

**November Meeting
Tuesday, November 28th
at 12:00 noon at
Ackerman McQueen at
320 South Boston.**

For a tour of "Energy News Line"

The Chairman's Report

This month's program will be a tour of the Williams Communications "Energy News Live" broadcast facility here in Tulsa. The tour is scheduled Tuesday, November 28th at 12:00 noon at Ackerman McQueen at 320 South Boston. You may valet park at the Mid-Continent Auto Park located on 4th Street between Boston and Cincinnati, or at the pay and park lot on the corner of 3rd and Boston. Please use the Boston Avenue entrance to the 320 South Boston Building. This entrance faces Boston, between 3rd and 4th Streets. Once inside the atrium, you will need to take the escalator down to the mezzanine level and enter thru the glass doors of Ackerman McQueen at the bottom right. Lunch will be provided from The Saint Louis Bread Company.

Following lunch, we have made arrangements to tour the Energy News Live (ENL) facilities at the Williams Center, a short walk from Ackerman McQueen.

Energy News Live is an internet-based business news service tailored to the energy industry. It delivers live, broadcast-quality programming via streaming video each hour of the business day from the Energy News Live studio on the Williams trading floor in Tulsa, as well as from satellite studios in Washington, New York, Houston and on location. Live programming features expert commentary from energy opinion leaders, newsmakers, policymakers and high-profile Wall Street analysts.

There will be no December meeting so we will tentatively see you at Noon, January 23 at the Fountains Restaurant, 6440 South Lewis Ave., Tulsa.
Have a Merry Christmas!

Documentation Convention Meeting

Encouraged by the Broadcast Engineering Documentation article that appeared this past Fall in the NAB Engineering Handbook by Fred Baumgartner of AT&T Cable Systems, and Terry Baun of Criterion Broadcast Services, Dr. Walter Black and Richard A. Farquhar decided to spearhead a meeting to investigate the possibility of partnering manufacturers with engineers to create Engineer Friendly Documentation (EFD). The net result was quite promising.

The Documentation Convention Meeting was held at NAB 2000 and sponsored by the Society of Broadcast Engineering (SBE).

Richard A. Farquhar, President of RAF Consulting, Inc., and past SBE president, chaired the meeting. A discussion of current problems engineers face with existing specification sheets and their availability was examined. A brainstorm on potential resolutions to those problems while utilizing the Web and any other technology that might assist engineers in quickly sharing information was held. A larger than expected number of both manufacturers and engineers turned out for this meeting. A lively discussion and an invigorated push resulted with the formation of a committee that will move towards developing industry standard documentation. This committee is not acting in isolation. Read on and see how you can become part of the manufacturing and engineering movement for Engineer Friendly Documentation.

What is Engineer Friendly Documentation (EFD)? EFD is the future of engineering SPECS publishing on the Web. Specifically, it is a concept that

- Encourages consistency in content. From Specification sheets, for example, one can ascertain a "common" suite of information across all manufacturers.
- Allows portability and can be shared over endless internet-accessible platforms, such as Web-capable phones, and Web T.V. (using Web-ready XML and XLS protocols, for example).
- Allows information to eventually be queried at a "feature" level.
- Provides a mechanism for integrating applications.
- Provides supporting tools to automate conversions, et. al.

Engineer Friendly Documentation Proposal

Engineer Friendly Documentation data should be collected and stored in individual eX-tensible Markup Language (XML) files. XML is the language

Continued on Page 5

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Meeting Information

Chapter meetings are held at 12:00 noon on the fourth Tuesday of each month, except December, Fountains Restaurant, 6540 South Lewis Avenue, Tulsa, OK

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SBE Ch. 56 Meeting Minutes

October 24, 2000

The Fountains Restaurant; Tulsa, OK

Chairman Don Dobbs called the meeting to order. Everyone present introduced himself or herself.

Treasurers Report

Larry Miller reported previous Chapter Account Balance was \$3,720.62. No Revenue. Expense of Newsletter was \$61.06. As of October 24,2000 the Chapter Checking Account Balance is \$3,659.56

Meeting minutes

Meeting minutes from the September meeting as published in the October newsletter were approved.

EAS Report

Roger Herring reported on the breakdown of the Amber Plan in Tulsa during it's first Activation. Reminded all attending that the CEM code will be used to distribute the Amber Alert. Steps are being implemented to insure better relay of the information to LP 1 & 2 for the state. The FCC is allowing a Test to be made every 6 months. A test tape for relevant encoder/decoders in use in the markets will be made and distributed so each station can test their decoders. As a result it is asked that each station contact David Shaffer at KTUL to let him know the kind of decoder in use.

Frequency Coordination

Richard Hardy reported for below 1 GHz that KWON was looking at VHF frequencies in the 166.25 MHz range. Also KOTV wants to move its VHF frequency.

Above 1 GHz, Larry Miller reported no new activity above 1 GHz. In the next several weeks, a form requesting information from the 12 Tulsa TV stations will be sent out requesting information about use of 6.5, 18, and 23 GHz bands. The frequency coordination committee has decided to start a database for these bands, since it has fielded some recent inquiries from potential users.

Newsletter/ Secretary - Bill Lee reported no new news.

Internet Committee

Roger Herring reported all newsletters are posted on the Chapter 56 website. Updates are being made to the rest of the website. Frequency Coordination will an added feature to the website Richard Hardy is working with Larry Dalton of OKC on the database.

Membership Committee: - No report was made.

Old Business - None.

New Business

Don Dobbs reported that Chapter 56 was recipient for greatest growth in new members for a SBE Chapter in 1999, he passed the Certificate around for all Continued on Page 3

November Ham's Corner

By Glenn Thomas

As we come up on November I got a little earlier start. Or should I say it was too late to include in the October issue so we are starting November a little earlier than normal. We have been really fortunate in selling some surplus gear and books from our collection of over the years. While we were at it I checked my back log of gear and books.

The books start with radio hand books starting with a 1936 radio hand book and ending with I believe hand books of the 1990'S plus ARRL hand books starting with 1943, followed by 1947 and continuing into the 80'S. O yes I have the latest handbooks plus the latest antenna hand books but don't find them as interesting. They spend most of their time with theory and little on construction. That is just the opposite from my earlier days on the air.

A case can be made about the one linear in the ARRL handbook using a tube from Svetlana the 4CX1600 tube with 1500 watts out put. with a number of circuits I didn't find either interesting or needed but would add to the overall cost. I even had hand books concerning broadcast radio antenna systems, from my days as a broadcast engineer. I had broadcast handbooks from after the World War II and one of current times. A guy from California stopped by and bought almost all my collection from that area. Including my old Swan 270 and external VFO. He wasn't interested in tubes or magazines but bought every thing else.

I had earlier sold a Omni D to a guy in Iowa that sale included a DC power supply. Yes, I built a KW linear years ago and use it mostly on 75 and have had it on all bands except 10. It runs a pair of 813'S in grounded grid a tube that was popular in broadcasting a number of years ago. My stash of spare's came from broadcast used ones which are all operating FB. I don't find a great demand for the linear on the high bands as my rig has compression and several ways to dodge QRM. With a small beam I have been able to work all over the world. I find on the low bands is where the extra power is needed while on the high bands the beam is a great help.

I need to get busy and spend more time on the air. I know one thing my main rig does such a good job of filtering out the QRM when I am on the air it is a pleasure to operate. It also does a very good job of hearing what is going on all the

bands. I need to do some antenna work but will have to get some one to climb the tower to do most of that work.

I saw this morning in the East side Tulsa paper an article about the Tulsa Ham club. I have not been active in club activities for a good many years and was really surprised to learn there was 2500 licensed hams in Tulsa. The article stated there was 8000 in the state of Oklahoma! By the sounds of that article the ham club here and in the state is healthy and growing. I do go to club meetings here on the east side. I guess what keeps me going there is I write an article on ham radio each month. I have been doing this for about 15 years. I keep thinking they might get some one to replace me but so far no luck.

Since I sold so many books I guess I will buy a few more current ones. Looking over what is available it seems like the ARRL books are about the only thing on the market. I have the current hand books so am looking a little further afield. I see several that look interesting and might keep my mind working during those long winter days and nights.

Listening on 15 this afternoon there were some really strong signals. One 6 was telling a 2 he had a HT1000WP and had added a HT1000D. How in the world could you handle two of these rigs at one time. Of course you could have each rig on a different antenna. One ham at the monthly club meeting was telling his new solid state linear would not even start so he was sending it back to the factory. After all it cost more then \$4000 so I guess I don't blame him. I think the last thing he might do was dig into the innards of that piece of gear.

Along the idea of reading I was again disappointed with the late QST in its content. I guess I will have to get used to the new ideas of ham radio. I don't have to like it but like they say you must keep up with the times. I see several new antenna hand books with ideas about antennas for city dwellers. I guess I am just enough of a sucker to decide to buy a couple of them. The Xyl will think I am out of my mind as I still have a couple of antenna hand books complete with soft wear. I have put up a 160 meter antenna here on this city lot the only problem it cut the performance of the 75 meter antenna as it was added to the 75 antenna with a loading coil. As I operate 75 weekly I didn't like that and 160 is really only a winter band while on 75 I run schedules twice a week all year long.

73'S
W5INU



Continued from Page 2 members to view. Don Dobbs announced next months meeting will take place at Williams Energy Products Internet TV Studio. Please meet at the Williams Center near where the Old Skating rink was located (South West Corner).

Program:

The meeting discussed among the membership plans for conference topics for the Winter OAB Conference to be held in Tulsa on February 15 to the 17th. It will be located at the Southern Hills Marriott. Some of the various topics include:

- COFDM
- DAB
- 8VSB

- Field Strength Measurements
 - Multi Channel Sound
 - Hidden TV Costs
 - RF Transmitter and Studio Issues
 - Legal Issues with Streaming Internet
 - Computer Networking Seminar
- And So On.....

SBE's Short Circuits

November 2000

A Monthly Update from the Society of Broadcast Engineers

SBE SUBMITS LETTER TO TELCOM SUBCOMMITTEE CHAIRMAN TAUZIN

On October 18, SBE hand delivered a letter to the Chairman of the House Subcommittee on Telecommunications, Billy Tauzin of Louisiana. Signed by SBE President, Andy Butler, the letter expressed concern about the lack of action by the FCC on a technical rule making that is critical to the timely roll-out of digital television. RM-9418, a 1998 petition for rule making filed by the Telecommunications Industry Association, proposed that digital modulation be allowed in all TV BAS microwave bands. The letter's entire text can be found on the SBE web site, www.sbe.org.

MAPS OF FREQUENCY COORDINATION AREAS NOW AVAILABLE

Specially designed maps are now available on the SBE web site that helps people locate the proper frequency coordinator anywhere in the US. The maps were designed by Dane Ericksen, P.E., CSRTE of Hammett & Edison Consulting Engineers and member of the SBE National Board of Directors. There is a map for every state illustrating all its counties. Frequency coordination areas are depicted on the maps and there is also a list of counties covered by each coordinator. When used in conjunction with the list of coordinators, also found on the web site, users can easily determine which coordinator to contact. To view the maps, go to the SBE web site, www.sbe.org and click on Frequency Coordination.

ENNES WORKSHOP ON CBNT PLANNED FOR NAB CONVENTION

Many people have expressed interest in the new certification offered by SBE - Certified Broadcast Networking Technologist. More than 100 industry professionals now hold this certification rolled out less than a year ago. As a part of the 2001 NAB Broadcast Engineering Conference at the NAB Spring Convention in Las Vegas, a special Ennes Workshop will be held with the sole topic being a five-hour program on broadcast networking technology. It will cover network topologies and layouts, common network protocols, wiring and connector types, system standards and installation practices, maintenance, troubleshooting and connectivity issues, challenges unique to media based network platforms and an overview of digital compression technologies and related storage issues. The Ennes Workshop will be held Saturday, April 21 from 9:00 am to 3:00 pm. Since this is the day before the convention officially opens, participants will not miss any time on the exhibit floor or regular paper sessions. Instructor will be Terry M. Baun, CPBE of Criterion broadcast Services and chairman of the SBE certification Committee. Moderator will be Richard Farquhar, CPBE, President of RAF Companies and education director of the Ennes Trust.

Attendees will have the opportunity to take the SBE CBNT examination at the end of the workshop at 3:00 pm. Registration for the exam will be encouraged in advance,

although on-site registration will be possible. Watch for more details in upcoming issues of the SBE SIGNAL and NAB Convention promotional information.

CERTIFICATION EXAM DATES FOR 2001 SET

The SBE Certification Committee has established exam dates for 2001. Check the list below for the exam period that is best for you. For more information about SBE Certification, see your Chapter Certification Chair or contact Linda Emerick, Certification Director at the SBE National Office at (317) 253-1640 or lgodby@sbe.org.

<u>2000 Exam Dates</u>	<u>Location</u>	<u>Application Deadline</u>
November 10-20	Local Chapters	CLOSED

<u>2001 Exam Dates</u>	<u>Location</u>	<u>Application Deadline</u>
February 9-19	Local Chapters	December 31, 2000
April 24	NAB	March 23, 2001
June 8-18	Local Chapters	April 30, 2001
August 17-27	Local Chapters	July 9, 2001
November 9-19	Local Chapters	September 28, 2001

LEADER SKILLS SEMINAR COMES TO ATLANTA

There is still time to register for the SBE Leader Skills Seminar Course I, "The Framework of People Skills", to be held in Atlanta, Georgia, November 29 to December 10. Our course instructor is Richard Cupka, who has presented leader skills training to broadcast engineers for more than 30 years. The cost for Leader Skills Course I in Atlanta is \$490, which includes instruction, materials and refreshment breaks. Transportation, hotel and meals are additional. The seminar will be held at the Courtyard Marriott Atlanta Midtown. A special room rate of \$99 has been arranged for those needing overnight accommodations.

Course II, "Expanding Your People Skills" will be held February 14 to 16, 2001. Students interested in taking Course II must have completed Course I or any of the previous Leader Skills Seminars presented by SBE or NAB since 1965.

To register, call Angel Bates at the SBE National Office, (317) 253-1640 or e-mail her at abates@sbe.org as soon as possible for Course I. Registration is on a space available basis. Deadline to register for Course II is January 15.

Questions and comments about SBE may be e-mailed directly to Executive Director, John Poray at jporay@sbe.org.

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If you would like to contribute to this newsletter please send your article to Bill Lee at:

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7777 South Lewis Ave.
Tulsa, OK 74171
or willilee@oru.edu

Continued from Page 1 of choice for contemporary E-Commerce programs. It is an extension of the venerable HTML (HyperText Markup Language). It looks like HTML, but it adds data pointers which tell programs how to interpret and present the data. Because XML is written as standard ASCII text, it is even readable without a program, but special programs can be created to place XML data into database records or used to create tables of features, benefits and specifications. It can even be used to create AutoCAD diagram or dimensional blocks.

VDP, Inc. will be responsible for creating a program for manufacturers to format their data into XML. The VDP, Inc. program will be available to manufacturers and other interested parties on its Web site. The cost of these products will only be the cost of any licensing of XML technology that may be needed.

When Engineer Friendly Documentation is implemented, manufacturers who take their engineering customers seriously will be able to put a button on their Web site like the one discussed above. When this is clicked, the user would automatically download the XML file into his/her computer or view various Engineer Friendly Documentation reports that may be available.

With the extremely rapid changes in both the broadcast industry and the Web, rapid evaluation and implementation of this standard is essential. Changes in Web technology generations are measured in months rather than years. Yet this Engineer Friendly Documentation proposal has enough flexibility for manufacturers to vary slightly, as long as the essential data is collected and disseminated using the proposed XML tags.

A committee was created to continue discussion and design of EFD. Your input is welcomed and encouraged. The committee consists of the following members:

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RAF Consulting Inc.

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Contract Video

To be placed on an expanded list discussion on Engineer Friendly Documentation, you can subscribe to:
sbe-efd@sbe.org

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SBE RESUME SERVICE

Have you ever wondered how to get your resume into the hands of organizations with openings in your field?

Let SBE help with our Resume Service, available to current SBE Members at no charge. Organizations can use the SBE Resume Service to fill your broadcast industry positions for a processing fee of \$25. For more information, call the SBE National Office at (317) 253-1640 or e-mail Angel Bates at abates@sbe.org.

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Email: _____

- I wish to receive the Chapter 56 newsletter via email.
- Renewal Contact Me about advertising in newsletter

The SBE Chapter 56 Inc. Newsletter is published on the 16th of each month, except December, and mailed to members and other interested parties. A \$15 annual donation is requested to cover publishing costs.

Make checked payable to SBE Chapter 56, Inc., PO Box 703155, Tulsa OK 74170-3155. Other SBE Chapters may use excerpts, if attributed to the original author and this newsletter. The deadline for submitting articles is the 15th of each Newsletter month.



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