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North Texas RFID Group on LinkedIn
Topic: Asset Tracking Success -- RFID Applied in Data Centers
Date: Friday, June 5, 2009
Topic: RFID: Where is it headed?
Date: Friday, July 10, 2009

IEEE Intelligence and Security Informatics Conference
June 8-11, 2009

IEEE Dallas Section: Direction

June 2009

Volume 52, Number 10

From the Chair

By **Larry Zhang**

larryzhang@ieee.org

May 9th, IEEE Dallas Section has organized our first senior member upgrade and officer training meeting at UTD in 2009. This activity provides a venue to exchange ideas among chapter volunteers and leaders and to improve our meeting activities membership attendance.

The senior member upgrade event has helped to attract many members who have been contributing to the profession for a long time and would like to be recognized and elevated to the senior member level. This is recognition that about 5% of all the members will achieve worldwide.

The IEEE Dallas section has been informed by the IEEE history center that the Integrated circuit and the Speak & Spell were selected as IEEE electrical engineering and computer science milestones. We will work with IEEE history center and Texas Instruments to have the recognition ceremony later this year.

Summer is on the way and school will be on the

summer vacation, we still offer many activities during the summer months, please stay in tune to the IEEE Dallas section website and e-Notice announcements.

I wish all IEEE Dallas members enjoy your summer vacation and also enjoy any of our IEEE local meetings, activities, or our IEEE conferences which are held throughout the world and throughout the summer months.

Larry Zhang
 IEEE Dallas Section
 2009 General Chair



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Dallas Section

Chapter Meetings/Events

Technology Management Council (TMC)

Topic: World Energy Crisis (Liquid Fuels)

Date: Friday, June 5, 2009

Time: 11:15 AM to 1 PM

Location: Pasand Indian Cuisine (Southeast Corner Of Coit And Campbell, 2 ½ Miles West Of Highway 75.)
1377 West Campbell Rd.
Richardson TX 75080. Tele. # 972 644 – 4447

Cover: None, although donations are welcome to help us stay on budget!

Speaker: Carol Crom

RSVP: By Wed, June 3, to Bob Bishop. r.bishop@ieee.org
or 903 815 8788 cell

Abstract: In the short term, Liquid Fuel is a more serious problem than the other fuel currently used. Most of our liquid fuels are petroleum based, and alternatives liquid fuels, such as biofuels currently are not available in sufficient quantity to significantly mitigate the liquid fuel emanate near term shortage. Our transportation industry is dependent on mostly on liquid fuel. We are very close to peak oil, and may have already reached peak oil before the recession turned much worse. Many believe that Global Warming issues caused by burning fossil fuels present serious problems for the future. Unfortunately, several of the proposed fuel alternatives do not adequately address the Global Warming issues. I believe that we have an on-going three way race between depletion of Fossil fuels, Global Warming and Alternative "Green Fuels". The first two participants in the race are running toward world economic disaster, but the alternative fuels could lead to world prosperity. At this time, the alternative fuels are far behind in the race. I will discuss some of the primary reasons for concern about liquid fuels in the near future. I will also present some of the potential solutions which I believe to be viable. Biofuels seem to provide the best potential solution for liquid fuel, but the land use requirements are questionable. I will include estimates of the land use requirements for some of the biofuel feedstock. Global Warming issues will be implied but not discussed in any detail. Global Warming Issues could be considered for discussion at a later date.

Speakers' Biography: Mr. Carol Crom is a retired electrical engineer, having worked most of his career for E-Systems, a major US electronics contractor, in the fields of antenna design and systems engineering. In addition, his experience includes: signal processing, precision electronic surveying, and antenna design for space vehicles. Although his career has been in electrical engineering, he has always had a high interest in engines, and wrote this paper for his brother's ADHOC energy group. Mr. Crom received his B.S.E.E. degree from the University of Arkansas in 1952, and his M.S.E.E. from Oklahoma State University in 1960. Mr. Crom served on active duty in the U.S. Army from 1953 -1955, and received a special award for technical contributions to Electronic Warfare System Development. He has received other awards from U.S. defense organizations, while working for E-systems. He has recently been inducted into the Arkansas Academy of Electrical Engineers. He is a life member of the IEEE. Mr. Crom holds three patents in diverse fields of electromagnetics; signal processing, and automobile navigation. He still does part time consulting work for a major U.S Defense Company. Mr. Crom is very active in his community and continues to work for a better and more innovative America.

Contact Information: Bob Bishop. r.bishop@ieee.org 903 815 8788 cell

Consultants Network (CN)

Topic: Five Breakthrough Secrets of Champions (How to Have More Money, and More Time All Leading to a Better Life Style)

Date: Monday, June 8, 2009

Time: Social/Networking/Dinner 6:15 pm Program 6:45 pm.

Location: Holiday Inn Select, 1655 North Central Expressway, Richardson, TX
(South of Campbell Road, west side of Central)

Cover: \$5 for IEEE Members, \$15 for non-IEEE Members/Guests (includes light supper buffet) IEEE members who RSVP may bring a guest for a guest charge of only \$5 if they RSVP by the Friday before the meeting.

Speaker: Bruce Painter

Description:

Five Breakthrough Secrets of Champions (How to Have More Money, and More Time All Leading to a Better Life Style) is an inspirational talk with specific tools to help us breakthrough barriers that prevent success, and help us achieve what we truly desire..

Bruce begins his presentation by giving us keys to help us succeed in our challenging economic times. He also shares some wisdom from working with clients, ranging from an aspiring golf-pro, to a former House Majority Leader, House of Representatives, State of Hawaii, to a successful head of a large Equitable Life Office.

Bruce is an expert in helping us understand what prevents people from achieving their goals. For example, he looks at hidden causes that make people fall behind financially, instead of getting ahead. And he addresses why some people reach a certain level of success, and it seems no matter what they do, they don't go beyond that level.

Be sure to attend this program. Bring a friend. You will leave with inspiration, helpful insight, and specific tools to breakthrough in the attainment of your dreams and aspirations.

Speaker Bio:

Bruce Painter, "The Breakthrough Mogul", is a celebrity author, radio show host and speaker. For over 30 years, he has been speaking to hundreds of audiences, and is a trainer as well as a master coach. Bruce helps us conquer the challenges that exist between where we are and where we want to be, and take the steps to get the results we desire.

Bruce has been featured on radio nationwide, and has been on TV programs including "Pittsburgh Live Today" and "Positively Texas." This media interest is connected to his powerful book titled The Giving Zone. He shows us how to breakthrough to achieve our professional and personal dreams by using the power of giving. Bruce is also creator of The Giving Zone Game that teaches children that giving and values are fun.

Bruce works with independent business professionals and leaders to create breakthroughs to build their business and achieve their personal goals, in order to have more money, better relationships and a better lifestyle.

Tom Okamura, Former Majority Leader, House of Representatives, State of Hawaii, says of Bruce Painter, "I have lowered the amount of stress in my life and have developed an inner calmness that is greatly needed in

Dallas Section

Chapter Meetings/Events

my work. I have personally recommended your services to several close friends who are also very happy with your work."

Bruce is well suited for programs that include training along with speaking – 30 minutes, one hour, half day, full day, or longer.

Bruce has a variety of personal interests including having done archeology in Peru, and a parachute jump in Hawaii. He has also participated in ball-room dance competitions. He and his wife Shoshana Painter, a seminar leader, live in Frisco, Texas.

Electromagnetic Compatibility (EMC)

Topic: Engineering Aspects of Electromagnetic Shielding
Date: June 16, 2009
Time: Refreshments 6 - 7 PM, Meeting at 7 PM
Location: Abbott Laboratory; 1921 Hurd; Irving Texas
Cover: Free
Speaker: Dr. Sergiu Radu, IEEE Distinguished Lecturer
RSVP: BQDude1@tx.rr.com

Program Description:

Every electronic equipment use some type of shielding, and from a theoretical point of view, electromagnetic shielding is among the difficult areas of EMC. The lecture is introducing basic shielding concepts, insisting on their practical limitations, and presents the typical engineering problems associated with shielding. Among the aspects discussed are the materials used for shielding, chassis resonances, shielding integrity problems (seams, joints, apertures, perf patterns), aperture coupling and shield's grounding.

Speakers' Biography:

Dr. Sergiu Radu
Principal Engineer, NCE
Sun Microsystems, Inc.
Electromagnetic Compatibility Design

Website URL: www.DallasEMC.org

Contact Information: Joe.Stanfield@ieee.org

Instrumentation and Measurement (IM) Society

Topic: Using Social Media to Promote Yourself
Date: Thursday, 18 June 2009
Time: Social/Networking/Lunch 11:30 AM Program 12:00 PM
Location: Shuiwah Chinese Restaurant,
400 Greenville Avenue, Richardson, Texas
(South of Arapaho and north of Beltline in the Chinatown Shopping Center)
Speaker: Jack Howe

Cover: \$5 for IEEE Members, \$15 for non-IEEE Members/Guests (Includes lunch buffet)

RSVP: IEEE members who RSVP may bring a guest for a guest charge of only \$5 if they RSVP by the Friday before the meeting. RSVP to lynne.patterson@anritsu.com

Description: Are you tapped into social media such as Facebook and Linked In? Do you know how to use these sites to promote yourself as you look for new opportunities? Join us for a discussion of Social Media and how to use it to your personal advantage.

Microwave Theory and Techniques (MTT)

Topic: A Peak-Search Algorithm for More Efficient Load-Pull Measurements
Date: Tuesday, June 30, 2009
Time: Lunch 11:30 AM / Program 12:00 noon
Location: Shuiwah Chinese Buffet
400 N Greenville Ave #11
Richardson, TX 75081
(972) 907-8868
Speaker: Dr. Charles Baylis, Department of Electrical and Computer Engineering, Baylor University
Charge: Mandatory \$5 (\$10 for non-ieee members). Includes admission and buffet. No charge for student and life members. Please bring your IEEE card to receive the reduced or free pricing.
RSVP: RSVP to csanabria@tqs.com by noon, June 26nd, for restaurant headcount.

Abstract:

A new peak-search algorithm for load-pull measurements will be discussed. The purpose of this algorithm is to reduce the number of reflection-coefficient states necessary to find the optimal amplifier load impedance and maximum power values in simulations and bench-top measurements. The implementation of this algorithm using co-simulation with MATLAB and Agilent Advanced Design System (ADS), as well as on the bench using MATLAB with the Maury Microwave Automated Tuner System (ATS), is discussed. Algorithm test results are presented for both the simulation and measurement cases. In addition, the use of the algorithm for advanced nonlinear model verification is examined. Ongoing research in (1) avoidance of oscillation in unstable devices, (2) the adaptation of the algorithm for simultaneous source- and load-pull, and (3) computational intelligence ramifications of the results are discussed.

Speaker Bio:

Charles Baylis is an Assistant Professor in the Department of Electrical and Computer Engineering at Baylor University in Waco, Texas. Along with Dr. Randall Jean, he directs the Wireless and Microwave Circuits and Systems (WMCS) Program at Baylor. He received the B.S.E.E., M.S.E.E., and Ph.D. degrees from the University of South Florida in 2002, 2004, and 2007, respectively. Dr. Baylis served as a Visiting Assistant Professor at USF from 2007-2008 and joined the Baylor faculty in August 2008. His present research interests include RF active circuit design (power amplifiers, oscillators, frequency multipliers, etc.), microwave transistor modeling, mathematical analysis of engineering problems, and biological applications of RF and microwave measurements and technology. He has authored several papers related to his areas of interest. Recent accomplishments include the development of an algorithm to perform more efficient load-pull measurements and devising a method to model FET trapping effects based on the quiescent operating point.

More information at the MTT website: <http://ewh.ieee.org/r5/dallas/mtt/>

Dallas Section

Chapter Meetings/Events

Communications & Technology (CVT)

The IEEE CVT Dallas chapter is interested in collaborating with other local chapter to explore possibilities of jointly hosting a symposium in Fall 2009/ Spring 2010. If interested, please contact Bobby Chang at bchang@huawei.com or (972)769-3508.

North Texas RFID Group on LinkedIn

Topic: Asset Tracking Success -- RFID Applied in Data Centers

Date: Friday, June 5, 2009

Time: noon

Location: The Italian Club of Dallas,
14865 Inwood Road (just S of Beltline)
Addison, TX

Cost: \$15 cash/check at the door for IEEE Members (same as North Texas RFID Group members) covers 3-course meal

RSVP: To Tammy Stewart at tstewart@rfidjobing.com
or 972.386.9655 x 9975.

Program Description:

Recent successes suggest that there are great ROI opportunities in tagging IT assets. Hardware manufacturers tagging equipment prior to shipment, and end users, are finding RFID to be a real time and money-saver.

Speaker:

Jim Ferguson manages the RFID development programs for DataSpan, a national distributor providing data center products and services. Previously, he was VP, US Business Development for Innovision Research & Technology, a UK based custom chip design firm as well as VP, Strategic Sales for Axxess Technology in Carrollton, TX. He is a past member of the INCIT B10.5 sub-committee for ISO 14443 and past chair of the National Bureau of Standards X-4 Subcommittee.

North Texas RFID Group on LinkedIn

Topic: RFID: Where is it headed?

Date: Friday, July 10, 2009

Time: noon

Location: The Italian Club of Dallas,
14865 Inwood Road (just S of Beltline)
Addison, TX

Speakers: Paul Hartmann, RFID leader in IEEE, and Baldev Nair, RFID product marketing executive

Cost: \$15 cash/check at door for IEEE Members (same as North Texas RFID Group members) covers 3-course meal.

RSVP: To Brian Fraser at bfraserpr@verizon.net
or 972.977.3517 by noon July 8

(seating is limited).

Program Description:

A report on the most recent RFID industry events – IEEE RFID 2009 and RFID Journal LIVE! 2009. Hear from two of this area's top RFID promoters who will present their insight, observations and analysis of current RFID technology research and industry trends.

Speakers:

Paul Hartmann, vice-president of engineering at RF SAW, is an active IEEE member on the Globecom/ICC conferences and chair of a new IEEE Technical Committee on RFID (CRFID). He will talk about the IEEE RFID 2009 conference and what CRFID means to IEEE members

Baldev Nair, vice president of marketing and product management at GlobeRanger Corporation, will analyze this year's trade show and associated executive conference, and discuss what that tells him about the state of the global RFID industry going forward.

The IEEE Dallas Section is an event partner/supporter of this local technology education and networking group because RFID technology is of interest to members in many engineering disciplines/technical societies.

Dallas Section
Chapter Meetings/Events

IEEE Intelligence and Security Informatics Conference

June 8-11, 2009
Hyatt Regency North Dallas

The premier technical conference on tools and technologies that support counter terrorism and promote global security, protecting critical infrastructures.

WORKSHOPS AND TUTORIALS

- Social Networks and Computing
- Healthcare Privacy
- Data Mining and Knowledge Discovery
- Digital Forensics
- Assured Information Sharing

INVITED SPEAKERS FROM

- The National Science Foundation
- The Air Force Research Laboratory
- Rockwell Collins Corp.
- MITRE Corp.
- Stanford University
- Dept. of Homeland Security
- Raytheon Corp.
- IARPA
- Hewlett Packard
- Oak Ridge National Laboratory
- The Open Geospatial Consortium

Details and registration at: www.isiconference.org/2009/



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, special announcements and information for publication should be submitted to William Lumpkins (xillia@ieee.org) The deadline for submission of materials is no later than the 20th of the month prior to the month of publication.

Advertising: *Direction* is distributed to approximately 7,200 members in the Greater Dallas area. Invoicing and/or contractual agreements for advertising are administered by William Lumpkins, Administrative Chairman and Mark Swenholt, Treasurer, IEEE Dallas Section. All ad insertions must be cleared through the executive board before publication. Advertising rates are as follows:

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Dallas Section

Chapter Information

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Website: <http://ewh.ieee.org/r5/dallas/aes/index.html>

| | | |
|-------------------------------|--|----------------|
| Chapter Chair: | Tim D. Reichard | (972) 344-7512 |
| | Tim_D_Reichard@raytheon.com | |
| Program Chair: | Chris Pilcher | (972) 952-3183 |
| | cpilcher@raytheon.com | |
| Secretary / Treasurer: | Mark Gober | (972) 205-4752 |
| | Mark_D_Gober@raytheon.com | |

Antennas and Propagation (AP)

Website: <http://www.ieeedallas-aps.org/>

| | | |
|---------------|--|----------------|
| Chair: | Mr Narindra Nath Lakhanpal | (972) 387-9243 |
| | narindra_lakhanpal@hotmail.com | |

Circuits and Systems (CAS)

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

| | | |
|--|--|----------------|
| General chair: | Sudhind Dhamankar | (214) 567-8914 |
| | sudhind@ti.com | |
| Vice chair: | Mak Kulkarni | (214) 567 5144 |
| | mak@ti.com | |
| Publicity Chair/Secretary: | Arjun Rajagopal | (214) 480-2752 |
| | arjun@ti.com | |
| Program Chair: | Bhaskar Bannerjee | (972) 883-6459 |
| | bhaskar.banerjee@utdallas.edu | |
| Treasurer & Meetings Chair: | Saqib Malik | (214) 567-2373 |
| | sqmalik@ieee.org | |
| Member Chair: | Tuna Tarim | (214) 567-2318 |
| | tuna@ti.com | |
| Member Chair: | Ping Gui | (214) 768-1733 |
| | pgui@enr.smu.edu | |
| Past Chair: | Liming Xiu | (214) 480-4930 |
| | limingxiu@ti.com | |

Communications & Technology (CVT)

Website: <http://www.cvt-dallas.org/>

| | | |
|--------------|--|----------------|
| Chair | Steve Maxwell | (972) 250-1289 |
| | smaxwell@wt.net | |

Computational Intelligence (CI)

| | | |
|------------------------------|--|----------------------|
| Chair: | Dingding Chen | (972) 418-3472 |
| | Dingding.Chen@Halliburton.com | |
| Administrative Chair: | William A. Dembski | (817) 923-1921 x4435 |
| | wdembski@designinference.com | |
| Organization Chair: | Orlando De Jesús | (972) 418-3078 |
| | Orlando.DeJesus@Halliburton.com | |

Computer (C)

Website: <http://chapters.computer.org/dallas/>

| | | |
|-----------------------|--|--|
| Chair: | Jim Bondi | |
| | j.bondi@ieee.org | |
| Vice Chair: | Don Shaver | |
| | shaver@ieee.org | |
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| | schenoweth@ieee.org | |
| Secretary: | Bill Pervin | |
| | Pervin@utdallas.edu | |
| Program Chair: | Jim Bondi | |
| Web Chair: | Jim Bondi | |

Consultants Network (CN)

Website: <http://www.ieeedallascn.org/>

| | | |
|---------------------|--|----------------|
| Chair: | Neil Kaden | (972) 569-0954 |
| | nkaden@sbcglobal.net | |
| Programming: | Maura Schreier-Fleming | (972) 380-0200 |
| | maurasf@sbcglobal.net | |
| Treasurer: | David Stephens | (972) 365-4681 |

dstephens@inventgeniering.com

| | | |
|--------------------|--|----------------|
| Secretary: | Lawrence Spritzer | (972) 740-0134 |
| | lspritzer@earthlink.net | |
| Vice Chair: | Mike Hallett | (972) 394-0714 |
| | mikehallett2@netscape.net | |

Consumer Electronics (CE)

Website: <http://www.dallasces.org/>

| | | |
|--------------------|--|----------------|
| Chair: | Sue Hui | (214) 567-5017 |
| | suehui2000@yahoo.com | |
| Vice Chair: | Mike Hannah | (214) 480-1087 |
| | m-hannah@ti.com | |
| Treasurer: | Anuradha Sundararajan | (214) 293 2537 |
| | sanuradha@ti.com | |
| Secretary: | Adolfo Echeverria | (972) 742-7579 |
| | adolfo@ti.com | |

Education (E)

| | | |
|-------------------|--|----------------|
| Past Chair | William M. Riley | (214) 478-4065 |
| | bill@billrileys.com | |

If you are interested in volunteering/becoming an officer for this society, please contact the past chair, William Riley.

Electromagnetic Compatibility (EMC)

Website: <http://www.dallasemc.org/>

| | | |
|----------------------------------|--|----------------|
| Chair | Joe Stanfield | (972) 523-0017 |
| | Joe.stanfield@ieee.org | |
| Vice Chair | Bob Queen | (972) 672-9268 |
| | BQDude1@tx.rr.com | |
| Vice Chair-Communications | Mike Hollingsworth | (972) 705-1366 |
| | Mike.hollingsworth@sbcglobal.net | |
| Vice Chair - Education | Ron Moser | (972) 278-3133 |
| | caronmo@verizon.net | |

Electron Devices (ED)

| | | |
|--------------|--|----------------|
| Chair | Zeynep Celik-Butler | (817) 272-1309 |
| | zbutler@uta.edu | |

Engineering in Medicine and Biology (EMBS)

| | | |
|--|--|----------------|
| Chair: | Shekar Rao | (214) 480-1756 |
| | shekar@ti.com | |
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| | issapanahi@ieee.org | |
| Secretary & Workshops/Conference: | Dinesh Bhatia, PhD | (972) 883-2386 |
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| Treasurer: | Mark Swenholt | |
| | swenholt@scenpro.com | |
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| | chaneyr@utdallas.edu | |
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| | b.diong@tcu.edu | |
| Executive Committee Member: | Elisabeth Marley | (214) 768-1891 |
| | emk@ieee.org | |

Engineering Management (EM)

| | | |
|---------------|--|----------------|
| Chair: | Bob Bishop | (903) 482-5320 |
| | r.bishop@ieee.org | |

Microwave Theory and Techniques (MTT)

Dallas Section Chapter Information

Website: <http://ewh.ieee.org/r5/dallas/mt/>

| | | |
|--|-----------------|----------------|
| Chair: qzhang4504@yahoo.com | Qi Zhang | (972) 208-2970 |
| Vice Chair: jim.carroll@awrcorp.com | Jim Carroll | (214) 228-3784 |
| Program Chair: largey@ti.com | Hank Largey | (214) 205-1342 |
| Treasurer: claudio_m_montiel@yahoo.com | Claudio Montiel | (972) 979-9908 |
| Secretary: csanabria@tqs.com | Chris Sanabria | (972) 994-5662 |
| Webmaster: weimin.peng@iongeo.com | Wei-men Peng | (214) 666-7610 |
| Student Activities Chair: skarke@gmail.com | Bryan Skarke | (713) 408-8346 |
| Membership: l-zhang@ti.com | Larry Zhang | (214) 567-3170 |

Photonics Society (PH)

Website: <http://enr.smu.edu/leos/>

| | | |
|--|-------------------|----------------------|
| Chair reddyu@ieee.org | Reddy N. Urimindi | (972) 523-3029 |
| Vice Chair: chuang@lyle.smu.edu | Joy H. Chuang | (214) 768-1464 |
| Secretary: amasabo@mail.smu.edu | Arlene Masabo | (214) 768-3405 |
| Treasurer: lljiang@photodigm.com | Linglin Jiang | (972) 235-7584 x2229 |

Power and Energy (PE)

Website: <http://ewh.ieee.org/soc/pes/dallas/>

| | | |
|---|---------------------|----------------|
| Chair: wdsako@verizon.com | William (Bill) Sako | (214) 288-5315 |
| Secretary/Treasurer : gluke@gaiconsulting.com | George Luke | (972) 490-7661 |
| Publicity Chair: jvance@blumeng.com | Jessica Vance | (214) 532-8403 |
| Webmaster: scarr@dwce.com | Stacy Carr | (972) 818-0264 |

Power Electronics (PELS)

Website: <http://www.Dallaspels.org>

| | | |
|-------------------------------------|---------------|---------------------|
| Chair: dmarabell@ieee.org | Don Marabell | (469) 330-9100 x230 |
| Vice Chair: | Aaron Xu | |
| Treasurer: | Zao Yang | |
| Secretary: | Brent Markham | |

Reliability (RL):

| | | |
|---------------|-------------|---------------|
| Chair: | Faye Bilger | (972)523-7679 |
|---------------|-------------|---------------|

| | | |
|---|--------------|----------------|
| fbilger@raytheon.com | | |
| Vice Chair: yohe@telmarnt.com | Thomas Yohe | (972) 477-2304 |
| Secretary: Chance_Kelly@raytheon.com | Chance Kelly | (972) 952-4185 |
| Technical Program Chair: m-tam2@raytheon.com | Milton Tam | (972) 344-5230 |
| Treasurer: lon.e.chase@raytheon.com; l.chase@ieee.org | Lon Chase | (972) 344-3138 |
| Membership Chair: r.d.knerr@ieee.org | Ron Knerr | (972) 995-1527 |

Signal Processing (SP):

Website: <http://www.utdallas.edu/~kehtar/ieee-sp>

| | | |
|---|--------------------|----------------|
| Chair kehtar@utdallas.edu | Nasser Kehtarnavaz | (972) 883-6838 |
| Vice Chair issa.panahi@utdallas.edu | Issa Panahi | (972) 883-2784 |
| Treasurer xinrong@unt.edu | Xinrong Li | (940) 891-6875 |
| Secretary pervin@utdallas.edu | William Pervin | (972) 883-2719 |

Solid-State Circuit (SSC):

| | | |
|--|---------------|----------------|
| Chair: gongguixu@yahoo.com | Gonggui Xu | (214) 680-6688 |
| Vice Chair: t0199939@comcast.net | Tan Du | |
| Treasurer: wbzhang@ti.com | Weibiao Zhang | |
| Program Chair: pgui@enr.smu.edu | Ping Gui | |
| Meeting Chair: hjia@ti.com | Huawin Jin | |
| Secretary: dalasengineer@yahoo.com | Sachit Garg | |

Technology Management Council (TMC):

| | | |
|--|----------------------|----------------|
| Chair: r.bishop@ieee.org | Mr. Robert B. Bishop | (903) 815-8788 |
| Vice Chair: narindra_jakhanpal@hotmail.com | Mr Paul Lakhapal | |
| Secretary/Treasureur: mohit.05@gmail.com | Mr Mohit S. Malhan | (214) 356-5714 |

Life Member Group (LMG):

| | | |
|---|---------------------------|----------------|
| Chair: narindra_jakhanpal@hotmail.com | Mr Narindra Nath Lakhapal | (972) 387-9243 |
| Vice Chair: r.bishop@ieee.org | Mr. Robert B. Bishop | (903) 815-8788 |