



Meeting Notice

Thursday, January 10, UMKC Volker Campus

Gather at KCUR at 11:30 a.m. for lunch and meeting

Program at 12:30 p.m. at Marr Sound Archives

A Tour of the Marr Sound Archives. The Marr Sound Archive, in the lower level of the Miller Nichols Library, is home to nearly 300,000 archival sound recordings that represent the American experience through recorded sound. The collection's formats include LPs, 78s, 45s, wax cylinders, wire recordings, transcription discs, instantaneous cut discs and open-reel tapes. A leader in audio preservation and digitization, the Archives preserves material stored in modern and obsolete formats, and its digitizing and web-publishing capabilities allow world-wide access to sound originally recorded on almost any device. Chuck Haddix, the archive's director, will give us a special insider's look at the Marr Sound Archives, as well as the preservation tools and equipment in its arsenal.

The chapter will meet at the studios of KCUR for lunch (pizza courtesy of KCUR) and then go to the Miller Nichols Library for the program. The two buildings are about 0.5 miles apart. There are parking meters in the lots next to both buildings. Parking costs \$0.75 per hour (bring plenty of quarters). Do not park in lots that require a permit if you do not have one.

Addresses:

KCUR-FM, 4825 Troost, Ste 202; Kansas City, MO 64110; 816-235-1551

Miller Nichols Library, Room G11; 800 E. 51st Street; Kansas City, MO 64110; 816-235-1000 (UMKC Switchboard)

Campus map: www.umkc.edu/pdf/maps/locator-2pg.pdf

Meeting Review

By Ben Weiss

The December meeting of Chapter 59 of the Society of Broadcast Engineers was held Dec. 13 at Fox and Hound Pub and Grill in Independence, MO. There were nine in attendance. Robin Cross, chapter chairman, called the business meeting to order at 12:20 p.m. and asked for those present to introduce themselves.

Ben Weiss read the minutes of the November meeting. The motion to approve the minutes was made by John Beck and seconded by Darrell Nickolaus. Passed. Ben also provided the treasurer's report.

Chriss Scherer, chapter certification chairman, was absent from the meeting but sent information about the next local certification exam opportunity in February. He reminded us that he can arrange to proctor a certification exam at almost any time, so don't feel like you are locked into a specific time. He also noted that certification exams will also be given at NAB2008.

There were no EAS or frequency coordination committee reports.

Regarding future programs, Dave Buell told us that the

January program will be a tour of the Marr Sound Archives at UMKC where more than 300,000 sound recording are archived. Everything from early wax recordings to modern recording media are restored and preserved. The February meeting will be the annual RF Specialties engineer appreciation barbecue lunch. The venue for the meeting will be announced.

Ed Treese prompted a discussion about STL interference issues. It seems that the database of STL frequencies in use in the metro area desperately needs to be revised and updated. The information needed is simple consisting of the frequency each station uses, antenna polarization, and send and receive coordinates. Additional information that would be helpful is the type of STL modulation used analog or digital. The discussion was lively.

The motion to adjourn was made by Darrell Nickolaus and seconded by Ben Weiss, passed.

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Certification Exam Dates		
<i>Exam Date</i>	<i>Location</i>	<i>App. Deadline</i>
Feb 8 - 18, 2008	Local Chapter	Closed
Apr 15, 2008	NAB2008	Feb 29, 2008
Jun 6 - 16, 2008	Local Chapter	Apr 18, 2008



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Doug Jones of Midwest Devices, the Independence-based manufacturer of the Capacitor Wizard, presented the program. He discussed the results of capacitor failure and how it affects equipment performance.

IP Addressing

By Steve Epstein

In the last installment I quickly mentioned a couple of IP addresses and their associated subnet mask. I also mentioned a network setup that allowed for only two machines. Most might think a two-machine network is rare in today's world, so let's look at that first.



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Two-machine networks are very useful in terms of security. Think in terms of two computers connected through a larger network such as a corporate or university LAN or WAN. Because there are only two machines allowed on the subnet, it becomes much harder to get into either of the machines from a third machine located anywhere on the network. Adding a second network interface card (NIC) into each of the two computers allows those computers to interface to a larger network within their local facility.

So, getting back to addressing. IPv4 addressing is based on a range of address that are arranged as four numbers ranging from 0-255 separated by periods or dots. In binary, an IPv4 address can be represented by 32 bits. IPv6 extends that to 128 bits.



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In the beginning, IP addressing was based on classes. Class A, B, C, D and E were defined. Class A was defined as having a 0 in the first bit. Addresses ranged from 0.0.0.0 to 127.255.255.255. Class B addresses move the zero one position right (10) and range from 128.0.0.0 to 191.255.255.255. Class C moves the zero one more bit right (110) with addresses ranging from 192.0.0.0 to 223.255.255.255. Addresses with all three of the first bits as ones are Class D and E and are reserved for multicast and other special applications.

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Within the address range, there are public and private addresses. Public addresses are used on the public internet and must be unique. Private addresses are used on private networks that are separated from the public internet. There are three blocks of private addresses 10.0.0.0 through 10.255.255.255, 172.16.0.0 through 172.31.255.255 and 192.168.0.0 through 192.168.255.255. Typically, private networks are separated from the public Internet by a router and/or firewall. Today, IP addressing is done in a classless manner and uses a subnet mask. With a 32-bit address, the address is separated into two portions, the network portion and the host (client) portion. A subnet mask is a string of 1s

followed by a string of 0s. The ones denote the network portion of the address while the 0s denote the host. The example used last time included a 30-bit subnet mask that allows four addresses on the network. A 29-bit subnet would have eight addresses on that network. The first address (all zeros) is the network address and is not used on any of the hosts. By the same token, the last address (all ones) is the broadcast address and is used to signal all hosts. Therefore, the number of hosts on a network is two less than the number of addresses available.

Here is an example:

192.168.1.0/30—Network
11000000.10101000.00000001.00000000

255.255.255.252—Mask
11111111.11111111.11111111.11111100

192.168.1.1—Host
1 11000000.10101000.00000001.00000001

192.168.1.2—Host
2 11000000.10101000.00000001.00000010

192.168.1.3—Broadcast
11000000.10101000.00000001.00000011

As you can see ‘OR’ing the broadcast address and the subnet mask produce all ones, which is what triggers the NIC to accept the message. Any network can be denoted with a single address followed by a slash and a number. /32 is sometimes used to denote a single machine. /31 is not allowed as the only addresses are the network and broadcast. Some creative addressing combined with appropriate routing/switching can be used to add some organization and security to your network.

Cornish to Succeed Lange at KAB

Kent Cornish, vice president and general manager of KSAS-TV and KMTW-TV in Wichita, has been named the president/executive director of the Kansas Association of Broadcasters. He replaces Harriet Lange, who retired at the end of 2007.

Cornish has been at KSAS/KMTW since 2001. Other broadcast experience includes 10 years at KTKA-TV Topeka and 12 years at WIBW-TV Topeka. He is a graduate of the University of Kansas.

A native of Linn, KS, Harriet Lange had been the president of the KAB since 1982. She attended Kansas State University and graduated from Washburn University in 1970 with a B.A. degree in economics. From there she

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went to work for the Kansas Department of Economic Development (now the Department of Commerce), where she worked in research, industrial development promotion, and finally as director of travel and tourism from 1977 to 1980. From 1980 to 1982 she was the director of sales for a Lawrence hotel. She was a charter member of the Kansas Travel Industry Association of Kansas and received the tourism industry's Individual Achievement Award in 1980.

In addition to her work with the KAB, Lange is treasurer of the Kansas Sunshine Coalition for Open Government, a member of the Kansas State Emergency Alert System Committee and the Attorney General's Amber Alert Task Force. She is a past president of the Kansas Society of Association Executives (KSAE) and the National Alliance of State Broadcast Associations. She is a 1985 graduate of Leadership Kansas and earned her CAE (certified association executive) designation that same year from the American Society of Association Executives.

In 1992, the radio/television faculty at the University of Kansas presented Lange the Grover Cobb Award for Broadcasting Service. She was named association executive of the year in 1998 by the KSAE. Also in 1998, she was appointed by then-Governor Bill Graves to serve on his Grant Advisory Committee for Substance Abuse Prevention. The KAB inducted her into the Kansas Broadcasting Hall of Fame in 2003 and recognized her with the Distinguished Service Award in 2006.

SBE59 Hosts DTV Measurement Seminar

On Dec. 6, SBE59 and Greg Best hosted a VSB measurement seminar that was taught by Gary Sgrignoli. A companion and extension of his VSB Fundamentals course, this course covered practical testing methods, equipment and practices for the VSB transmission system used in DTV. In addition to his other honors, Sgrignoli received the SBE Educator of the Year award in 2005.

The seminar was held at the offices of the Missouri Department of Natural Resources in Lee's Summit, MO. The facility is in the same business complex as the Kansas City FCC field office and KC Scout. There were 11 attendees at the seminar.

FCC Looks to Legislate Localism

The Federal Communications Commission has stepped into new territory with its Dec. 18 actions to try to ensure

Next EAS Required Monthly Test: January 29
The RMT is sent on the last Tuesday of the month



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that broadcast stations offer programming responsive to the needs and interests of the communities that they are licensed to serve. The FCC's Report on Broadcast Localism and Notice of Proposed Rulemaking sets forth proposals to increase local programming content and diversity in communities across America. In its review of these issues, the Commission accrued more than 83,000 written comments and heard the testimony of 500 panelists offered during the six field hearings on localism conducted throughout the country.

The Report makes tentative conclusions regarding the following proposals, for which it seeks comment:

- Qualified LPTV stations should be granted Class A status, which requires them to provide three hours per week of locally produced programming.
- Licensees should establish permanent advisory boards (including representatives of underserved community segments) in each station community of license with which to consult periodically on community needs and issues.
- The Commission will adopt renewal application processing guidelines that will ensure that all broadcasters provide some locally oriented programming.

The report also states that the Commission will better educate members of the public as to the obligations of broadcasters and the Commission's procedures so that viewers and listeners can become more actively involved in ensuring that stations offer locally oriented programming; and investigate other ways to assist prospective radio licensees to identify suitable available commercial FM spectrum in the communities in which they wish to broadcast, including authorizing the development of software to do so.

The report notes that, as temporary trustees of the public's airwaves, broadcasters are obligated to operate their stations to serve the public interest, including their airing of programming responsive to the needs and issues of their station communities of license. The actions and proposals contained in the Report are intended to ensure that the nations' broadcasters will meet this responsibility.

Your Ideas Can Shape Upcoming Programs

The chapter is always looking for ideas for monthly programs. Have you installed some new equipment? Have you built new studios? Do you have some expertise in a certain aspect of technology? Perhaps your facility can host a meeting. Help us plan an upcoming program. Contact Dave Buell with your ideas.



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<p>Upcoming Chapter Meetings and Events</p> <p>January 10 <i>Marr Sound Archives</i> Chuck Haddix <i>UMKC Volker Campus</i></p> <p>February 14 <i>RF Specialties Engineers' Barbecue</i> <i>Location TBA</i></p> <p>March 13</p> <p>April 10</p> <p>May 8</p> <p>Do you have a suggestion for a program topic? Please share it with Dave Buell.</p>

Coordinate Those Frequencies

One of the many services performed by the SBE is frequency coordination. Supplying and updating your station's frequency usage information to the chapter frequency coordinator helps prevent interference situations. Now is a good time to review the frequencies you use and supply the information to Chris Castro, the frequency coordinator for SBE59. You can also check to see if his records have any out-of-date information still listed.

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