



the Analog

A Newsletter of the Central Texas Section of the Institute of Electrical and Electronics Engineers Inc.

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SECTION COMMITTEES

The By-Laws of The Central Texas Section include provision for a number of standing committees to carry out many of the normal activities of the Section. A brief description of the purpose of these committees follows, including people to contact if you have suggestions or would like additional information:

The Program Committee is responsible for arranging programs suitable for section meetings. Currently, Larry Deuser, the Vice-Chairman of the Section serves as Chairman of the Program Committee.

The Membership Committee is responsible for developing membership programs including transfers and advancements in grade. James Mercier is chairman of this committee and he can be reached at 512-891-2411 or jmercier@mailgw.dot.state.tx.us

The Student Activities Committee is responsible for organizing student activities for the Section including such activities as sponsoring and/or judging various engineering and science contests. Committee members include: Brent Stover (512-891-7453) and Scott Blair (512-458-6260, sblair@ieee.org) in Austin and Albert Lozano (210-522-2718, alozano@swri.org) in San Antonio.

The Awards Committee is responsible for organizing all awards to section members including plaques, certificates and nominations for regional and other awards. The chairman of this committee is Scott Atkinson (201-545-4288, s.atkinson@ieee.org)

The Publicity Committee ensures that all major Section activities are reported in the Analog Newsletter as well as public media outlets. Maintaining and improving the Section presence on the World Wide Web is currently a high priority of this committee which includes Tina Messerschmidt (tina@dsp.sps.mot.com), Michael Duane (m.duane@ieee.org), and Jim Sweeten (sweetenj@io.com).

The Educational Activities Committee is responsible for encouraging and arranging short courses, workshops, seminars, and other activities for the benefit of the members and the Engineering community in this area. The Web Page Workshop, scheduled for October 25 in San Antonio, is an example of this activity. Chip Stansbury (512-322-6416, stansbury@electric.austin.tx.us) is Chairman of this committee.

OCTOBER CHAPTER MEETINGS

CENTRAL TEXAS SECTION MEETING

Thursday, October 9, 1997

Time: 6:30 PM - Social (cash bar)
7:00 PM - Dinner (\$15. Students \$10)
7:30 PM - Program
8:30 PM - Adjourn

Place: Holiday Inn Northeast
3855 N. Pan-A, Expressway
(at I-35 Southbound)
San Antonio, TX

Speaker: IEEE Distinguished Lecturer
Dr. Richard Doviak
National Severe Storms
Laboratory and Professor at
the University of Oklahoma
Norman, OK

Topic: Doppler Radar and Weather
Observations

A group of engineers and atmospheric scientists at the National Severe Storms Laboratory developed the Doppler weather radar to probe the internal structure of severe storms to improve short term predictions and warnings of hazardous weather. This development and research lead to implementing a national network of Doppler radars (NEXRAD). Similar Doppler weather radars are also deployed around airports to detect wind shear hazards to safe flight.

This talk highlights the theory of Doppler weather radar, signal processing, and the research related to the observation and measurement of many of the weather phenomena (tornadoes, solitary waves, microbursts, etc.) using a Doppler weather radar. To relate radar observations to weather events commonly observed by eye, radar data

fields are correlated with photographs of the phenomena. Research related to future improvements of the NEXRAD system is included along with Doppler radar detection of wind shear hazards to aircraft.

Biography: Richard J. Doviak received his BS degree in Electrical Engineering from Rensselaer Polytechnic Institute (1956); his MSc and PhD degrees from the University of Pennsylvania in 1959 and 1963, respectively. Upon joining the National Severe Storms Laboratory (NSSL) in 1971, Dr. Doviak became Chief of the Doppler Radar Project for the development of the Next generation of weather Radars (NEXRAD). This led to the deployment of a national network of Doppler weather radars. From 1978 until 1987 he was manager of the Doppler Radar and Storm Electricity Research project. He is presently senior

engineer at NSSL and visiting scientist at the National Center for Atmospheric Research. He also is a Professor of Meteorology and EE at the University of Oklahoma.

Mr. Doviak has served in an editorial role for the IEEE Transactions on Geoscience Electronics, IEEE Transactions on Geoscience and Remote Sensing, the *Journal of Atmospheric and Oceanic Technology* and the *Journal of Climate and Applied Meteorology*.

He is the author of numerous papers, reports, and co-author of the book Doppler Radar and Weather Observations. He received the IEEE's Harry Diamond Memorial Award in 1988, NOAA's outstanding paper awards in 1980 and 1982, and NASA's group Achievement Award for distinguished scientific contributions. He received, the 1993 Outstanding Service Award from the IEEE Geoscience and Remote Sensing Society.

Directions: From Austin continue southbound on I-35 through northeast San Antonio. Exit from I-35 at Benz-Engleman and continue south on the access road for two miles. The Holiday Inn is on the right, adjacent to the access road.

Reservations: Required by noon Tuesday, October 7.

Austin..... Kelly Butler (512) 452-2811
or kbutler@ccsi.com
(ask about a carpool)
SA..... M. Abdolsalami (210) 431-2047
or m.abdolsalami@ieee.org

**IEEE CONSULTANTS'
NETWORK MEETING
Thursday, October 2, 1977**

Time: 6:30 PM - Social/Networking
7:00 PM - Program

Place: Red Lion Restaurant
North of 290E
East Side of I-35
Austin, TX

Speaker: James J. Merceir

Program: Multidisciplinary Knowledge
in the Department of Transportation

Chapter business will include the directory for 1998 and the next Work-Shop.

For further information, please call:

Austin..... Bill Thorpe (512) 863-8621
SA..... Paul Alesu (210) 263-0033

**CTEA CHAPTER MEETING
Wednesday, October 8, 1997**

CTEA Chapter meetings fall on the second Wednesday of each month from September through April. Every meeting features a guest speaker from the electronics industry. The topic for this month's meeting is "Component Coplanarity Impact on Yield."

All meetings will be held at the Holiday Inn Northwest in Austin, near the southwest corner of North Mopac and US Hwy 183 North.

Please contact Keith Vanderlee (512) 984-4542 for more information or if you would like to present at one of these meetings.

**SIGNAL PROCESSING/
COMMUNICATIONS SOCIETY
MEETING**

Thursday, October 23, 1997

Time: 6:30 PM - Social
7:00 PM - Dinner (\$12 members/guests, \$5 students)
8:00 PM - Program

Place: Tree Tops
New Braunfels, TX

Speaker: Juan Torres & Dewey Clark
Southwestern Bell Telephone

Program: ISDN Services in Central Texas

The proliferation of multimedia business communications and the Internet are driving the "need for speed." Southwestern Bell will address their ISDN offerings for Basic Rate and Primary Rate service in central Texas. They will also discuss typical applications including voice/data communications, video, ANI and channel bonding, and terminal equipment (CPE) required to take advantage of this technology.

Biographies: Juan Torres has 17 years experience in the telecommunications industry with GTE and Southwestern Bell Telephone. He is currently a national account manager for Southwestern Bell responsible for network products and services and premise equipment. Dewey Clark has 25 years experience in the telecommunications industry with Southwestern Bell Telephone. He is currently a systems engineering consultant responsible for design, development, and implementation of specialized networks and products.

Directions: From I-35, take the McQueeney exit (FM 725) and proceed west on Seguin Street toward downtown New Braunfels. Enter the circle downtown and take the first right onto San Antonio Street. Tree Tops is on the right just before you reach the bridge.

Reservations: Please call one of the following by Tuesday, October 21:
Warren Rogers(830) 885-4411
Cliff Denny.....(210) 456-3919
Scott Atkinson.....(210) 456-2101

**EMC SOCIETY MEETING
Thursday, October 23, 1997**

Time: 7:00 PM - Doors Open
7:30 PM - Program

Place: St. Mary's University
One Camino Santa Maria
University Center
Conference Room B
San Antonio, TX

Speaker: Kathleen Broome Williams

Program: Secret Weapon - U.S. High Frequency Direction Finding in the Battle of the Atlantic

The war against U-boats in the Atlantic was won in part by a high-frequency direction finder - called Huff-Duff or HF/DF for short - that could pinpoint the location of radio transmitters. The electronic device was used extensively by the Allies to locate German submarines attacking merchant ships in the Atlantic. The story of HF/DF's development and operation in combat by the U.S. Navy, is a fascinating tale of determination and success.

Biography: Kathleen Broome Williams holds an MA from Columbia University and a PhD in military history from the City University of New York. She is a compiler of *The Commissioned Sea Officers of the Royal Navy, 1660-1815*, and a contributor to *The Civil War Books of Lists*. Currently, she teaches at CUNY, and is conducting research into the role of women in the development of naval technology.

For further information contact:

Eric Lifesey(512) 433-8474
Jim Polonis.....(210) 522-2283
mail: jpolonis@swri.org
M. Abdolsalami.....(210) 431-2047

**For other CTS group meetings,
contact the appropriate society
chairman or the CTS web site.**

UPCOMING NOVEMBER MEETINGS

IEEE CENTRAL TEXAS SECTION MEETINGS

Mark your calendar for Future Section Programs on the 2nd Thursdays of the month.

- Current and Future EE Employment Opportunities in Austin and San Antonio (two meetings)
- Future of Electric Rates and Competition in Central Texas - a video teleconference!
- PATHFINDER to Mars - How to do more with less
- Additional IEEE Distinguished Lecturers

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IEEE CONSULTANTS' NETWORK MEETING

Thursday, November 6 is the date for the next Consultants' Network meeting. The guest speaker will be John Luden. The topic will be "Austin Performance Contracting - Transformation of Austin's Planning, Environmental, and Conservation Department." This meeting will be held at the Red Lion Restaurant in Austin, TX.

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OCTOBER 1997 MEETINGS

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
		1	2 CONSULTANTS' NETWORK MTG (Austin)	3
8	7	8 CETA (Austin)	9 SECTION MTG (San Antonio)	10
13	14	15	16	17
20	21	22	23 SP MTG (New Braunfels) EMC MTG (San Antonio)	24
27	28	29	30	31

WEB PAGE WORKSHOP (Tentative Schedule)

Tentative Date: Saturday, October 25, 1997

Tentative Place: St. Mary's University

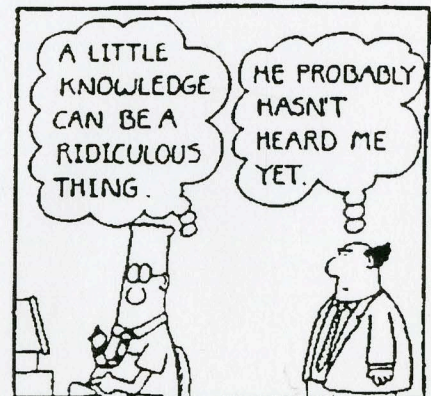
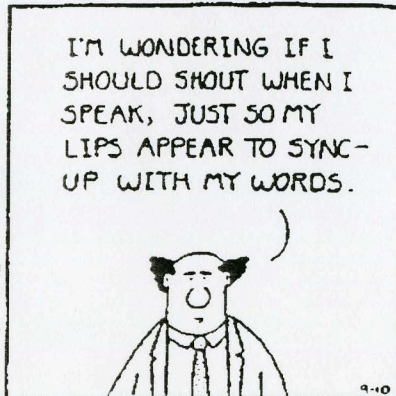
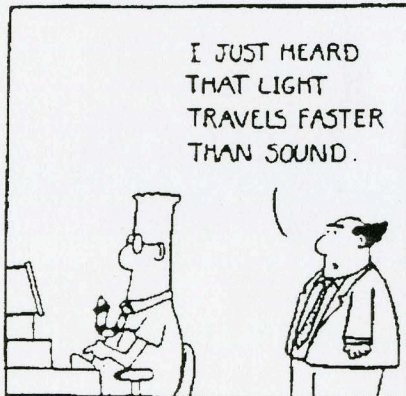
Tuition: \$50.00

Duration: Two 2-hour sessions with lunch break

Contact: Mehran Abdolsalami (210) 431-2047; FAX (210) 431-6895 or Ernest Franke (210) 522-3678; FAX (210) 522-5499

Topics to be covered:

- (1) The Basics
 - Document Tags
 - Tag
 - Meta Information
 - Headings
 - Paragraph Formatting
 - Character Formatting
 - Miscellanies
- (2) URLs and Links
 - What is URL
 - Tags Used in URL
- (3) Tables (50 Minutes)
 - Important Tags
 - Netscape Extensions
 - Internet Explorer Extensions
- (4) Images
 - Colors in Images
 - Images in HTML Documents
 - Graphics Format
 - Tips and Tricks
- (5) Design Guidelines
 - Page Design an Layout
 - Navigation
 - Testing Documents
- (6) Publicizing Your Web Page
 - Generating Traffic
 - Places to Go for More Help



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