



Dallas Section

Direction

Volume 51, Number 2

October 2007

Executive Committee

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burnham@utdallas.edu

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Biron Timothy Pickens (972) 824-8284

WWW Coordinator

Robert Shapiro (214) 448-4818

Life Member Affiliate Officer

Bob Bishop (940) 898-2166

Chapter News

Annual Election of IEEE Dallas Section Officers

We are approaching the time of annual election of IEEE Dallas Section Officers. We are looking for nominations for the positions listed below. Self nominations are also considered. Please send the nominations with supporting information including nominee's IEEE service experience, biography and mission statement for the position to IEEE Dallas Section Nomination Committee Chair Kaijian Shi (Kaijian.Shi@synopsys.com).

List of Section Officers:

Chair
Admin Chair
Secretary

Vice Chair
Treasurer
Activities Chair



DALLAS SECTION OCTOBER 2007 MEETING

For more information contact at Bob Shapiro rcs Shapiro@comcast.net or (214) 448-4818

Aerospace And Electronics Systems (AES)

Chair Tim Reichard (972) 344-7512

Antennas & Propagation (AP)

Chair Dr. Choon Sae Lee (214) 768-3257

Circuits & Systems (CAS)

Chair Liming XIU (214) 480-4930

Communications & Technology (CVT)

Chair Steven Simmons (972) 250-1289

Computer (C)

Chair Don Shaver (214) 480-4349

Consultants Network (CN)

Chair Jerry Bylander (903) 893-6437

Consumer Electronics (CE)

Chair Sam Broyles (214) 480-3232

Computational Intelligence (CI)

Chair Robert J. Marks II (254) 710-7302

Education (E)

Chair William M. Riley (214) 478-4065

Electromagnetic Compatibility (EMC)

Chair William E. Paschetag (972) 530-7853

Electron Devices (ED)

Chair Zeynep Celik-Butler (817) 272-1309

Engineering Management (EM)

Chair Bob Bishop (903) 482-5320

Engineering in Medicine and Biology (EMBS)

Chair Shekar Rao (214) 480-1756

Laser & Electro-Optics (LEO)

Chair Duncan MacFarlane (972) 883-2165

Microwave Theory & Techniques (MTT)

Chair Robert Eye (972) 994-5818

Power Electronics (PELS)

Chair Don Marabell (469) 330-9100 x230

Reliability (RL)

Chair Lon Chase (972) 952-3138

Signal Processing (SP)

Chair Nasser Kehtarnavaz (972) 883-6838

Solid State Circuits (SSC)

Chair Xiaopeng Li (214) 480-4172

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## Aerospace & Electronic Systems

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For monthly meeting notices and other information please visit the IEEE AESS Dallas Chapter web site at:  
<http://ewh.ieee.org/r5/dallas/aes>

For information, please contact Tim D. Reichard (972) 344-7512  
[Tim\\_D\\_Reichard@raytheon.com](mailto:Tim_D_Reichard@raytheon.com), Jared Ellington [jellington@ieee.org](mailto:jellington@ieee.org), or Mark Gober  
 (903) 457-5122 [Mark.D.Gober@L-3Com.com](mailto:Mark.D.Gober@L-3Com.com)

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## Antennas & Propagation

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For more information, please contact:  
 Dr. Choon Sae Lee, AP Chairman, 214-768-3257, [cslee@engr.smu.edu](mailto:cslee@engr.smu.edu)  
 Anand Lakshmanan, AP Secretary, 469-499-6789, [anand.em@gmail.com](mailto:anand.em@gmail.com)

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## Circuits & Systems

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### "Annual Workshop"

**WHEN:** NOVEMBER 15<sup>TH</sup> – 16<sup>TH</sup>, 2007

**WHERE:** SOUTHERN METHODIST UNIVERSITY

The IEEE Circuits and System Society Dallas Section is conducting its sixth workshop (DCAS-07) to provide a forum for sharing design, application, integration and software aspects of System-on-Chip (SoC). DCAS-07 is sponsored by IEEE Circuits and System Society Dallas Section and will be held on Nov. 15-16 on the campus of Southern Methodist University, Dallas, TX. The technical program committee invites researchers from academia and industry to contribute new and previously unpublished results in the following Circuits and Systems related areas:

- High Performance and Low Power Circuits
- Digital Signal Processors and Cores
- Baseband Communication Processors
- RF Processors and Circuits
- Multimedia Processors
- Reconfigurable Processors
- Low Voltage and Mixed Signal Circuits
- Mixed Signal Integration
- A/D and D/A Conversion
- High Speed I/O
- Clocking and Clock Distribution
- Power Management Circuits
- Signal Integrity and On-chip Interconnects
- SoC Implementation Methodology
- SoC Verification
- SoC and IP integration

Paper Submission Details  
 Submission deadline: 08/17/2007  
 Acceptance notice: 09/14/2007  
 Camera ready draft due: 09/28/2007

Web-based, automated paper submissions, review and notification process  
<http://www.ewh.ieee.org/soc/cas/dallas/wks2007>

Please visit our Website listed below for latest updates, abstract of talk and seminar details <http://ewh.ieee.org/soc/cas/dallas/>

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## Communication & Vehicular Technology

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### "Packet Optical Networking – The Next Big Thing"

**Date:** Tuesday, October 16<sup>th</sup>, 2007  
 Lunch 11:00 a.m. / Program 12:00 p.m. – 1:00 p.m.

**Place:** Holiday Inn Select, 1655 North Central Expressway, Richardson, TX  
 (972) 238-1900

**Cost:** \$5 for IEEE Members, \$10 for Non-Members

**Speaker(s):** Rod Naphan, Vice President of Planning, Fujitsu Network Communications

**Program Summary:** Rod Naphan, Vice President of Product Planning for Fujitsu, will discuss what has been called the biggest development in optical networking since the 1990's - an emerging new class of optical networking technology known broadly as the Packet Optical Networking Platform. Rod will explain how Packet Optical Networking

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uniquely addresses significant new networking needs created by the radical dynamics of new communications services. Rod will discuss significant new technologies that enable this new approach as well as the value, benefits, and network transition possibilities that Packet Optical Networking Platforms deliver.

Rod Naphan, vice president of planning at Fujitsu, is responsible for strategic planning, product planning, and product management of Fujitsu access and data product portfolios. Rod has a broad telecommunications experience in the design and planning of successful communications equipment. For the majority of Rod's tenure with Fujitsu, he has held various leadership roles in the engineering organization, responsible for software engineering, systems engineering, and program manager for FLASHWAVE(r) 4000 product development in North America. Prior to joining Fujitsu, he worked as a software engineer within the SONENT transmission division at Bell Northern Research, now Nortel, in Ottawa. Rod holds a bachelor of applied science degree from Wilfrid Laurier University and a master of applied science degree in systems design engineering from the University of Waterloo in Ontario.

For further information contact Steve Simmons at: [sms\\_1961@yahoo.com](mailto:sms_1961@yahoo.com).

Meeting details for Communication & Vehicular Technology Dallas Chapter can be found on their web site. Visit <http://www.cvt-dallas.org/>

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## Computer

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Remember to visit <http://chapters.computer.org/dallas/> for updates, to download presentations, or view upcoming calendar!

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## Consultants Network

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### "How to Invest Differently"

**Date:** Monday, October 8<sup>th</sup>, 2007  
 Social/Networking/Dinner: 6:00 p.m. / Program 6:45 p.m.

**Place:** Holiday Inn Select, 1655 North Central Expressway, Richardson, TX  
 (972) 238-1900

**Cost:** \$5 for IEEE Members, \$15 for Non-Members (Buffet Included)

**Speaker(s):** Richard Jordan

Program Summary: Learn how the wealthy invest....so you can be like them too!

If you are interested in being involved in Programming activities please contact Neil Kaden at [kaden@circlenk.com](mailto:kaden@circlenk.com)

For more information: <http://www.ieeedallascn.org>

For more information contact: Maura Schreier-Fleming 972 380 0200 or [info@bestatselling.com](mailto:info@bestatselling.com) or visit Chapter website at <http://ieeedallascn.org>

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## Consumer Electronics

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### "Focus on DLP® - a Special Joint Event with SID (Society for Information Display) Texas Chapter"

**Date:** Wednesday, October 17<sup>th</sup>, 2007  
 Registration/Demos/Refreshments: 6:00 p.m. – 7:00 p.m./ Presentation-Cinema Demonstration 7:00 p.m. – 9:00 p.m.

**Place:** TI Spring Creek Facility, 6550 Chase Oaks Blvd., Bldg. 2 (Flag pole in front)  
 Plano TX 75023 [Link to Spring Creek Facility](#)

Program Summary:

**SPEAKER 1:** Paul Rancuret, Systems Engineer, Technology Development, DLP® Products, Texas Instruments

**TITLE:** It's the mirrors! How small mirrors make a big difference

**ABSTRACT:** This presentation will take you "behind the scenes" and reveal how DLP® Technology transforms the magic of tiny mirrors into the magic of outstanding visual experiences.

**SPEAKER 2:** Frank Moizio, Emerging Markets Business Manager, DLP® Front Projection, DLP® Products, Texas Instruments

**TITLE:** View It Big: Redefining the Mobile Display Experience

**ABSTRACT:** This presentation will overview how DLP® plans to enhance the experience around mobile displays contrasting the current versus the future state of the market.

SPEAKER 3: Greg Basile, LED TV Program Manager, DLP® TV, DLP® Products, Texas Instruments

TITLE: DLP® and LED for TV

ABSTRACT: This talk will discuss the benefits and challenges of using Light Emitting Diodes (LED) in DLP® TV applications.

**RSVP: We encourage all those interested in attending this event to RSVP to Carol Wilson by calling 214-567-0073 or emailing carolwilson@ti.com. An RSVP is not required, but it will help get attendees through the security process quickly.**

For additional information, please contact Dr. Baowei Ji at (972) 761-7167 [baowei.ji@samsung.com](mailto:baowei.ji@samsung.com), LaReil Nielsen [larel@airmail.net](mailto:larel@airmail.net), or Sam Broyles at (214) 480-3232 [sam.broyles@ti.com](mailto:sam.broyles@ti.com)

To download presentations, view upcoming calendar, etc. check out our web site at: <http://www.DallasCES.org>

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## Electromagnetic Compatibility

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For more information, visit the Dallas IEEE/EMC Chapter Website (<http://www.DallasEMC.org>), or contact Bill Paschetag, [bpaschetag@ieee.org](mailto:bpaschetag@ieee.org)

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## Electron Devices

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For additional information contact Zeynep Celik-Butler, (817) 272-1309, [zbutler@uta.edu](mailto:zbutler@uta.edu)

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## Engineering Management

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### *"Need for Compound Stock Earnings"*

**Date:** Friday, October 12<sup>th</sup>, 2007  
11:30 a.m.

**Place:** Holiday Inn Select, 1655 North Central Expressway, Richardson, TX (972) 238-1900

**Speaker:** Manuel Guerrero

#### Program Summary:

Why people invest, Current methods of investing, CSE results vs. others results, Compounding – 8th Wonder of the World, CSE Approach, covered Calls for income, how CSE does it, why CSE is different.

What a person needs to be a successful investor, how covered calls work, comparing covered calls to real estate in generating consistent monthly income. Using CSE methods and CSE Toolbox, discuss and show examples of how to generate income. Provide directions to CSE website and remain available after meeting to discuss any additional questions on a one-on-one basis.

Graduate of the University of Arizona (BS Business Education), Officer/Aviator United States Marine Corps (Fixed Wing Aircraft & Helicopters), Sales Management for Fortune 500 Company, Business Owner (company awards: D/FW Minority Business of the Year; Dallas Hispanic Chamber of Commerce Quality Circle Award Winner; SBA Small Business Award); Top 500 Hispanic Owned Business (5 years), Investor for 25 years. Educator & Trainer.

A comment from one of our speakers, which reflects my own experience:  
*I've never learned a subject better than when I try to teach it to somebody else.*

For program information and to RSVP, please contact Bob Bishop, 903.482.5320 or [r.bishop@ieee.org](mailto:r.bishop@ieee.org)

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## Industry Applications

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For further info contact Dallas IEEE Section Activities Chair Will Lumpkins at (214) 543-0858.  
Please send RSVP to [xillia@ieee.org](mailto:xillia@ieee.org)

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## Lasers & Electro-Optics

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Details for IEEE-LEOS Dallas Chapter seminar series are listed on our website at <http://www.engr.smu.edu/leos/>

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## Life Members

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Graduate of the University of Arizona (BS Business Education), Officer/Aviator United States Marine Corps (Fixed Wing Aircraft & Helicopters), Sales Management for Fortune 500 Company, Business Owner (company awards: D/FW Minority Business of the Year; Dallas Hispanic Chamber of Commerce Quality Circle Award Winner; SBA Small Business Award); Top 500 Hispanic Owned Business (5 years), Investor for 25 years. Educator & Trainer.

A comment from one of our speakers, which reflects my own experience:  
*I've never learned a subject better than when I try to teach it to somebody else.*

For program information and to RSVP, please contact Bob Bishop, 903.482.5320 or [r.bishop@ieee.org](mailto:r.bishop@ieee.org)

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## Microwave Theory & Techniques

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For additional information contact Bob Eye at [reve@tqs.com](mailto:reve@tqs.com).

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## Power Engineering [Fort Worth, TX]

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For Program Information contact Julio Chavarria through outlook, to e-mail address [jchavar1@txued.com](mailto:jchavar1@txued.com), or telephone number 214-743-6681.

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## Reliability

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For program information please contact Milton Tam (972) 344-5230

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## Signal Processing

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### *"Active Reduction of Acoustic Noise and Enhancement of Speech for fMRI Environment"*

**Date:** Friday, October 19<sup>th</sup>, 2007  
11:00 a.m.

*All meetings are free of charge and open to the public*

**Place:** Research Park, University of North Texas, Room B242  
For directions, see <http://www.eng.unt.edu>

**Speaker:** Dr. Issa Panahi, University of Texas at Dallas

**Program Summary:** Presence of high level acoustic noise in fMRI room interferes with imaging process and speech communication between the patient and medical staff. It also creates a harmful and annoying environment for both patients and care providers. To alleviate the negative effects of strong acoustic noise in the fMRI room, we have been developing active noise control (ANC) and speech enhancement (SE) systems. In this presentation, we review analysis and design of ANC and SE adaptive algorithms using uniform sub-band filtering techniques in order to deal with the strong broadband (8KHz)

For changes of address go to [ieeedallas.org](http://ieeedallas.org)

acoustic noise in the fMRI room. Development of a blind room dereverberation technique and a sequential blind source separation method are presented. Realization of the methods on a test-bed mimicking the fMRI bore is discussed and the results of real-time implementation of the algorithms are demonstrated.

**Issa Panahi** received his PhD in Electrical Engineering in 1988 from the University of Colorado at Boulder. Dr. Panahi is an assistant professor and Director of Statistical Signal Processing and Acoustic Research Laboratories in the Department of Electrical Engineering, University of Texas at Dallas (UTD). Research interests and experience of Dr. Panahi are in the areas of MIMO digital signal processing, estimation, system identification, noise cancellation, speech enhancement, and embedded DSP systems. Dr. Panahi joined UTD in 2001 after being with Texas Instruments, Shell Oil Co.-Bellaire Research Center, and Storage Technology Corp. (currently Sun Microsystems) for 16 years. He holds one US patent and has authored/co-authored 5 Texas Instruments books, and published over 60 conference, journal, and technical papers. He co-founded the IEEE-Dallas Chapter of Engineering in Medicine and Biology Society (EMBS) in 2006. He is currently Vice-Chair of the IEEE-Dallas Chapters of EMBS and Signal Processing Society. He served as the Secretary and Treasurer (2004), and Program Chair (2005) of the IEEE-Dallas Chapter of Signal Processing. He was the 2005 recipient of the "Outstanding Service Award" from the IEEE Dallas Section.

For meetings program information, please see  
<http://www.utdallas.edu/~kehtar/ieee-sp>

### Solid State Circuits

For program information please contact Chapter Chair.

# Mind Tease

There are 5 houses in 5 different colors in a row. In each house lives a person with a different nationality. The 5 owners drink a certain type of beverage, smoke a certain brand of cigar, and keep a certain pet. No owners have the same pet, smoke the same brand of cigar, or drink the same beverage. Other facts:

1. The Brit lives in the red house.
2. The Swede keeps dogs as pets.
3. The Dane drinks tea.
4. The green house is on the immediate left of the white house.
5. The green house's owner drinks coffee.
6. The owner who smokes Pall Mall rears birds.
7. The owner of the yellow house smokes Dunhill.
8. The owner living in the center house drinks milk.
9. The Norwegian lives in the first house.
10. The owner who smokes Blends lives next to the one who keeps cats.
11. The owner who keeps the horse lives next to the one who smokes Dunhill.
12. The owner who smokes Bluemasters drinks beer.
13. The German smokes Prince.
14. The Norwegian lives next to the blue house.
15. The owner who smokes Blends lives next to the one who drinks water.

The question is: WHO OWNS THE FISH?

*Answer listed at the bottom of p.6!*

# ANNOUNCEMENTS

## INTERNATIONAL CONFERENCE ON WEB ENGINEERING AND APPLICATIONS (ICWA 2007)

December 14th - 16<sup>th</sup>, 2007  
Bhubaneswar, India.  
<http://www.icwa2007.org>

ICWA2007 invites original submissions in the mentioned and other related areas. Contributions may fall in any of the following categories: papers, demonstrations, workshops and tutorials. The submissions may cover new approaches in Web Engineering, novel viewpoints and challenges on any aspect of Web Engineering, reports on the implementation or deployment of advanced Web projects in an industrial or application scenario, or descriptions of Web Engineering education experiences.

The International Conference on Web Engineering & Applications (ICWA2007) is the second conference in the series of ICWA conferences aims at bringing together the international community of researchers and developers from academia and industry in the field of Web Engineering research, practice and education, to share their experiences and to discuss recent and innovative results that may help them.

Deadline for paper abstracts -- July 1, 2007  
Deadline for paper submissions -- July 7, 2007  
Deadline for workshop/tutorial -- July 15, 2007  
Extended deadline for demonstration proposals -- July 31, 2007  
Notification of workshop/tutorial acceptance -- September 15, 2007  
Notification to paper authors -- September 15, 2007  
Notification of demonstration acceptance -- September 15, 2007  
Deadline for final versions -- October 25, 2007  
Workshops and tutorials -- December 14, 2007  
Main Conference -- December 15-16, 2007



The Dallas Section of the **Institute of Electrical and Electronic Engineers (IEEE)** for the benefit of its members publishes *Direction* monthly from September through May. Articles and information for publication should be submitted to: Biron Pickens, Editor, 5015 Moss Point Rd., Dallas, TX 75232, Phone (972) 824-8284, Fax (972) 263-6710, Email: [drbtimothy@sbcglobal.net](mailto:drbtimothy@sbcglobal.net). Special announcements must first be submitted to Bob Shapiro, Administrative Chairman, Phone (214) 448-4818, Email: [rcshapiro@comcast.net](mailto:rcshapiro@comcast.net), and will be published on a space-available basis. Deadline for submission of materials is no later than the first of the month prior to the month of publication.

**Advertising:** *Direction* is distributed to approximately 7,200 members in the Greater Dallas area. Camera-ready copy must be submitted by the first of the month prior to the month of publication to the Editor at the above address.

Invoicing and/or contractual agreements for advertising are administered by Biron Pickens, Editor, and Gerry Burnham, Administrative Chairman. All ad insertions must be cleared through Biron Pickens or Dr. Gerry Burnham before being submitted for publication. Advertising rates are as follows:

	Per Insertion	
Full Page	\$800.00	Quarter Page \$200.00
Half Page	\$400.00	Bus. Card \$120.00

**IEEE** **Sixth IEEE Dallas** **SMU**

**Circuits and Systems Workshop**

*November 15 - 16, 2007*  
*Southern Methodist University, Dallas, TX*

**Second Call for Papers**

**Sixth IEEE Dallas Circuits and Systems Workshop**

**Southern Methodist University  
 Dallas, TX, USA**

**Nov 15-16, 2007**

***System-on-Chip (SoC): Design, Application, Integration and Software***

The IEEE Circuits and System Society Dallas Section is conducting its sixth workshop (DCAS-07) to provide a forum for sharing design, application, integration and software aspects of System-on-Chip (SoC).

DCAS-07 is sponsored by IEEE Circuits and System Society Dallas Section and will be held on Nov. 15-16 on the campus of Southern Methodist University, Dallas TX

The technical program committee invites researchers from academia and industry to contribute new and previously unpublished results in the following Circuits and Systems related areas:

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- Digital Signal Processors and Cores
- Baseband Communication Processors
- RF Processors and Circuits
- Multimedia Processors
- Reconfigurable Processors
- Low Voltage and Mixed Signal Circuits
- Mixed Signal Integration
- A/D and D/A Conversion
- High Speed I/O
- Clocking and Clock Distribution
- Power Management Circuits
- Signal Integrity and On-chip Interconnects
- SoC Implementation Methodology
- SoC Verification
- SoC and IP integration

**Paper Submission Details**

Submission deadline: now extended to 08/31/2007  
 Acceptance notice: 09/28/2007  
 Camera ready draft due: 10/12/2007

Web-based, automated paper submissions (not to exceed 4 pages), review and notification process  
<http://www.ewh.ieee.org/soc/cas/dallas/wks2007>

**Organizing Committee**

General Chair: Ping Gui, SMU  
 General Co-Chair: Mitch Thornton, SMU  
 Technical Program Chair: Bogdan Staszewski, Texas Instruments  
 Publicity Chair: Dinesh Bhatia, UT Dallas  
 Publications Chair: Sudhind Dhamankar, Texas Instruments  
 Local Arrangements Chair: Arjun Rajagopal, Texas Instruments  
 Registration Chair: Luke Wu, Texas Instruments  
 Treasurer: Mak Kulkarni, Texas Instruments  
 IEEE-DCAS Chair: Liming Xiu, Texas Instruments

**Technical Program Committee**

Bogdan Staszewski, Technical Program Chair, Texas Instruments  
 Mitch Thornton, Technical Program Co-Chair, SMU  
 Poras T. Balsara, Technical Program Co-Chair, UT Dallas  
 Weiping Shi, Texas A&M  
 Oren Eliezer, Texas Instruments  
 Terry Blake, Texas Instruments  
 Sebastian Hoyos, Texas A&M  
 Andrew Marshall, Texas Instruments  
 Vojin Oklobdzija, UT Dallas  
 Ranjit Gharpurey, UT Austin  
 Kaijian Shi, Synopsys Inc.  
 Saraju P. Mohanty, UNT  
 Nagi Naganathan, LSI  
 Liming Xiu, TI  
 Donald Lie, Texas Tech Univ.

<http://www.ewh.ieee.org/soc/cas/dallas/wks2007>



**Who Should Attend**

The workshop is not a training course, but a forum for exchanging ideas and practical experiences involving knowledge, work practices and technology that is changing electrical safety in the workplace. Targeted audiences include but is not limited to people involved in electrical safety in these areas of interest:

- Facilities construction, operation and maintenance
- Facilities and process design
- Inherently safer products and equipment
- Electrical safety services
- Training and continuing education

- Regulations and standards
- Forensics
- Risk management
- Workplace safety
- Human error and human factors

Our target audience embraces anyone concerned with advancing electrical safety performance in their operations, organizations or businesses. Past attendance has included people concerned with occupational electrical safety from all aspects of industry, commerce, engineering and scientific communities, such as:

- Manufacturing
- Construction
- Mining
- Petrochemical
- Steel & metal
- Pulp & paper
- Automotive
- Transportation
- Utilities
- Energy & Power generation

- Government agencies & laboratories
- Maritime and shipping
- Pharmaceutical
- Food production & services
- Aerospace
- Military
- Finance & banking
- and others concerned with advancing electrical safety performance in their operations, organizations or businesses

Past attendance has also included people concerned with providing knowledge, technology, products and services to enable and advance electrical safety performance in the workplace, such as:

- Standards development organizations
- Medical researchers
- Safety & Risk management
- Electrical equipment manufacturers and suppliers
- Safety equipment manufacturers and suppliers

- Training and education services
- Engineering and consulting services
- and others who enable and support advancements in electrical safety performance through their knowledge, products and services

**Hotel Information**

A block of rooms will be reserved at the Hyatt Regency Dallas Hotel. Check back here for information on hotel accommodations.

Conveniently located near the business, sports and shopping districts, Hyatt Regency Dallas is in the heart of downtown's historic district. This gem among Dallas hotels is four blocks from the downtown Dallas business center and 23 miles from Dallas Fort Worth International Airport.

Hyatt Regency Dallas  
 300 Reunion Boulevard  
 Dallas, Texas, USA 75207  
 Tel: +1 (214) 651-1234

**Answer to Mind Tease:**

The German sits in his Green House, smoking his Prince cigars, drinking coffee, and watching his FISH.

The rest go like this-

- 1st House: Yellow, Norwegian, Water, Cats, Dunhill
- 2nd House: Blue, Dane, Tea, Horse, Blends
- 3rd House: Red, Brit, Milk, Birds, Pall Malls
- 4th House: Green, German, Coffee, FISH, Prince
- 5th House: White, Swede, Beer, Dogs, Bluemasters