IEEE Central Texas Section

ANALOG NEWSLETTER

Volume 51-2   **February 2007**

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). Have a question or comment? Contact us.

Central Texas Section Webpage

Central Texas Section calendar

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4. Local Conferences

IEEE 2007 Workshop on Applications of Computer Vision, Visual Motion, and Evaluation of Tracking Systems will be held 20-23 Feb in Austin. No website, but the conference organizer is listed as JK Aggarwal at aggarwaljk@mail.utexas.edu.

14th Intl IEEE Test Synthesis Workshop (ITSW 2007) IEEE Computer Society's Test Technology Technical Council (TTTC) and will be held March 5-7 at the El Tropicana Riverwalk Hotel in San Antonio March 5-7. Conference website.

2007 International Workshop on System Level Interconnect Prediction (SLIP) will be held at the Lakeway Resort and Spa in Austin on 17-18 March 2007. http://www.sliponline.org/

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4. Local Conferences

- IEEE 2007 Workshop on Applications of Computer Vision, Visual Motion, and Evaluation of Tracking Systems
- 14th Intl Test Synthesis Workshop (ITSW 2007)
- 2007 Intl Workshop on System Level Interconnect Prediction (SLIP)
- ACM Intl Symposium on Physical Design (ISPD)
- IEEE Intl Conference on RFID 2007
- 2007 IEEE International Conference on System of Systems Engineering (SoSE)
- 2007 IEEE International Conference on IC Design & Technology (ICICDT)
- IEEE Int'l Symposium on Consumer Electronics (ISCE 2007)
- 2007 IEEE International Engineering Management Conference - EM 2007 (IEMC)
- IEEE Intl Conference on Image Processing 2007 (ICIP)

5. Presentations of Interest

Physical Design (ISPD) on March 18-21 at Dolce Lakeway Resort and Spa in Austin. Conference website

IEEE Intl Conference on Radio Frequency Identification Technologies (RFID) 2007. March 28-29 2007 in Grapevine, TX. Conference website: www.ieee-rfid.org/2007

2007 IEEE International Conference on System of Systems Engineering (SoSE) will be held April 16-18, 2007 in the Holiday Inn Riverwalk in San Antonio, TX .
http://engineering.utsa.edu/2007ieeesose

2007 IEEE International Conference on IC Design & Technology (ICICDT) will be held 30 May - 1 Jun in Austin.
http://www.icicdt.org/

IEEE Int'l Symposium on Consumer Electronics (ISCE 2007) will be held June 20-23 in Dallas at the Westin DFW Airport. Abstracts for paper

1. Section Activities

Chairman's Column

Section and Chapter leaders are feverishly preparing for the Central Texas Section Spring Planning meeting. The meeting will be held on February 3 in San Marcos, TX. The eVite with the agenda is at:
http://www.evite.com/pages/invite/viewInvite.jsp?event=IIICLWQLSCLKRENMAXPS&inviteId=ALXMF

Please make your plans to attend and share your ideas.

The focus for 2007 is member value. As I wrote last month, we were able to accomplish a great deal for the members in 2006. Those members who participate in those accomplishments got the most out of the membership. Consequently, in 2007, I will be focused on getting our members involved in Section and Chapter activities to maximize their value for their time and membership dollars spent.   In particular, I am looking for volunteers interested in working with K-12, Analog Editor, Treasurer, and GOLD.   Please contact me if you have an interest. I am sure that your will find the experience will be rewarding.

Be sure to consult the Central Texas Section Website, http://www.ewh.ieee.org/r5/central_texas/ for meetings, conference dates and news.   There is a wealth of opportunities available.

Thanks to all who volunteer their time and skill to the Central Texas Section of IEEE.

Clif Denny
Chairman
Central Texas Section

c.denny@ieee.org
Senior Member IEEE
Central Texas Section Chair

Chapter News

The *Engineering Management Society* wants to start a San Antonio affiliate group. If you are interested, please contact Nils Smith.

submissions are due Feb 2. Conference website.

2007 IEEE International Engineering Management Conference - EM 2007 (IEMC) will be held 29 Jul - 1 Aug at the Hyatt Lost Pines Resort and Spa in Lost Pines. http://www.iemc07.org

IEEE Intl Conference on Image Processing 2007 (ICIP) will be held Sept 16-19 in San Antonio. The Call for Papers can be found on the conference website.

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5. Presentations of Interest

IEEE Activities and Links
Your IEEE
Calls for Papers
IEEE Xplore
What's New at IEEE
IEEE Standards Association
About the IEEE
The Spectrum

E-week is February 18-24, 2007. I hope you are proud of your profession - take the time to share it with others, and show that engineers are really neat folks and very important to our society! Austin has an active E-week scheduled - check out www.centexeweek.org for Austin area details and to volunteer to participate. San Antonio has numerous activities, such as a Proclamation Breakfast, numerous luncheons, a golf tournament and a sporting clays event, in addition to the Engineer of the Year Banquet. Contact Ed Pruske for details.

Continuing Education

NEED CEUs? The University of Texas at Austin offers a wide array of continuing engineering education opportunities geared towards Texas engineers. All of the training awards continuing education units (CEUs) which Texas PEs are now required to submit for their annual renewal. We event boast CEU Conferences where you can get all required 1.5 CEUs – including 1 hour of engineering ethics – in just a few days! Visit www.UTclee.org for more information.
Upcoming opportunities include:
Software Project Management Certificate Program (online or onsite) • ongoing

Student Branches

The spring semester is off to a chilly but exciting start. Students are finalizing their papers for the section undergraduate paper contest. The top selections progress to the Region 5 conference competition in April. Teams from our branch schools are also working to complete their robots for the robotics competition there as well.

St Mary's University - San Antonio (for more information)
Faculty Advisor: Djaffer Ibaroudene, Email: dibaroudene@stmarytx.edu
Branch President: Joshua Cavazos , email: jcavazos1@stmarytx.edu

Trinity University - San Antonio
 Faculty Advisor: Farzan Aminian, Email: farzan@engr.trinity.edu
Branch President: Will Johnson, email: William.johnson@trinity.edu

University of Texas at Austin (for more information)
Faculty Adivsor: Sriram Vishwanath, email: sriram@ece.utexas.edu
Branch chair: Rossen Tzartzev, email: chair@ieee.utexas.edu

login to myIEEE
login
(IEEE Web Account Required)

IEEE★USA

University of Texas at San Antonio (for more information)
Faculty Advisor: Yufang Jin, Email: Yufang.Jin@utsa.edu
Branch chair: Nickolas Grady, gradyn@hotmail.com

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Calls for Volunteers

Volunteers Needed for DISCOVER ENGINEERING (EWeek 2007)

In 2006, volunteers from Austin and surrounding communities helped reach more than 18,000 students at 89 schools with 450 volunteers, plus another 8000 students through science fairs, science nights and other community events. It was a terrific year and we need your help to make 2007 even better!

We have over 90 schools requesting a visit this year. In order to cover all of these schools we need volunteers....and LOTS of them! **If you are interested in participating, please go to our local website and register as a volunteer.** The time commitment for this invaluable program is very small but the benefits are tremendous. It truly is an exciting process to inspire a student and to improve our education system, all with just a few classroom visits or participation in a community event. You can make a difference.

School visits will begin during EWeek (February 18-24) and continue through the end of the school year so there is plenty of flexibility.

Encourage your friends and coworkers to get involved and show children that engineering is fun. Please visit our local website for additional information or email us at texeweek@us.ibm.com.

Please join us and help make a difference!

Online mentors

The IEEE Mentoring Connection Program is looking for "online" mentors to help guide younger professionals in career planning and professional development. Currently, 489 mentees and 264 mentors have registered. Mentor participation is open to all higher grade IEEE members.

The program enables mentees to select their mentoring partner online from a list of individuals who have

volunteered to serve as mentors. After mentors are identified as a potential match, they are contacted and asked to begin establishing a relationship.

Interested members can visit http://www.ieee.org/mentoring for information on the roles and responsibilities of each mentoring partner, including additional program information and an FAQ page. Potential mentors are asked to review the time and effort commitment to the program necessary to ensure a successful mentoring partnership.

For more information, contact Cathy Downer, Regional Activities, at c.downer@ieee.org.

IEEE POTENTIALS Magazine Call For Papers

Potentials Magazine, the IEEE periodical dedicated to serving the needs of students and entry-level engineers, is looking for authors. All IEEE members have access to Potentials through IEEEXplore.

Manuscripts can deal with theory, practical applications or new research. They can be tutorial in nature. Equations should be kept to a minimum. Articles without equations are preferred.

No more than 12 references should be listed at the end of a manuscript. There should not be any embedded reference numbers. If it is necessary to cite authors for key points or quotes, their names can be stated in the text and a full reference given at the end.

Graphs and diagrams must reproduce well at published size. This means a minimum of 300 dpi for jpeg-, tiff- or eps-formatted figures at published size. Figures should be limited to ten or less. Articles should be 2,000 – 4,000 words in length. Four to six lines about the author and co-authors may be included.

For author guidelines, visit http://www.ieee.org/potentials. Articles can be submitted at http://mc.manuscriptcentral.com/pot-ieee.

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2. Chapter Activities

Multiple Chapters

Joint Meeting - Systems, Man and Cybernetics, Computer Society - San Antonio, and Engineering in

Joint Meeting – Systems, Man and Cybernetics, Computer Society – San Antonio, and Engineering in Medicine and Biology

Topic or Presentation Title: *How to Advance Your Career Through Your Primary Professional Society*
Speaker: Dr James M Tien, NAE, Yamaha Corporation Professor, Rensselaer Polytechnic Institute
Date and Time: Thursday, February 1, 2007 6:30PM
Cost: $10 IEEE members, $13 non-members, $2 students.
Reservations: RSVP to Yufei Huang (Yufei.Huang@utsa.edu) or call (210) 458-6270 (so we have a head count for dinner).
Meeting Location: Room 2.01.02, Biotechnology, Science, and Engineering (BSE) building, at UTSA, San Antonio. Parking instructions and campus maps are available from this website:
  http://www.ewh.ieee.org/r5/central_texas/embs/

Abstract: As a professional in industry, government and/or academia, your career can be significantly enhanced and advanced through the support provided by your primary professional society. In particular, you must consider it as a critical resource for advancing your knowledge, your professional record, your education, and your career choices. As a learned society, your primary professional outlet should serve as your global resource of choice. Indeed, the Institute of Electrical and Electronics Engineers (IEEE) has been the presenter's global resource of choice since the early nineteen sixties when he began pursuing a bachelor's degree in electrical engineering. It has been a venue for his industrial and academic activities, as an educator, a scholar, a professional and an entrepreneur. And it has served as both a reference tool and a dissemination vehicle for his various activities. Moreover, it has been an outlet for his volunteer activities, in support of his profession; since 1983, the presenter has served on and chaired a number of IEEE committees and Boards. The IEEE, for example, can be your resource of choice whether you are an electrical engineer, a computer scientist, a biomedical engineer, a systems engineer, or an allied professional within the scope of IEEE's 40 plus societies. Although the more professional societies that you are involved in can only help to strengthen your knowledge base and potential, it may detract from your ability to focus on advancing your career.

Speaker: Dr. James M. Tien received the BEE from Rensselaer Polytechnic Institute and the SM, EE and PhD from the Massachusetts Institute of Technology. He has held leadership positions at Bell Telephone Laboratories, at the Rand Corporation, and at Structured Decisions Corporation (which he co-founded in 1974). He joined the Department of Electrical, Computer and Systems Engineering at Rensselaer in 1977, became Acting Chair of the department, joined a unique interdisciplinary Department of Decision Sciences and Engineering Systems as its founding Chair, and twice served as the Acting Dean of Engineering. Dr. Tien's areas of research interest include the development and application of computer and systems analysis techniques to information and decision systems. He has published extensively, been invited to present many plenary lectures, and been honored with both teaching and research awards, including being elected a Fellow in IEEE, INFORMS and AAAS and being a recipient of the IEEE Joseph G. Wohl Outstanding Career Award, the IEEE Major Educational Innovation Award, and the IEEE Norbert Wiener Award, and the IBM Faculty Award. Dr. Tien is also an elected member of the U. S. National Academy of Engineering.

Joint Circuits and Systems/Solid-State Circuits

Topic or Presentation Title:
Speaker:
Date and Time: Tuesday 6:30PM
Cost:
Reservations:
Meeting Location: Pok-e-Jos on 5th St just east of Mopac

Anyone interested in becoming a Chapter Officer, participating as a Volunteer,
or desires to participate in the planning of 2007 CTS CAS/SSC Chapter activities should attend.

If you have interest in becoming an officer should contact seningen@ieee.org prior to the the Jan 9th meeting.
For further information, contact Mike Seningen at seningen@ieee.org or Carol Jens at c.jens@ieee.org.

Computer Society - Austin [for more information] *Special Day!*

Topic or Presentation Title: *Scrum for Video Game Development*
Speaker: Mike Cohn, Mountain Goat Software
Date and Time: Tuesday, 6 Feb 2007, 6:30-8:30p
Cost: Free
Meeting Location: National Instruments, 11500 North MoPac, Building C, room 1S13, 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: TBD
Speaker:
Date and Time: Thursday, February 15
          6:30 p.m. - Networking; 7:00 p.m. - Dinner; 8 p.m. - presentation
Cost: $10 members, $2 students $13 non-members

Reservations: Email Yu Zhang by Mon, Feb 12, (210) 999-7399
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.

In addition to this meeting, we are participating in the *Joint Meeting - Systems, Man and Cybernetics, Computer Society - San Antonio, and Engineering in Medicine and Biology*

More information on the program is available at our Web site http://www.ieee-cs-cts.org .

Consultants Network *[for more information]*

Topic: *VoIP Attacks!*
Speaker: I)ruid
Date and Time: Thursday, February 22, 2007
   Networking at 6:00 pm, Business and program from 7:00 pm to 8:30 pm
Cost: $5.00 minimum charge for the restaurant.. Supper is at optional extra cost
Reservations: Not required
Meeting Location: China Star Restaurant, 6134 Hwy 290 E, Austin TX
Directions: Westbound access road of 290E, just east of IH 35

The topic: An overview of *Voice-over-IP*, discussion of currently relevant attacks against VoIP systems categorized into attacks against availability, integrity, confidentiality, and vendor-specific attacks. Then why the target system is vulnerable to each attack, how the attack works, the effect a successful attack has on the target system, tools publicly available to perform the attack, and what mitigation steps can be taken to prevent them. Finally, what problems mitigation "solutions" have, and issues that may arise when using mitigation techniques.

The speaker: I)ruid founded the *Computer Academic Underground* and has over a decade of experience in the hacker underground and its community. He regularly releases vulnerability and exploit advisories, speaks at security related events and conferences, and edits the globally acclaimed *CAU e-Zine*. He has released numerous tools to the community such as the infamous *PageIt!* mass-paging tool and the *hcraft HTTP* exploit-crafting tool.

The Consultants web directory is to be found at http://www.alesu.com/xltrp/ieeecons/listzero.htm

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_ _ *Electromagnetic Compatibility Society* *[for more information]*

Topic or Presentation Title: No meeting in February
Speaker:
Date and Time:
Cost:
Reservations:
Meeting Location:
Map:

Neither IEEE nor EMC membership is required and all visitors are invited to attend. For additional information, including map to the meeting location, please see our web site at http://ewh.ieee.org/soc/emcs/chapters/centraltexas/index.html

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_ _ *Electron Devices Society* *[for more information]*

Topic or Presentation Title: *10 ns Pulsed IV Characterization of SOI and High-k Transistors*
Speaker: Bill Verzi, Senior Member of Technical Staff Semiconductor   Process and Device Evaluation, Agilent Technologies
Date and Time: Thursday, Feb 22, 6p-7:30p (Refreshments: 6:00-6:30pm)
Meeting Location: SEMATECH Room F-C
Directions: http://www.sematech.org/corporate/map.htm
Please RSVP to wade.xiong@atdf.com . We need accurate count to purchase refreshments.

_ _ *Engineering in Medicine and Biology* {*for more information*]

Topic or Presentation Title: *Welcome to My World - Prosthetics and Orthotics*
(Rescheduled from January)
Speaker: Gordon Bosker, CPO and Bill Rogers
Date and Time: Wed, February 21
6:30 p.m. - Networking; 7:00 p.m. - Dinner; 8:00 p.m. - Program

Cost: $10 members/ free for students/$15 non-members
Reservations: RSVP to Garrett Polhamus
Meeting Location: BSE 2.102 on the UTSA Campus, San Antonio
Directions: From I-10, take the UTSA Blvd exit, and head west. Turn at the second traffic light onto the UTSA campus, and take the 1st right and follow it to the last parking lot. The Biotechnology, Sciences and Engineering Building is the newest building on campus, and is the building on your left. The conference room is on the second floor.

In addition to this meeting, we are participating in the *Joint Meeting - Systems, Man and Cybernetics, Computer Society - San Antonio, and Engineering in Medicine and Biology*

For further information, please contact Dawn Roberson, 210-458-5520.

Engineering Management   *[for more information]*

Topic or Presentation Title: Panel discussion: "*Building and Maintaining Morale in your Engineering Team*"
Date and Time: Tuesday, February 13 at 5:45p
Location: El Gallo Restaurant, 2910 S. Congress
Cost: $15 includes dinner (at the door)
RSVP: lmartinich@ieee.org
For more info: http://www.ewh.ieee.org/r5/central_texas/ems/

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: Kristi Hummel, **khummel@ieee.org**
Meeting Location:
Directions:

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

Power Engineering Society - Austin   _[for more information]_
Topic or Presentation Title: _Partial Discharge_
Speaker: Gabe Paoletti, P.E., Eaton Engineering Services and Solutions
Date and Time: Tuesday, February 27 with the social beginning at 6pm
Cost: $12 IEEE Members, $15 non-IEEE members, free for full-time students
Reservations: Please RSVP to Stan Friend or go to our web site at
http://www.ewh.ieee.org/soc/pes/centraltexas/index.htm.
Meeting Location: El Gallo Mexican Restaurant at 2910 S Congress
Directions:
Abstract: Formal title: _Medium Voltage Switchgear: Failure Modes, Case Studies, and Predictive Opportunities via the Use of Partial Discharge Monitoring_. Electrical preventative and predictive maintenance are important aspects in assuring the reliability and integrity of electrical distribution systems. However, one of the most overlooked maintenance items in operating facilities today is the medium voltage switchgear. Typically maintenance is focused on the breaker compartments, the cable compartments, the circuit breakers and the protective relays. By far the most under-maintained component in plant electrical distribution systems is the main bus insulation system of medium voltage switchgear. This presentation will review the current IEEE available failure data related to MV equipment and case studies of failure modes as well as preventive measures by the use of partial discharge technology and monitoring. Example of applying partial discharge technology to MV motors and generators will also be presented.

For further information, please contact Stan Friend

Power Engineering Society - San Antonio *[for more information]*
Topic or Presentation Title: *Fiber Optics*
Speaker: Jim Massey, Phoenix Contact
Date and Time: Thursday, February 22
    6:00 Social, 6:30 Dinner, 7:30 Program
Cost: $13 w/RSVP, $15 at door, FREE for students
(Cash only please, no checks or credit cards)
Reservations: Please RSVP to Steven Mouser @ 210-658-7250, or s.mouser@ieee.org For more information go to our web site at http://ewh.ieee.org/soc/pes/centraltexas/sanantonio/index.html

As always you do not have to be an IEEE member to attend.
For more information go to our web site at http://ewh.ieee.org/soc/pes/centraltexas/sanantonio
Meeting Location: Blue Star Brewery, 1414 South Alamo Street, San Antonio, TX 78210-1117, 210-212-5506
Directions: Available on our website.

Product Safety Engineering Society [for more information]

Topic or Presentation Title:
Speaker:
Date and Time: Tuesday,   6:30pm
Cost: None
Reservations: None
Meeting Location: Dell, Parmer Campus, Parmer South Building 4, Victoria Conference Room.
Directions: Call Dale Ritzen (512) 651-5338 for details and directions.

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 6:30, with the program starting at 7pm. Instead of a regular meeting in November or 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).

__Joint Signal Processing/Communications Society [for more information]

Topic or Presentation Title: *Processing Trends for IP-based Networking Equipment*
Speaker: PSam Fuller, Vice-President of Marketing for AMCC
Date and Time: Thursday, February 15, 2007 at 7pm
Cost: Free; Sandwiches and soft drinks will be served
Reservations: RSVP to Steve Crowl stevenc@stedwards.edu
Meeting Location: AT&T (formerly SBC) Labs - 9505 Arboretum Blvd, Austin, TX 78759
Directions:
 http://maps.yahoo.com/maps_result?newFL=Use+Address+Below&addr=9505+arboretum+blvd&csz=7875

Topic and Speaker info: The talk will cover the history of network and general purpose processing in networking equipment and then examine hardware and software technology trends and their likely impact on the kinds of processing devices that will be selected for use in wired and wireless IP-based networking equipment.

PSam Fuller, Vice-President of Marketing for AMCC, a leading vendor of optical PHY, network processing and embedded PowerPC processing Technology. Previous to joining AMCC, Mr. Fuller served as the chairman and president of the RapidIO Trade Association and wrote the leading reference book on RapidIO technology. Mr. Fuller was also Director of Engineering for Motorola's Networking and Communications Systems Division. Where he was responsible for the technology direction and architecture teams for Motorola's market leading line of integrated communications processors. Previous to this he managed the PowerPC™ system architecture and planning for Motorola's Somerset Design Center. Mr. Fuller holds bachelors and masters degrees in electrical engineering from Brigham Young University and an MBA from the University of Texas.

March 22 meeting (rescheduled from January): "Mathematics of Reliability Analysis on Communications Networks," Paul Kaschube, PMTS, AT&T Labs.

__Women in Engineering [for more information]

Topic or Presentation Title:

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

Women in Engineering has been an Affinity Group of the Central Texas Section since the Fall of 2002.

Additional information is on the WIE website at http://www.austin-wie.org..

Editor's Notes

The goal of this newsletter is to provide the more than 6500 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.

To add your name to the list who get the Analog, send an email from the address to be added to listserv@listserv.ieee.org. Put only the following text in the body of the message: subscribe cts-section.

If you no longer wish to receive the Analog, follow the directions as listed above, but instead of subscribe, put 'unsubscribe cts-section'.

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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.

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

Engineers Without Borders --USA Student Recognitions

In 2007, for the second time, IEEE-USA is sponsoring five $1,000 recognition awards for college students who distinguish themselves in volunteer reconstruction efforts for Engineers Without Borders (EWB)-USA, the non-profit humanitarian organization. The achievement awards will be presented at the EWB-USA international conference, 12-14 April 2007, at the University of Massachusetts, Amherst.

For details, go to http://www.ewb-usa.com/index.php.

IEEE Foundation Seeking 2007 Grant Applications

The IEEE Foundation is seeking grant applications for 2007 projects in accordance with its objective to improve the technological literacy of society from childhood through adulthood.

During 2007, unsolicited applications will be accepted in three cycles from IEEE units and other organizations working in areas of relevance and importance to the IEEE and its membership. Projects should achieve one or more of the following objectives:

* Improve primary and secondary science, technology, and math learning
* Encourage pre-university students to consider engineering as a career path
* Increase the public's understanding of the role of engineers and technology in society
* Preserve the history of IEEE associated technologies
* Tap the technological expertise of IEEE members
* Demonstrate ability to be replicated

* Demonstrate ability to be replicated

Applications are considered twice during the year. The application deadlines are: (1) 13 April 2007 for consideration at the June 2007 IEEE Foundation Board meeting; or (2) 7 September 2007 for consideration at the November 2007 IEEE Foundation Board meeting.

To learn more about the IEEE Foundation's grant guidelines, and to submit an online application, visit <http://www.ieeefoundation.org>.

The Institute seeks Section, Region and Society News

The IEEE Institute member newspaper is seeking more Section, Region and Society news items in an effort to broaden its coverage and help these entities publicize their activities.

Appropriate subjects include:
* Recognitions that members receive such as promotions, appointments, awards, or honors from their community or government.
* Recognition that members receive from an IEEE entity, such as an award
* Interesting jobs or hobbies for member profile pieces.
* News about IEEE student members, student branches, student activities, and competitions.
* New products, services, or activities that the Society, Section, Region or Student Branch is offering.
* Successful social or technical events or meetings.
* Obituaries on members.
Send the basic "who, what, when, where, and how," and the Institute editors will be in contact if more information is needed.

The editors are also looking for suggestions for topics to write about, whether it's IEEE related or something about the engineering field.
Email your news to: theinstitute@ieee.org.

Wanted: Fellow Nominations From Industry

If you know an IEEE Senior Member working in industry who has made extraordinary contributions in applying technology in the IEEE's fields of interest, consider nominating that person as a Fellow, the institute's highest membership grade. The deadline to nominate someone for the class of 2008 is 1 March 2007. Read more at http://bmsmail3.ieee.org:80/u/4260/00757617

IEEE-USA Offers Resources to Assist Tech-Based Entrepreneurs

The new IEEE-USA Entrepreneurs Village is an online portal designed to provide high-tech entrepreneurs with tools and resources conducive to innovation and company growth. The portal links high-tech entrepreneurs with their peers, and prospective entrepreneurs with mentors. Village members can seek advice and information on such topics as organization, funding, marketing, human resources, asset requirements, growth, best practices, and legal and government issues. A search engine will assist you in finding the right match for your needs. Experienced entrepreneurs are encouraged to become mentors.

To read the related news release, visit: http://boldfish.ieee.org:80/u/2682/135523

Visit the Village at: http://boldfish.ieee.org:80/u/2683/135523.

Fourth Annual IEEE-USA Career Fly-In

March 13 – 14, 2007

Who: All IEEE members in the United States (no experience necessary).
Where: Washington, D.C.
What: A golden opportunity to speak up on behalf of your profession.

In 2006 Congress debated major changes to our nation's immigration laws. Part of that debate included a major expansion of the H-1B program and other changes to the high-skill immigration system. But because these programs are small, relative to the broader immigration system, Congress never focused on these provisions and almost passed them without much debate.

IEEE-USA needs your help to make sure that doesn't happen again.

All IEEE members in the United States are invited to join IEEE-USA for a day and a half visit in our nation's capitol. Participants will receive a comprehensive briefing on the current high-skill immigration debate in Congress, the political situation we face, and what can be done about it. Then, on March 14th, participants will be able to express their concerns in private meetings with their elected officials.

Before Congress can intelligently formulate high-skill immigration policy, they have to focus on it.

Legislators and staff are never more focused than when they are meeting with their voters. It sends a very strong message to politicians when their voters take the time to travel to Washington.

Help IEEE-USA fight for intelligent immigration reform by joining us in Washington on March 13 and 14th.

More information, including registration, can be found here:
http://www.ieeeusa.org/policy/flyin/career/default.asp

In politics, numbers matter. We need as many engineers as possible to help us grab Congress' attention. High-skill immigration has a profound impact on the engineering profession. Your Members of Congress need you to explain this to them.

Ready to Learn With Online Tutorials

The problem: you have to get up to speed quickly on, say, the python programming language. The solution: start with the new ReadyNotes online tutorials from the IEEE Computer Society. Seven tutorials are out so far, and the one-stop guides provide practical nuts-and-bolts instruction across a range of topics geared to software developers, IT professionals, computing instructors, and students. Read more at
http://boldfish.ieee.org:80/u/2598/00757617

IEEE Teams with IBM to Launch TRYENGINEERING.ORG

IEEE and IBM have collaborated to launch a new website that combines interactive activities with information on careers in engineering. TryEngineering.org is designed to educate a variety of audiences about the different engineering disciplines and the impact engineers have on society. Targeted toward teachers, school counselors, parents and students, TryEngineering.org lets site visitors explore how to prepare for an engineering career, ask designated experts engineer-related questions and play interactive games. Tools for teachers include lesson plans and engineering projects as well as a list of student competitions and science and engineering-oriented summer camps.

The site will be launched on 5 June with a searchable list of accredited engineering programs in the U.S. and Canada, and will be expanded to include programs in other English-speaking countries as well as Germany and France. For more information contact Doug Gorham, Educational Activities, at d.g.gorham@ieee.org or +1 732 562 5483 or Allison Ickowicz at a.m.ickowicz@ieee.org or +1 732 562 5496.

Is Digital Copyright Legislation Going Too Far?

Is Digital Copyright Legislation Going Too Far?

Tinkerers and electronic consumers beware. Legislation involving new electronic recording devices and digital, audio, or video playback technology severely compromise electronics industry innovation. According to IEEE Spectrum's Tekla Perry, "The Digital Millennium Copyright Act was the first federal law passed that directly attacks the fair use rights of consumers and product developers. But more such laws are in the pipeline." Tune into IEEE Spectrum Online's exclusive radio report at http://bmsmail3.ieee.org:80/u/3497/00757617

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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