



Dallas Section

Direction

Volume 51, Number 6

February 2008

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From the Chair

By Robert Shapiro

Hello Colleagues,

We had a very good month in January.

The meeting attendance for some chapters were at all time highs. We believe that this was due to great programs and by using the IEEE email service for the IEEE Dallas Section which has 4400 out of the 5300 members listed. Please let us know the best way to communicate with you.

We had an IEEE Dallas Section ExCom meeting in January and the minutes will be available on the website ASAP. We are planning to post an editorial calendar for the monthly E-News on the web soon and further updates/enhancements to the web site and E-News are pending.

In February please look again for emails for the chapter meetings. We will have a joint IEEE Consultants Network and IEEE Dallas Section meeting next Monday evening.

Engineer's Week is in February and we plan to participate as we have been doing for the past few years.

Please let me know if you have any questions or if I, or any member of the ExCom, can be of service.

Thank you again for allowing me to be the General Chair in 2008.

Bests Regards...



DALLAS SECTION FEBRUARY 2008 MEETING

"The Game Industry: The Good, The Bad, The Ugly"

Date: Monday, February 11th, 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)

Speaker: Drew Fisher, CEO Barking Lizards Technologies



Drew Fisher is the CEO of Barking Lizards Technologies. Barking Lizards Technologies, founded 2001, is a technology company formed by game professionals and technology innovators. Over the years, Barking Lizards has crafted games for many platforms. Their headquarters are located near Dallas, Texas, in the town of Richardson.

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>

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Antennas & Propagation (AP)

Chair Paul Lankhanpal (214) 768-3257

Circuits & Systems (CAS)

Chair Liming Xiu (214) 480-4930

Communications & Technology (CVT)

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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

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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>

Consumer Electronics

For additional information, please contact Dr. Baowei Ji at (972) 761-7167 baowei.ji@samsung.com, LaReil Nielsen lareil@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

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

"February Luncheon"

Date: Friday, February 22nd, 2008
 11:30 a.m.

RSVP by Monday, February 18th to Bob Bishop, (903).482.5320

Cost: Life Members & Students= No Charge
 TMC Members = \$5 Donation

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

Speaker: Mr. Carol Crom

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

Microwave Theory & Techniques

Dallas Chapter of the IEEE Microwave Theory and Techniques Society February 2008 Meeting

Title: Low Power Wireless Sensor Networks for Biomedical Applications

Speaker: Dinesh Bhatia, UT Dallas

Date: Tuesday, February 26, 2008
 Luncheon 11:30 a.m. / Program 12:00 noon

Charge: \$5 (includes admission and buffet). No charge for Student and Life Members

*** PLEASE NOTE MEETING LOCATION ***

Location: Shuiwah Chinese Buffet
400 N Greenville Ave #11
Richardson, TX 75081
(972) 907-8868

<http://maps.google.com/maps?f=q&hl=en&geocode=&q=Shuiwah++loc:Richardson,+TX+75080&ie=UTF8&z=14&iwloc=A&om=0>

Abstract:

Wireless sensor networks (WSN) will become prevalent in many applications that relate to ubiquitous computing. Integrating a large scale system based on WSN is a challenging task that requires efficient management of hardware as well as software resources. Building a robust and reliable system is a must requirement for using WSN in biomedical applications like tele-health and health monitoring. This talk presents system level issues that must be accounted for building a large scale low power network. The talk is illustrated using the construction of a large health monitoring system. Also, as is evidenced by recent industry trends, this talk will highlight how various companies are positioning themselves to exploit this technology.

Speaker Bio:

Dinesh Bhatia is on the faculty of electrical engineering department at The University of Texas at Dallas. He directs research activities within the Embedded and Adaptive Computing group and is also a member of Center for Integrated Circuits and Systems at the University of Texas at Dallas. He received MS and a Ph.D. in Computer Science from the University of Texas at Dallas.

His research interests include all aspects of reconfigurable and adaptive computing, architecture and CAD for field programmable gate arrays (FPGAs), physical design automation of VLSI Systems, biomedical electronics and systems, medical devices, natural energy scavenging and, applications of wireless sensor networks.

His recent work on wireless sensor networks operating on scavenged energy is gaining importance in health care applications involving tele-medicine and remote health monitoring as well as in problems related to monitoring and alleviation of wood logging in forests.

He has extensive experience in building large scale embedded and reconfigurable systems. Some of these activities include principal designer and investigator for RACE and NEBULA systems for Wright Laboratories of USAF, principal investigator for DARPA funded REACT program, Co-PI on AFRL funded SPARCs program and several more. He has published extensively in leading journals and conferences and continues to serve on

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program committees of several conferences. He is a senior member of IEEE, Computer Society, Circuits and Systems Society, Eta Kappa Nu, and recently served on the editorial board of IEEE Transactions on COMPUTERS. He is IEEE Circuits and Systems society's distinguished lecturer for 2007-08.

Sponsorship:

This announcement is brought to you by **Groover & Associates** patent attorneys. "Respect for Technology. Respect for Technologists"

<http://technopatents.com>

Phone 1-972-980-5838

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Christopher Sanabria, Ph.D.

Secretary

Dallas Chapter IEEE MTT

[csanabria@tgs.com](mailto:csanabria@tgs.com)

Phone (972)-994-5662  
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More information at the MTT website:

<http://ewh.ieee.org/r5/dallas/mtt/>

Power Engineering [Fort Worth, TX]

" The 2009 Edition of NFPA 70E: What You Need to Know about Upcoming Changes and Enhancements "

Date: Tuesday, February 19th, 2008
Social/Networking/Dinner: 11:30 a.m. / Program 12:00 p.m.

*Please RSVP by noon on Tuesday, February 12th to Edd Lovette
(Edd.Lovette@jacobs.com)*

Cost: \$19 with RSVP/ \$22 without RSVP

Place: The Petroleum Club of Fort Worth
777 N. Main Street (39th floor), Fort Worth, Texas

Speaker: James R. White, Shermco Industries

Program Summary: Arguably the most active safety standard in the electrical industry, the impact of NFPA 70E Standard for Electrical Safety in the Workplace, is far-reaching for those who own, operate, or interact with electrical power equipment. As a national consensus standard, it is updated and revised on a regular basis. The newest version, the 2009 Edition, is scheduled to be released in October 2008. Several enhancements and new requirements will be associated with the new edition. As a member of the 70E committee, Jim White of Shermco Industries will highlight some of the significant changes to the standard as well as provide a general overview of the 70E requirements.

James R. (Jim) White is the Training Director of Shermco Industries, Inc., in Dallas, Texas and has been with Shermco since 2001. Shermco provides electrical power system testing and maintenance, as well as electric rotating machinery rebuild and repair. Jim is the Chairman of the 2008 IEEE Industry Applications Society Electrical Safety Workshop (ESW), Vice Chair of the 2007 ESW, and a representative of the Research Testing and Planning working group committee (RTPC) for the IEEE/NFPA collaborative project investigating arc flash hazards. He also serves on the Doble Engineering Transformer Committee, Doble Asset Management Committee, and the Doble Circuit Breaker Committee. He is Vice Chair of the Doble Transformer Field Processing Sub-Committee. He is a Principal member of the technical committee "Recommended Practice for Electrical Equipment Maintenance" (NFPA 70B) and an Alternate member of the Technical Committee on "Electrical Safety in the Workplace" (NFPA 70E). A regular columnist for the NEC Digest "Safety Corner", Jim is also a columnist for "Tech Quiz" and "NFPA 70E and NETA" for the trade journal NETA World. He is a NETA Certified Level IV Senior Test Technician; an OSHA authorized Outreach Instructor for General Industry; and an Inspector Member of the International Association of Electrical Inspectors.

For Program Information contact Edd Lovette at Edd.Lovette@jacobs.com

Reliability

" Managing Diminishing Manufacturing Sources and Material Shortages (DMSMS) "

Date: Wednesday, February 13th, 2008
6:30 p.m.

Cost: Free for IEEE or EDFAS Members, \$10 for Non-Members (Dinner Included)

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

Speaker: Dr. Peter Sandborn

Program Summary: Many types of products that have to be manufactured and supported for long periods of time lack control over critical portions of their supply chain, e.g., avionics and space, telecom infrastructure, and industrial controls. As a result, the components and technologies that these products depend on become obsolete long before the product's field life and sometimes manufacturing life ends. No technology typifies this problem more than electronic parts. Obsolescence (also known as DMSMS) management, which is an inevitability for these products, must be considered during product design, and when planning and managing for life cycle sustainment.

This talk addresses forecasting obsolescence, optimizing the reactive mitigation of obsolescence, and strategic planning methods targeted at minimizing future obsolescence impact and maximizing cost avoidance. Business cases associated with strategic DMSMS management will be presented.

Peter Sandborn is a Professor in the CALCE Electronic Products and Systems Center at the University of Maryland. Dr. Sandborn's group develops obsolescence forecasting algorithms, performs strategic design refresh planning, and lifetime buy quantity optimization. Dr. Sandborn is the developer of the MOCA refresh planning tool. MOCA has been used by over 25 private and government organizations to perform optimized refresh planning for systems subject to technology obsolescence.

Dr. Sandborn has also developed and implemented part selection and management benchmarking and part obsolescence management benchmarking for Nortel, Schlumberger, Microsoft, Motorola, Honeywell, Lucas Aerospace and others. Dr. Sandborn has taught industry short courses on electronic systems cost modeling and obsolescence management to Ericsson, Harris, IBM, StorageTek, Motorola, United Defense, F.A.A. UK Ministry of Defense, the U.S. Navy and other organizations. Dr. Sandborn is a member of the U.S. Navy TRENT Shareholder Council and is the author of the U.S. DOD's DMSMS working group's DMSMS tool/data taxonomy. Dr. Sandborn is currently the principle investigator on obsolescence management programs for the U.S. Navy (SPAWAR and the NAVAIR V-22 program), Defense Logistics Agency, Motorola (CGISS, Supply Chain Operations Group), Argon ST (NAVSEA and UK Ministry of Defense programs), and the Naval Surface Warfare Center (Crane).

Dr. Sandborn is an Associate Editor of the IEEE Transactions on Electronics Packaging Manufacturing and a member of the editorial board of the International Journal of Performability Engineering. He is the author of over 100 technical publications and several books on electronic packaging and electronic systems cost analysis. He has a B.S. degree in engineering physics from the University of Colorado, Boulder, in 1982, and the M.S. degree in electrical science and Ph.D. degree in electrical engineering, both from the University of Michigan, Ann Arbor, in 1983 and 1987, respectively.

Please RSVP to m-tam2@raytheon.com by February 1, 2008.

Cost: Free for IEEE or EDFAS Members, \$10 for Non-Members (Dinner Included)
For more information please contact Milton Tam (972) 344-5230.

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

"February Luncheon"

Date: Friday, February 22nd, 2008
11:30 a.m.

RSVP by Monday, February 18th to Bob Bishop, (903).482.5320

IEEE Dallas Section Direction/February 2008

Cost: Life Members & Students= No Charge
TMC Members = \$5 Donation

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

Speaker: Mr. Carol Crom

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

Mind Tease

There are two US coins totaling 55 cents. One is not a nickel.
What are the coins?

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:

This was just a catch question. One of the coins is really not a nickel because nickel is the other coin. So it is a fifty cent piece and a nickel -- it said ONE isn't a nickel, but the OTHER ONE IS!



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