

**Meeting Notice****Thursday, August 12, Zarda Barbecue**

11931 W. 87<sup>th</sup> St.; Lenexa, KS; 913-492-2330  
Gather at 11:30 a.m.; meeting at 12 noon

*Insight to IBOC Technology.* Richard Hinkle, vice president of RF engineering for Broadcast Electronics will provide a program on IBOC. His presentation will give an overview of the technology and how it works, with an emphasis on the necessary equipment and the various possible configurations. Broadcast Electronics recently introduced a method to split the functions of IBOC digital signal generation and RF modulation.



The FCC is currently accepting comments for a Rulemaking on IBOC, which will likely lead to an increase in stations commencing IBOC transmissions.

Lunch will be provided by Broadcast Electronics and RF Specialties. ☺

Certification Exam Dates		
Exam Date	Location	App. Deadline
Nov 12-22, 2004	Local Chapter	Sep 24, 2004
Feb 4-14, 2005	Local Chapter	Dec 27, 2004
Apr 19, 2005	NAB	Mar 1, 2005

**Last Month's Meeting**

By Ben Weiss, CPBE

The July 8 meeting was held at the facilities of Kansas City Scout in Lee's Summit.

Bob Schneider, chapter frequency coordinator, is still working on the update to the frequency coordination database. The new software should speed up access to the data when the work is completed.

In EAS, Kirk Chestnut reported that he has had three meetings with Kansas Congressman Dennis Moore and Missouri Congresswoman Karen McCarthy to discuss future plans for AMBER Alerts. While WIBW is the Kansas point of entry for AMBER Alerts and the National Weather Service is the entry point for Missouri AMBER Alerts, there is much to be done in setting a standard for disseminating details of the alerts.

One item of chapter business was the appointment of a new chapter vice chairman. Following Mike Douthat's resignation, Steve Epstein assumed the duties of chapter chairman. Epstein appointed Dave Buell, CEV, and the meeting attendees approved the appointment.

The program was a tour of the Kansas City Scout traffic monitoring and control center. Kansas City Scout serves as a lookout for area travelers. Our host for the tour was Jason Sims, E.I.T, traffic operations engineer. With 80 high-resolution video cameras and roadway sensors,

Scout is able to monitor traffic conditions, send help to clear congestion, and provide traffic updates to travelers more quickly. You have likely seen the message boards on many of the highways already. These signs are tied to the facility in Lee's Summit.

Photos from the meeting are posted on the SBE59 website. Click on the link for Meetings.

**Chairman's Chat**

By Steve Epstein, CPBE CBNT

**The Necessity of Reinvention**

It has been said that if you stop getting better you cease being good. At last month's meeting I suggested that an opportunity for writing existed. So far no one has volunteered, which is fine—maybe writing is not your thing, I will probably never be a musician. Regardless, we all must find ways to reinvent ourselves; especially today. Technology changes and we must adapt—when was the last time you worked on a tube circuit that was operated at less than 100 watts?

Unfortunately, for broadcast engineers, most learning takes place on the job, not in the classroom. Because it is on the job, it can sometimes be hard to document or demonstrate to your current supervisor or a potential employer. SBE Certification is one way to do that. Obtaining Certification shows more than just your knowledge of the subject, it also shows your commitment to ongoing education, and a willingness to document it.

Many certifications aren't worth the paper they are printed on. We have all seen the technical schools that turn out graduates who learned little more than how to part with their money. I once ran across a graduate of DeVry's electronics program that did not know how to test a switch. SBE Certification is different. Thanks to the efforts of those at the National office, including Chriss

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Scherer, SBE Certification is now recognized by the National Skills Standards Board.

Take some time over the next four to six weeks to assess your skills. Look at the various opportunities that exist for certification. If you are not sure whether you are ready, talk to your supervisor or your mentor. If neither are available or helpful, talk to me. Each one of us can benefit from certification of some type. Start with the certifications that the SBE has to offer as they are likely to be the most relevant (and inexpensive). Then move on to others. Just this month I added Linux/Unix Systems Administrator to my list of certifications. What can you add to yours?

### MO Low-voltage License Legislation Dropped

Earlier this year, Missouri Sen. John Loudon (R-District 7, part of St. Louis County), introduced Senate Bill 990 ([www.senate.mo.gov/04info/billtext/intro/sb990.htm](http://www.senate.mo.gov/04info/billtext/intro/sb990.htm)), which would have created an Electrical Contractors Licensing Board to be located within the Division of Professional Registration. The bill would have also established state licensing requirements for electrical contractors, which would have included any individual working with low-voltage wiring in a commercial application.

The matter had been deferred to a State Senate committee for review, where the bill was modified, thanks to the work of Don Hicks, president and CEO of the Missouri Broadcasters Association. The modification would have allowed broadcast engineers who hold SBE certification to be exempt from obtaining the state license.

The legislation has been dropped because both the Senate and House sponsors lacked a consensus in their goals.

Had this passed with the SBE certification provision in place it would have been a significant win for the SBE. At the same time, because the issue is now dead, there is no concern for a state-wide license need. Unfortunately, some counties and cities have their own laws that require various licensing. That has not changed.

### SBE Membership Hits New High

Total SBE membership at the end of June reached 5,939, a new all-time high. This exceeds the previous all-time high recorded on June 30, 2003, by 66. In the first half of 2004 alone there were 447 new members. Member renewals as of July 23 stood at 4,620 (including Life Members), which is 25 fewer than at the same point last year. If you have not renewed your membership, please do so immediately.

**Record High National Rebates Sent to Chapters**

A record amount of money was sent June 1 to qualifying SBE Chapters in the form of chapter rebates. A total of \$36,661 was mailed to 79 chapters. Both figures are all-time highs. Because the rebates are based on Dec. 31, 2003, figures, this is the first year that the rebates reflect the dues increase that took affect on Jan. 1, 2003. The average rebate was \$464, up from \$449 the previous year.

**The Ten Largest SBE Chapters**

Have you ever wondered which SBE chapters are the largest? Here are the top ten based on the membership count as of Dec. 31, 2003.

Chapter	Location	Members
47	Los Angeles	224
15	New York City	177
67	North Texas	175
37	Washington, DC	169
26	Chicago	163
16	Seattle	150
5	Atlanta	123
40	San Francisco	120
18	Philadelphia	114
48	Denver	113

For comparison, as of July 15, SBE59 has 54 members assigned to it.

**Another High Point: SBE Certification**

There are now 5,400 SBE certifications held by approximately 5,000 different members and non-members, which is also an all-time high for the Society. This achievement is the result of the collective hard work of the National Certification Committee, chapter certification chairmen and the national certification staff.

**Harris Provides Presentation for SBE59**

On July 30, Chris Pannell, northwest sales director for Harris, hosted a presentation at the Sheraton Hotel on the Plaza. The program, presented by Paul Barzizza, manager of systems engineering, described the functions and operation of the Harris Vista Max audio routing and console system. Rich Redmond, the director of studio and console systems, was also on hand.

The presentation lasted about two hours, and Pannell provided lunch.

**Next EAS Required Monthly Test: August 24**  
 The RMT is sent on the last Tuesday of the month


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## Computer Connection

By Steve Epstein, CPBE CBNT

### CBNT Review, Part 5: Network Services

Common network services include DHCP, FTP, HTTP, DNS and telnet. In larger networked environments, Dynamic Host Configuration Protocol (DHCP) runs on ports 67 and 68. It is used to allocate IP addresses and provide basic information about the network to each host (computer). A range of IP addresses is normally set aside and allocated on a first-come, first-serve basis. In addition to allocating an IP address the DHCP server provides the netmask and default gateway. DHCP allows laptops and other portable machines to easily function on more than one network without the operator having to manually configure the machine.

File transfer protocol (FTP) runs on port 21 and makes it easy to transfer files across multiple platforms without having to mount a drive. FTP servers can be setup to allow anonymous logins or they can require specific user accounts. In addition, on many platforms, individual directories can be set up to require user logins, while other directories are open. When setting up an FTP server that allows anonymous logins be aware of the security implications of allowing someone to upload files to your machine.

Hyper-text transfer protocol (HTTP) is used for Web services and normally runs on port 80. Common Web servers include Apache and Microsoft's IIS. Running a Web server in-house for an Intranet is a common way to allow multiple people access to information. They are quite simple to setup and multiple servers can easily be run from the same machine by assigning them each to a different port.

Domain Name System (DNS, port 53) is used to translate the IP addresses that computers use into names that you and I can remember. Because DNS operates across the entire Internet, it is important that publicly available DNS servers are setup correctly. If they are misconfigured, the impact can be Internet-wide. DNS servers can be setup as either primary or secondary.

One other network service that we should cover is telnet, which runs on port 23. Telnet allows you to login to a re-

mote machine. It is much like PC anywhere, but with a command-line interface instead of a GUI. There are secure versions of telnet, one of which is SSH (secure shell) it normally runs on port 22 and must be running on both the client and the server for communications to take place.

In a previous column, I mentioned that a major function of networks is to share resources. Those resources need to be easily located on the logical network regardless of their physical location. The UNC (Universal Naming Convention) is to name devices as \\server\share\file. DOS

systems use the backslash, whereas most Unix/Linux boxes use forward slashes.

Normally the Unix/Linux devices can translate, and some flavors of Windows will also. When in doubt, start with the backslashes and if that does not work try the forward slashes.

### SBE to Exhibit at IBC

For the first time, the Society of Broadcast Engineers will participate as an exhibitor at the International Broadcasting Convention in Amsterdam. The event takes place September 10 to 14, 2004, at the RAI Convention Center.

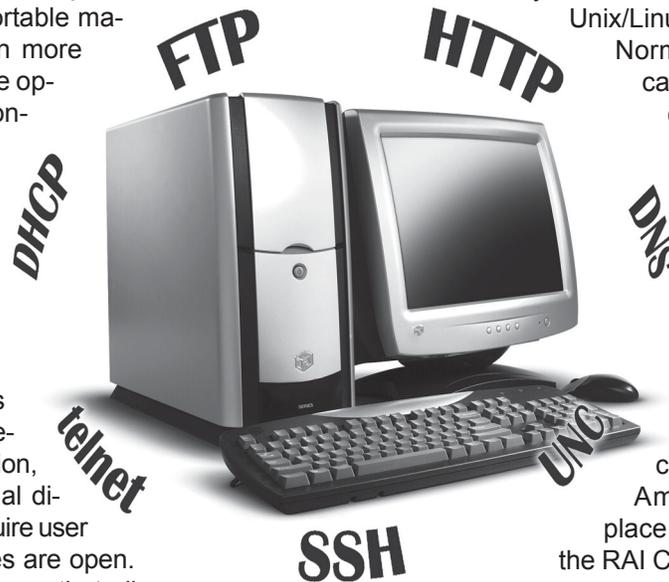
SBE International Committee Chairman Chuck Kelly, CBT, worked with the IBC organizers to provide SBE with a complimentary booth, paving the way for the SBE's participation. SBE Executive Director John Poray will represent SBE at the show. Poray will promote SBE membership, certification and other services to the more than 39,000 attendees. The SBE currently has members in 30 countries besides the United States.

### Kansas City Local EAS Plan Now Online

The Kansas City-area EAS plan is available for download. Stations should keep a copy of the local plan with their copies of the state plan. Go to the SBE59 website and click on the link for EAS. The plan is available as a Word document and an Adobe Acrobat PDF.

### SBE 2004 National Meeting

The SBE National Meeting will be held October 26 and 27 in conjunction with the Bos-Con Regional Convention sponsored by Chapter 11 in Boston. The event will take place at the Best Western Royal Plaza Hotel and Trade Center in Marlborough, Massachusetts.



The SBE National Meeting includes the fall Board of Directors Meeting, annual Fellows Breakfast, Annual Membership Meeting and the National Awards Reception and Dinner. The regional Convention includes an Ennes Workshop on Tuesday, which costs \$25 to attend and includes lunch, as well as a broadcast equipment trade show on Tuesday evening and all day Wednesday.

Marlborough is approximately 45 miles west of the Boston airport, 50 miles north of the Providence, RI, airport and 50 miles south of the Manchester, NH, airport.

#### SBE Anniversary Presentation Available

Copies of *40 Years of Service*, the SBE 40<sup>th</sup> anniversary program originally presented during the SBE Membership Meeting at NAB2004 are now available. Copies will be mailed this month to all the SBE chapter chairmen and SBE past presidents. SBE59 is planning to include this as part of an upcoming meeting.

The presentation includes the voice talent of Jon Taylor of Susquehanna Kansas City.

#### Four Leader Skills Seminars This Summer

By the end of September, the SBE will have presented four Leader Skills Seminars this year. Course I has been completed in both Indianapolis and Atlanta already and each city will host a Course II: Indianapolis from Aug. 11 to 13 and Atlanta from Sept. 28 to 30. Dick Cupka is instructing for all four courses. There are a limited number of seats for the Atlanta course still available. Attendance at Course II requires previously attending Course I. Contact Angel Bates at [abates@sbe.org](mailto:abates@sbe.org) or 317-846-9000 for more information.

#### SBE Renews NFL GDC

The SBE's contract to provide game-day coordinator services for the NFL was signed in July. The agreement is for three seasons, beginning with the 2004 season.

The SBE-NFL GDC program was launched in 1996 at Super Bowl XXX.

#### SBE59 Wins National Award

The results of the SBE Annual Awards for 2003 have been announced, and SBE59 is a winner in the statistical category of Greatest Growth in New Members in Class B. Class B means that our chapter has more than the average number of members of all the chapters.

This award shows that interest in the SBE and chapter 59 has increased. Thanks for your support of the chapter. ☺

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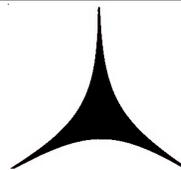
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**Upcoming Meetings and Events**

- August 12 - IBOC Overview**  
Broadcast Electronics/RF Specialties
- August 12 - Nebraska Broadcasters Convention**  
Embassy Suites, Lincoln, NE
- September 9 - All About SBE Certification**  
The details of the industry benchmark
- October 10 to 12 - KAB Convention**  
Overland Park Sheraton
- October 14 - Annual Picnic**  
The chapter's annual social gathering

Do you have a suggestion for a program topic?  
Please share it with Matt Kinnan or Mike Rogers.

**Prepare to be Certified**

The SBE introduced newly designed certification sample-test software at NAB2004. The new software runs on Windows and replaces the previous DOS-based software.



**CERT**preview  
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Sample tests are available for all levels of Certification except the Operator levels, which have their own study material. The software can be purchased through the National Office. Order your copy today and prepare to be Certified.



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