



# The Analog

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

Published 9 times a year, September through May

VOLUME 40, NO. 6, FEBRUARY 1997

## IEEE CONSULTANTS' NETWORK SOCIETY MEETING Thursday, February 6, 1997

**Time:** Social & Networking 6:00 PM  
Program: 6:30 PM  
**Place:** Red Lion Inn (Restaurant)  
Austin, TX

Speakers are frequently business administration specialists in areas of interest to small businesses and consultants. Representatives from central Texas businesses are also invited to network or participate in general discussions of their specific technical problems.

**Directions:** North of 290E on the East I-35 access road in Austin

For more information please call:  
Georgetown.... B. Thorpe (512) 863-8621  
SA..... Paul Alesu (210)-558-7270

\*\*\*\*\*

## IEEE CENTRAL TEXAS SECTION MEETING Wednesday, February 12, 1997

**Time:** Social: 6:30 PM  
Dinner: 7:00 PM  
(\$15, students \$5)  
Program: 8:00 PM

**Place:** Red Lion Hotel (formerly the Sheraton-Fiesta)  
37 N.E. Loop 410 at McCullough (across from North Star Mall)  
San Antonio, TX

**Speaker:** Jerry R. Yeagan, PhD, PE  
University Professor  
Department of Electrical Engineering  
University of Arkansas  
Fayetteville, AK

**Program:** Special Program Oriented  
Toward Student Members:  
What Employers Want and  
Why You Need the IEEE

This presentation will summarize the characteristics and abilities that employers are seeking in new engineering graduates. Corporations are seeking engineers not only with sound technical skills but also with the ability to communicate.

work as a member of a team and to continue to learn throughout their career.

A recent report from the Industrial Advisory Group of the National Society of Professional Engineers summarizes the expectations of employers. The newly adopted Engineering Criteria 2000 for engineering program accreditation also reflect these expectations.

The IEEE provides its members the opportunity to develop and expand the skills needed for a successful career. The presentation will make the case for young engineers to become active members of the IEEE.

**Biography:** Dr. Jerry Yeagan received his PhD from the University of Texas at Austin in 1967 and holds the position of University Professor in Electrical Engineering at the University of Arkansas. He is a Fellow of the IEEE and currently serves as IEEE Vice-President for Educational Activities. Dr. Yeagan has been a volunteer for the IEEE for several years and has served on numerous committees within the IEEE and its Educational Activities Board and Technical Activities Board. He is junior past president of the Education Society.

In addition to the IEEE, Dr. Yeagan is active in the professional organizations of the American Society of Engineering Education (ASEE) and the Accreditation Board for Engineering and Technology (ABET). He is a member of the Engineering Accreditation Commission (EAC) of ABET and chair of the EAC Criteria Committee.

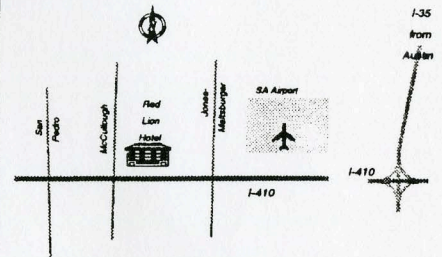
Dr. Yeagan serves as a consultant evaluator to engineering schools internationally including the Egyptian Air Force Academy; the University of Puerto Rico; The Universidad de los Andes in Bogota, Columbia; the Korea Advanced Institute of Science and Technology in Taejon, Korea; the University of Iceland; Kuwait University; and to engineering schools within the United States.

### Directions:

From Austin: Take I-35 south. On the northside of San Antonio, exit on I-410 West. After passing the airport, take the

McCullough exit. Stay on the access road. The Red Lion will be on your right.

In San Antonio: On eastbound I-410 on the northside of town, take the San Pedro/McCullough exit. Stay on the access road past San Pedro and cross I-410 on McCullough. The Red Lion will be your right just after you cross the freeway. On westbound I-410, take the McCullough exit. Stay on the access road. The Red Lion will be on your right.



**Reservations:** Reservations are required by NOON on Monday February 10th.  
Austin ..... Kelly Butler (512) 452-2811  
kbutler@ccsi.com  
SA ..... M. Abdolsalami (210) 431-2047  
m.abdolsalami@ieee.org

\*\*\*\*\*

## CENTRAL TEXAS ELECTRONICS ASSOCIATION, INC. (CTEA) MEETING Wednesday, February 12, 1997

The Central Texas Electronics Association holds joint meetings of the local chapters of the International Microelectronics and Packaging Society (IMAPS) and the Surface Mount Technology Association (SMTA) on the second Wednesday of each month (September through April) at the Holiday Inn NW, Austin, TX.

Social hour begins at 6:00 PM and the formal technical presentation at 7:00 PM.

For more information contact:

Austin ..... Robert Flake (512) 471-1014  
e-mail: robert.flake@mail.utexas.edu  
Austin .. Keith Vanderlee (512) 838-7297  
e-mail: kvanderlee@us.ibm.com

\*\*\*\*\*

**ACOUSTICS, SPEECH, and SIGNAL  
PROCESSING/COMMUNICATIONS  
SOCIETY MEETING**  
Thursday, February 27, 1997

**Time:** Social: 6:30 PM  
Dinner: 7:00 PM (\$12 mem-  
bers and guests;  
\$5 students)  
Program: 8:00 PM

**Place:** Tree Tops  
New Braunfels, TX

**Speaker:** Preston Williams  
Advanced Fiber Communica-  
tions

**Program:** Digital Loop Carriers in the  
Local Loop

As telephone companies face more and more competition both from other telephone companies and from cable television companies, there is increased interest in placing electronic equipment nearer the customer premises in order to offer a broad line of features. For example, the continuing expansion of Internet services has created an unprecedented demand for higher data rates and wider bandwidth. These increase customer

expectations have been confirmed and supported in the state of Texas by Public Utility Commission rulings mandating timely provision of greater bandwidth on a universal basis.

Advances in hardware technology have enabled Digital Loop Carrier engineers to pack an increasingly powerful set of features into a steadily shrinking physical package. Additionally, advances in software engineering have made it possible to continue to increase the intelligence of DLCs and distribute this intelligence across a flexibly configured network. Preston Williams will discuss the use of this generation of DLC products in the local loop, using AFC's UMC-1000 as the product base for his presentation.

**Biography:** Preston Williams holds a Bachelors degree in Electronics Engineering Technology from DeVry Institute of Technology in Kansas City, MO and a Bachelors degree in Business Administration from Northeastern State University in Tahlequah, OK. He was associated for 12 years with Seiscor Technologies, a leading provider of analog and digital telecommunications carrier products. He

joined Advanced Fiber Communications, a Petaluma, California based company, in July of 1996 as Account Manager. Over the past four years, AFC has quietly become the leading provider of local loop access products for medium-density subscriber areas in the U.S. and has also gained worldwide acceptance. Besides their deployment in North America, AFC has now established UMC networks in Asia, South America, Eastern and Western Europe, and the Caribbean.

**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, February 25th:  
Austin ..... Les Johnson (512) 250-4228  
New Braunfels-San  
Marcos ..... W. Rogers (210) 885-4411  
SA ..... Scott Atkinson (210) 456-2101

★ ★ ★ ★ ★ ★ ★

**CALENDAR OF MEETINGS FOR FEBRUARY 1997**

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
3	4	5	6 CONSULTANTS' NETWORK MTG (Austin)	7
10	11	12 SECTION MTG (San Antonio) CTEA MTG (Austin)	13	14
17	18	19	20	21
24	25	26	27 ASSP/COMM SOCIETY MTG (New Braunfels)	28