

IEEE Central Texas Section

ANALOG NEWSLETTER

Volume 49-11

November 2005

Newsletter of the [Central Texas Section](#)
of the Institute of Electrical and
Electronic Engineers, Inc.

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Published monthly (Deadline for inclusion
is the 25th day of the previous month).
Dawn Roberson, Editor, (robersondj@ieee.org). Have a question or comment? [Contact](#)
[US](#).

4. Local Conferences

[6th International Workshop on
Microprocessor Test & Verification \(MTV
2005\)](#) in Austin, TX November 2-4, 2005

**2005 IEEE International Test Conference
(ITC).** This conference will be held 08 Nov -
10 Nov 2005 at the Austin Convention Center
in Austin, TX. Conference website: [http://
www.itctestweek.org/](http://www.itctestweek.org/)

2nd San Antonio Biophotonics Symposium.
Nov 11-12 2005 at UTSA. Conference
website: <http://sa-biophotonics.uthscsa.edu/>.

**Call for Papers: 7th Annual IEEE-UT
EMC 2006: The Role of Technology in our
Economy.** Conference will be Aug 10-11, but
abstracts are due 15 Jan 2006. Conference
website: www.ieeeUTemc.org for more
details.

**2006 Region 5 Technical, Professional &
Student Conference - Call for Papers:** <http://>

www.2006ieeer5conference.com to be held in San Antonio.

2006 World Congress on Information Technology Brings Legacy to Texas. The World Congress on Information Technology (WCIT 2006) accepted the official crystal from WCIT 2004 symbolizing Austin, Texas, as the next official host of the 15th World Congress. The World Congress, which will be held in Texas May 1-5, 2006, will attract an estimated 2,000 global leaders from business, government and education to discuss IT policy, direct the future of technology, and drive social and economic development. <http://click.austinx1-mail.com/sp/t.pl?id=926096:371346593>

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Conferences affected by the Hurricanes of 2005

IEEE PES Transmission & Distribution Conference & Exposition. The IEEE Power Engineering Society Governing Board has come to the conclusion that the most reasonable course of action is to postpone the meeting until Spring 2006. Check the conference website for details.

5. Presentations of Interest

UTSA Invited Talk Series: Computer Information Assurance and Security

Title: Software Watermarking: State of the Art and Future Directions
Speaker: Christian S. Collberg, Assistant Professor
Affiliation: University of Arizona
When: Nov. 4, 2:00-3:30PM
Where: BSB 3.03.02
RSVP: none required (open to public)

Title: Reasoning with MAD Distributed Systems
Speaker: Lorenzo Alvisi, Associate Professor
Affiliation: UT Austin
When: Nov. 18, 2:00-3:30PM
Where: BSB 3.03.02
RSVP: none required (open to public)

Title: TBA
Speaker: Wenke Lee, Associate Professor

4. [Local Conferences](#)

- [Conferences affected by hurricanes Katrina and Rita](#)

5. [Presentations of Interest](#)

2005:

- 6th Int'l Workshop on Microprocessor Test and Verification
- IEEE Int'l Test Conference
- 2nd San Antonio Biophotonics Symposium

2006:

- IEEE Region 5 Technical, Professional and Student Conference
- World Congress on Information Technology

1. Section Activities

Chairman's Column

Section officer elections

The term of office for the current set of Section officers expires in December of this year (the bylaws were altered in 2003 to make our term of office two years). The election will take place in December. A Nominating Committee was formed (chaired by Dawn Roberson), and recommends the following slate of officers to the membership for their consideration.

Pres: Clif Denny
 Vice Chair - San Antonio: Garrett Polhamus
 Vice Chair - Austin: Sherry Gillespie
 Secretary: Oscar Moreira-Tamayo
 Treasurer: T. Scott Adkinson

A brief bio and society involvement will be collected from each of these and forwarded to the membership. If any member wants to nominate themselves (or another IEEE member), please contact the Nominating Committee Chair at robersondj@ieee.org.

CTS Forming Chapters

Life Members in the Austin-San Antonio Texas area are organizing a Life Member Chapter. Some Life Members have already been contacted to determine interest. If you have not been contacted do have an interest in the formation of a Life Member Chapter in the Central Texas Section, please forward your name, mailing address and e-mail address to:

Edwin L. Bronaugh (LF)
 10210 Prism Dr.
 Austin, TX 78726-1364
ed.bronaugh@ieee.org

Women in Engineering - San Antonio

Affiliation: Georgia Tech
When: Nov. 29, 2:00-3:30PM
Where: BSB 3.03.02
RSVP: none required (open to public)
For more info: <http://www.cs.utsa.edu/research/seminars.shtml>

[IEEE Activities and Links](#)
[Your IEEE](#)
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[IEEE Xplore](#)
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[IEEE Standards Association](#)
[About the IEEE](#)
[The Spectrum](#)
[IEEE-USA](#)

To contribute information to this electronic newsletter, please send it by e-mail to robersondj@ieee.org.

If you are interested in participating in a Women in Engineering in San Antonio, please send an email to Mercy Luhanga (mluhanga@hotmail.com).

Systems, Man, and Cybernetics

Interested in participating in a CTS Chapter of the System, Man, and Cybernetic (SMC) society? If so, please contact Peter Chen (SMCS) Philip.Chen@utsa.edu.

EWeek Activities

We are in the initial stage of planning for Austin EWeek activities. Teachers from area schools can register for visits by engineers by going to the Central Texas Engineers Week web site, <http://www.centexeweek.org>. Likewise, if you want to volunteer to visit a school, you can sign up on this site as well. Training sessions for new volunteers will be scheduled in the coming months. To facilitate the participation of area companies, a Community Kick-off event is being planned.

The intent of this event is to educate the executives of local companies to the activities of EWeek, and how companies can participate. This event is targeted at the HR and Engineering VPs from area companies. If you would like to see your company invited to this event, please send the appropriate contact information to me at John.Purvis@ieee.org.

As always, we look to you for feedback. If you have any question or comments, please contact me at John.Purvis@ieee.org.

John Purvis
Central Texas Section Chair

John R. Purvis III, P.E.	Phone: 512-823-7654, Cell: 512-626-7140
IBM Global Services	Email: jrpurvis@us.ibm.com
11400 Burnet Rd.	IM: SameTime=jrpurvis@us.ibm.com
Austin, Texas 78758	AIM=jrpurvis3, MSN=jrpurvis3
Team Web page: http://w3.austin.ibm.com/:/projects/lvkb/risc/	

Continuing Education

[Software Project Management Certificate Program \(online or onsite\)](#) • ongoing

PE Exam Review

Test Masters' review course and workshops in San Antonio, TX for the April 2006 Electrical Principles and Practice Exam

Texas engineers that have inquired about the Test Masters' Electrical PE prep course have come to the realization traveling to Houston is inevitable. That is until now. The course has been offered in other cities in the past. I am currently in the process of trying to recruit electrical engineers willing to commit to taking the course and workshops in San Antonio for the April 2006 Principles and Practice exam. Anyone willing to commit to both the course and workshops, please contact me (Dana Cutter) at DCutter@CPSEnergy.com

Student Branches

St Mary's University - San Antonio ([for more information](#))Faculty Advisor: Djaffer Ibaroudene, Email: dibaroudene@stmarytx.edu**Trinity University - San Antonio**Faculty Advisor: Farzan Aminian, Email: farzan@engr.trinity.eduBranch President: Brandi House, email: brandi.house@trinity.edu**University of Texas at Austin** ([for more information](#))**University of Texas at San Antonio** ([for more information](#))Faculty Advisor: Yufang Jin, Email: Yufang.Jin@utsa.edu[Back to Contents](#)

2. Chapter Activities

*Multiple Chapters**Computer Society - San Antonio and Women in Engineering - San Antonio***Topic or Presentation Title:** Computers in Fiction: Can we do the AI?**Speaker:** Dr. Carol Luckhardt Redfield**Date and Time:** Tuesday, November 8, 2005

6:30 p.m. - Networking; 7:00 p.m. - Dinner; 8:00 p.m. - Program

Cost: \$10 members/ \$2 students/\$13 non-members**Reservations:** Required by Friday, Nov 4, 2005, to Yu Zhang, yzhang@cs.trinity.edu or (210) 999-7399.**Meeting Location:** Skyline Room, Coates Center, Trinity University, San Antonio, TX.**Directions:** Please note that we have parking instructions on the Web site. The Alamo Stadium parking is reserved for Alamo Stadium Event parking.Please check out the instructions at http://www.ieee-cs-cts.org/meeting_details.htm for the parking by Laurie Auditorium.**Abstract:** Computers have been in fictional stories for a long time, and have appeared as intelligent agents or even characters in fiction since at least the mid-1900s. This presentation will review some science fiction movies and novels with smart computers either as a tool or as a character in the stories such as HAL from the movie 2001, Data in the Star Trek TV series and movies, and C3PO in the Star Wars movies. Each story will be compared to the current capabilities in the field of artificial intelligence.*Joint Signal Processing/Communications Society* [[for more information](#)]**Topic or Presentation Title:****Speaker:****Date and Time:****Cost:****Reservations:****Meeting Location:****Directions:***Joint Circuits and Systems/Solid-State Circuits***Topic or Presentation Title:**

Speaker:
Date and Time:
Cost:
Reservations:
Meeting Location:
Directions:
For further information, contact Mike Seningen at mikes@intrinsity.com

Computer Society - Austin [[for more information](#)]

Topic or Presentation Title:
Speaker:
Date and Time:
Cost: Free
Reservations:
Meeting Location/Directions:[National Instruments, 11500 North MoPac, Building C, room 1S15, Austin, TX 78759](#)

See <http://austin-cs.org/> for detailed directions and for last minute information. This presentation is open to the public.

Computer Society - San Antonio [[for more information](#)]

Joint Meeting Computer Society - San Antonio and Women in Engineering - San Antonio

Topic or Presentation Title: Computers in Fiction: Can we do the AI?
Speaker: Dr. Carol Luckhardt Redfield
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More information on the program is available at our Web site <http://www.ieee-cs-cts.org> .

The meeting is open to the public.

Consultants Network [[for more information](#)]

Topic or Presentation Title:
Speaker:
Date and Time:
Cost:
Reservations:
Meeting Location:

Directions:

The consultants' web directory has been updated. The directory is to be found at <http://www.alesu.com/xltp/ieecons/listzero.htm>

Electromagnetic Compatibility Society [[for more information](#)]

Topic or Presentation Title:**Speaker:****Date and Time:****Cost:****Reservations:****Meeting Location:****Directions:**

For more information, see the EMC website (above).

IEEE EMC Symposium Coming Back to Austin!

For the first time since 1997, the IEEE EMC Symposium will be returning to the Central Texas area. The Central Texas EMC Society was recently awarded the 2009 Symposium and the society looks forward to putting on another great event. If you are interested in assisting with this event, please see the website for contact information.

Electron Devices Society [[for more information](#)]

Notice new meeting location!

Topic or Presentation Title:**Speaker:****Date and Time:****Cost:****Reservations:****Meeting Location:** Room 3-D SEMATECH

2706 Montopolis Dr., Austin, TX 78741

Directions: <http://www.sematech.org/corporate/map.htm>

Entry Directions: The visitor lobby is open until 6pm. Anyone arriving before 6 can go there to sign in. Park in the second parking lot on the right and enter near the flag pole, north side of building in the middle. After 6pm, everyone needs to enter through the east lobby. Park in the first parking lot on the right and enter through the door with the ATDF sign over it. **Refreshments: 6pm - 6:30pm**

Engineering in Medicine and Biology [[for more information](#)]

Topic or Presentation Title: Brain Activation by Transcranial Magnetic Stimulation (TMS)**Speaker:** Dr Jack Lancaster, Research Imaging Center, UTHSCSA**Date and Time:** Wed, Nov 9**Cost:** \$10 members/ \$2 students/\$15 non-members**Reservations:** RSVP to [Garrett Polhamus](#)**Meeting Location:** Loeffler Room, BSB 3.03.02, UTSA Campus**Directions:** <http://www.utsa.edu/maps/1604/>

Abstract: TMS of the brain was first achieved by Barker et al. in 1985. A great advantage of TMS over electrical brain stimulation (EBS) is its non-invasiveness. TMS activates local neuronal populations by inducing transient E-fields in excess of 100V/m with a pulse duration of ~250 microseconds. Stimulator output and pulse repetition rate are adjustable, with safety concerns restricting pulse rates to less than 10 per second. A long-term goal is to use

TMS in the treatment of depression, improving on EBS methods. Treatment efficacy appears to derive from the known ability of repetitive electrical stimulation to induce long-term potentiation and long-term depression of synapses and circuits. TMS produces both local and remote effects, i.e. activation of interconnected brain areas. TMS when combined with functional brain imaging reveals spatial and functional relations between networked brain areas, providing a promising new probe for human brain mapping.

We have an exciting Fall planned.

14 Dec: Dr John Clark, of Rice University, will be presenting.

For further information, please contact Dawn Roberson, 210-458-5520, robersondj@ieee.org.

Engineering Management [\[for more information\]](#)

Topic or Presentation Title: Gaining Support for Your Projects

Speaker: Tom Baker, VP Engineering, Overwatch, and Nancy Abraham, Manager of Overwatch's Program Management Office

Date and Time: 5:45 pm Tuesday November 1

Cost: \$15 includes your choice of 7 dinner entrees, coffee or tea

Reservations: RSVP to: lmartinich@ieee.org

Meeting Location: El Gallo Restaurant, 2910 S. Congress, Austin

Other Upcoming Engineering Management Events:

No meeting in December.

In January, we'll begin our three-part series on [New Product Development: From Concept to Cash](#). This series, offered in conjunction with [PDMA](#) and [PMI](#), will provide you with a both insights and the process for delivering new products.

January 24 Part 1 of New Product Development Series: Focus on Hardware. Scanning the Horizons.

February 28 Part 2 of New Product Development Series: Charting Your Course: Selecting the Right Products to Develop. Speaker: Michael Schultz, CEO, Infoglide.

March 28 Part 3 of New Product Development Series: Delivering Your Product.

For other information about the Engineering Management Society activities, see the the web site: http://www.ewh.ieee.org/r5/central_texas/ems/

For information regarding chapter activities (and those wanting to volunteer), contact Leslie Martinich (leslie@competitivefocus.com) (512-423-5121).

Graduates of the Last Decade (GOLD)

Topic or Presentation Title: IEEE GOLD Networking Event

Speaker:

Date and Time: November 11, 2005 from 6:00pm to 8:00pm

Cost:

Reservations: Kristi Hummel, khummel@ieee.org

Meeting Location: Buffalo Billiards in Downtown Austin

Directions: Congress Avenue and 6th Street (Southeast corner)

Come to Buffalo Billiards in downtown Austin on November 11th for an IEEE Graduates of the Last Decade (GOLD) Networking Event. This will be a great opportunity to meet other young engineering professionals in the Austin and San Antonio area. The event details are listed above. Please send an email to Kristi Hummel khummel@ieee.org if you plan to attend. We'll see you then!"

Laser and Electro Optics Society

Topic or Presentation Title:

Speaker:

Date and Time:

Cost:

Reservations:

Meeting Location:

Directions:

For more information, contact Ray Chen raychen@uts.cc.utexas.edu.

Power Engineering Society [\[for more information\]](#)

Topic or Presentation Title: Internet over Power Lines

Speaker: Dan Smith, Austin Energy.

Date and Time: Tuesday, November 15, 2005 (Note: 1 week early!)

6:00pm Social

6:30-7:00 Dinner

7:00-7:30 Business Meeting

7:30-8:30 Program

Cost: Dinner is \$10.00 – IEEE Members

\$12.00 – Non-IEEE Members

Free for students.

Reservations: RSVP to Stacy L Smith [stacy.smith@austin.utexas.edu] or go to our web site at <http://www.ewh.ieee.org/soc/pes/centraltexas/index.htm>.

Meeting Location: El Gallo Mexican Restaurant

2910 S Congress (see below)

Austin, Texas

512-444-2205

Directions: From I-35:

Exit at Oltorf, turn west, and continue until S. Congress Avenue. At S. Congress, turn left. El Gallo is about 500 feet past the next traffic light (Cumberland), on the right. It's also directly across from the entrance to St. Edward's University.

From Ben White Blvd. (US290/SH71):

Exit at S. Congress Avenue and turn north (left from 360, right from I-35). El Gallo is about 600 feet past the next traffic light (Woodward), on the left. It's also directly across from the entrance to St. Edward's University.

Upcoming Power Engineering Society topics:

December 6 – Ice Plant: Chilled water loop COA – Jim Collins, Austin Energy

Location: Ice Plant, downtown Austin

For further information, please contact Susan Thomson or Roy Matthews at 512-442-8085 ext 25

Product Safety Engineering Society [\[for more information\]](#)

Topic or Presentation Title: .

Speaker:

Date and Time:

Cost:

Reservations:

Meeting Location:

Directions:

We encourage you, others in your organization, or other interested parties to participate in our meetings every month. The PSES meets every month on the third Tuesday of every month at 6:30, with the program starting at 7pm, except in November/December. A combined monthly meeting is held in early

December to allow members and guests to enjoy the Thanksgiving and Christmas holidays. For further information about the PSES, please contact Dale Ritzen at (512) 651-5338.

Chapter Chair: Daniece Carpenter (daniece_carpenter@dell.com).

Women in Engineering [[for more information](#)]

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Women in Engineering has been an Affinity Group of the Central Texas Section since the Fall of 2002. Activities have been until now, Austin-based, with programs, events and membership primarily from the Austin area. We are delighted to announce that WIE is now expanding activities to the San Antonio area. Mercy Luhanga, Yu Zhang and Dawnlee Roberson are leading the effort to initiate WIE activities in San Antonio and are planning a first program in that area this November. We look forward to establishing a WIE membership base in San Antonio and evolving to two active groups.

Additional details are posted on the WIE website at http://ewh.ieee.org/r5/central_texas/wie.

Editor's Notes

The goal of this newsletter is to provide the more than 4700 members of the Section with up-to-date and meaningful information. We welcome contributions and suggestions that will improve the newsletter. Please contact the editor, Dawn Roberson at robersondj@ieee.org if you have any thoughts or suggestions. The deadline for submission is the 25th of the month.

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3. IEEE Info

THE INSTITUTE: can be found at <http://www.ieee.org/theinstitute>

IEEE Member Benefit:

IEEE Members access the world of technology. Search more than 1,100,000 documents in IEEE Xplore. Subscribe to IEEE Society publications at low, member-only rates. Purchase papers online for just \$13 each -- or save even more when you subscribe to the IEEE Member Digital Library.

Get the most from your IEEE membership -- find out how today: <http://boldfish.ieee.org/u/market8+/04196044>

[IEEE-USA NEWS & VIEWS](#) : IEEE Career-Building Resources: *BOOKMARK THIS SITE*: For career-building resources, including articles and product and service notices, visit IEEE-USA's CAREER NAVIGATOR at: <http://ieeusa.org/careers/>. IEEE XELL [a.k.a. Expert Now IEEE] GAINS SOCIETIES' SUPPORT

Database Offers Examples of Pre-University Education Activities

A new section of the IEEE Web site has been developed to help IEEE members and volunteers identify various activities being conducted in IEEE sections related to pre-university science, engineering and technology education. Created by IEEE Educational Activities with support from the IEEE Foundation, the IEEE Pre-university Activity Network consists of two parts:

*a public area that details current and upcoming activities worldwide

*a password-protected database for IEEE members and volunteers to submit their own experiences, ideas and best practices for display on the site

There are currently about 70 examples of IEEE pre-university activities included in the database. To access the IEEE Pre-university Network, visit <http://www.ieee.org/eab/preudatabase>. For more information, contact Doug Gorham, IEEE Educational Activities; telephone +1 732 562 5483; "d.g.gorham@ieee.org" or Allison Ickowicz, IEEE Educational Activities; telephone +1 732 562 5496; "a.m.ickowicz@ieee.org".

Nomination Deadline Nears for EE Times ACE Awards

EE Times is looking for a few great people, companies, and products for its Second Annual ACE Awards. The awards, cosponsored by IEEE Spectrum, honor the people, the companies, and the products that demonstrate leadership and make positive contributions to society. The deadline for entries is 31 October 2005. To complete a nomination or for more details go to <http://boldfish.ieee.org:80/u/1061/00757617>

IEEE membership portal

We hope all Section members are taking advantage of the new IEEE Membership Portal. The IEEE History Center is supplying interesting content which will be featured on the main page. Visit it at <http://www.ieee.org/myieee>.

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