

IEEE Central Texas Section

# ANALOG NEWSLETTER

Volume 50-1

January 2005

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

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

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## The Chairman's Column

## OPPORTUNITIES FOR VOLUNTEERS

The Central Texas Section is seeking volunteers to assist with the following: **Electronic Media Coordinator** and **Webmaster**. These may be filled by one or more persons. While these are not overly demanding positions, they each will require several hours per month of volunteer effort. If you are interested in sharing your talents with the Section, please contact me at [John.Purvis@ieee.org](mailto:John.Purvis@ieee.org).

### AS ALWAYS

We continue to work to get you more involved in your professional association. We always welcome your feedback ([John.Purvis@ieee.org](mailto:John.Purvis@ieee.org)). Please let all our leaders know how we are doing and please feel free to make any suggestions or recommendations.

**John R. Purvis**, PE

Chairman

## Central Texas Section:

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### Joint Dinner Meeting with AIAA, ASME, ASM and IEEE

Topic: Windtricity®

Date/Time: January 26, 2005

Cocktails 6p-7p, dinner 7p, presentation 8ish

Cost: set dinner list – see below

Reservations: contact Clif Denny at 210.456.3919 and email is [c.denny@ieee.org](mailto:c.denny@ieee.org).

Speakers: Mr. Jim Nesrsta of the San Antonio City Public Service, and Mr. Ward Marshall of General Electric

Directions: Dadaelion Room, Randolph AFB

The American Institute of Aeronautics and Astronautics (AIAA), the American Society of Mechanical Engineers (ASME), the American Society for Metals (ASM), and the Institute of Electrical and Electronic Engineers (IEEE) will proudly sponsor a joint dinner meeting.

Reservations are required for the security at Randolph AFB. Because of time constraints and security controls, only American citizens will be allowed to attend this meeting. Visitors to Randolph AFB must have a picture ID, proof of insurance for the vehicle being driven on base, and current inspection sticker (if one is required).

Short abstract: For decades now the conservationists have been warning that our fossil fuel supply would eventually run out. There may some truth to that based on the heated battles around the globe to control the gathering and distribution of the alleged dwindling supply. Some alternative energy sources have been identified but need science, technology, and marketing to bring them to fruition. Windtricity®, as wind derived electricity is casually known, has become a reality and now furnishes a small portion of the daily electrical power we use each day. The technology involves many facets of engineering and science. The huge blades are propellers much like those used on aircraft for the past 100 years designed to efficiently gather the smallest puff of air. They stand on massive towers whose strength must be sufficient to withstand all the imaginable loads nature can dish out. Gears must be designed to transfer the motion of the slow but powerful rotating shaft to the uniquely developed generators. Without properly designed electrical wiring and controls to collect and distribute this unpredictable free source of basic energy, the gigantic windmills would be nothing more than expensive toys.

Speakers bios:

Jim Nestrta is the Director of Generation Planning for City Public Service of San Antonio. He is responsible for evaluating all of the options for satisfying San Antonio's future electrical energy needs, which includes new generation facilities, distributed generation and renewable energy programs. Ward Marshall is Sales Manager for GE Wind Energy for the Mid-American South Region. He is based in Austin, Texas, and is responsible for sales and relationship management with customers in that region. Prior to joining GE Wind Energy, Ward was Director of Business Development for AEP Energy Services, Inc. in Columbus, OH, where he was responsible for the assessment, development and/or acquisition of new business opportunities using renewable energy.

The dinner menu will consist of:

Chicken Burgundy \$20 for members and their guest, \$24 for visitors

Steak Diane \$20 for members and their guest, \$24 for visitors

Vegetarian Plate \$12 for members and their guest, \$15 for visitors

A salad, vegetables, dessert (French Cheese Cake), and tea are also included.

Directions to Randolph AFB:

From I-35, get on Pat Booker Road going east. Continue on the road until you reach the main gate at Randolph AFB where you will present the necessary photo id of each occupant and proof of insurance for the vehicle being driven. Once inside the gate, proceed along Harmon Drive until you reach Washington Circle. Turn on Washington Circle and travel around to Northeast Drive. Turn onto Northeast Drive and proceed to Northeast Rd, turn right, and proceed until the road the T's into a circular road (Military Plaza). The building in the center of the Plaza is the Officers Club.

The **CTS Spring Planning Meeting** will take place at the Quality Inn in San Marcos on Saturday, January 22, 2005 from 9 am to 3 pm. The Quality Inn is on the frontage road of I 35 S in San Marcos. Lunch will be provided as well as coffee in the morning. Executive Committee members are invited as well as all Chapter Officers.

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## Chapter Activities: Central Texas Section

### Multi-Chapter Activities

A tour of the Texas Advanced Computer Center (TACC) will take place on Wednesday, January 19 at the University of Texas Pickle Research Center in Austin starting at 6:00 pm. TACC provides advanced computing resources and services to enable computationally-intensive research. There will be a 20 min. introduction followed by a tour of the machine room facility. This event is jointly sponsored by three CTS Chapters: Austin Computer Society, Engineering Management and Women in Engineering. Information on TACC can be found at <http://www.tacc.utexas.edu>.

### (Joint) Circuits and Systems / Solid-State Circuits Societies

**Topic:**

**Meeting:**

**Cost:**

**Reservations:**

**Speaker:**

**Directions**

For further information, contact Gerald Garcia at [gerald.garcia@ieee.org](mailto:gerald.garcia@ieee.org)

**(Joint) Signal Processing / Communications Societies****Topic:****Meeting:****Cost:****Reservations:****Speaker:****Directions**

(Note: We are no longer meeting at the SBC's Labs, Inc., 9500 Arboretum, Dr., Austin, TX.)

**Computer Society - Austin** [[for more information](#)]**Topic:** Tour of Texas Advanced Computer Center (TACC)**Panel of Speakers:****Date:** Wed, January 19**Time:** 6p**Location:** UT – JJ Pickle Research Center**Cost:****RSVP:**

TACC provides advanced computing resources and services to enable computationally-intensive research. There will be a 20 min. introduction followed by a tour of the machine room facility. This event is jointly sponsored by three CTS Chapters: Austin Computer Society, Engineering Management and Women in Engineering. Information on TACC can be found at <http://www.tacc.utexas.edu>.

**Computer Society - San Antonio** [[for more information](#)]**Topic:** *Speaking C++ as a Native (Multi-paradigm Programming in Standard C++)*.**Meeting:** Thursday, January 20, 2005

Networking: 6:30, Dinner – 7, Program 8

**Cost:** \$10 members/ \$2 students/\$13 non-members**Reservations:** Required by Monday, January 17, 2005, to Kevin Nickels, [knickels@engr.trinity.edu](mailto:knickels@engr.trinity.edu) or (210) 999-7543..**Speaker:** Bjarne Stroustrup**Directions:** Networking, and Dinner will be in the Skyline Room, Coates Center, Trinity University, San Antonio, TX. Program will be in the Chapman Auditorium, Located in the SW corner of the Chapman Graduate Center. We will walk over to the Auditorium after the dinner in the Skyline Room

Speakers bio: Bjarne Stroustrup, Professor Texas A&M University, is the designer and original implementer of the C++ Programming Language.

There will be limited seating for the dinner so make your reservations early! Additional seats will be available for the Program, which will be in Chapman Auditorium. The meeting is open to the

public. 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#Location%20&%20Directions](http://www.ieee-cs-cts.org/meeting_details.htm#Location%20&%20Directions) for the parking by Laurie Auditorium. Hope to see you at the meeting.

To increase member awareness of the meetings we will continue sending email notices for meetings. We got your email from IEEE. If you do not wish to receive email notices of meetings you can opt out by emailing us at [optout@ieee-cs-cts.org](mailto:optout@ieee-cs-cts.org).

### **Consultant's Network** [[for more information](#)]

**Topic:** Global Positioning System (GPS) Overview - Past, Present, Future

**Meeting:** January 13, 2005,

Social/networking at 6:30 PM

Program from 7:00 PM to 8:30 PM

**Cost:**

**Reservations:**

**Speaker:** Ron Schroer, P.E.

Ron Schroer is a seasoned aerospace journalist

**Directions:** China Star Restaurant, 6134 Hwy 290E, Austin; on the westbound service lane of 290E, just east of IH35

The consultants' web directory has been updated. The directory is to be found at

<http://www.alesu.com/xltp/ieecons/listzero.htm>

Note: Darrell Word will advise us in the event of a program change.

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

**Speaker:**

**Topic:**

**Meeting:**

**Cost:**

**Reservations:**

**Directions**

### **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: www.ieee.org/texedc](#))

**Topic:**

**Meeting:** *TBD*

**Cost:**

**Reservations:**

**Speaker:**

**Directions**

For information, contact Thuy Dao, [thuybdao@ieee.org](mailto:thuybdao@ieee.org).

**Engineering Management Society** [[for more information](#)]

**Topic:** Tour of Texas Advanced Computer Center (TACC)

**Panel of Speakers:**

**Date:** Wed, January 19

**Time:** 6p

**Location:** UT – JJ Pickle Research Center

**Cost:**

**RSVP:**

TACC provides advanced computing resources and services to enable computationally-intensive research. There will be a 20 min. introduction followed by a tour of the machine room facility. This event is jointly sponsored by three CTS Chapters: Austin Computer Society, Engineering Management and Women in Engineering. Information on TACC can be found at <http://www.tacc.utexas.edu>.

**Other Upcoming Engineering Management Events:**

**February 1** (Tuesday)

**Topic:** The Effective Engineer

When does an engineer do his or her best work. Studies of industrial scientists and engineers have identified characteristics of a "creative climate" associated with greater innovative performance. We will discuss the characteristics of a creative climate, the dynamics of its relationship to performance, and the steps engineers and their managers can take to increase engineers' performance and success throughout their careers. Professor George F. Farris, Rutgers Business School, has provided materials for our discussion, led by Leslie Martinich.

**When:** Tuesday, February 1

5:45pm networking and dinner

6:45pm discussion

8:30pm meeting ends

**Where:** El Gallo Restaurant

2910 S. Congress Ave.

Austin

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

**RSVP:** [lmartinich@ieee.org](mailto:lmartinich@ieee.org)

**August 25-26, 2005:** 6<sup>th</sup> Annual IEEE/UT Engineering Management Conference

CALL FOR PAPERS (IEEE Program Chair, [sprough@austin.rice.edu](mailto:sprough@austin.rice.edu))

Deadline for papers: May 1, 2005

Notification of acceptance: June 1, 2005

Deadline for final paper version: July 1, 2005

**July 10-13, 2005:** International Professional Communications Conference (IPCC),

[www.ieeeeps.org/conference/limerick](http://www.ieeeeps.org/conference/limerick), Limerick, Ireland

**Sept 8-10, 2005:** International Engineering Management Society Conference, St. Johns,

Newfoundland

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

## Engineering in Medicine and Biology Society

**Topic:**

**Meeting:**

**Cost:**

**Reservations:**

**Speaker:**

**Directions**

For further information, please contact David G. Kilpatrick, P.E., 210-695-1406, [d.kilpatrick@ieee.org](mailto:d.kilpatrick@ieee.org).

## Graduates of the Last Decade (GOLD)

**Brand New Chapter:**

For more information, please contact Chapter Chair: Julian Anugom at [julian.anugom@conexant.com](mailto:julian.anugom@conexant.com).

**IEEE GOLD is [Connecting Young Professionals - a new presentation!](#)**

If you are an IEEE member who graduated with your first professional degree within the last ten years, you are automatically part of IEEE GOLD!

### **Value added - Discount for Graduating Student members**

IEEE Student members who graduate and are elevated to full IEEE membership, **will automatically receive a one-year discount of 50% off of the full higher grade IEEE and Society membership dues rates upon renewal.** The offer is available once to IEEE Student members upon their graduation and elevation to full higher IEEE membership. The discount is available to all IEEE Student members graduating with an undergraduate or graduate degree.

IEEE Student members who previously graduated with a Bachelors degree and received a discount upon their elevation to full IEEE member grade, would not be eligible to receive the 50% discount again if they returned to school and completed an advanced degree program.

[Renew your membership today!](#)

### **Experience the Power of GOLD!**

- IEEE technology and information
- Online research & career Resources
- Online job search
- Professional networking opportunities
- Peer connection

- Local social activities
- Leadership opportunities

### **Laser and Electro-Optics Society**

**Topic:** TBD

**Speaker:** TBD

**Date:** TBD

**Time:** TBD

**Location:** TBD

For information contact Ray Chen [raychen@uts.cc.utexas.edu](mailto:raychen@uts.cc.utexas.edu).

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

**Topic:**

**Meeting:** *TBD*

**Cost:**

**Reservations:**

**Speaker:**

**Directions**

For further information, please contact Susan Thomson or [Steve Kanetsky](#), at 512-326-3380

### **Product Safety Engineering Society**

**Topic:** Global Compliance

**Speaker:** Ted Hashke, TUV Rheinland of North America

**Date:** January 18th, 2005

**Time:** 6:30 to 8:00pm

**Location:** Crossroads Systems, 8300 N. MOPAC Frwy, in Austin, TX

#### **Future meetings**

We encourage you, others in your organization, or other interested parties to participate in our meetings every month. The PSES meets at Crossroads Systems, 8300 N. MOPAC in Austin, on the third Tuesday of every month 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](mailto:daniece_carpenter@dell.com)), Scty: Dale Ritzen ([daler@austinmfg.com](mailto:daler@austinmfg.com))

To learn more check out: [http://www.theinstitute.ieee.org/inst\\_art.jsp?isno=09031&arnumber=09031\\_9w.newssociety%C2%A7=5](http://www.theinstitute.ieee.org/inst_art.jsp?isno=09031&arnumber=09031_9w.newssociety%C2%A7=5)

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

**Next Meeting:** Wednesday, January 19, 2005

**Program:** Tour of the Texas Advanced Computer Center (TACC)

**Place:** Commons Building of the University of Texas Pickle Research Center, Austin

**Time:** 6:00 pm to 8:00 pm

**Event Sponsorship:** This will be a joint event between the Austin Computer Society, Engineering Management and Women in Engineering Chapters. Additional details and directions to the center are posted on the WIE website at [http://ewh.ieee.org/r5/central\\_texas/wie](http://ewh.ieee.org/r5/central_texas/wie).

### IEEE Central Texas Section Student Branches

For information on events, click on the [for more information] links below:

**St. Mary's University – San Antonio** [[for more information](#)]

#### Trinity University – San Antonio

Contact Faculty Advisor: Farzan Aminian, Email: [farzan@engr.trinity.edu](mailto:farzan@engr.trinity.edu)

Branch President: Brandi House, Email: [Brandi.House@Trinity.edu](mailto:Brandi.House@Trinity.edu)

**University of Texas at Austin** [[for more information](#)]

**University of Texas at San Antonio** [[for more information](#)]

## Upcoming Local Conferences

**E-week: Feb 21**

**(San Antonio area info) – Austin?**

Banquet will be at the Gunter Hotel.

Luncheon – San Francisco Steak House

More details to follow!

### 2005 IEEE Applied Power Electronics Conference and Exposition - APEC 2005

**(#10091)" – Austin**

IEEE Industry Applications Society & Power Electronics Society will sponsor the conference entitled "2005 IEEE Applied Power Electronics Conference and Exposition - APEC 2005 (#10091)". This conference will be held **March 6-10, 2005** in Austin, TX. For further information, please contact: Mr. Jason Lai, +1 540 231 4741, +1 540 231 3362 (Fax), [lajjs@vt.edu](mailto:lajjs@vt.edu), or Conference Services Dept., at IEEE Operations Center at +1 732 562 3878

**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://home.businesswire.com/portal/site/google/index.jsp?](http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040521005032&newsLang=en)

[ndmViewId=news\\_view&newsId=20040521005032&newsLang=en](http://home.businesswire.com/portal/site/google/index.jsp?ndmViewId=news_view&newsId=20040521005032&newsLang=en)

## Other Important Events and Notes of Interest

### 2005 IEEE REGION 5 Technical, Professional and Student Development Workshop

**(TPS).** April 7 – 8, 2005, Coors Center, University of Colorado, Boulder, Colorado <http://r5.ieee-denver.org>. The 2005 Technical, Professional and Student (TPS) Development Workshop will provide a forum for interdisciplinary interaction and exchange on new technologies, new paradigms and ideas, and a program of events that will help in our technical and professional development. TPS will have a balanced program of technical advances, tutorials, and professional development events. On-site meal

breaks will provide an opportunity to network with leading engineers, managers, executives, and other professionals.

In addition to technical paper sessions, this event will include in-depth tutorials on RF Engineering, Power Engineering, Six Sigma for Competitive Advantage, Intellectual Property, NARTE Certification Preparation, Career Planning and Management, and other topics.

Conference Contacts:

Technical Program Chair: Dr. Bill Newhall, Ball Aerospace & Technologies Corp., [wnewhall@ball.com](mailto:wnewhall@ball.com)  
General Chair: Dr. Pankaj Goyal, MicroMega, [chair@r5.ieee-denver.org](mailto:chair@r5.ieee-denver.org)

TPS 2005 (April 7-8, 2005) will be held in conjunction with the IEEE Region 5 Leadership Workshop (April 9-10, 2005).

## **Opportunities for the new CEU requirements for PEs** **UT's ENGINEERING FOR BUILDING SURETY SYMPOSIUM**

*Professional Engineer Development Series*

February 18-19, 2005

CEUs: 1.5 - including 1 hour of ethics!

[www.UTclee.org](http://www.UTclee.org)

Rising concerns about countering terrorism and other threats to structures have placed the engineering community in an uncertain role of preparedness and response. Proven research has shown that the best way to ensure a structure's safety to external and internal threats is through a systematic approach to the building process. On February 18-19, 2005, UT will host its first-ever Engineering for Building Surety Symposium, a Professional Engineer Development Series offering, where academia and industry will discuss the different levels and engineering solutions involved in an ideal systematic approach. Engineers will walk away with an **immediately applicable understanding** of how to leverage the systematic approach to ensure the prevention and preparedness of a structure. Issues that will be addressed include: construction site layout and design; chemical, biological, and/or radiological threats; ventilation and infection control; structural blast loads; best practices for planning & execution of projects; power grid evaluation; and sensing & detection. **Register by January 15 for a discounted fee** (\$550 if registered by 1/15/05; \$650 after 1/15/05). For Engineering for Building Surety Symposium or Professional Engineer Development Series details, please visit [www.UTclee.org](http://www.UTclee.org) or e-mail Brad Armstrong at [brad.armstrong@engr.utexas.edu](mailto:brad.armstrong@engr.utexas.edu).

## **ENGINEERING ETHICS SHORT COURSES**

*one-hour ethics courses are held in Austin, Texas*

CEUs: 0.1

[www.UTclee.org](http://www.UTclee.org)

March 3, 2005

June 2, 2005

September 1, 2005

November 3, 2005

*Editor's Note:* There were more listed, but they were later in the year – check the website to get more details of those later in the year - dr

## ***More IEEE Information:***

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

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## **Central Texas Section 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](mailto:robersondj@ieee.org) if you have any thoughts or suggestions. The deadline for submission is the 25th of the month.

## **Email List**

The purpose of this Email list is to send notices of general interest to our Section IEEE members.

If you chose not to receive these messages, please send an Email to: [Majordomo@majordomo.ieee.org](mailto:Majordomo@majordomo.ieee.org). Include in the body of the Email the following message "Unsubscribe cts-section".

If you chose to subscribe, please send an Email to: [Majordomo@majordomo.ieee.org](mailto:Majordomo@majordomo.ieee.org) with "Subscribe cts-section" in the body of the Email message.

John R. Purvis III, P.E.

Technical Team Lead

IBM Global Services - South Server Services Austin

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Sametime: [jrpurvis@us.ibm.com](mailto:jrpurvis@us.ibm.com)

AIM: jrpurvis3, MSN=jrpurvis3

The purpose of this Email list is to send notices of general interest to our Section IEEE members.

If you chose not to receive these messages, please; 1. Address an e-mail message to [listserv@listserv.ieee.org](mailto:listserv@listserv.ieee.org) 2. Put the following in the body of the message: signoff cts-section 3. Do not include your name or e-mail address in the body of the signoff message. The message should be sent from the mail client you use to subscribe to the list