



Dallas Section

Direction



Volume 49, Number 10

June 2006

Executive Committee

Chair

Dr. Kaijian Shi (972) 776-7490

Kaijian.Shi@synopsys.com

Vice Chair

Dr. Gerry Burnham (972) 883-6755

Administrative Chair

Robert Shapiro (214) 448-4818

Treasurer

Dr. Cornelius van Rensburg (972) 761-7970

Activities Chair

Mr. William Lumpkins (214) 543-0858

Secretary

Dr. Y. Alp Aslandogan (817) 272-3334

Past Chair

Dane Watson (214) 473-6771

Committee Chairpersons

Awards Chair

Dr. Gerry Burnham (972) 883-6755

Membership Chair

Vijay Angerai (972) 244-5148

Student Activities Chair

Dr. Raphael S. Grayfer (972) 612-4622

PACE Chair

Maura Schreier-Fleming (972) 380-0200

Industrial Relationship Officer

Dr. Don Shaver (214) 480-4349

Graduates of the Last Decade (GOLD) Chair

Open

Government Relations

Ed Carrales (903) 457-6065

Direction Editor

Biron Timothy Pickens (972) 824-8284

WWW Coordinator

Dr. Donald P. Butler (817) 272-1305

From the Chair

by Kaijian Shi

As a part of IEEE membership development program, we had a Senior Member Drive from 1pm to 3pm, June 3rd at UTD in room ECN 2.704 (Engineering and Computer Science Building), thanks to Vijay Angerai, Gerry Burnham and Bob Shapiro for organizing the event. In the event, IEEE Fellows and Sr. members came to help the application process by reviewing applicant's resumes and providing references. For detailed information on Sr. member upgrade criteria, please check online at http://www.ieee.org/organizations/rab/md/smprogram.html

To help our members and local engineers in their technical career, we shall provide a technical Seminar on "System On Chip" 11:30am-1:00pm June 7th, at Holiday Inn, thanks to Maura Schreier-Fleming (PACE Chair) and Don Shaver (CS chapter Chair) who organized the seminar as a part of Section Professional Activity Program. For more information and registration please contact Maura (Maura@BestatSelling.com)

I am very pleased to inform you that we have a new chapter of Engineering in Medicine and biology Society (EMBS) formed in Dallas. Please join me welcoming John S. Johnson (js.johnston@sbcglobal.net) Chair of EMBS chapter and his team. Now, we have 19 chapters and two affiliate groups in Dallas section. I'd like to thank all chapter and affiliate group officers for volunteering their time and effort to make IEEE Dallas successful. Your contributions to IEEE and engineer community are greatly appreciated.

Following IEEE Dallas tradition, we shall have a break in July and August. Section activities will resume in September. I wish everyone a wonderful summer break.

We'd like to hear your suggestions on IEEE Dallas operations. Please feel free to contact me and other section officers.

DALLAS SECTION JUNE 2006 MEETING

"Systems on a Chip"

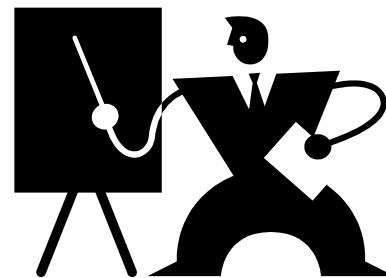
Date: Wednesday, June 7th, 2006 11.30 AM- 1:00 PM (You can arrive at 11.00 to eat lunch before the program)

Place: Holiday Inn Select, Richardson 1655 N. Central Expressway

Program Summary: To help our members and local engineers in their technical career, we shall provide a technical Seminar on "System On Chip" 11:30am-1:00pm June 7th, at Holiday Inn, thanks to Maura Schreier-Fleming (PACE Chair) and Don Shaver (CS chapter Chair) who organized the seminar as a part of Section Professional Activity Program.

For further info contact Dallas IEEE Section Activities Chair Will Lumpkins at (214) 543-0858 or Maura Schreier-Fleming at (972) 380 - 0200.

Please RSVP to with Maura at Maura@BestatSelling.com



Aerospace And Electronics Systems (AES)

Chair Tim D. Reichard (972) 205-8411

Antennas & Propagation (AP)

Chair Dr. Choon Sae Lee (214) 768-3257

Circuits & Systems (CAS)

Chair Liming XIU (214) 480-4930

Communications & Technology (CVT)

Chair Steven Simmons (972)250-1289

Computer (C)

Chair Don Shaver (214) 480-4349

Consultants Network (CN)

Chair Jerry Bylander (903) 893-6437

Consumer Electronics (CE)

Chair Will Lumpkins (214) 543-0858

Education (E)

Chair William M. Riley (214) 478-4065

Electromagnetic Compatibility (EMC)

Chair William E. Paschetag (972) 530-7853

Electron Devices (ED)

Chair Zeynep Celik-Butler (817) 272-1309

Engineering Management (EM)

Chair Bob Bishop (903) 482-5320

Engineering in Medicine and Biology (EMBS)

Chair John S Johnson

Industry Application (IA)

Chair Open

Laser & Electro-Optics (LEO)

Chair Duncan MacFarlane (972) 883-2165

Microwave Theory & Techniques (MTT)

Chair Robert Eye (972) 994-5818

Power Electronics (PELS)

Chair Don Marabell (469) 330-9100 x230

Reliability (RL)

Chair Lon Chase (972) 952-3138

Signal Processing (SP)

Chair Nasser Kehtarnavaz (972) 883-6838

Solid State Circuits (SSC)

Chair Xiaopeng Li (214)480-4172

---

## Aerospace & Electronic Systems

---

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), Boyd Gallatin (903) 457-6689  
[Boyd.Gallatin@L-3Com.com](mailto:Boyd.Gallatin@L-3Com.com), or Mark Gober (903) 457-5122 [Mark.D.Gober@L-3Com.com](mailto:Mark.D.Gober@L-3Com.com)

---

## Antennas & Propagation

---

For more information, please contact:  
 Dr. Choon Sae Lee, AP Chairman, 214-768-3257, [csl@engr.smu.edu](mailto:csl@engr.smu.edu)  
 Anand Lakshmanan, AP Secretary, 469-499-6789, [anand.em@gmail.com](mailto:anand.em@gmail.com)

---

## Circuits & Systems

---

Please visit our Website listed below for latest updates, abstract of talk and seminar details <http://ewh.ieee.org/soc/cas/dallas/>

---

## Communication & Vehicular Technology

---

### *"Panel Discussion on Start-Up Experience"*

Date: Tuesday, June 20<sup>th</sup>, 2006  
 Luncheon 11:00 a.m./Program 11:45 a.m. –1:00 p.m.

Place: Holiday Inn Select, 1655 N. Central, Richardson

Speaker: **George Brody, CTO for GloboRanger, Ken Lewis, former CEO for Chiaro Networks, Sue Dark, CEO for DeepNines, Lisa Mantock, President of Scenpro.**

**Program Summary:** This is a panel discussion from several respected CEOs in the area. They have led significant organizations through the start-up phases. They will discuss the good, the bad, and the improvements based on their experiences. A question and answer session will occur after the discussion.

**Sue Dark's** innovative software designs and significant knowledge in start-up ventures ensure that DeepNines security technology will remain the most aggressive in the industry. Under Ms. Dark's leadership, DeepNines has produced proactive security solutions that advance the ability of corporations, government agencies and educational institutions to conduct business in a more secure environment. Ms. Dark brings more than 25 years of technology development experience to DeepNines.

**George Brody** brings more than 26 years of high technology experience to GlobeRanger. Prior to co-founding GlobeRanger, he was vice president and general manager of Nortel's Wireless Network Solutions. He has extensive experience in the management of digital technology for mobile communications systems. Brody was Chief Executive Officer and President of GlobeRanger from its inception until he assumed his current position in January 2002.

**Mr. Lewis** led a highly skilled team that successfully brought to market a scalable, very reliable core routing platform. The team achieved several industry firsts including: first router utilizing an optical switch fabric, first truly multi-chassis router, and first router providing fully stateful routing protocol protection.

For further information contact Steve Simmons at: [sms\\_1961@yahoo.com](mailto:sms_1961@yahoo.com).

Meeting details for Communication & Vehicular Technology Dallas Chapter can be found on their web site. Visit <http://www.cvt-dallas.org/>

---

## Computer

---

Remember to visit <http://chapters.computer.org/dallas/> for updates, to download presentations, or view upcoming calendar!

---

## Consultants Network

---

### *"Shrink-Wrapping' Consulting Services: How to Turn Technical Consulting Services Into Products to Boost Your Revenue"*

Date: Monday, June 12<sup>th</sup>, 2006,  
 Social/Networking/Dinner 6:15 pm  
 Program 6:45 pm.

Cover: \$5 for IEEE Members, \$15 for non-IEEE Members/Guests (includes light supper buffet)

Place: Holiday Inn Select, 1655 North Central Expressway,  
 Richardson, TX

Speaker: **Mary Swensen, M.J., APR, Principal Consultant**

**Program Summary:** Selling an intangible such as consulting services requires a long sell cycle and an active referral network. However, the sell cycle can be shortened and cash flow can be increased by turning consulting services into products. When a potential client can see the beginning and end, and the shape of services, it resembles a product. This is like something that is shrink wrapped and is easy to snatch off of a shelf in a store by someone who doesn't have time to think too deeply about it.

**Mary Swensen, M.J., APR** will share some techniques for turning technology consulting services into products to increase sales.

For more than 20 years, high-tech entrepreneurs have been benefiting from counseling and services from Swensen Communications and its chief consultant, Mary Swensen. The Plano-based company was founded by Ms. Swensen while finishing her master's degree in public relations at the University of North Texas in 1981. Her clients include emerging information technology, ecommerce, telecommunications and other technology-based companies, and she also does projects for large corporations.

The Company's specialty in high-tech entrepreneurship began in the early 1980s when Ms. Swensen examined the psychology of entrepreneurs and wrote an award-winning series of magazine articles on the success factors in entrepreneurial businesses.

Ms. Swensen also helps entrepreneurs become more successful through the classes she teaches for the Collin County Small Business Development Center in Plano, Texas. She has been involved in leadership positions in numerous business and technology organizations in the Dallas area that focus on entrepreneurship.

She is accredited by the Public Relations Society of America and has served on its board of directors and various committees since the early 1980s. She was an educational writer before getting her M.J. degree from the University of North Texas in 1981, and two of her published works in drug abuse prevention, a result of several years spent in science and health education, are in President Reagan's presidential collection.

Contact information: Maura Schreier-FLeming 972 380 0200 or [info@bestatselling.com](mailto:info@bestatselling.com)

---

## Consumer Electronics

---

### *"Wireless USB and UWB: The next generation of personal area networks (PAN)"*

Date: Tuesday, June 13<sup>th</sup>, 2006  
 Lunch/Chapter business: 11:15 am – 11:45 am  
 Program: 11:45 am - 12:45 PM

Place: Holiday Inn Select, 1655 North Central Expressway,  
 Richardson, TX

Speaker: **Greg Christison**

**Program Summary:** Since the FCC opened up the 3-10 GHz band in Feb 2002, Ultra Wideband (UWB) solutions have promised great leaps in wireless applications. This talk addresses the reality behind the promise. What will the global UWB standard be? What applications will be enabled? Why is Certified Wireless USB important? What is the real benefit of UWB in solving the application problems?

**Gregory L. Christison** is VP of Engineering for WiQuest Communications. He joins the team from Texas Instruments' Broadband Communications Group, where as engineering director he was responsible for leading their communications processor platform that is used in the TI DSL, VoIP, cable modem, and wireless LAN devices. Mr. Christison also served as DSL customer premise equipment (CPE) and voice-over-packet client design manager. In this position, Greg was instrumental in leading the definition, development, and release to production of complex mixed-signal system-on-chip (SoC) devices. He was also responsible for leading numerous other high-volume chip designs during his tenure at TI. Greg's experience ranges from architecting SoC and application-specific chip products to simulation, design tooling, ASIC engineering, IP development and integration, software development, product test, and silicon release to production. Mr. Christison also played a key role in the integration of engineering teams and

technology from multiple start-ups into TI, including Amati, Libit, Telogy, Alanthro, and Radia. Prior to joining TI, Greg worked for the US Air Force designing comprehensive communications networks using leading edge technologies. Mr. Christison received a Master's degree in Electrical Engineering from Purdue University and a Bachelor's degree in Electrical and Computer Engineering from Oklahoma Christian University. He holds two U.S. patents and has one pending.

There is no membership requirement to attend this meeting.

There is no membership requirement to attend this meeting.

For additional information, please contact Dr. Baowei Ji at (972) 761-7167 [baowei.ji@samsung.com](mailto:baowei.ji@samsung.com) or Sam Broyles at (214) 480-3232 [sam.broyles@ti.com](mailto:sam.broyles@ti.com)

To download presentations, view upcoming calendar, etc. check out our web site at: <http://www.DallasCES.org>

---

## Electromagnetic Compatibility

---

### "The Bruce Lee Show"

**Date:** Thursday, July 13<sup>th</sup>, 2006  
8:30 a.m. – 5 p.m.  
RSVP to Bill Paschetag, [bpaschetag@IEEE.org](mailto:bpaschetag@IEEE.org)

**Place:** Radisson Hotel  
1981 North Central Expressway  
Richardson TX 75080

**Speaker:** Dr. Bruce Archambeault of IBM  
&  
Mr. Lee Hill of SILENT – SOLUTIONS

Each paid registration includes continental breakfast, refreshments, lunch, vendor trade show, product give-aways, and evening hors d'oeuvres and refreshments.

**Program Summary:** There will be an exhibition by vendors of EMC-related products and services in the ballroom neighboring the technical presentation. This is where the continental breakfast will be served, as well as the refreshments for both morning and afternoon breaks. During the reception and book signing with Bruce Archambeault from 5:30 to 7:00 pm in the exhibit area, heavy appetizers will be served. Drink tickets will also be provided to attendees so they can enjoy the "Happy Hour" open bar. A raffle will be held during the reception for great prizes. You must be present to win! Dallas EMC Chapter members are welcome to attend the reception only at NO CHARGE, provided a registration form is completed and sent in advance. A badge will be available for reception-only attendees upon arrival at 5:30 pm.

For more information, visit the Dallas IEEE/EMC Chapter Website (<http://www.DallasEMC.org>), or contact Bill Paschetag, [bpaschetag@ieee.org](mailto:bpaschetag@ieee.org)

---

## Electron Devices

---

For program information please contact Zeynep Celik-Butler, (817) 272-1309, [zbutler@uta.edu](mailto:zbutler@uta.edu)

---

## Engineering Management

---

For program information please contact Bob Bishop, 903.482.5320 or [r.bishop@ieee.org](mailto:r.bishop@ieee.org)

---

## Industry Applications

---

If you are interested in this society please contact Dr. Tim Ozugur at 972) 477-2737 [Tim.Ozugur@alcatel.com](mailto:Tim.Ozugur@alcatel.com)

---

## Lasers & Electro-Optics

---

Details for IEEE-LEOS Dallas Chapter seminar series are listed on our website at <http://www.engr.smu.edu/leos/>

---

## Microwave Theory & Techniques

---

**Date:** Tuesday, June 6<sup>th</sup>, 2006  
Refreshments & Program: 6:00 p.m. - 8:15 p.m.

**Place:** Holiday Inn Select, 1655 North Central Expressway, Richardson, TX

**Speaker:** Dr. James Rautio, a Distinguished, Lecturer of the Microwave Theory and Techniques society

**Program Summary:** Dr. James Rautio, a Distinguished Lecturer of the Microwave Theory and Techniques society, will be talking to us about the life of James Clerk Maxwell. This is a bit different topic, in that Dr. Rautio explores not only the contributions of a creative genius, but also the life of the man who made the contributions.

James Clerk Maxwell stands shoulder to shoulder with Newton and Einstein, yet even those of us who have spent decades working with Maxwell's equations are almost totally unfamiliar with his life and times. This presentation, from the viewpoint of a microwave engineer, draws on many sources in providing an understanding of James Maxwell himself.

What was Maxwell like as an infant? What was the tragedy at eight years old that profoundly influenced his life? What unique means of transportation did young Maxwell use to escape a cruel tutor? What memorable event occurred on his first day of school? When did he publish his first papers, and what were they about? What did Maxwell have to do with the rings of Saturn? Why did he lose his job as a professor? Why did he have a hard time getting another job? What was his wife like? What is Maxwell's legacy to us? The answers to these questions provide insight into Maxwell the person and add an extra dimension to those four simple equations we have studied ever since.

Please RSVP no later than June 5<sup>th</sup> to Robert Groover at [groover@technopatents.com](mailto:groover@technopatents.com)

Program information for the Microwave Theory and Techniques Dallas Chapter can be obtained by e-mailing either Bob Eye ([reve@tqtx.com](mailto:reve@tqtx.com)) or Bob Coats ([rcoats@flash.net](mailto:rcoats@flash.net)).

---

## Power Engineering [Fort Worth, TX]

---

For Program information please contact Julio Chavarria at [jchavar1@txued.com](mailto:jchavar1@txued.com), or telephone number 214-743-6681.

---

## Reliability

---

For Program information please contact please contact Lon Chase (972) 952-3138.

---

## Signal Processing

---

For Program information please contact Chapter Chair

---

## Solid State Circuits

---

For Program information please contact Chapter Chair.



# Announcements



The Dallas Section of the **Institute of Electrical and Electronic Engineers (IEEE)** for the benefit of its members publishes **Direction** monthly from September through May. Articles and information for publication should be submitted to: Biron Pickens, Editor, 5015 Moss Point Rd., Dallas, TX 75232, Phone (972) 824-8284, Fax (972) 263-6710, Email: [drbtimothy@sbcglobal.net](mailto:drbtimothy@sbcglobal.net). Special announcements must first be submitted to Bob Shapiro, Administrative Chairman, Phone (214) 448-4818, Email: [rcshapiro@comcast.net](mailto:rcshapiro@comcast.net), and will be published on a space-available basis. Deadline for submission of materials is no later than the first of the month prior to the month of publication.

**Advertising:** *Direction* is distributed to approximately 7,200 members in the Greater Dallas area. Camera-ready copy must be submitted by the first of the month prior to the month of publication to the Editor at the above address.

Invoicing and/or contractual agreements for advertising are administered by Biron Pickens, Editor, and Gerry Burnham, Administrative Chairman. All ad insertions must be cleared through Biron Pickens or Bob Shapiro before being submitted for publication. Advertising rates are as follows:

	<u>Per Insertion</u>	
<b>Full Page</b> \$800.00		<b>Quarter Page</b> \$200.00
<b>Half Page</b> \$400.00		<b>Bus. Card</b> \$120.00



## Bringing the most up-to-date and in-demand information about the real-time and embedded computing worlds to the engineering community.

**You are invited to be our guest...**

The Real-Time & Embedded Computing Conference (RTECC) is highly focused to those who are developing computer systems and time-critical applications serving multiple industries such as; data communication and telephony, military and aerospace, industrial control, instrumentation, consumer electronics, image processing, process control, medical instrumentation, vehicular control and maintenance, embedded appliances and more.

RTECC is designed specifically to meet the needs of Software and Hardware Engineers, Design and Production Engineers, R&D, Electrical and Electronic Engineers, Project Engineers, Directors and Managers of Engineering.

A prestigious group of leading companies exhibit (in a tabletop setting), demonstrating the latest technologies and showcasing new products. Several exhibitors also present their own 45-minute technical presentation in open-door breakout sessions.

RTECC *single-day* events bring core emerging technologies -- the top subjects on the minds of developers, to over 25 cities across the United States alone. Each event is an opportunity to meet and exchange ideas with the best and brightest in the industry.

Event hours are 8:00 am to 3:00 pm and include free registration, parking and lunch for all attendees.

RTECC events provide the latest information from first-hand sources that can't be found on the web. Attend the next RTECC in your area to gain insights in new directions from industry leaders. Discover how to bring more value to your organization, your designs, and your career, at the Real-Time & Embedded Computing Conference.

June 6<sup>th</sup>, 2006  
 Richardson Civic Center  
 411 W. Arapaho  
 Richardson, TX 75080  
 •  
 972-744-4090  
[www.cor.net/civiccenter](http://www.cor.net/civiccenter)  
 8:00 am - 3:00 pm

