

IEEE Central Texas Section

ANALOG NEWSLETTER

Volume 49-10

Oct 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**2005 IEEE/CPMT Workshop on Accelerated Stress Testing and Reliability.**

This conference will be held 3-5 Oct 2005 at the Driskill Hotel in Austin, TX. The conference website is: <http://www.ewh.ieee.org/soc/cpmt/tc7/index.html>.

Local CTS member, Kirk Gray is one of the local organizers. This annual meeting is a gathering of reliability test professionals. The purpose of the AST Workshop is to share ideas on better ways of accelerating and detecting hidden defects, flaws, and weaknesses in electronic and electromechanical hardware that would result in failures during use. These techniques are focused on testing electronic hardware to operational and destruct limits and root cause investigation to determine the underlying physics-of-failure.

2005 Texas Conference for Women

Hosted by Governor Rick Perry and First Lady Anita Perry, the conference will be held

October 20th at the Austin Convention Center. The one-day event provides a forum for some of our country's rising female stars in the fields of international and national affairs, health, media, business, finance, and personal development to share their wisdom with thousands of Texas women.

The Central Texas Section of IEEE is sponsoring a booth in the exhibits area during the conference to share information about the opportunities offered by membership in IEEE and the various chapters/societies. The booth will include volunteers from several local IEEE chapters, including Women in Computing, the Engineering Management Society, and the Electron Device Chapter.

We would love to have additional volunteers to help us talk to conference attendees who come by our booth. If you are interested, please contact me.

We also encourage folks to consider attending just for fun. It was an amazing event last year, when I attended for the first time. See our description of the event on our WIE website at http://ewh.ieee.org/r5/central_texas/wie/meetings/meeting-centex-wie-051020.htm You can access up-to-date information and our online registration on our Web site at www.txconferenceforwomen.org

2005 IEEE Electrical Performance of Electronic Packaging (EPEP). This conference will be held 24 Oct - 26 Oct 2005 at the Radisson Hotel & Suites in Austin, TX. Conference website: <http://www.epep.org/>

[IEEE International Symposium on Workload Characterization](#) in Austin, TX
October 6-8, 2005

[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 -

4. [Local Conferences](#)

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2005:

- IEEE/CPMT Workshop on Accelerated Stress Testing and Reliability
- 2005 Texas Conference on Women
- IEEE Electronic Performance of Electronic Packaging
- IEEE Int'l Symposium on Workload Characterization
- 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). A proposed slate of officers for 2006-2007 will be presented to the Section in one of the upcoming Analogs, along with biographic material on the candidates. The election will take place in December.

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

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

10 Nov 2005 at the Austin Convention Center in Austin, TX. Conference website: <http://www.itctestweek.org/>

2nd San Antonio Biophotonics

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

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.austin1-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

October 4: 2:00-3:00pm
Topic: The N-Variant Systems Framework: Polygraphing Processes for Secretless Security
Presenter: David Evans, University of VA
Location: UTSA Campus, Biosciences

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.

Local Engineer Honored

The 2005 National Women of Color Technology Awards Conference on Oct. 20-22 at the Westin Peachtree Plaza Hotel in Atlanta, Georgia, will honor Madeline Vega, systems engineer, Global Server Integration, IBM STG, with its Rising Star Award. Next time you see Madeline, congratulate her!

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.

MPAC Being Planned

A one-day career management seminar is planned for Austin on Saturday, October 29 at the Embassy Suites Hotel, 5901 N. IH-35, Austin, TX. This will be an all day event entitled "Career Makeover for Scientists and Engineers in the 21st Century." This event is being co-sponsored by IEEE-USA as part of their career development efforts. Registration deadline is October 21. The cost is \$45 for IEEE members and \$60 for nonmembers. Further information will be distributed via a direct email as soon as all the details have been confirmed.

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

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Austin, Texas 78758 AIM=jrpurvis3, MSN=jrpurvis3
Team Web page: <http://w3.austin.ibm.com/projects/lvkb/risc/>

New Senior Members!

Building 3.03.02

Details: www.utsa.edu/cias

October 8: 2:00-3:00pm

Title: Secure Range-Independent Localization for Wireless Sensor Networks

Presenter: Rada Poovendra - U Washington

Location: UTSA Campus, Biosciences

Building 3.03.02

Details: www.utsa.edu/cias

IEEE Activities and Links

[Your IEEE](#)

[Calls for Papers](#)

[IEEE Xplore](#)

[What's New at IEEE](#)

[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.

CTS has 4 MORE new Senior Members! Kisik Choi, Thuy B Dao, Turker Kuyel, and Michael Shapiro are all selectees from the 24 Sept 05 Review Panel. Congratulate them when you next see them!

Continuing Education

OCTOBER 3th MEETING ON ENGINEERING ETHICS

On October 3th, Ms. Dale L. Beebe Farrow, P.E., Executive Director for the Texas Board of Professional Engineers will give a noontime lunch presentation on Ethics. This is a subject needed by all engineers annually to renew their licenses. A large attendance at this meeting is expected at the Villita Assembly Building (intersection of Villita and Presa). Doors to the meeting will open at 11:00 am. The deadline for reservations is September 16th at noon. Please contact Stephanie Rendon for reservations at srendon@drashce.com or by phone at 210-641-2112.

Application Deadline Approaching for Circuit Design, Engineering Management, and Software Engineering Masters Degree Programs from The University of Texas at Austin

Special weekend schedule

The College of Engineering is pleased to offer Engineering Master's Degree Programs designed for those with full-time job responsibilities (classes meet one weekend a month for two years). Current offerings include Circuit Design, Engineering Management, and Software Engineering. The deadline for applications for the Spring 2006 semester is October 1, with rolling admission after that date if space is available in the program. For more information, please go to: www.executivemasters.org or call 512.232.5169.

Upcoming opportunities include:

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](#))

Trinity University - San Antonio

Faculty Advisor: Farzan Aminian, Email: farzan@engr.trinity.edu

Branch 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](#))

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2. Chapter Activities

Multiple Chapters

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 Gerald Garcia at gerald.garcia@ieee.org

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

Topic or Presentation Title: Agile Management: The Theory of Constraints in Software Development

Speaker: David Anderson, Microsoft

Date and Time: October 13 at 6:30pm

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](#)]

Topic or Presentation Title: Computational Biology - The study of structure and function of biological macromolecules using computational techniques

Speaker: Borries Demeler, Ph.D., The University of Texas Health Science Center at San Antonio

Date and Time: Thursday, October 20, 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 Monday, October 17, 2005, to Yu Zhang, y Zhang@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.

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: a free-wheeling discussion by panelists Dr. Darrell Word, Dr.Otto Friedrich and Bob Hunter.

Speaker:

Date and Time: October 13, 2005

Cost:

Reservations:

Meeting Location:

Directions:

Ethics for unlicensed Engineers as well as Licensed PEs will be discussed, including some relatively recent changes in the ethics requirements of the Texas Board of Professional Engineers. A discussion with Mr. C.W.Clark of the TBPE confirmed that participation in this program will be admitted for credit for PE renewals.

The consultants' web directory has been updated. The directory is to be found at <http://www.alesu.com/xltp/ieeecocons/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: "Silicon Nanocrystals"

Speaker: Dr. Ramachandran Muralidhar

Date and Time: Thursday, October 27, 2005 6pm - 8pm

Cost:

Reservations: Please RSVP to andrew.lin@freescale.com

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**

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

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

Topic or Presentation Title: Regenerative Medicine and Engineering in San Antonio

Speaker: Dr Mary Pat Moyer of INCELL

Date and Time: Wed, Oct 12

Cost: \$10 members/ \$2 students/\$13 non-members

Reservations: RSVP to [Garrett Polhamus](#)

Meeting Location: Loeffler Room, BSB 3.03.02, UTSA Campus

Directions: <http://www.utsa.edu/maps/1604/>

We have an exciting Fall planned.

9 Nov: We have asked Dr Jack Lancaster of the Research Imaging Center at UTHSCSA to speak

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: Earned Value Management Systems

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

Date and Time: Tuesday October 4 at 5:45

Cost: \$15 includes yo ur 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:

2005/6:

November 1 (topic TBD)

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:

Speaker:

Date and Time:

Cost:

Reservations:

Meeting Location:

Directions:

David Walker had something planned for SA for October, but he didn't get the details to me in time. Email him at: David.Walker.ctr@lackland.af.mil

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: Transmission System Protection and Control

Speaker: Dan Smith, Austin Energy.

Date and Time: Tuesday, October 25, 2005

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: For further information, please contact Roy Matthews, P.E. or Stacy L Smith [stacy.smith@austin.utexas.edu] or go to our web site at <http://www.ewh.ieee.org/soc/pses/>

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 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](#)]

Topic or Presentation Title: Texas Women's Conference

Speaker:

Date and Time: Tuesday, Oct 20

Cost:

Reservations:

Meeting Location: Austin Convention Center

Directions:

Detailed information on the program is available at <http://www.txconferenceforwomen.org>. The Central Texas Chapter (represented by numerous Societies) will have a booth at the conference and welcomes participants.

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://ieeeyusa.org/careers/>. IEEE XELL [a.k.a. Expert Now IEEE] GAINS SOCIETIES' SUPPORT

THE IEEE Virtual Museum

As mentioned last issue, The IEEE Virtual Museum (VM)—IEEE's award-winning outreach site for pre-college youth and the general public that uniquely combines engineering principles with the history and social context of technology—can be a resource for Section members, their families, and their local community. The VM has now opened its eighth exhibit, “Songs in the Key of E,” about electronic music. Be sure to visit the VM at (<http://www.ieee.org/museum>).

Call for RAB Award Nominations:

The Regional Activities Board (RAB) is currently accepting nominations for a number of RAB Awards. The deadline for nominations for these awards is 15 October 2005.

- * RAB Achievement Award
- * RAB GOLD (Graduates Of the Last Decade) Achievement Award
- * RAB Innovation Award
- * RAB Leadership Award
- * RAB Larry K. Wilson Transnational Award

The RAB Awards and Recognition Program seeks to honor the outstanding efforts of some of the most invaluable IEEE Volunteers who have made substantial Regional contributions through innovative projects, exemplary leadership, service, and by fulfilling the goals as related to Transnational Activities. Each prestigious award has a unique mission and criteria, and offers the opportunity to honor distinguished colleagues, inspiring teachers and corporate leaders. These are NOT technical achievement awards. More information and nomination forms are available at the RAB Awards Website at <http://www.ieee.org/rabawards>.

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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