



IEEE



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## From the Editor

Welcome to the September issue of Directions. This issue contains a calendar of the September meetings, followed by meeting descriptions, and finally a list of contacts for each of the societies. I am your new editor and it was a scramble to get this to you. On 20 August, I volunteered for this role, only to discover that the deadline for the newsletter is the 20<sup>th</sup> of the month. I hadn't started and I was already late.

Having no list to work from, I sent an email to every contact email in the June newsletter asking for help. And the replies poured in! You are holding the results in your hands.

We have amazing people in our Dallas section. Why don't you choose a meeting or two this month and join in? Come out and meet some of your fellow engineers. Who knows? You could make a new friend, reconnect with an old co-worker, or learn something. And best of all, you will have a little fun!

Lynne Patterson



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](mailto:xillia@ieee.org)) The deadline for submission of materials is no later than the 20th of the month prior to the month of

publication.

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Dallas Section Calendar – September 2009	
Friday, September 4, 2009	North Texas RFID Group on LinkedIn
	How to Gather Business Intelligence from Smart Retail Fixtures
	Lunch 12 PM
Monday, 14 September 2009	Consultants Network
	Manage Your Energy, Not Your Stress During Transitions
	Social/Networking/Dinner 6:15 pm / Program 6:45 pm.
Tuesday, 15 September 2009	Communication Society and Vehicular Technologies Society
	Topic to be determined
	Registration/lunch 11:15 AM / Program 12:00 – 1:00 PM
Thursday, 17 September 2009	Instrumentation and Measurement Society (IM)
	Managing High-Maintenance Personalities
	Lunch 11:30 AM / Program 12:00 PM
Friday, 18 September 2009	Technology Management Council (Joint with Life Members)
	Energy ideas you can use for your home and business
	11:15 AM to 1:00 PM
Tuesday, 22 September 2009	Aerospace and Electronic Systems Society (AESS)
	DSP Technology
	Full Buffet 6:30 PM / Program 7:00 PM
Friday, 25 September 2009	Computer Society
	The Norden Bombsight
	Lunch 11:30 AM / Program 12:15 – 1:00 PM.
Tuesday, 28 September 2009	Microwave Theory and Techniques (MTT)
	An Encore of Two International Microwave Symposium Presentations
	Lunch 11:30 AM / Program 12:00 noon

## Aerospace and Electronic Systems Society (AESS)

Topic/Title	DSP Technology
Date	Tuesday, 22 September 2009
Time	Full Buffet 630 PM / Program 700 PM
Location	Holiday Inn Select – Richardson 1655 N. Central Expressway (South-bound service road of Central Expressway (US-75), south of Campbell Road, and north of Collins Road.
Cover	\$5 for IEEE members \$5 for non-IEEE members
Speaker	Mr. Brian Kurtz, Altera Inc.

**Description** In the past, FPGAs were relegated to module level or glue logic functionality, but current silicon technology advances as prescribed by Moore's Law are obviously enjoyed by FPGAs as are all silicon devices. How can we take advantage of FPGAs that allow us to develop an entire system on a single chip? How can we manage this process? From a practical perspective, there is not a single solution to this problem as it encompasses debugging, integration, verification, and module development. However, the lack of a single solution does not prevent the application of an array of point solutions to improve productivity.

Altera is working on high-level synthesis technology that has the potential to solve the productivity problem for feed forward, dataflow type modules. This collection of technology allows the user to describe the intent of an algorithm in its native dataflow graph representation, and automatically construct a working netlist that is timed to meet performance in a specified FPGA, timeshare resources automatically, and represent high-level mathematical concepts like complex vector mathematics. This discussion will include how floating-point math can be targeted more efficiently into FPGAs using this technology by fusing the otherwise wasteful practice of cascade normalization and equalization elements between FPGAs. This can further improve productivity by making floating point practical and possibly reducing the need for complex fixed-point analysis in some cases.

The presentation will review this concept, discuss how it could improve productivity, and present further research needs to address complimentary areas.

**Speaker Bio** Brian Kurtz has a background in algorithm development in FPGAs, with in-depth knowledge in designing DSP systems, such as partitioning for dataflow or control/data plane separation. Previous areas of development on FPGAs included Crypto engines, DSL noise cancellation algorithms, FPGA based database acceleration, wireless modem and radio SoC's for WiMAX, adaptive beam forming, and other algorithmic accelerators. Brian currently works for Altera as a DSP specialist working with customers to leverage FPGA technology, including system (SoC) and algorithmic level issues.

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Chair, IEEE AES Society  
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Website URL <http://ewh.ieee.org/r5/dallas/aes>

## Consultants Network

Topic/Title	Manage Your Energy, Not Your Stress During Transitions
Date	Monday, 14 September 2009
Time	Social/Networking/Dinner 615 pm / Program 645 pm.
Location	Holiday Inn Select – Richardson 1655 N. Central Expressway (South-bound service road of Central Expressway (US-75), south of Campbell Road, and north of Collins Road.
Cover	Includes light supper buffet  \$5 for IEEE Members and CN Members  \$15 for non-IEEE Members/Guests  IEEE members who RSVP may bring a guest for a guest charge of only \$5 if they <a href="#">RSVP by the Friday before the meeting.</a>
Speaker	Robert A. Rausch, Ph.D. the Energy Doctor

**Description** Manage Your Energy, Not Your Stress During Transitions - the purpose is to help people effectively use their personal energy during the many transitions in life. Managing energy in stress will boost your decisiveness to make tough personal or job decisions, turn self-criticism into positive learning experiences, and replace doubt with the belief that situations will work in your favor.

The objectives for the presentation are

- To address how to help engineers reduce the pressure they put on themselves
- Give more credit to themselves for what they do
- Help engineers accept how much impact and influence they have on people

**Speaker Bio** Dr. Bob is Founder and CEO of 1 Executive Energy. He is recognized as North America's leading authority on personal and enterprise energy. He is a facilitator and coach for executives, managers, and their teams. Dr. Bob is also a popular speaker, author, and workshop leader for organizations and associations. He is known for his compelling "Energy Message" that inspires people to make long-term substantive changes in their personal and professional lives.

Since 1975, Dr. Bob has inspired and challenged individuals, corporate leaders and their teams to unlock their potential and discover the keys to successful communication and productivity by effectively managing their energy resources. He is the author of "Energy Matters – How To Tap The Power Within", "The Power Factor", "High Energy Pharmaceutical Sales – Guidelines From The Frontlines" and his most recent release, "I Don't Dress Dead People - Live an Energized Life Without Burning Yourself Out." He has hosted his own Talk Radio Program, Strategies For Living, and has written numerous articles for business organizations and associations.

Dr. Bob was privileged to receive The Reader Favorite Award for 2003 and 2004 from the Fabricator & Manufacturer Association International. A Ph.D. in Clinical Psychology supports his knowledge and experience in the various facets of his work. He is a Registered Corporate Coach and a Certified Executive Coach.

**RSVP Contact** [http://meetings.vtools.ieee.org/meeting\\_view/list\\_meeting/963](http://meetings.vtools.ieee.org/meeting_view/list_meeting/963)

**Contact** maura@bestatselling.com

## Instrumentation and Measurement Society (IM)

Topic/Title	Managing High-Maintenance Personalities
Date	Thursday, 17 September 2009
Time	Social/Networking/Lunch 1130 AM / Program 1200 PM
Location	Pasand Indian Restaurant 1377 West Campbell Road Richardson , Texas 75080 (Southeast quadrant of the Coit/Campbell intersection, west end of strip next to Richardson Bike Mart) 972-644-4447
Cover	Includes Lunch buffet  FREE for I&M Members  \$5 for IEEE Members  \$15 for non-IEEE Members/Guests (Includes lunch buffet)  IEEE members who RSVP may bring a guest for a guest charge of only \$5.
Speaker	Lin O'Neill, President Futures Consulting

Description High-maintenance personalities are a “direct hit” to the bottom line of an organization and an emotional drain on those with whom they work and interact. Learn why employees, bosses, peers, vendors, and others adopt a high-maintenance persona and how to help them become effective, high-performers ...quickly.

Speaker Bio Lin O'Neill, president of Futures, is a business and organizational visionary who gets results. She is uniquely skilled in helping individuals, teams and organizations—in both the profit and nonprofit sectors--articulate goals and drive to closure while maximizing employee morale.

As a successful corporate executive and entrepreneur, Lin draws upon vast experience with turnarounds, coaching and training, project management, business process definition and implementation, culture change, and multi-level/cross-functional teams for cost reduction and productivity increase.

Lin brings to an organization

- Practical experience;
- Personal integrity;
- Measurable results;
- Employee empowerment and action initiation;
- Superior strategic planning capability;
- Systemic leadership which incorporates the entire organizational system.

Lin also brings a warmth and sensitivity to her work, teaching clients to empower themselves and others while driving results, encouraging creativity, resolving conflicts and reaching closure.

Contact and RSVP Lynne Patterson  
Program Chair, IM Society  
[lynne.patterson@anritsu.com](mailto:lynne.patterson@anritsu.com) or 972-890-1031

## Computer Society

Topic/Title	The Norden Bombsight -- It could drop a bomb from 30,000 feet into Pickle Barrel. Or could it?
Date	Friday, 25 September 2009
Time	Lunch 1130 AM / Program 1215 – 100 PM.
Location	Texas Instruments South Campus, Conf Rms S1,S2 (Behind South Lobby at southeastern most-entrance) 12500 TI Blvd Dallas, TX 752423
Cover	Lunch \$10; Talk free.
Speaker	Harvey Cragon

Description The Norden Bombsight is the vaunted analog computer of WWII. This device claimed to be so accurate that with it a bomber, flying at 30,000 feet, could put a bomb in a “pickle barrel”.

The requirement for accurate bombing is to be at the right place (in three dimensions) at the right time to drop a bomb that will hit the target. Carl Norden’s design philosophy and implementation of this bombsight will be described. The Norden Bombsight is a compact special purpose electro-mechanical computer with many clever implementation features devised to solve the triangular bombing problem.

Unfortunately, there was an error (or oversight) in understanding the environment when bombing from 30,000 ft. and an implementation oversight expanded the diameter of the pickle barrel to 1 mile (much better than the RAF could do). By 1943 this once super-secret device was being removed from most high altitude bombers.

However, the Norden Bombsight was used to drop the atomic bombs on Japan. The reason it worked there will be explained.

Speaker Bio Harvey Cragon is Professor Emeritus at UT Austin. Prior to his academic career, he was with Texas Instrument for 25 years in Dallas and Austin. For over 35 years, his research interests have been in high-speed computers and computer architecture design methodology.

Professor Cragon received his BSEE from Louisiana Polytechnic Institute in 1950. He was presented the IEEE Emanuel R. Piore Award in 1984 and the ACM/IEEE Eckert-Mauchly Award in 1986. He is a member of the National Academy of Engineering, a Life Fellow of the IEEE and a Fellow of the ACM.

Mr. Cragon holds 9 patents in the field of Computer Engineering and has over 50 refereed conference or solicited papers. He is the author of three textbooks. His current interest is in the Norden Bombsight, an electromechanical computer used in WWII to guide a bomber into the proper position to accurately drop bombs from high altitudes.

Contact and RSVP      Jim Bondi  
[bondi@ti.com](mailto:bondi@ti.com) or 214-567-2637

### **Technology Management Council (Joint with Life Members)**

Topic/Title      Energy ideas you can use for your home and business

Date      Friday, 18 September 2009

Time              1115 AM to 1 PM

Location          Holiday Inn Select – Richardson  
1655 N. Central Expressway  
(South-bound service road of Central Expressway (US-75), south of Campbell Road, and north of Collins Road.

Cover              None. (Please donate to cover the cost of lunch!)

Speaker          Mr. Bryan McNeil

RSVP Contact    Mr. Bob Bishop  
[r.bishop@ieee.org](mailto:r.bishop@ieee.org) or 903 815 8788

### **Communication Society and Vehicular Technologies Society (CVT)**

(ComSoc & Vehicular Technologies Society are combined in the Dallas Section)

Topic TBD

Date Tuesday, 15 September 2009

Time Registration/lunch 1115 AM; speaker 12 PM – 1 PM

Location          Holiday Inn Select – Richardson  
1655 N. Central Expressway  
(South-bound service road of Central Expressway (US-75), south of Campbell Road, and north of Collins Road.

Cover              No cost to attend to listen to speaker  
  
Lunch \$15 for IEEE members, \$20 for non-members

RSVP Contact    Traci King, 972-479-2131

## Microwave Theory and Techniques (MTT)

Topic/Title An Encore of Two International Microwave Symposium Presentations

Date Tuesday, 28 September 2009

Time Lunch 1130 AM / Program 1200 noon

Location \*\*\* PLEASE NOTE MEETING LOCATION \*\*\*

Pasand Indian Restaurant

1377 West Campbell Road

Richardson , Texas 75080

(Southeast quadrant of the Coit/Campbell intersection, west end of strip next to Richardson Bike Mart) 972-644-4447

Cover Mandatory \$5 (\$10 for non-IEEE members)

Includes admission and buffet.

No charge for Student and Life Members.

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Speakers Ming-Yih Kao, Ph.D., and Young-Ho Suh, Ph.D., both of Triquint Semiconductor

Description This meeting will include two speakers. They will present talks given at the 2009 MTT International Microwave Symposium.

Ming-Yih Kao will recap what he presented at the 2009 MTT-S IMS in Boston with an emphasis on Gallium-Nitride-based technology and high power PAs. In recent years, there is increasing interest and research activity in GaN devices and circuits for a variety of defense and commercial applications. One well-attended workshop was entitled "Is GaN Ready for System Insertion?" exemplifying the high-level interest in this exciting new technology. This meeting will give microwave circuit designers, technologists and module engineers an opportunity to discuss the pros and cons of adopting GaN technology. The GaN process capability of TriQuint Semiconductor in Richardson for microwave applications will be highlighted at the end of the presentation.

Young-Ho Suh will present the design and performance of two new QFN packaged high power amplifiers operating at Ka-Band for VSAT application. The packaged amplifiers are fully compatible with conventional SMD assembly processes that significantly reduce assembly cost and complexity. On-board matching network design methods to compensate packaging and wire-bond related parasitics for power matching will be presented. Comprehensive thermal analysis will be shown to ensure reliability of the packaged parts especially for high power dissipation in plastic QFN. The 1-Watt and 4-Watt QFN packaged amplifiers demonstrate min. +30 dBm and +35dBm CW saturated output power from 28 to 31 GHz.

Speaker Bios Ming-Yih Kao received his B.S. in Physics from the National Tsing-Hua University in Taiwan, master's degree in Electrical Engineering from the University of Massachusetts at Amherst, and Ph.D. degree in Electrical Engineering from the University of Texas at Dallas. He has been with TriQuint Semiconductor since January 1998 as a senior member of technical staff in the engineering group. Presently, he is working on advanced Gallium Nitride and Gallium Arsenide device and process technology development. He was the principle engineer for contributing to several major HEMT/MMIC process developments and technology transfers to production over the last 11 years at TriQuint. Prior to that, he had been with GE's

Electronics Laboratory from early 1987 to 1995 and with TI's Central Research Laboratories since 1995 where he had been engaged in the development of state-of-the-art GaAs pseudomorphic HEMT and InP-based devices and MMIC process technology. Before he came to the United States for graduate study, he was a process engineer, then a process engineering manager in charge of silicon bipolar and power MOS device development for three years. He is a senior member of the IEEE and has more than 60 technical publications in refereed journals and conferences.

Young-Ho Suh (SM'00, M'02) is a senior design engineer at TriQuint Semiconductor, Richardson, TX. He received the M.S and Ph.D degree in Electrical Engineering from Texas A&M University, College Station, TX, in 1998 and 2002.

From 1992 to 1996, he worked for LG-Honeywell Co. Ltd., Seoul, Korea as a research engineer. From 1996 to 1998, he worked on developing robust wireless communication systems for GSM receiver under multipath fading channel for his M.S degree.

From 1998 to 2002, he was a research assistant in Electromagnetics and Microwave Lab. pursuing the Ph.D degree in the Department of Electrical Engineering at Texas A&M University, College Station, TX. From 2002 to 2006, he worked for Mimix Broadband as a senior microwave design engineer developing Ku/Ka-band Point-to-Point radio and VSAT components such as power amplifiers, integrated receivers, integrated transmitters, microstrip-to-waveguide transitions for Ku and Ka-Band, and packaged components.

From 2006 to present, he joined TriQuint Semiconductor designing chip & package level power amplifiers and other active components for Ka-Band VSAT applications. His research work area includes high power amplifiers, mixers, frequency converters, and digital radio systems. His research experience expands to uniplanar transmission line analysis and components development, microwave power transmission, antennas for wireless communications, phased array antennas and microwave integrated circuits. Young-Ho Suh has a book chapter and 15 technical papers published on distinguished conferences and journals.

RSVP Contact [csanabria@tqs.com](mailto:csanabria@tqs.com) by noon, September 25th, for restaurant headcount

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

## Other Meetings of Interest

### North Texas RFID Group on LinkedIn

Topic/Title      How to Gather Business Intelligence from Smart Retail Fixtures

Date                Friday, September 4, 2009

Time                Lunch 12 PM

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

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

Speaker            Larry Chandler, VP Business Development, 5Stat

Description        Retailers are looking for ways to retain existing customers. Using advanced technologies that involve radio frequency identification (RFID), digital displays, interactive screens, and mobile applications, retailers can create a new experience for their existing and new customers. At the same time, the retailers can gather valuable information about which products are being evaluated, not just those purchased and what is in inventory. Larry Chandler will tell how they can also understand the competitive value of real-time, item-level business intelligence.

Speaker Bio Larry Chandler, currently vice-president of Business Development for 5Stat, has more than 25 years of industry experience in information technology. As a senior executive, Larry is defining business strategies, product and partner strategies, and leading new edge technology companies in going to market quickly. 5Stat, a subsidiary of Store Kraft, is a technology company focused on providing software and hardware to enhance the retail shopping experience for customers while at the same time gathering business intelligence to benefit the retailer. Larry has also held senior level sales, product development and management positions for GlobeRanger, Optimal Solutions, Context Integration, Sybase and Cap Gemini America.

RSVP Contact    Brian Fraser

[bfraserpr@verizon.net](mailto:bfraserpr@verizon.net) or 972.977.3517 by noon Sept. 3 (seating is limited).

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.

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