturing Technology (CPMT) - Austin
http://cpmtaustinchapter.org/

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Cost	
Reservations	
Location	
Notes	

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Computer Society - Austin (CS)
http://www.austin-cs.org/

Topic/title	Motion Video Compression! Video Quality! Exploring the three-dimensional Discrete Cosine Transform
Speaker	Dr. Raymond Westwater holds a PhD in video compression from Florida Atlantic University. He has worked in video and cellular transmission applications for Lucent, Microsoft, and Intel, secure radio for the US military, and is currently working with ATT Labs qualifying head-end equipment for the IPTV U-verse product. His company Futureware has recently been invited to the Austin Technology Incubator's Landing Pad, and expects to have a presence at SxSW and IEEE Globecom next year.
Abstract	Dr. Raymond Westwater holds a PhD in video compression from Florida Atlantic University. He has worked in video and cellular transmission applications for Lucent, Microsoft, and Intel, secure radio for the US military, and is currently working with ATT Labs qualifying head-end equipment for the IPTV U-verse product. His company Futureware has recently been invited to the Austin Technology Incubator's Landing Pad, and expects to have a presence at SxSW and IEEE Globecom next year.
Date/time	Wednesday, September 18th, 6:30 - 8:45 PM, with food/drinks (membership not required to attend) 6:30 p.m. Networking and Gathering 7:00 p.m. Call to Order, Announcement 7:15 p.m. Presentation, with Q/A 8:45 p.m. Meeting Evaluation, Adjourn
Location	THE ADVISORY BOARD - BUILDING 7 (map - http://bit.ly/PA804c) Room Number: Suite 100

12357-C Riata Trace Parkway
Bldg 7, Suite 100
Austin, Texas

Cost	None - Pizza, Salad, drinks provided - free
Reservations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/20139
Notes	

Computer Society - San Antonio (CS)
http://www.ieee-cs-cts.org/

Topic/Title	Computer-based Modeling of Biological Systems: A Knowledge-Based Approach
Speaker	Pamela Fink, St. Mary's University
Abstract	Dr. Fink will describe the modeling technique she developed for modeling biological systems and for which she currently holds a patent. She will then describe a variety of models she has developed in support of drug/treatment development, including the current model developed for the Air Force Research Laboratory on laser effects on the retina. These models illustrate a key role that computers and software development can play in the support of scientific research.
Date/Time	Tuesday, September 17th, 6:15 PM Networking, 6:30 PM Dinner, 7:30 PM Program
Location	Building: University Center Room Number: Conference Room B St. Mary's University One Camino Santa Maria San Antonio, Texas United States 78228
Cost	Dinner will be in the St. Mary's Cafeteria downstairs in the University Center. They have an all you can eat buffet for $8.50 plus tax. Each person will pay for his or her own meal. We will have a block of tables so we can sit together – look for Small IEEE Computer Society Signs on the tables. Note: Dinner is optional. You are welcome to skip dinner and come only to the technical presentation.
Reservations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/20127
Notes	

Central Texas Consultants Network Affinity Group
http://ewh.ieee.org/r5/central_texas/cn

Topic/Title	No information on a planned meeting at this time
Speaker	
Speaker Bio	
Abstract	
Date	
Location	
Cost	
Reservations	
Notes	

Do a friend a favor. Bring your colleagues to grow the Consultants Network.

More information on Consultants Networks: http://www.ieeeusa.org/business/whatis.asp

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EducationSociety

Topic/title	Trade-offs and Negotiations for Engineers
Speaker	Leslie Martinich -
Abstract	Whether you are negotiating schedule, features and resources for a project or a salary at a new job, you need to know some fundamentals of negotiation. In this talk, we'll cover both the trade-offs you negotiate every day and the kind that you need to negotiate only rarely.
Date/time	Monday, September 23, 2013, Noon -1:00 PM
Location	The Advisory Board 12357-C Riata Trace Parkway Bldg 7, Suite 100 Austin, TX 78727
Cost	No charge, lunch will be provided
Reservations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/20117
Notes	**JOINT MEETING**, Technology Management Council – Austin, Women in Engineering

Electromagnetic Compatibility Society
http://ewh.ieee.org/mu/ctx-emcs/

Topic/title	EMI Debug with Near Field Probes
Speaker	James Young and Jeremy Cline, both of Rohde & Schwarz
Abstract	Near field probes are one of the most misused and misunderstood items in most EMC labs. However, they can also be one of the most informative tools if used correctly. This presentation will give some theory about near field probes as related to EMC measurements, and show how useful EMI debug information can be obtained using such probes with both the time-domain and frequency-domain (via FFT) using a Rohde & Schwarz RTO Oscilloscope.
Date/time	Wednesday, September 18, 2013, 6:30-7:00PM social/food, 7:00-9:00pm program
Location	Building: National Instruments, Building C Room Number: 1S13 & 1S14 11500 North Mopac Expwy Austin, Texas United States 78759
Cost	Food and drinks will be provided.
Reservations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/19939
Notes	For meeting information, contact Ross Carlton at ross.carlton@ieee.org or 512-683-6392

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Electron Devices Society (EDS)
http://ewh.ieee.org/r5/central_texas/eds/

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Refreshments	
Reservations	
Location	
Notes	

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Engineering in Medicine and Biology (EMBS)
http://ewh.ieee.org/r5/central_texas/embs/index.html

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Cost	
Reservations	
Location	
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Engineering Management
http://www.ewh.ieee.org/r5/central_texas/ems

The Engineering Management Society has become the Technology Management Council. Information about meetings can be found in the sections for Technology Management Council - Austin and Technology Management Council - San Antonio

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Graduates of the Last Decade (GOLD) Affinity Group

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Cost	
Reservations	
Location	
Notes	

More information on GOLD: http://www.ieee.org/membership_services/membership/gold/index.html

GOLD Launches Mentoring Connection Webinar
Are you interested in becoming a mentor or finding a mentor to help with your professional development? If the answer is yes, check out a free new IEEE Graduates of the Last Decade (GOLD) webinar aimed at
helping mentors and mentees connect with each other. Learn more at http://bmsmail3.ieee.org:80/u/17953/32170

Instrumentation and Measurement Society (I&M)

Topic/Title	Are your measurements really as accurate as you think?
Speaker	Paul Packebush of National Instruments
Abstract	Engineers are expected to rely on their knowledge of instruments and design to evaluate measurement accuracy to ensure cost effective decisions are made during instrument purchase, product design, and service. Despite this, many engineers still make common mistakes in evaluating how accurately they are able to make measurements. Helping educate designers metrology, the science of measurements, strives to provide clear guidelines on evaluating measurement accuracy. This presentation provides an overview of how measurements impacts cost and gives examples of how measurement uncertainty calculations are used to evaluate final measurement accuracies.
Date/Time	Monday, September 16, 6:00 PM to 7:30 PM
Cost	None
Reservations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/20021
Location	Building: Building C Room Number: 1S15 National Instruments 11500 N Mopac Expwy Austin, Texas United States 78759
Notes	

Laser and Electro Optics Society

No meeting scheduled at this time.

For more information, contact Ray Chen

Life Members (LM) Affinity Group - San Antonio

Topic/Title	WWV keeps on ticking!
Speaker	Tom O'Brien, Life Senior Member, IEEE
Abstract	The time and frequency station WWV, operated by NIST in Fort Collins, CO, hosted a rare public tour in June 2013. The speaker will describe the tour and show pictures.
Date/Time	Thursday, September 19, 2013, 11:30 AM
Location	Lion & Rose British Restaurant and Pub 842 Loop 410 (Blanco Road at I-410) San Antonio
Cost	We will order from the regular menu, and the restaurant will provide separate checks.
Reservations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/19905
Notes	

More information on LM: http://www.ieee.org/societies_communities/geo_activities/life_members/index.html

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Power and Energy Society - Austin (PES/PELS/IAS/IES)
http://www.ewh.ieee.org/soc/pes/centraltexas/austin

Topic/Title	The Curious Rise in Wind in Texas
Speaker	Ross Baldick – Distinguished Lecturer
Abstract	In this presentation we compare the development of wind resources in the European Union and the USA, focusing on several countries in Northern Europe for specific European statistics, and ERCOT in Texas for specific USA statistics. We observe several of the differences between Europe and the USA that might be expected to account for a greater growth of renewables in Europe. Surprisingly, ERCOT has achieved higher penetrations of wind than many areas of Europe. We discuss the implications of even higher penetrations of renewables.
Date/Time	Tuesday, September 24, 2013 6:00 to 6:30 PM Social 6:30 to 7:00 PM Dinner 7:00 to 7:30 PM Business Meeting 7:30 to 8:30 PM Program 9:00 PM room closes for the benefit of long distance drivers and early risers

Location	El Gallo Mexican Restaurant, 512-444-2205 2910 S Congress, Austin, Texas
Cost	Members and accompanying spouses: $11 to $17 for dinners ($2 non-meal participants) Visitors (non-IEEE members): $14 to $20 for dinners ($5 non-meal participants) IEEE Student Members: FREE or $3 for select dinners (no charge for non-meal participants) Student Visitors (non-IEEE members): $3 to $6 for dinners (no charge for non-meal participants) All: $2 for non-alcoholic beverages A bar is available for those who care to purchase a beer or other alcoholic beverage
Reservations	If you plan on attending, please RSVP by sending an e-mail to ieee.pi2.austin@zxtech.net
Notes	See the map linked from our website: http://ewh.ieee.org/soc/pes/centraltexas/

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Power and Energy Society - San Antonio
http://ewh.ieee.org/soc/pes/centraltexas/sanantonio

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Location	
Cost	
Reservations	
Notes	For information, please contact Curtis Cryer @ 210-353-2159 or cbcryer@ieee.org

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Product Safety Engineering Society (PSES)
http://www.ewh.ieee.org/soc/pses/

Topic/Title	Technology in the future – Science Fiction or Fact (How would you get it Listed or Recognized?)
Speaker	Everyone attending the meeting!
Abstract	This is the one meeting of the year where we have fun talking about the future and seeing how we might get new inventions approved through the various product safety agencies. Everyone brings a DVD or two with some examples of equipment in the future that would need to be submitted to some product safety agency for testing before use. Usually someone provides a DVD of "out takes" from Star Trek or some futuristic show and we tear apart the problems noted in the video. It's a fun night for everyone as we explore just how product safety engineers might handle the submissions process when dealing with equipment that is fiction now, but may become fact in the future. Please join us - it's a blast!
Date/Time	Tuesday, September 17, 2013 at 7:00 pm (or at 6:30 if you'd like to network a little before we jump into the future!)
Cost	
Reservations	Not Necessary
Location	Dell Parmer Campus, Parmer South Building 4, Victoria Conference Room
Notes	For more information about the meeting please contact Dale Ritzen (512) 651-5338, Mon-Fri, 8am to 5pm.

We encourage you, others in your organization, or other interested parties to participate in our meetings. The PSES meets on the third Tuesday of every month at 6:30pm, with the program starting at 7:00pm. For further information about the PSES, please contact Dale Ritzen at (512) 651-5338.

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Joint Signal Processing/Communications Society - Austin

http://sites.ieee.org/ct-comsp/

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Location	
Cost	
Reservations	
Notes	

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Joint Communications and Signal Processing Society - San Antonio (Com/SP)
http://ewh.ieee.org/r5/central_texas/satx

Topic/Title	No information on a planned meeting at this time

Speaker
Abstract
Date/Time
Location
Cost
Reservations
Notes

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Systems, Man & Cybernetics Society

Topic/Title	No information on a planned meeting at this time
Speaker	
Abstract	
Date/Time	
Location	
Cost	
Reservations	
Notes	For further information, contact David Akopian david.akopian@utsa.edu

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Technology Management Council - Austin
http://www.austin-tmc.org/

Topic/Title	Trade-offs and Negotiations for Engineers
Speaker	Leslie Martinich - Whether you are negotiating schedule, features and resources for a project or a salary at a new job, you need to know some fundamentals of negotiation. In this talk, we'll cover both the trade-offs you negotiate every day and the kind that you need to negotiate only rarely.
Date/Time	Monday, September 23, 2013, Noon-1:00 PM
Location	The Advisory Board, 12357-C Riata Trace Parkway Bldg 7, Suite 100 Austin, TX 78727
Cost	No cost, lunch will be provided
Registrations	https://meetings.vtools.ieee.org/meeting_view/list_meeting/20117
Notes	**JOINT MEETING: Women in Engineering, Education Society**

Contact Leslie Martinich (lmartinich@ieee.org) for more information about the Austin TMC.

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Technology Management Council - San Antonio (TMC)

http://webinabox.vtools.ieee.org/wibp_home/index/CH05214

Topic/Title	The TMC SA next meeting will be in October
Speaker	
Abstract	
Date/Time	
Location	
Cost	
Registration	
Notes	

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Women in Engineering Affinity Group
http://www.austin-wie.org/

Topic/Title	Trade-offs and Negotiations for Engineers
Speaker	Leslie Martinich - Whether you are negotiating schedule, features and resources for a project or a salary at a new job, you need to know some fundamentals of negotiation. In this talk, we'll cover both the trade-offs you negotiate every day and the kind that you need to negotiate only rarely.
Date/Time	Monday, September 23, 2013, Noon - 1:00 PM
Location	The Advisory Board 12357-C Riata Trace Parkway Bldg 7, Suite 100 Austin, TX 78727

Cost	No charge, lunch will be provided
Registration	https://meetings.vtools.ieee.org/meeting_view/list_meeting/20117
Notes	**JOINT MEETING**, Technology Management Council – Austin, Education Society

Contact Leslie Martinich (lmartinich@ieee.org) for more information about the Austin TMC.

Conferences, Other Meetings and Events

Local IEEE Conferences, Events or Workshops

- **October 7-9, 2013: 2013 IEEE Symposium on Product Compliance Engineering (ISPCE)**
Westin at the Domain
Austin, TX, USA
Registration for ISPCE 2013 - IEEE Symposium on Product Compliance Engineering opens June 1, 2013!
Advance Registration reduced rates are available until July 19. Register now while they are available. Register online by clicking on the registration tab on the ISPCE website.
Advance Registration closes at midnight, July 19, 2013.
http://www.psessymposium.org/

- **October 20-23, 2013: 9th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom).**
This conference will be held in Austin

- **December 3-5, 2013: 2013 IEEE Global Conference on Signal and Information Processing (GlobalSIP)**
Austin Convention Center 500 East Cesar Chavez Street Austin
Austin, TX, USA
http://www.ieeeglobalsip.org/

- **December 8-12, 2014: Globecom2014**
IEEE International Globecom Conference is coming to Austin in December 8-12, 2014. Plan is underway targeting 2,000 in attendance to be enriched with technical, Industry and social programs.

  The technical program will provide a high quality and comprehensive

  Coverage of the state-of-the-art research in all areas of communications. The program features will include tutorials, workshops and symposiums presented by leading researchers and experienced academics in more than a dozen parallel technical tracks.

  The Industrial Forum and Exhibition (IF&E) events will provide a comprehensive program tailored to the telecommunication practitioner's fields of interest, to include current technologies, major implementations, complex IT business systems, regulatory impact assessments, economic models and engineering methods. Sessions will include keynotes, tutorials, exhibits and presentations by experienced industry engineers and managers.

  An outstanding social program is being planned for you and your family's enjoyment. We will have pre-conference tours, a Texas style Welcoming Reception, an active Guest's Hospitality Suite, a uniquely structured Banquet with outstanding local talent plus post-conference tours and events. We want to make this one event for the memories that you and your family will remember for many years to come.

  If you are interesting to

  - volunteer and help in any of the above areas,
  - interested in speaking opportunity,
  - interested to get information about having a booth at the exhibit floor

  Then please send your contact information to f.behmann@ieee.org expressing your are of interest and we'll provide you with more information.

- · IEEE Conference Search can be found at http://www.ieee.org/web/conferences/search/index.html

- · See also http://www.wikicfp.com - A place to organize and share **Calls for Papers**.

Non-IEEE Meetings and Events of interest suggested by the membership

Science, Technology, Engineering, and Mathematics (STEM) Events and Information

NOVA Labs
http://www.pbs.org/wgbh/nova/labs/

For many years, WGBH - the PBS member station from Boston - has provided excellent programming and online content on many different topics, and NOVA has been one of their most popular offerings. Now WGBH presents NOVA Labs, a series of interactive online science activities that would be a wonderful addition to secondary science curriculum. Users should create a free login, which will allow them to track and save their progress through the labs. On the main page, users can click on My Progress to see which labs have been completed. The site currently has three labs available: cloud lab, energy lab, and sun lab. Visitors may also check out a list of planned upcoming labs, which include topics like RNA, cybersecurity, and the brain.

Career

The IEEE-USA Career Manager (http://www.ieeeusa.org/careers) is organized into eight categories designed to help you

manage and advance in your career:

* Career Management Interactive Workshop
* Salary Service
* Consulting and Entrepreneurship
* Professional Development Webinars
* Employment Assistance and Job Search
* IEEE Online Distance Learning
* E-Book Library
* IEEE.tv

Tips, Tools and Gadgets

While using StumbleUpon (http://www.stumbleupon.com/home - allows you to set interest parameters, then the site feeds you random sites that meet your interest criteria) to search out new web sites, I came across https://www.circuitlab.com/editor/

This is a web base circuit simulator that allow simple circuits to be created and simulated.

If you have comments, or suggestions as to something I should mention in a future issue, please let me know at john.purvis@ieee.org. I look forward to reading your comments and suggestions.