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IEEE Dallas Section: Direction

October 2008

Volume 52, Number 2

From the Chair

By Robert Shapiro

Dear IEEE Dallas Section Colleagues,

As we roll into October and Fall 2008 there are plenty of activities within IEEE in Dallas to discuss.

With our 20+ Society chapters and affinity groups in session there are local technical and professional development topics of interest to most if not all of our 5000+ members.

The Section will have a combined meeting with the IEEE Consultants' Network Affinity group on Monday, October 13th, at the Holiday Inn Select in Richardson.

We are planning another Senior Upgrade networking event which was just announced today. We have elevated about 75 senior members each year for the past 3 years under this program and it has been a great success.

We are also planning an Officer Training event and a 2009 Budget event soon.

Please note in the newsletter that there are 3 symposia in Dallas this month.

The IEEE Membership Development Council tells us that they have a membership campaign in place to renew members for 2009 that starts now in October. Please let me know if you have membership questions and I can try to answer them or refer you to the proper resources.

Have a great day, week, and month and please let me know if I can be of service.

Sincerely,
Bob Shapiro
IEEE Dallas Section
2008 General Chair
bshapiro@ieee.org



Joint meeting between IEEE Dallas Section and IEEE Consultants network

Topic: How to Write to Persuade Upper Management

Date: Monday, October 13, 2008

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)

Speaker: Chuck Lustig, Exciting Writing (www.ExcitingWriting.com)

Cover: \$5 for IEEE Members, \$15 for non-IEEE Members/Guests (includes light supper buffet) IEEE members who RSVP may bring a guest at no additional charge.



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Dallas Section

Chapter Meetings/Events

Consultants Network (CN)

Topic: How to Write to Persuade Upper Management

Date: Monday, October 13, 2008

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)

Speaker: Chuck Lustig, Exciting Writing (www.ExcitingWriting.com)

Cover: \$5 for IEEE Members, \$15 for non-IEEE Members/Guests (includes light supper buffet) IEEE members who RSVP may bring a guest at no additional charge.

Abstract/Description: Chuck will share his unique experience and insights so you will be able to write more persuasively.

Speaker Bio: Chuck's experiences are:

* After graduating from Rutgers University he served as a Peace Corps volunteer in Colombia, South America -- in a village called Manaure. While training for the Peace Corps in Mexico, he was exposed to dire poverty for the first time. He became fluent in Spanish, got a lot of practice riding horses, and met a lot of interesting people.

* He attended the Writers' Workshop at the University of Iowa, and, after graduating with an M.F.A., stayed on in Iowa City and wrote short stories and novels.

* He worked at large advertising agencies in New York City for eight years, writing mainly TV commercials for package goods products -- Arrid Extra Dry, Halls Mentholypus, Arm & Hammer Dental Care and many others. He mastered a highly disciplined, marketing-oriented approach to copy.

* He married Suzie Weitzman in 1979, and, completed the New York Marathon in 1980. For the last thirteen years he has been a freelance writer based in Dallas, specializing in high tech and health care subjects. He has two children -- Vanessa, 13; and Cara, 6.

* He taught storyboard and script design for multimedia, radio, video and TV at Collin County Community College (Spring Creek campus) for three years.

Consumer Electronics (CES)

Topic: The Camera Phone Evolution

Date: Tuesday, October 14th, 2008

Time: Lunch/Chapter business: 11:30 AM - 11:45 P.M.
Program: 11:45 - 12:45 P.M.

Location: Holiday Inn Select, Richardson
1655 N. Central Expressway (US 75)
(Southbound frontage road, south of Campbell)
Richardson, TX 75080

Speaker: Mike Hannah, Texas Instruments Inc.

DOOR PRIZES

Abstract: One exciting facet of the consumer electronics market the past few years has been the camera phone. The adoption of the camera into mobile phones has accelerated each year. This presentation will take a look at how the mobile phone camera technology has evolved and discuss some of the technology trends to see where it is going

Biography: Mike Hannah currently manages the Systems Engineering team for the Camera Phone Business Unit at Texas Instruments. He has been with TI since 1989 working initially in the Defense Systems

and Electronics Group and later joining the Semiconductor Group in 1996. Mike was elected Member of the Group Technical Staff in 2001 and Senior Member of the Technical Staff in 2005. He holds a MSEE from University of Texas at Dallas and a BSEE from Auburn University.

For additional information, please contact Sue Hui at (214)567-5017, shui@ti.com or visit our website: <http://www.dallasces.org/>

Electromagnetic Compatibility (EMC)

Topic: EMC War Stories

Date: Wednesday, Oct. 22, 2008

Time: Refreshments 6:00 PM Program 7:00 PM

Location: Rohde & Schwarz
8080 Tristar Drive
Irving, TX 75063
If you need help finding the meeting location contact James Young 817.675.7481 or james.young@rsa.rohde-schwarz.com

Speaker: Carl Irby

RSVP: To Joe Stanfield, joe@swelectronic.com

Program Summary: This program is moderated by Carl. It's primary focus is stories told by EMC Professionals of their unusual experiences (good, bad, and whatever). This is a fun program allowing all to participate. Bring your story and have some fun !!

Our Speaker: Carl Irby - Chapter Chair

For additional program information, refer to the Dallas EMC Chapter Website, <http://www.DallasEMC.org>

Solid-State Circuit (SSC)

Topic: Industrialization of MEMS

Date: Wednesday, Oct. 22, 2008

Time: 12:00 p.m.

Location: Texins Activity Center,
13900 North Central Expressway,
Dallas, TX 75243

Speaker: Werner Weber, Infineon Technologies

Abstract: Micro-Electro-Mechanical Systems (MEMS) have been a research focus in academia and industry since many years. A few years ago, disillusionment occurred, caused by the difficulty in creating profitable businesses. As a consequence many industrial firms backed out of the field. More recently, however, several examples of successful industrializations of MEMS appeared and carried major encouragement back into the research community.

This presentation plans for a short overview both on the technical concepts used today and providing information about important economic trends in this field. The presentation will introduce important MEMS architectures such as digital mirror devices, bulk acoustic wave devices, pressure, acceleration and gyro sensors, inkjet printer heads, and discuss various future application and technology concepts.

Dallas Section Chapter Meetings/Events

Microwave Theory and Techniques (MTT)

Topic: GaN-on-Silicon RF Power Devices – Current State & Future Directions

Date: Tuesday, October 28, 2008

Time: Lunch 11:30 AM / Program 12:00 noon

Location: Pasand-Indian Cuisine
1377 W Campbell Rd, Richardson, TX
(972) 644-4447

Speaker: Dr. Kevin Linthicum, CTO of Nitronex Corporation

Cover: Mandatory \$5 (\$10 for non-IEEE members) includes admission and buffet. No charge for Student and Life Members.

RSVP: Please RSVP to csanabria@tqs.com by noon, October 24th, for restaurant headcount.

Abstract: A GaN-on-Silicon platform technology has been developed to provide the RF performance advantages of GaN combined with the manufacturing advantages of silicon. The NRF1 process technology based on 0.5 micron gate length has been formally qualified for 28V operation and released to production. Extensive reliability studies have been performed yielding demonstrated EA=2.0eV predicting an MTTF of 10E7 hours at 200C junction temperatures. Nine discrete transistor products are available today ranging in power levels of 4W to 200W using air-cavity and plastic over-mold assembly techniques. The enhanced NRF2 platform is currently in qualification and targets 48V operation which will support the production release of a family of high power transistors for WiMAX, Cellular and Broadband market applications, release date targeted for early 2009. Additionally, an NRF1 MMIC process flow is in final stages of qualification and expected to be released by the end of 2008. Finally, early work is underway to develop 0.2 micron gate length capability and initial performance levels will be summarized.

Speaker Bio: Kevin Linthicum is the founder and Chief Technology Officer of Nitronex Corporation, an NCSU start-up incorporated in 1999. Kevin is responsible for the materials, process, product engineering and advanced technology activities at Nitronex. Prior to forming Nitronex, Kevin completed his Ph.D. in Materials Science & Engineering focusing on the growth of Gallium Nitride semiconductors using MBE and MOCVD. Kevin earned his B.S. in Materials Science & Engineering at Virginia Tech in 1993. Before pursuing his academic studies, Kevin served in the U.S. Naval Trident Submarine Force from 1980-1988 in nuclear propulsion & engineering.

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



2008 IEEE APS - MINI SYMPOSIUM ON EMERGING TECHNOLOGIES

October 8, 2008
www.ieee-ets-2008.org

Holiday Inn Select
RICHARDSON, TX

From the heart of the Telecom Corridor® area, the Dallas Chapter of the IEEE Antenna Propagation Society (APS), in cooperation with the IEEE Life Members Group (LMG), IEEE Technology Management Council (TMC), IEEE Communications & Vehicular Technology (CVT) society, IEEE Computer Society Laser and Electro-Optics Society (LEOS), IEEE Microwave Theory and Techniques (MTT) Society and IEEE Dallas Section brings together international experts, educators, and colleagues for an One day Mini-symposium of Technical sessions, Panel discussions to address emerging technologies and their applications.

Session Topics include:

Ultra Wide Band (UWB), Sensor Networks, Antenna for Biomedical Applications, MEMS for High Frequency Applications, Implantable Antenna, Low Power Technology, Meta Material for Electrically Short Antenna, Silicon Technology for High Frequency Applications

Program:

8:00 AM	Registration
8:45 AM	Introduction
9:00 AM - 12:00 PM	Morning Session
12:00 PM - 2:00 PM	Lunch – Panel Discussion
2:00 PM – 4:30 PM	Afternoon Session
4:30 PM – 7:00 PM	Reception & Networking

Location:

Holiday Inn Select, 1655 N. Central Expressway, Richardson, TX
TEL: (972) 238-1900

Fees (Lunch /Snacks / Reception Included):

\$55 for IEEE members
\$65 for non-members
\$30 for Students and IEEE Senior members

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Web site
www.ieee-ets-2008.org

Dallas Section
Chapter Meetings/Events

2008 Symposium on October 21, 2008
Holiday Inn Select, 1655 N. Central, Richardson, TX



Convergence for the Future

RBOCs are becoming cable TV providers, cable companies are providing fixed voice services, there is much service bundling, and newcomers like Google will change the whole competitive telecom world. There are major convergence trends today between wireless and fixed networks, IT/consumer electronics and telecom industries, consumers and enterprises, etc. The panel session will discuss why convergence is happening and what it will look like in the future.

Conference Program:

October 21, 2008

10:30 – 11 am: Registration

11:15 – 12 pm: Convergence in DSP
Gene Frantz, Principal Fellow, **Texas Instruments**

12 - 12:45 pm: LUNCH
Convergence Trends Between Wireless and Fixed Networks
Michael Montemurro, Technical Director of WLAN Architecture, **RIM**

1 pm – 2 pm: Convergence for the Future and the Impact on our Lives.
Panelists: Charlie Martin, **Huawei**, Wireless CTO; Larry Socher, Global Lead of Network Offerings, **Accenture**; Cliff Hall, VP Technology, **RipCode**

2 – 3 pm: When Worlds Collide – the Convergence of IT and AV
Robert Noble, CTO, **AMX**

REGISTRATION

IEEE Members: \$35

Non-IEEE members \$45

Name: _____ Company: _____

Address: _____

Email: _____ Phone: _____

IEEE #: _____

Please pay via PayPal. After registering, use this email address as the Payee: **Judah@JudahEpstein.com**

For more information contact the Symposium Chair, **Bobby Chang** at bchang@huawei.com

BEST Robotics Coaches and Volunteers Needed

The 2008 BEST (Boosting Engineering, Science, and Technology) Robotics Competition, "Just Plane Crazy!", is now organizing high school teams and is looking for volunteers both to mentor and coach student teams and to help set-up and run the competition events. Some of the ways you can get involved include: team coaching, competition set-up and clean-up, judging, and refereeing. We need volunteers on the following dates:

Dallas BEST (Dallas County, <http://www.dallas-best.org>)

Kickoff:	Sept 13	(Raytheon North Building)
Mall Day:	Oct 11	(location TBD)
Competition Setup:	Oct 24	(UT-Dallas)
Competition:	Oct 25	(UT-Dallas)

CoCo BEST (Collin County, <http://www.cocobest.org>)

Kickoff:	Sept 6	(Wylie High School)
Mall Day:	Oct 11	(Plano Market Center)
Competition Setup:	Oct 17	(Ereckson Middle School)
Competition:	Oct 18	(Ereckson Middle School)

Cowtown Best (Tarrant County, <http://www.cowtownbest.org>)

Kickoff:	Sept 20	(TCU)
Mall Day:	Oct 25	(Ridgmar Mall)
Competition Setup:	Oct 31	(location TBD)
Competition:	Nov 1	(location TBD)

North Texas Best (Grayson County, <http://www.ntbest.org>)

Kickoff:	Sept 13	(Texas Instruments)
Mall Day:	Oct 18	(Midway Mall)
Competition Setup:	Oct 24	(Gunter High School)
Competition:	Oct 25	(Gunter High School)

Denton County Best
(<http://www.bestinc.org/MVC/Hub/display?hub=7>)

Kickoff:	Sept 13	(UNT)
Mall Day:	Oct 18	(Golden Triangle Mall)
Competition Setup:	Oct 24	(UNT)
Competition:	Oct 25	(UNT)

For more information about the competition, go to any of the above websites or to <http://www.bestinc.org>.

To volunteer with Dallas BEST, contact Jon Spangler at j-spangler@raytheon.com. For CoCo BEST, contact Monica Nunez at m-nunez1@raytheon.com. To get involved with any of the other BEST "hubs", please contact the volunteer coordinator listed on the respective web site.

You'd be surprised at what these young folks can do, but they need your help to succeed. We look forward to hearing from you!

Dallas Section
Chapter Meetings/Events

IEEE Dallas Section Senior member Upgrade at UTD

Date : **Saturday, October 25, 2008**
Time : 1pm to 3pm
Location : University of Texas at Dallas, Richardson Campus
2601 North Floyd Road
Richardson, Texas 75080
Venue : **ECSS 2.201 and ECSS 2.203**
Parking : <http://www.utdallas.edu/campusmap.html>

Schedule

12:00-1:00 Lunch and networking
1:00-3:00 senior member Upgrade event

SM Applicant Information :

IEEE Dallas section members interested in upgrading their membership are asked to bring the following documents for completing the SM application process :

- Electronic copy of your resume
- Brief Biography of the candidate detailing significant achievement over the last five years in the industry.

Existing IEEE Senior and Fellow members will be at the meeting to help with the SM application. They will also serve as references after reviewing the resumes and talking to the interested candidates. It is important for interested candidates to provide an updated resume and other relevant documents for the nominees to complete the nomination process online.

Event details :

If you meet the two criteria below, then you are eligible to apply for upgrade to Senior Member Grade.

1. Ten years of professional experience

Your educational experience is credited toward that time as follows:

- 3 years for a baccalaureate degree in an IEEE-designated field
- 4 years if you hold a baccalaureate and masters degree
- 5 years if you hold a doctorate

2. Five years of significant performance such as:

- Substantial engineering, responsibility or achievement
- Publication of engineering or scientific papers, books or inventions
- Technical direction or management of important scientific or engineering work with evidence of accomplishment
- Recognized contributions to the welfare of the scientific or engineering profession
- Development or furtherance of important scientific or engineering courses that fall within the IEEE designated fields of interest
- Contributions equivalent to those of (a) to (e) above in areas such as technical editing, patent prosecution or patent law, provided these contributions serve to substantially advance progress in IEEE designated fields.

Complete upgrade information, including requirements can be found at :

<http://www.ieee.org/organizations/rab/md/smprogram.html>

If you meet these requirements but never seem to have the time to complete an application, we invite you to come to the IEEE Senior Member Upgrade Event organized by the IEEE Dallas Section.

IEEE SM forms and related information are available for reference at :

<http://www.ieee.org/organizations/rab/md/smforms.htm>

Please familiarize yourself with the requirements and bring the necessary documents to avoid any potential issues during the event.

Existing IEEE Senior Members and IEEE Fellows :

The IEEE Dallas Section is also requesting the support of existing IEEE Senior Members and IEEE Fellows to attend this event and serve as references. If you are a Senior Member or IEEE Fellow who is part of the Dallas Section and would like to help out with this event,

Please feel free to contact:

Rajan, Dinesh IEEE Dallas Section Admin Chair rajand@engr.smu.edu
or IEEE Dallas Section Vice Chair

Lary Zhang l-zhang1@ti.com

Dallas Section

Chapter Information

Aerospace and Electronic Systems (AES)

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

Chapter Chair: Tim D. Reichard (972) 380-6605
Tim_D_Reichard@raytheon.com

Program Chair: Jared Ellington (214) 654-5660

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
sudhind@ti.com

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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/>

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j.bondi@ieee.org

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Consultants Network (CN)

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

Chair: Neil Kaden
kaden@circleNK.com

Consumer Electronics Society (CES)

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

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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 Carl Irby (817) 777-9161
carl.a.irby@lmco.com stanfield_joe@yahoo.com

Electron Devices (ED)

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

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r.bishop@ieee.org

Laser & Electro-Optics (LEO)

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

Chair Reddy N. Urimindi (972) 523-3029
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Microwave Theory and Techniques (MTT)

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

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Secretary: Chris Sanabria
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Program Chair: Jim Carrol
Jim_Carroll@raytheon.com

Program Chair: Hank Largey
largey@ti.com

Power Engineering (PE)

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

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wdsako@verizon.com

Secretary/Treasurer : George Luke
gluke@cpyi.com

Publicity Chair: Jessica Vance (214) 532-8403
jvance@blumeng.com

Webmaster: Stacy Carr (972) 818-0264
scarr@dwcce.com

Power Electronics (PELS)

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

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dmarabell@ieee.org

Vice Chair: Aaron Xu

Treasurer: Zao Yang

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Reliability (RL):

Chair Lon Chase (972) 952-3138
lon_e_chase@raytheon.com

Signal Processing (SP):

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

Chair Nasser Kehtarnavaz (972) 883-6838
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Solid-State Circuit (SSC):

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Vice Chair: Tan Du
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Treasurer: Weibiao Zhang
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narindra_lakhanpal@hotmail.com

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We currently have a variety of challenging technical positions available in our R&D department. Candidates should send their resume directly to careers@ans-medical.com. We have multiple openings at every experience level for Electrical and Biomedical Engineers with the following interests:

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- RF Communications (401MHz – 406MHz)
- Low Power Mixed-Signal Hardware
- System Integration & Test
- Embedded Systems
- Program Management



For more information please visit www.ans-medical.com/careers



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 Dinesh Rajan (rajand@engr.smu.edu) 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 Dinesh Rajan, 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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