



Dallas Section

Direction

Volume 51, Number 5

January 2008

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From the Chair

By Robert Shapiro

Hello IEEE Dallas Members and Friends,

Happy New Year!!!

The IEEE Dallas Section has ambitious goals for us this year. Please help me and the 2008 IEEE Dallas Section Officers realize these goals.

Here are a few. Please email or call me if I missed any:

1. Grow the IEEE Dallas Section membership at least 5% over the current >5000 members
2. Have a Membership Development Chair in the Section and within each Chapter in Dallas
3. Focus on membership value at the grass roots level
4. Hold an Awards Banquet Dinner in April or May
5. Change the monthly 2nd Tuesday evening Section meeting to combine with the IEEE Dallas Consultant's Network meetings on the 1st Monday evening at the HI Select
6. Hold a Section wide conference, ETC, in the Fall
7. Support the "Future Cities" competition with the IEEE Ft. Worth Section in the beginning of 2008
8. Attend the IEEE Region 5 Conference in Kansas City in April
9. Attend the IEEE Sections Congress in Quebec City in the Fall
10. Have fun!!!!

Please join me in welcoming the new IEEE Dallas Section and various Society Chapter Officers in 2008 and thanking the outgoing officers from 2007.



DALLAS SECTION JANUARY 2008 MEETING

"Improve Your Career with Microsoft Powerpoint"

Date: Monday, January 14th, 2008
Social/Networking/Dinner: 6:15 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)



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

For more information contact: Maura Schreier-FLEMing 972 380 0200 or info@bestatselling.com or visit Chapter website at <http://ieeedallas.org>

Aerospace And Electronics Systems (AES)

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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 Carl Irby (817) 777-9161

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

Aerospace & Electronic Systems

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, Jared Ellington j.ellington@ieee.org, or Mark Gober (903) 457-5122 Mark_D_Gober@L-3Com.com

Antennas & Propagation

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

Circuits & Systems

"Circuits & Systems Society 2008 General Officer Election"

The IEEE Circuit & Systems Society Dallas Chapter will have its general election for 2008 officers. The following positions are subject to the election.

- General Chair
- Vice Chair
- Technical Program Chair
- Treasurer
- Publicity Chair and Secretary
- Meeting Chair
- Member

If anyone is interested in any of the above position, please send a short biography to limingxiu@ti.com.

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

Communication & Vehicular Technology

For further information contact Steve Simmons at: 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/>

Computer

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

Consultants Network

"Improve Your Career with Microsoft Powerpoint"

Date: Monday, January 14th, 2008
 Social/Networking/Dinner: 6:15 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)

Program Summary: You are in for a treat! Debbie Lemon will bring her corporate expertise to our monthly meeting. She will show you how to effectively communicate your message using PowerPoint.

Most people know how to use PowerPoint to add bullet points to a slide and project information on a screen. Only a few know what it takes to use PowerPoint to improve their career. You deserve to be one of the few! This presentation introduces 3 simple and repeatable keys to succeed in improving your career. You will learn about attracting people

to your presentation, giving them the right information at the right time and how to deliver every presentation with style and polish.

Desktop software has been a passion for **Debbie Lemon** since 1983 when she took her first computer class. Her passion has fueled her career as an in-house trainer, consultant, productivity coach, national seminar leader and entrepreneur. Her career includes over six years with Microsoft as a technical seminar leader and productivity advisor helping companies make better technology investments. Recently, she co-founded Rent A Toll which is a company specializing in automated tollway payment processes for car renters. She is listed as co-inventor on nine utility patent applications. As a highlight, Debbie is married to a petroleum engineer that has recognized her analytical ability with the designation of "Junior Engineer."

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

For more information contact: Maura Schreiber-FLeming 972 380 0200 or info@bestatselling.com or visit Chapter website at <http://ieeedallas.org>

Consumer Electronics

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

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

Electromagnetic Compatibility

"Overview of MIL-STD-461E Emissions and Immunity Requirements"

Date: Tuesday, January 15th, 2008
 Social/Networking/Dinner: 6:00 p.m. / Program 7:00 p.m.

RSVP to Bill Paschetag, bpaschetag@ieee.org

Place: National Testing Systems, 1701 East Plano Pkwy
 Plano TX 75074

Speaker: Mr. Jim Press, Corporate Director of EMC Operations, National Technical Systems, Buxborough MA

Program Summary: The presentation will provide an overview of MIL-STD-461E emissions and immunity requirements. The talk will discuss the test setups and purpose. All tests will be discussed and the audience will be able to ask question which may focus the talk on what is of interest to the group. A tour of the NTS EMC facility will be arranged and demonstrations will be set-up based on time available.

Mr. Press has been working in the EMC field for over 22 years. In his present position as Corporate Director of EMC Operations for National Technical Systems, he is involved in commercial, military, and telecommunications EMC design and test. National Technical Systems consist of 7 laboratories internationally. He is responsible for all EMC technical issues and development nation-wide, has participated on Committees that have developed EMC Standards such as MIL-STD-461D/E, GR-1089, ANSI T1, DO-160, SAE, and EPRI 102323. Prior to his present position, he was Engineering Services Manager at R&B Enterprises.

Mr. Press holds a BA from Temple University and a MS from Iowa State University, both in Physics. He has published over 20 articles and a handbook on EMC test and design. Mr. Press is a NARTE certified EMC Engineer

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

Electron Devices

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

Industry Applications

For further info contact Dallas IEEE Section Activities Chair Will Lumpkins at (214) 543-0858.

Please send RSVP to xillia@ieee.org

Lasers & Electro-Optics

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

Life Members

"January Luncheon"

Date: Friday, January 26th, 2008
11:30 a.m.

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

For program information, please contact Bob Bishop, 903.482.5320 or
r.bishop@ieee.org

Microwave Theory & Techniques

For additional information contact Bob Eye at reye@tqs.com.

Power Engineering [Fort Worth, TX]

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

Reliability

"Reliability challenges in future interconnects for microelectronics"

Date: Thursday, January 18th, 2008
6:30 p.m.

Place: UTD, Waterview Science and Technology Center (WSTC Bldg), Room
CSEPI, Richardson, TX

Speaker: Dr. Choong-Un Kim, The University of Texas at Arlington

Program Summary: Interconnects, electrically connecting active devices in Si, consist of metallic lines and dielectric insulators serve critical roles in determining the performance of microelectronic devices. While there have been numerous changes in interconnect technology in the past, including the change to Cu interconnect technology started about 7 years ago, the recent changes are the most dramatic. Within the next few years, the interconnects will undergo major material and structural changes, including materials for dielectric and barrier, thus creating immense technical challenges in the area of reliability. Many new types of reliability failures seen, such as a failure by metal migration and ambient induced performance degradation, and everyone of them is found to be extremely difficult to prevent and even detect. This presentation will overview such failures and discuss the developmental direction for effective resolutions to those problems.

Choong-Un Kim, an associate professor at UT Arlington, earned his BS and MS degree from Seoul National University and his PhD degree from University of California at Berkeley at 1993. He joined UT Arlington at 1996 after spending over 2 years at Berkeley National Laboratory as research scientist. Since joining UT Arlington, he has been engaged in many research projects, most of which are related to research on reliability failures in IC devices and funded by microelectronics companies, including SRC (semiconductor research corporation), Sematech, Intel and Texas Instruments. He also researches in other areas of emerging technologies, including development of nanomaterials for medical applications and nanoelectronics with funding provided by Texas governments and federal funding agencies. He is a member of many professional societies, including TMS, MRS, and SPIE, and has served as an organizer and co-organizer of many international symposiums and conference.

All attendees are welcome. Refreshments will be served.
For more information please contact Milton Tam (972) 344-5230.

Signal Processing

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

Solid State Circuits

For program information please contact Chapter Chair

Technology Management

"January Luncheon"

Date: Friday, January 26th, 2008
11:30 a.m.

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

Life Members and Spouses are welcome!

For program information and to RSVP, please contact Bob Bishop, 903.482.5320 or
r.bishop@ieee.org

Mind Tease

There are five weather forecasters getting ready for a weekend forecast. Each forecaster is predicting different weather and is choosing a suit and "tie" (yes, the women, too) of different color combinations. There are 3 men (John, Matt and Tim) and 2 women (Karen and Sarah).

Can you determine the color of the suit, the color and pattern of the tie, and the weather prediction for each forecaster?

1. The forecaster who wore a black suit did not predict snow or rain.
2. Many viewers called in to comment on the whimsically printed tan tie and brown suit combination.
3. The five forecasters were: Matt, the woman who predicted high winds, the person in a black suit, the man with a striped tie, and the woman in an olive suit.
4. A solid white tie was chosen to represent the snowy forecast that day.
5. John's orange tie was hated by his wife.
6. Sarah had a teal colored tie which was not floral.
7. Tim predicted sun and did not wear brown or black.
8. The man who predicted rain did not wear a striped tie.
9. The blue suit was worn by a man.

Answer on bottom of page 4!



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

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

Energy & Power generation

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

Mind Tease Solution:

John, black suit, orange floral tie, foggy
 Tim, blue suit, striped pink tie, sunny
 Sarah, gray suit, dotted teal tie, windy
 Matt, brown suit, whimsical tan tie, rainy
 Karen, olive suit, solid white tie, snowy



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. Special announcements must first be submitted to Bob Shapiro, Administrative Chairman, Phone (214) 448-4818, Email: 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:

	<u>Per Insertion</u>	
Full Page	\$800.00	Quarter Page
Half Page	\$400.00	Bus. Card
		\$200.00
		\$120.00