



June Meeting
Tuesday, July 25th 2000
12:00 Noon
Fountains Restaurant
6540 South Lewis Avenue,
Tulsa

July 2000

July Chairman's Report

By Don Dobbs

Spencer Johnson, author of "The One Minute Manager," has become well-known for making complicated ideas easily understandable. In his new book, "Who Moved My Cheese?" Mr. Johnson uses the power of metaphor and story to tackle the topic of "change." This little tale is about two mice, Sniff and Scurry, and two little people, Hem and Haw, who scurry frantically through a maze in search of "The Cheese." Once they have found it and depend on its always being there, they discover one day that it has vanished. Hem and Haw, the little people in the book, are exact opposites from the mice, and refuse to accept change and insist on staying put, even though the cheese has disappeared.

The "Cheese" is a metaphor for what we want to have in life whether it is a good job, a loving relationship, money, a possession, health, or spiritual peace of mind. And "The Maze" is where you look for what you want - the organization you work in, or the family or community you live in. The author shows us that what matters most is the attitude we have about change. Mr. Johnson has written a deceptively simple tale with an important message that can completely alter the way we all cope with change. I recommend it.

What kinds of things would interest you at our monthly meetings? There is a list of possible topics on page four. Please read through them and make a suggestion. Did you just renovate a studio or install new equipment? Share what you learned give a demonstration yourself or write a short article for the newsletter.

Contact: Don Dobbs or Bill Lee

SBE's Short Circuits

JULY 2000

A Monthly Update from the Society of Broadcast Engineers

LEADER SKILLS SEMINARS COURSE II DEADLINE JULY 10

The 32nd Series of Leader Skills Seminars continues with Course II on August 16-18 in Indianapolis. Course II is entitled, "Expanding Your People Skills" and picks up where Course I leaves off. It goes into further depth and provides participants with a solid foundation to manage others. The seminar is led by Richard Cupka, who has presented management training seminars to broadcast engineers for more than 30 years. Students for Course II must have completed Course I, or any of the previous Leader Skills Seminars presented by SBE or NAB since 1965.

The cost for Course II in Indianapolis is \$425, which includes instruction, course materials and refreshment breaks. Transportation, hotel and meals are additional. Registration Forms can be obtained from the SBE National Office by contacting Angel Bates at (317) 253-1640 or abates@sbe.org.

DEADLINE APPROACHES TO NOMINATE CANDIDATES

Members have until July 9 to submit nominations for candidates for officers and the national Board of Directors. Any person nominated by ten or more members for the same office will be placed on the ballot along with those candidates presented by the Nominating Committee.

Nominations must be received at the National Office no later than July 9. Address them to: Barry Thomas, CSRE, SBE National Secretary, 8445 Keystone Crossing, Suite 140, Indianapolis, IN 46240.

Election ballots will be mailed to all SBE voting members by August 8, 2000. Completed ballots must be received by US Mail at the SBE National Office no later than Thursday, September 7 at 5:00 pm, CDT. Ballots will be opened and counted by a Board of Tellers that evening. Results will be announced the following day. The newly elected officers and board members will be installed during the SBE National Meeting in Pittsburgh, Pennsylvania on October 4.

The Nomination Committee's slate of candidates include the following: Officer Candidates President - James "Andy" Butler, CPBE*, Alexandria, Virginia Vice President - Richard L. Edwards, *Continued on page 3*

www.broadcast.net/~sbe56

Don Dobbs Chairman

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**Richard Hardy, CBRE Frequency
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Richardy Productions
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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

June 27, 2000, The Fountains Restaurant Tulsa, OK

Chairman Don Dobbs called the meeting to order.

Meeting minutes from the April meeting as published in the May newsletter were approved.

Treasurers Report: Larry Miller reported there was a deposit of commercial members and member's dues on May 9, 2000, in the amount of \$400.00. There was a deposit of commercial and member's dues on May 31, 2000 in the amount of \$315.00. One check was written for the June newsletter publishing expenses in the amount of \$59.17. The chapter checking account balance was \$3,261.19 as of June 27, 2000.

EAS Report: Roger Herring asked that if stations are not monitoring the primary station listed in the statewide EAS plan to notify him so he can update his monitoring list.

Frequency Coordination: Richard Hardy reported no new activity below 1 GHz.

Above 1 GHz, Larry Miller reported no new activity.

Newsletter/ Secretary: Bill Lee was on vacation. No report given.

Internet Committee: No report was given

Membership Committee: Jim Bowles was not present. No report was given.

Old Business: None.

New Business: Jim Hobbs said his G.M. offered to let Chapter 56 meet at KWBT Studios for the monthly meeting. The meeting could be catered, possibly paid for by an outside party. Don Dobbs thanked Channel 19 for the offer. Roger Herring spoke about the possibility of monitoring the emergency sirens of Tulsa and surrounding towns so the media would know when the authorities were declaring an emergency and could pass along the information to their viewers/ listeners. He asked if anyone was interested in purchasing the receivers necessary to accomplish the monitoring. He had literature and contacts for anyone interested.

Richard Hardy reported that KWHB (Ch. 47) is looking for a new Chief Engineer.

Today's Program: Mike DeClue, Director of Engineering at Clear Channel Communications, spoke about the Broadcasters Digital Cooperative, which is a group that has agreed to deliver a dedicated portion of each broadcaster's spectrum for the creation of a *Continued on page 4*

July 2000, Hams Corner By Glenn Thomas

There has been a steady change in the ham magazines over the last few years. The main reason I believe is because of the lack of parts and supplies to build ham equipment. To build equipment up to today's standard it is hard to find the necessary parts etc.

Of course a main cause has been the flood of advanced equipment from over sea's manufacturers. This equipment is of very good design and workmanship. I know from experience because of a very fine transceiver I received for christmas about one and a half years ago from an overseas manufacture.

Another problem is to order parts from catalog houses can require a \$50 minimum order even if you only need \$10 worth of parts. Old timer's had to make many of their parts but the equipment of today is so advanced in design most of us don't have the knowledge or the ability to make the parts needed.

Another problem with home brewing is the cost of parts! Some times when you total up the cost of parts you lose the desire to start a project. Much of my building days were when surplus parts were available along with war surplus equipment which yielded many fine parts at very low cost.

So how will Ham Radio change here in the US? I guess we will spend more time operating and less time building. I still do a little building and have thought about rebuilding my linear as it has been years since I built it. It uses a pair of 813'S to run a KW, these tubes date back to the days I worked in broadcast radio. The only problem is it works FB and I still have some spare 813'S in the tube box. I don't have 160 on the linear but the FT1000MP does a good job even with a shortened antenna system on this band.

I have a short antenna for 75 which works very well. One half of the antenna is a normal quarter wave long.

The other half is the tower which has the triband beam and the 2 meter beam. Over all is about 45 feet high. The beams seem to add enough extra mass to help make up for its short length. At least the antenna tunes to resonance with out any trouble and works very well. There is also a 40 meter dipole off the top of the tower where the beams are mounted. Both of these antennas are fed with 50 ohm coax and work FB.

I had a 160 meter antenna of short design some years ago that worked well. It needed the antenna tuner to work but did OK but as 160 at the time was not a real interest it was removed in a rebuilding of the antennas.

The one thing I have found is that even if you don't have room for a full size antenna you can usually find a way to build a working antenna for most bands. While we are talking about antennas a word about beam rotors might be in order. My trusty old rotor which has been up there for twenty plus years gave up the ghost. I finally ended up ordering a rebuilt remote control unit for the rotor. The power transformer was out and cost of repairing was too much so replacement unite was cheaper. In case any of you guys have need for rotor repair here is the address. I got it from an old friend who is in the business in Esterville, Ia. Melvin Breyfogle W0MDM

Norm's Rotor service
5263 Argo Drive
Frederick, Maryland 21703
(301) 874 5885

It was suggested my antenna had gotten a lighting strike but I always thought a strike would cause more damage. O Yes the rebuilt control unit is now hooked up and works FB. That is after I got it wired up right. I assure you with the control wires hooked up backwards it won't work!

73'S



Continued from page 1 CPBE*, Coral Springs, Florida Secretary - Raymond Benedict, CPBE, Washington, D.C. Barry Thomas, CSRE*, Los Angeles, California Treasurer - John Batson, CPBE*, Birmingham, Alabama Robert P. Hess, CPBE, Boston, Massachusetts

Candidates for the Board (vote for six; listed in alphabetical order) Ralph Beaver, CBT, Tampa, FL Tom Daniels CPBE, Ft. Worth, TX Samuel Garfield, CPBE, Raleigh, NC* Al Grossniklaus, P.E., CPBE, Indianapolis, IN * Eric Hoehn, CSRE, Arlington, VA Mark D. Humphrey, CPBE, Chester Springs, PA Vinny Lopez, CEV, Syracuse, NY Robert Reymont, CPBE, Mesa, AZ Conrad H. Trautmann, CSRE, Stoney Brook, NY Jerry Whitaker, CPBE, Morgan Hill, CA ** Denotes incumbent.

CERTIFICATION EXAM DATES COMING UP

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 Godby-Emerick, Certification Director at the SBE National Office at (317) 253-1640 or lgodby@sbe.org.

<u>Exam Dates</u>	<u>Location</u>	<u>Application Deadline</u>
August 18-28	Local Chapters	July 7, 2000
Nov. 10-20	Local Chapters	September 22, 2000
<u>2001 Exam</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

NATIONAL MEETING SET FOR MARS

The 2000 National Meeting *Continued on page 5*

Possible subject matter for upcoming Chapter 56 meetings.

Technology

- Fiber optic systems
- Lightning protection, surge arrestors, grounding techniques
- AC power generator maintenance
- Digital audio & video data reduction techniques explained
- FM Antenna Theory; Bandpass Filter and Combiner Theory
- New developments in Digital Audio Broadcasting
- Research on the effects of non-ionizing electromagnetic radiation (NIER) to the body (perhaps presented by a research scientist from a local university).
- Studio wiring techniques & Software methods used to catalog a studio wiring database
- Special Considerations and Maintenance for Air Conditioning for Equipment Rooms and Remote Sites
- Transmitter monitoring and measurement
- Audio processors
- Acoustics for broadcast studios including review of properties of sound and building materials; optimizing acoustic performance
- DVD
- Radio transmitters
- Remote audio transmission technology
- DTV Combiners
- REAL Coverage Maps and signal measurement by Al Jason, CMBE, Inc.
- Digital microwave propagation and path engineering for DTV STLs

Regulation Issues

- Local electrical code issues for the broadcaster. The UL standard for broadcast equipment
- ANSI standards for non-ionizing electromagnetic radiation (NIER)
- OSHA standards for broadcasters
- What do they look for in an FCC inspection? (presented by your local FCC field office inspector)
- Your regional emergency plan (presented by the regional EAS coordinator)
- Filling out FCC forms (form 854)

Technology Presentations

- EAS technology and equipment (TFT, Sage, others)
- An all digital transmission path for radio from digital console to digital exciter (Harris)
- Using T-1, ISDN or Switched 56 telephone service (by local telco or an equipment provider)
- Theory and practice of FM antennas
- Practical solutions for HDTV transmission
- A radio Digital Studio Transmitter Link
- Demos of test equipment, tools, etc. (IFR, Audio

Meeting Minutes *Continued from page 2* national broadband wireless distribution network.

Jose Resado of Ikegami presented the Editcam. It is a disc camera recorder; it can record up to 45 minutes with a small removable drive. It is quite versatile in that it can record one frame at a time for a time-lapse recording. Retro is a unique feature in that an event can seem to be recorded after the fact. If the photographer is waiting for an event to happen, he doesn't have to keep changing tapes but only has to push a button within 15 seconds after the event, to capture the event.

Precision, Tektronix, Hitachi)

- Demo of desktop video products for editing, computer graphics or animation
- Digital hard drive video storage systems
- Demo of a digital audio editing system
- Demo of a digital audio hard disk storage system
- Demo of a digital audio cart machine
- New products for TV and CATV (Tektronix, local representative)
- FM modulation monitoring and measurement
- Demo of a digital video analyzer
- Wireless microphones
- Voltage regulators
- MPEG demo

Other Ideas

- Hold a joint meeting with another group (AES, SMPTE, SCTE, etc.) to provide a larger audience and attract a speaker on a topic of mutual interest
- Social event: have a summer BBQ in the park or a Christmas party. Invite family members
- Open exchange or panel discussion on a topic of general interest (The Denver Chapter held one called "Hints, Tips and Gimmicks" and awarded a free lunch to the best idea.)
- Cost reduction services - utility auditing
- Studio cabinetry
- Digitally controlled workstation/console
- Facilities construction

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

KGEB Tulsa 53
7777 South Lewis Ave.
Tulsa, OK 74171
or willilee@oru.edu

Continued from page 3 of the Society of Broadcast Engineers will be held at the Pittsburgh Sheraton North in Mars, Pennsylvania, October 3-4. The Sheraton is 17 miles north of downtown Pittsburgh on I-79. The National Meeting is being held in conjunction with the Pittsburgh Regional Convention sponsored by Chapter 20. The Pittsburgh Regional Convention has been held for more than 25 years, features over 45 exhibitors and a full day of technical paper presentations. For more information about the National Meeting, see the June issue of the SBE SIGNAL.

SBE CHAPTER 9 ANNOUNCES REGIONAL CONVENTION IN PHOENIX

Chapter 9 in Phoenix, Arizona will present a SBE Regional Convention in conjunction with the Arizona Broadcasters Associations fall convention on Thursday, October 12. Chapter 9 will be organizing an exhibit floor and arranging technical papers for the event. For information about exhibiting or to present a paper, contact Gerry Grunig at (602) 262-5106 or ggrun926@fox.com. Exhibits and papers will be free to broadcast engineers. There will be a special "Engineer's Breakfast" at 7:30 am with a speaker. Cost of the breakfast is \$5.00. The Convention will be held at the Sheraton Crescent Hotel, 2670 W. Dunlap in Phoenix.

MEMBERSHIP DRIVE WINNER HAILS FROM WYOMING

The SBE Membership Drive ended May 31 with more than 60 new members coming directly from the Drive. All of the recruiters had their name in the prize barrel one time for each new member they recruited when the big prize drawing was held in June. Winning the Grand Prize of a trip to the SBE National Meeting and Pittsburgh Regional Convention was Mark Knittle of Laramie, Wyoming. Mark is a member of Chapter 129, Wyoming. Mark wins roundtrip airfare to Pittsburgh, two nights stay at the Pittsburgh Sheraton North and a free ticket to the SBE National Awards Reception and Dinner. A complete list of the prizewinners will be in the September issue of the SBE SIGNAL. In addition to the product prizes, each recruiter will receive \$ 5.00 off their 2001 SBE membership renewal for each new member recruited during the 2000 Membership Drive.

MONTHLY HAMnet BRINGS SBE TO REMOTE AREAS

At 8:00 pm EST, 0000 GMT, on the second Sunday of each month, SBE Chapter 73 takes the air. Hal Hostetler, WA7BGX, of Tucson, Arizona, is the control station for the "meeting." Updates on SBE activities are given each month and participants can discuss technical issues and visit. HAMnet was originally begun to help serve members who lived too far to attend meetings of any regular chapter, but any amateur operator is welcome and encouraged to participate. Look for HAMnet on 14.205 mHz.

The **SBE Job Line** service was developed to assist our members in locating available broadcast engineering positions throughout the country. The Job Line can be accessed as a voice recording at (317) 253-0474.


If you have a job opening you wish to place on the SBE Job Line, please fax, e-mail or mail the job description, along with the contact information, to Scott Jones at kjones@sbe.org in the SBE National Office in Indianapolis or fax (317) 253-0418. We will keep the position posted for our members to access for two months or until you notify our office that the position is no longer available. The Job Line information is updated weekly on Thursday mornings. The deadline for getting a posting to us for the week's update is Wednesday evenings.

There is no charge to employers to list a position on the SBE Job Line. If you have any questions concerning the SBE Job Line, please call us at (317) 253-1640.

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.

	Mark deLind Regional Sales Manager 800-497-4131
	501-315-7499 Fax (501)315-9007 1-800-299-4387 (Corporate Office) 102 W. Ashley Benton AR 72015



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 <p>RF Specialties OF TEXAS, INC. Don Jones http://www.rfspec.com</p> <p>1-800-537-1801 (806) 372-4518 Fax 806-373-8036 P.O. Box 7630 Amarillo, TX 79114</p> <p>VISIT OUR ON-LINE WEB CATALOG AT: http://www.rfspec.com</p> <p>Complete product pricing and information featuring many of the most important radio broadcast product lines. Always current and in more detail than the paper catalog. You can also download the latest version of our "RFS" technical software & read articles from our newsletter.</p>	 <p>Audio precision</p> <p>P.O. Box 2259 Beaverton, OR 97075-2209 Tel: (503) 627-0832 Fax (503) 641-8905 US Toll Free 1-800-231-7350 Website: www.audioprecision.com</p> <p style="text-align: right;">Oklahoma Representative: Ron Fisher & Associates, Inc. 5602 East 37th Place, Tulsa, OK 74146 Tel: (918) 665-8899 Fax (918) 649-3442 rfai@swbell.net</p>  <p>Media Specialists Audio, Video & Data Media Tape</p> <p>Sony, Quantegy, Maxell, Panasonic, JVC, BASF, Imation Corrine Dalby, President Phone 918-622-0077 5333-E South Mingo Rd. Fax 918-622-0159 Tulsa OK 74146 media-specialists@b-itx.com</p>
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