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**March 18: Tuesday**

**Communications and Vehicular Technologies (CVT)**

Title: Pioneering The New Evolution - Component-based Communication Software Solutions

**March 18: Tuesday**

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Topic: Memory Effects and Modeling

## IEEE Direction Dallas Section

**March 2008**

**Volume 51, Number 7**

### From the Chair

*By Robert Shapiro*

Hello Colleagues,

In February the IEEE Dallas Section had a joint meeting with the Consultant's Network. We had a presentation on how to do make PowerPoint presentations. We also held a planning meeting and completed all of the required IEEE filings including the local meeting reports and the financials and tax reporting.

In March we plan to have another joint meeting the Consultant's Network. This month Maura Schreier-Fleming will give a presentation on "Power Persuasion: Unleash Your Hidden Influence Skills".

The goal of the seminars and programs of the Consultants Network and the IEEE Dallas Section are to help our members' professional development and we will continue to jointly prepare these well attended events. We encourage your attendance as these

programs help us with business and personal growth outside our normal day to day jobs and activities.

In April a few of the Dallas Section Ex-Com and leaders are planning to attend the IEEE Region 5 Conference in Kansas City. Please be on the lookout for the announcement for the Dallas Section Awards Banquet in April or May.

Best regards,  
Bob Shapiro  
IEEE Dallas Section  
2008 General Chair



### Joint meeting between IEEE Dallas Section and IEEE Consultants network

**Topic:** Power Persuasion: Unleash Your Hidden Influence Skills  
**Date:** Monday, March 10, 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)  
**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.  
**Speaker:** Maura Schreier-Fleming, President [Best@Selling](mailto:Best@Selling)  
**Chapter Website:** [Website: http://www.ieeedallascn.org/](http://www.ieeedallascn.org/)  
**Chair:** Neil Kaden [kaden@circleNK.com](mailto:kaden@circleNK.com)

*Power  
Persuasion*

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## Chapter: Consultants Network

**Topic:** Power Persuasion: Unleash Your Hidden Influence Skills  
**Date:** Monday, March 10, 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)  
**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.  
**Speaker:** Maura Schreier-Fleming, President [Best@Selling](http://www.BestatSelling.com)

**Description:** How much easier would your work be if you could effectively persuade others? From getting phone calls returned, to managing others, to working with suppliers and customers, persuasion is an important skill for achieving business results. You will learn the components of a persuasive message so you can develop your persuasion strategies. You will learn how to be perceived more competent, how to use trust to more quickly persuade; how to use simple body language techniques to improve persuasion results.; what to avoid to reduce your persuasion effectiveness and more real-world ideas that you can apply to your business and get better results. Engineers especially need this skill to navigate the world of business and achieve the levels of success they want.

**Speaker Bio:** Maura Schreier-Fleming is president of Best@Selling ([www.BestatSelling.com](http://www.BestatSelling.com).) She works with business and sales professionals who want to sell more and be more productive at work. She is the author of Real-World Selling for Out-of-this-World Results and writes several business columns including "Customer Connections" for the Dallas, Austin and Houston Business Journals. She writes the Real Deal: Success for Women in Business blog for [Allbusiness.com](http://Allbusiness.com). She's been quoted in the New York Times, Selling Power and Entrepreneur. Her clients include UPS, Fujitsu, Conoco and Chevron. She was Mobil Oil's first female lubrication engineer in the U.S. Maura has her M. S. from Georgia Institute of Technology.

Maura serves on the Advisory Board of Automotive Expert Women of [AskPatty.com](http://AskPatty.com). Ask Patty provides women consumers an opportunity to send questions about car buying, selling, repair and maintenance to a panel of expert automotive women. She is the Professional Activities Chairperson for the Dallas Section of the Institute of Electrical and Electronics Engineers and is also a board member. She received the 2006 Professional Achievement Award from the IEEE-USA Board of Directors for "promoting community awareness of the practice of engineering." Maura received the 2004 Outstanding Women of Today (Small Business) Award from Altrusa, International, Inc. of Richardson Texas. She chaired the 2002 YWCA Women of Achievement Program in Dallas. She is a member of the National Visiting Committee for the Convergence Technology Center in Frisco, Texas. She is also a board member of [Sci-Tech](http://Sci-Tech), the proposed children's museum for Collin County.

## Chapter: Electronic Devices (ED)

**Title:** Low-Cost Uncooled Microbolometer Infrared Detector Arrays in Standard CMOS  
University of Texas at Arlington - NanoFAB  
*Distinguished Lecture Series in Nano & Micro-Systems*  
**Date:** March 13, 2008, 2:00 - 3:30 p.m.  
**RSVP:** Cindy Bradfield at [cbradfield@uta.edu](mailto:cbradfield@uta.edu) or 817-272-1536  
**Place:** 105 Nedderman Hall  
**Speaker:** Professor Tayfun Akin  
*Middle East Technical University, Dept. of Electrical and Electronics Eng., Ankara, Turkey*

**Abstract:** Uncooled infrared (IR) detectors have recently gained wide attention for infrared imaging applications due to their many advantages, such as low cost, low weight, low power, wide spectral response, and long term operation compared to those of photon detectors. One of the widely used uncooled IR detectors, microbolometers, use a high TCR material on thermally isolated bridge structures, where IR radiation increases the temperature of a material, causing a change in its resistance. Although high TCR materials are used as the sensing material to achieve very impressive performances, they have complicated processes and result in rather expensive detector arrays. For low cost, many researchers are trying to integrate uncooled IR detectors with readout electronics monolithically with a CMOS process. This presentation will overview the uncooled microbolometer detectors and will summarize the research at METU to implement ultra low-cost uncooled microbolometers using standard CMOS processes, where neither any critical lithography nor any detector material deposition steps are needed.

**About the Speaker:** Tayfun received the B.S. degree in electrical engineering with high honors from Middle East Technical University, Ankara, in 1987 and went to the USA in 1987 for his graduate studies with a graduate fellowship provided by NATO Science Scholarship Program through the Scientific and Technical Research Council of Turkey. He received the M.S. degree in 1989 and the Ph.D.

degree in 1994 in electrical engineering, both from the University of Michigan, Ann Arbor. Since 1995, 1998, and 2004, he has been employed as an Assistant Professor, Associate Professor, and Professor, respectively, in the Department of Electrical and Electronics Engineering at Middle East Technical University, Ankara, Turkey. He is also the technical coordinator of METU-MET, an IC fabrication factory which is transferred to Middle East Technical University by the government for MEMS related production. His research interests include MEMS, Microsystems Technologies, infrared detectors and readout circuits, silicon-based integrated sensors and transducers, and analog and digital integrated circuit design. He has served in various MEMS, EUROSENSORS, and TRANSDUCERS conferences as a Technical Program Committee Member and has received prizes for his papers and presentations.

## Chapter: Communications and Vehicular Technologies (CVT)

**Title:** Pioneering 'The New Evolution - Component-based Communications Software Solutions

**Date:** Tuesday, MARCH 18, 2008  
**Luncheon:** 11:00 a.m. / Program 12:00 noon - 1:00 p.m.  
**Place:** Holiday Inn Select, Richardson (SW Corner Campbell and Central)  
**Speaker:** Hemant Sabat - Chairman, President and CEO of COSEND  
\$5 for IEEE members, \$10 for non-members  
No charge for Student and Life Members

**Presentation Abstract:** Mr. Sabat will address the subject of convergent software solutions today and how to find creative ways to build such a process in a step-by-step method.

**Biography:** Mr. Sabat is the current Chairman, President and CEO of COSEND Communications Solutions. Most recently he served as the General Manager of Telecom and High-Technology Software Applications Business Unit at Perot Systems Corporation. While there and also at Nortel Networks, Sabra and Fannie Mae, has incubated and scaled up high ROI businesses into global operations, helped gain strategic footprints, aggressively marketed the company's true benefit, expanded the customer base and helped strengthen the corporate brand.

## Chapter: Electromagnetic Compatibility (EMC)

**Topic:** Flying with your Mobile Phone – What's the Problem?  
**Date:** Tuesday, March 18th, 2008  
Refreshments 6:00 PM Program 7:00 PM  
RSVP to Joe Stanfield, [joe@swelectronic.com](mailto:joe@swelectronic.com)  
**Place:** Holiday Inn; 1655 N Central Expwy; Dallas, TX 75080  
**Speaker:** David Walen; Chief Scientific and Technical Advisor for Electromagnetic Interference - Aviation Safety - Federal Aviation Administration; Hosted by Mark Bushnell

**Program Summary:** Most people who have flown are familiar with the pre-flight instructions: 'Please turn off and stow all portable electronic devices. When we have reached our cruising altitude, you may use your laptops and music players. However, mobile phones, pagers, and other radio communication devices may not be used at any time during flight.' At the same time, news reports indicate that one airline is planning to allow mobile phone use with a cellular base station installed onboard their airplanes. Walen will discuss the electromagnetic compatibility issues that are involved with portable electronic devices on board aircraft that lead to this apparent contradiction. He will describe the relationship between electromagnetic emissions and potential interference to aircraft avionics and radio systems. This talk will also include background on studies on potential interference, and situations where interference from portable electronic devices has been confirmed. He will address ongoing efforts to define standards that will make aircraft more tolerant to portable electronic device electromagnetic emissions. Our Speaker: Mr. Walen is the Federal Aviation Administration (FAA) Chief Scientific and Technical Advisor for Electromagnetic Interference within the Aviation Safety organization, joining the FAA in 1996. In this position, he works within FAA, with other aviation regulatory authorities, and with the aviation industry to develop aircraft electromagnetic interference and lightning protection policies and guidance. He also provides aircraft electromagnetic interference training within FAA engineers and industry engineers with delegated authority from the FAA. Prior to joining the FAA, he worked at the Boeing Company for 19 years as an engineer and manager for aircraft electromagnetic interference, lightning protection and antenna design. He received his bachelor of science in electrical engineering from the University of North Dakota. He is a Professional Engineer in Washington state, and a NARTE certified EMC engineer.

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

## Chapter: Dallas IEEE Computer Society

**Topic:** Cross-Layer Wireless Networking

**Date:** Thursday 20 March 2008

**Lunch:** 11:30 AM - 12:15 PM

**Talk:** 12:15 PM - 1:00 PM

**Place:** Texas Instruments ("South Campus")  
12500 TI Boulevard (SAME location as 8505 Forest Ln; just redefined main gate)  
Dallas, TX (Conference Rooms S1 & S2)

**Speaker:** Dr. Andrea Fumagalli, Professor  
Dept. of Electrical Engineering  
University of Texas at Dallas

**Access:** Since the meeting rooms are inside TI, some attendees may need to pre-register for access. If you are neither a U.S. citizen nor permanent U.S. resident (with "green card") and are from a "restricted country" listed at [http://chapters.computer.org/Dallas/restricted\\_countries.htm](http://chapters.computer.org/Dallas/restricted_countries.htm), please contact Jim at 214-480-4691 by 17 MAR to arrange for convenient pre-registration.

**Abstract:** Data link control protocols can be designed to facilitate some of the functionalities provided by the higher layers, while still preserving the modularity of the OSI layering architecture. This presentation will illustrate some performance gains at both the network and transport layers, which may originate from this cross-layer protocol design practice.

**Bio:** Dr. Andrea Fumagalli is a Professor of Electrical Engineering at the University of Texas at Dallas. He is the Head of the Telecommunications Program (<http://www.te.utdallas.edu/>) and the Head of the Open Networking Advanced Research (OpNeAR) Lab at UTD (<http://opnear.utdallas.edu>).

**Directions:** Even though TI's Forest Lane site has been given a new official entrance address at 12500 TI Boulevard and been renamed as TI's "South Campus," find our Dallas IEEE CS meetings just as you've always done. Head to the site's SouthEast (SE) entrance off Forest Lane JUST west of Greenville Avenue. Preferred parking is at extreme SE corner of the building. Enter the public lobby at building's SE corner and ask guard to direct you to conference rooms S-1/S-2 (very near this entrance). (See map at [http://chapters.computer.org/Dallas/graphics/ti\\_fl.gif](http://chapters.computer.org/Dallas/graphics/ti_fl.gif))

**Cost:** Technical Presentation: FREE to both IEEE CS Members and the general public.

**Lunch Cost:** \$10 to both Members and Non-Members. Please reserve lunch by 17 MAR with our online form at [http://chapters.computer.org/Dallas/lunch\\_reservation.htm](http://chapters.computer.org/Dallas/lunch_reservation.htm) or by contacting Lucrecia at 214-480-4194.

## Chapter: Aerospace and Electronic Systems (AES)

**Topic:** Global Climate Change – The Evidence, Science and How We Can Impact Our Environment

**Date:** March 25, 2008, Light Buffet 6:30 PM / Program 7:00 PM

**Place:** Holiday Inn Select-Richardson, 1655 N. Central Expressway, on the south-bound service road of Central Expressway (US-75), south of Campbell Road, and north of Collins Road.

**Speaker:** Tim D. Reichard, Senior Principal Systems Engineer, Raytheon; Senior Member, IEEE

All our society meetings are free of charge, and open to all interested in attending. Our meetings start at 6:30 PM with a social, networking period with light buffet, followed by the program at 7:00 PM. Please mark your calendars and be sure to attend our very informative programs.

**Program Summary:** The combustion of fossil fuels (coal, oil and natural gas) for our electricity, propelling our cars and heating our homes results in 70 million tons of CO<sub>2</sub>, methane and nitrous oxide emitted into the atmosphere every day, worldwide. These invisible greenhouse gases are warming the planet beyond any prior climate changes that have occurred for the past 650,000 years as recorded in ice cores. This talk will:

- Present the facts and evidence of global warming as captured by leading scientists from around the world in reports from the UN's Intergovernmental Panel on Climate Change (IPCC), NASA and others
- Address the science of global climate change, the understanding of radiative forcing in the atmosphere and how the human element is impacting air, ocean and land climates today and projected through this century
- Examine the challenges we face today and innovations needed for "mainstream" renewable energy.

**Tim Reichard** has both Master and Bachelor of Science degrees in Electrical Engineering. He has been with Raytheon / Texas Instruments for more than 28 years and has more than 25 years expertise in complex system simulation and modeling of radar signal processing for defense electronics systems. He has served as an IEEE officer for the past 8 years. Tim is also an avid nature enthusi-

ast and his avocation, in recent years, is study and research of efforts concerned with protecting nature, our national parks, our environment and wildlife from urban expansion, industry air and water pollution and global climate change. Tim is a partner with the National Parks Conservation Association (NPCA) and member of the Natural Resources Defense Council (NRDC), the Nature Conservancy Association and Environmental Defense. He is active in his church, giving 2 presentations in the last 6 months to raise awareness of global warming and how we can care for our planet. Tim and his wife enjoy hiking in the mountains and have seen global warming impacts on glacial ice in areas such as the Swiss Alps, Glacier NP (Montana), Rocky Mountain NP (Colorado), Banff and Jasper NPs (Canada) and recently at Denali and Kenai Fjords NPs in Alaska.

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](mailto:Tim_D_Reichard@raytheon.com);  
Jared Ellington, (214) 654-5660 [J.Ellington@ieee.org](mailto:J.Ellington@ieee.org); or  
Mark Gober, (972) 205-4752 [Mark\\_D\\_Gober@raytheon.com](mailto:Mark_D_Gober@raytheon.com)

## Chapter: Microwave Theory and Techniques (MTT)

**Topic:** Memory Effects and Modeling

**Date:** Tuesday, March 25, 2008  
Dinner 6:30 p.m. / Program 7:00 pm

**RSVP:** Please RSVP by noon, March 21st, so we can submit a head-count to the restaurant

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

**Place:** Holiday Inn Select  
1655 N Central Expy  
Richardson, TX 75080  
(972) 644-7728

**Speaker:** Dr. Stephen Maas, Chief Scientist, AWR, Inc.

**Abstract:** So-called memory effects in power amplifiers seem to cause so many problems these days that they eventually will be blamed even for warts, hemorrhoids, and your teenage daughter's elopement with a rock musician. Therefore, before all this really happens, it seems worthwhile to clarify what memory effects really are, what they do, and how they can be simulated. Many aspects of memory modeling are currently subjects of intense research, but others are sufficiently well understood and are sufficiently mature for practical application. We will discuss the most important aspects of power-amplifier memory and describe some of the approaches to modeling it. In particular, we look at Volterra methods, as they are currently an important tool in modeling such phenomena.

**Speaker Bio:** Dr. Stephen Maas received BSEE and MSEE degrees in Electrical Engineering from the University of Pennsylvania in 1971 and 1972, respectively, and a Ph. D. in Electrical Engineering from UCLA in 1984. Since then, he has been involved in research, design, and development of low-noise and nonlinear microwave circuits and systems at the National Radio Astronomy Observatory (where he designed the receivers for the Very Large Array), Hughes Aircraft Co., TRW, the Aerospace Corp., and the UCLA Department of Electrical Engineering. Subsequently he worked as an engineering consultant and founded Nonlinear Technologies, Inc., a consulting company, in 1993. He is currently Chief Scientist of AWR, Inc.

Dr. Maas is the author of Microwave Mixers (Artech House, 1986 and 1992), Nonlinear Microwave Circuits (Artech House, 1988; second edition 2003), The RF and Microwave Circuit Design Cookbook (Artech House, 1998), and Noise in Linear and Nonlinear Circuits (Artech House, 2005). From 1990 until 1992 he was the editor of the IEEE Transactions on Microwave Theory and Techniques and from 1990-93 was an Adcom member and Publications Chairman of the IEEE MTT Society. He received the Microwave Prize in 1989 for his work on distortion in diode mixers and the MTT Application Award in 2002. He is a Fellow of the IEEE.

**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

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

# Dallas Section

## Chapter Information

### Aerospace and Electronic Systems (AESS)

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

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**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 Dr.** Choon Sae Lee (214) 768-3257  
csl@enr.smu.edu

### Circuits and Systems (CAS)

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

**General chair:** Sudhind Dhamankar  
sudhind@ti.com  
**Vice chair:** Luke Wu  
**Publicity Chair/Secretary:** Mak Kulkarni  
**Technical program chair:** Bogdan Staszewski  
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### Communications & Technology (CVT)

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

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

### Computer

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

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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/>

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adolfo@ti.com

### Computational Intelligence (CI)

**Chair:** Chair Robert J. Marks II (254) 710-7302

### 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  
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### Electron Devices (ED)

**Chair** Zeynep Celik-Butler (817) 272-1309  
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### Engineering in Medicine and Biology (EMBS)

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### Microwave Theory and Techniques (MTT)

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

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### Signal Processing (SP)

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### 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
- Energy & Power generation
- 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

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**



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@enr.smu.edu) 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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