

“KAR” Kansas Amateur Radio “KAR”

October 2009 issue



Hi gang, with our sun spots at a minimal and the sun appearing further south every day, our HF bands are stretching out. KØTQ checked into the CW net from Indiana and was much stronger than any Kansas station. I hear a net on the east coast on our frequency stronger than our stations. This usually doesn't happen until January and February.

SET is behind most of for this year. We will be hearing from our SM as to how Kansas did this year. I hope that most of you did not just test your 2 meter capabilities but did some HF work too. I don't know yet how many EC activated their ARES group and deployed their volunteers in a mock exercise but hope the EC reports this month for the KAR ARES reports will reflect their activity.

I hope everyone had the time to get their antennas ready for the ice and snow we will be experiencing soon. Hope we will have a few warm days yet.

◆ I found a URL for a good demonstration of what batteries can do.... **Subject:** Electric Drag Racing
<http://www.opb.org/programs/ofg/videos/view/56-Electric-Drag-Racing>

I hope you enjoyed that one, and with that I will let you get on with reading the newsletter.

◆ Watts going on in KC ham radio?
Orlan, I finally got caught up adding things to my website (kcHamRadio.com) that I should have. And now all the KAR Newsletters, Pony Express Updates etc. are added. If you go to this shortcut you will see I added your emails as they came to me. The attachments you sent are also attachments to each posting. So spread the word and I will post them as soon as I get them in the future. <http://kchamradio.com/forum/forumdisplay.php?f=14>

Jerry Dwyer - NF9L

◆ **Any storm spotters out there? CLICK>>>>**
<http://www.dailymail.co.uk/news/worldnews/article-1213339/Astonishing-twisters-captured-storm-chasing-photographer-Jim-Reed.html>

◆ Orlan, I thought you might like to see this. We had a couple of good sightings of the ISS here recently and one night we even got to see the shuttle near it after it had separated.

Fascinating flash presentation on International Space Station and its assembly order over the years. http://i.usatoday.net/tech/graphics/iss_timeline/flash.htm

The leaves are changing here.

73, Chuck KØBOG at ARRL Hq

^ **The KAR newsletter** and back issues can be down loaded from >>>

<http://ksarri.org>

Please visit <http://www.cenkare.org/> for other Kansas ham radio info.

^ Kansas Section News Click >>> <http://www.arrl.org/sections/?sect=KS>

^ Keep up with the world of ham radio, CLICK >>>> <http://www.arrl.org/>

^ **NF9L** Kansas City page <http://kcHamRadio.com>

73, Orlan wØoyh UR KAR ed and ARRL Ks Ast. Section Mgr.

w0oyh@arrl.net

ARRL KS SECTION MANAGER - Ron KBØDTI



The leaves are turning yellow and orange signaling the beginning of fall. The marathon/bikeathon season is approaching the end for this year. It's been a busy fall so far and October will continue the trend.

Our Simulated Emergency Test was held last weekend. Kansas City metro holds a multi county exercise first Saturday in November so they may participate with the drills conducted by their county governments. That allows the emergency management people to become more comfortable with the A.R.E.S. groups.

After KØBXF and I receive the reports from the A.R.E.S. groups we will put them together and show you how everyone did.

J.O.T.A. Scout Jamboree On The Air will be held the 17th-18th. Operators in Wichita/Hutchinson area will once again be set up at Kamp Kanza. Several hundred scouts are anticipated to go thru the 4 station positions that Saturday. If you can help either at Kamp Kanza or on the other end of a QSO please contact Harvey-ACØEG@arrl.net

Johnson County RAC will hold their annual club auction and weekend outing October 31 and November 1st at Marshall Ensor Museum and Farm South of Olathe. There is a full day of activities scheduled for Saturday including a bunny hunt at 6PM. I guess we'll be looking for goblins or maybe ghosts depending on how much the bunny want's to trick everyone.

Kansas Slow Speed CW net starts back up October 19 th. The net will be conducted on Mondays at 7:30 PM on 3.547 MHz. The purpose of the net is to train operators

in handling formal messages using CW and to continue the art. Also, we exchange station activities (rag chew). I keep it around 5-7 WPM but if the attendance is experienced we'll drift faster.

73, Ron

ARRL Kansas Section

Section Manager: Ron D. Cowan, KB0DTI

kb0dti@arrl.org

You will find Ron on the Ks Weather Net (as NCS some times) on 3920 kHz at 6:00 PM and on the Ks Sideband Net at 6:30 PM and on the QKS CW net at 7 & 10 PM on 3574 kHz.

**ARRL KS SECTION EMERGENCY COORDINATOR
Bob KØBXF**



October 1, 2009
KØBXF ARRL SEC KANSAS

August ARES activity as reported by 18 ARES zones, RACES and Army MARS. 163 net sessions held, 812 stations participating, 29 messages handled KS ARMY MARS reported 408 man hours of operation for the month and 388 messages originated. RACES had 11 counties Riley, McPherson, Linn, Wyandotte, Cloud, Marshall, Montgomery, Mitchell, Saline, Shawnee, Leavenworth.

Chapter 110 QCWA 4 sessions 50 QNI. If you are wanting to know more about QCWA Sat mornings at 7:30 on 3920 and meet the group.

A few changes in EC assignments have been made. Make sure you update your info accordingly. Who is the most active station in SW Kansas. Drop me a line if you can name anyone.

Still 8 or 9 counties in NW Kansas without an EC assigned, Interested???? contact KØBXF or NØLKK.

73 for this month

Bob Summers KØBXF ARRL SEC KS

Bob can be found on the Kansas Sideband net nightly at 6:30 on 3920 kHz.

Watch for a special report coming out in a few days from Bob.

KANSAS RACES OFFICER - Joseph WDØDMV



This has been a busy month. A number of Ham fest, balloon launches, bicycle and running events, and by now the S.E.T. I hope a number of you were able to participate. It is a sorry situation that the State radios were not able to be put on the air. No word from the State in months. Well, Fall is starting to show its beautiful face with the changing of the leaves (and falling, needing to be raked), and temperature are dropping. Now may be a good time to double check those antennas before the snow blows and make any repairs. As we look to the cooler weather, I hope to hear more check-ins on the HF nets. HF nets are the backbone to the relay of communications across this Country.

Without them there would be only local, short range communications. Take the time and check into an HF net.

I want to thank all those who support the RACES program and check in to the monthly net. The RACES net meets the first Thursday night at 1900 local time on 3940 MHz. All stations are welcome. Check in and represent your County in Kansas. Thanks

Stations heard Oct. 1st Net

Call	County
WØPBV	Riley
KBØDTI	Linn
KØBXF	Wyandotte
KD7QOR	Leavenworth
WAØCCW	Mitchell
WØSPC	Miami
KCØYMH	Miami
WDØLXV	Dickinson
AAØOM	Phillips
ABØIK	Lyon
NØTAP	Montgomery
WDØDMV	Shawnee NC

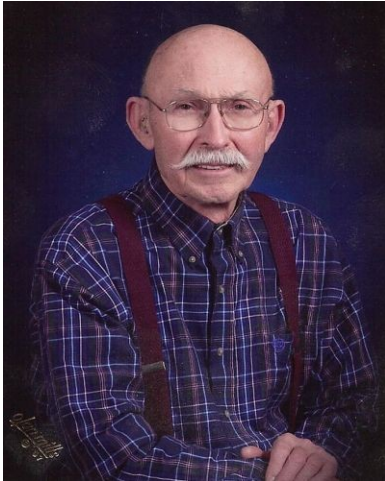
11 Counties 12 QNI Ø QTC

Net meets every month on the first Thursday at 7:00 pm 3940 KHz. All stations are welcome.

73, Joseph WDØDMV - State RACES Officer wd0dmv@arrl.net

Joseph can be found on the Kansas Sideband Net on 3920 kHz most evenings at 6:30 PM and as net control one night a week.

2009 KANSAS AMATEUR OF THE YEAR



David Hays WØFCL of Great Bend, Kansas is the 2009 Kansas Amateur of the Year. He was first licenses at age 16 in 1951. He has held call signs WNØFCL, KØKD, and WØFCL. Dave has been a long time CW op and you can here him check into the QKS Kansas CW net on 3547 kHz at 7 and 10 pm. You will hear him as the net control on the Kansas weather net at 6pm on 3920 kHz. He loves to build and experiment with radios and antennas. He is a "VE" Volunteer Examiner for Amateur radio licenses. He has taught many CW classes. Dave is a life member of the Quarter Century Wireless Association and member of the QCWA chapter 110 and President at this time. He is also a life member of the American Radio Relay League. Check into the nets and say congrats to Dave.

Many thanks to Larry NØLL for sending me the photo of Dave.

AROUND THE SECTION:

Orlan,

I need your help in getting the word out for JOTA this year. Scout Camp Kanza will be hosting Webelos Woods and one of the stops for the Webelos is JOTA. About 300 Webelos will have the chance to talk on a radio. My greatest need is to get folks on the radio to talk with the Boys.

This is our chance to introduce these boys to the wonderful hobby of Amateur Radio, but we can't do it by ourselves. We need the help from friendly Hams to talk with the boys.

Scouts will be on the radio from 9:00 AM, Oct 17th until 6:00 PM Oct 17th.

You can find us on the K-Link, Wichita local repeaters, Stateline Link and HF. The Scout JOTA frequencies for HF are: 14.290; 7.190; 3.690 and 3.940. We will have 3 VHF/UHF and 2 HF stations setup.

Be sure to check <http://jota.whitebuffalodistrict.info> for the frequencies we are using the day of the event.

If anyone has any questions, feel free to contact me at harvey.jones@yahoo.com

73's
Harvey Jones
ac0eg

◆ **This was sent KAR by Bill WBØNSQ..The Good Ol' Days.** Here's a photo of KC3OL with his new 80M AM transmitter.... Here's a link to a forum about his restoration of the Collins 300J

<http://www.kc3ol.dynip.com/forums/forumdisplay.php?f=16>



As you read through the restoration URL, if you notice the call WBØZNY, Tom was our Kansas CW net QKS mgr for 14 years.

◆ Ron, Orlan, Saturday we did another parade. #28 for me. My Aunt and Uncle were King and Queen. First parade I was in charge of was 1982. Helping with the registration as well as the actual parade itself were KBØQGT, KCØJHN, KAØZKB, AAØOM, AAØND, KDØARW, WXØP as well as me NØLL. We had 119 entries in this years parade. The theme was "The Wild Wild West" as it was Old Settlers Day in Smith Center.

Larry NØLL

◆ Hi Orlan,
Just a brief update from out west here. The Phillips County Amateur Radio club sent 3 members to Smith Center 26 September to help out with the Old Settlers Day parade. AAØOM, AAØND, and KDØARW assisted with traffic control for the 119 parade entries. Had a great time helping NØLL. AAØHJ was there assisting with one of the numerous events taking place after the parade.

I will be traveling to Colorado next Tuesday the 6th. Hope to have an eyeball QSO with K00J. If not that, then at least a QSO on 2 meters!!!

The Phillips County Amateur Radio Club will be conducting classes for the Technician class license beginning 13 October. Classes to be held at the Rodeo Grounds north of P'burg, 7 PM. Testing in the near future again. Will get you the dates when available.

For W0EAJ (electric apple juice), I still have that TTY tape cutter we need to dispose of. I think you had found a home for it in Texas. Never heard back. Keep up the good work Orlan.

73's
Bill AA0OM

QKS - THE ARRL KS CW TFC NET OF THE NTS

Net operated daily at 7 and 10 pm on 3547 kHz. 7 pm is the out going tfc into the NTS system and incoming at 10 pm. You are welcome to check in with or without tfc. Our manager is James, NBØZ I am Net control on Monday, Fridays and Saturdays at 10 PM. Been doing that for 30+ years... Orlan

KANSAS STATE ARRL CONVENTION: AUGUST 15, 2010

MAP >>> http://www.centalksarc.com/prnt.php_files/mapimage.png

More Info & Central Kansas ARC >>> <http://www.centalksarc.com>

HA - HA - HA - HA - HA

REVERENDFUN.COM COPYRIGHT GCI, INC.



Thanks to Shirley Ostrander 01-15-2007
HOW COME THE WAITRESS GETS 15% AND GOD ONLY GETS 10%?

A police recruit was asked during the exam, 'What would you do if you had to arrest your own mother?' He answered, 'Call for backup.'

A Sunday School teacher asked her class why Joseph and Mary took Jesus with them to Jerusalem. A small child replied, 'They couldn't get a baby-sitter.'

**SHE KISSED THE HAIRBRUSH
BY MISTAKE
SHE THOUGHT IT WAS
HER HUSBAND JAKE**
Burma Shave

**DON'T LOSE YOUR HEAD
TO GAIN A MINUTE
YOU NEED YOUR HEAD
YOUR BRAINS ARE IN IT**
Burma Shave

◆ I was thinking about how a status symbol of today is those cell phones that everyone has clipped onto their belt or purse. I can't afford one. So, I'm wearing my garage door opener. I also made a cover for my hearing aid and now I have what they call blue teeth, I think.

You know, I spent a fortune on deodorant before I realized that people didn't like me anyway.

◆ Went to the doctor for my yearly physical.

She starts with certain basics.

How much do you weigh?' she asks. '135,' I said. The doctor put me on the scale. It turns out my weight is 180.

The doctor asks, 'Your height?' '5 foot 4,' I said. She checked and saw that I only measure 5'2'.

She then took my blood pressure and told me it is very high. 'Of course it's high!' I scream'. When I came in here I was tall and slender! Now I'm short and fat!'

She put me on Prozac. What a biddy !!!!!!!!!!!!!!!!!!!!!

◆ IDIOT SIGHTING:

We had to have the garage door repaired. The Sears repairman told us that one of our problems was that we did not have a 'large' enough motor on the opener. I thought for a minute, and said that we had the largest one Sears made at that time, a 1/2 horsepower. He shook his head and said, 'Lady, you need a 1/4 horsepower.' I responded that 1/2 was larger than 1/4. He said, 'NO, it's not.' Four is larger than two...'

◆ Just Waiting

A LITTLE THREE YEAR OLD BOY IS SITTING ON THE TOILET. HIS MOTHER THINKS HE HAS BEEN IN THERE TOO LONG, SO SHE GOES IN TO SEE WHAT'S UP. THE LITTLE BOY IS SITTING ON THE TOILET READING A BOOK. BUT ABOUT EVERY 10 SECONDS OR SO HE PUTS THE BOOK DOWN, GRIPS ONTO TO THE TOILET SEAT WITH HIS LEFT HAND AND HITS HIMSELF ON TOP OF THE HEAD WITH HIS RIGHT HAND.

HIS MOTHER SAYS: "BILLY, ARE YOU ALL RIGHT? YOU'VE BEEN IN HERE FOR A WHILE.

BILLY SAYS: "I'M FINE, MOMMY.. I JUST HAVEN'T GONE 'DOODY' YET."

MOTHER SAYS: "OK, YOU CAN STAY HERE A FEW MORE MINUTES. BUT, BILLY, WHY ARE YOU HITTING YOURSELF ON THE HEAD?"



BILLY SAYS: "WORKS FOR KETCHUP."

◆ Homeland Security Bill Passed

Just wanted to let you know that the New Homeland Security Bill has passed. Things will be different now and Internet surfing as you know it will be tracked by what the FBI calls a "non intrusive method." The FBI says you will hardly notice anything different.

For a demonstration, click on the link below:

[Homeland Security](#)

http://users.chartertn.net/tonytemplin/FBI_eyes/

SILENT KEYS:

At 7:05 p.m. this evening John Marshall, W0JM passed away. John was 96 and a real dxer and CW expert. He was licensed in 1930 and spent

many years as a bus and street car driver for the old Kansas City Public Service Company. We will have more information later on arrangements.

73,

Larry Staples - W0AIB
John G. Marshall - W0JM

<<http://www.legacy.com/obituaries/kansascity/obituary.aspx?n=john-g-marshall&pid=133277564> >

John G. Marshall, 96, of Kansas City, Kan., passed away September 20, 2009, at Galway Homes. He was an Amateur Radio (Ham) Radio Operator and a long time member of the Kansas City DX Club, Quarter Century Wireless Association, the American Radio Relay League and a founder member of the Heart of American Radio Club. As W0JM, he had contacted virtually every country in the world (well over 300) using Morse code (the original form of digital communications) and voice. Much of his career was as a bus driver for the Kansas City Public Service Company. He told many stories of his experiences; including the story of the time he drag raced (and won) a young driver while he was driving one of the propane powered buses. During World War II, John taught Morse code to hundreds of young servicemen. Johnny will be missed by his thousands of friends all over the world. The last thing he would say to all was "Goodbye Please." Fond memories and condolences at <<http://www.dwnewcomers.com> >

Arr.: D.W. Newcomer's Sons Overland Park Chapel, 8201 Metcalf, (913) 648-6224.

Published in Kansas City Star on September 22, 2009

AT YOUR REQUEST

I receive a lot of newsletters and would like to make them available to you on request, the following is a list.....

- ♦ *FEEDBACK* JOHNSON COUNTY RADIO AMATEURS CLUB, Inc.
- ♦ QNU H.A.R.C. [Hiawatha Amateur Radio Club](#)
- ♦ The VHF Transmitter - Keystone VHF Club, Inc. W3HZU Founded 1955 - York, PA
- ♦ The Monitor *Amateur Radio Clubs in Virginia's Central Shenandoah Valley*
- ♦ QRZ - Pilot Knob Amateur Radio Club • KS0LV • Leavenworth, Kansas
- ♦ SANDHILLS AMATEUR RADIO CLUB NEWSLETTER
- ♦ Hams and Covenants, Conditions, and Restrictions Jim N0XDA
- ♦ TROJAN ARC HARMONIC - Editor Bruce Frahm KØBJ Publisher Mike Albers KØFJ

To download and view the issue of WorldRadio Online, go to the CQ home page at <www.cq-amateur-radio.com> and click on the "WorldRadio Online" box. There are

several options for viewing/downloading the issue. See the instructions on the welcome page. You will need Adobe Acrobat Reader in order to read WorldRadio Online. If you do not have it, scroll to the bottom of the welcome page and you will find a link for a free download.

The Grounded Grid >>> <http://warc1.org/grid/2009-09.pdf>

Make your request to w0oyh@arrl.net

LETTERS TO THE EDITOR:

Tnx Orlan, by the way the ad at the bottom was the way I started in the Railroad Telegraphy in Marshalltown, IA. The old boy who taught the class was an old WU operator and really had a good fist. Thanks for the MARS remarks. 73s.

John KAØJMO *The first RR telegrapher I met at age 7, name was Mr. Ham in Makaska, Ks.*

◆Orlan, I finally got caught up adding things to my website (kcHamRadio.com) that I should have. And now all the KAR Newsletters, Pony Express Updates etc. are added. If you go to this shortcut you will see I added your emails as they came to me. The attachments you sent are also attachments to each posting. So spread the word and I will post them as soon as I get them in the future.

<http://kchamradio.com/forum/forumdisplay.php?f=14>

Jerry Dwyer - NF9L *TU Jerry for the fine site for us hams.*

◆Tnx fer the pics Orlan. It was a good convention.

Just got back from a week of backpacking and fishing in the Wyoming Bighorn Mtns. What a great week we had.

Jim *I am glad U es URS had a GT time Jim. TU 4 the vy nice Pony Express event!*

◆Larry, I just received my new Icom IC-706MKIIG and joined the Yahoo group that is for that radio. I received an interesting message from one of it's members today about numerical messages. I know I am guilty of using 73's which technically is incorrect since 73 is already plural. 73s would mean best regardses.

Interesting site. <<http://www.signalharbor.com/73.html>>

73, Bob Singer, KDØEEZ *<sniped> from "LL"*

◆This is a tidbit from my god friend in Omaha, Frank Vondra, WB0QQK that the local Hams might fond interesting!

Randy Schulze, KD0HKD

+++++

Its all here, 2 way, Ham, broadcast, military, consumer, 2 way servicing equipment, kits, everything. After the short spark video, hit the arrow on the right to see all the photos. A great walk down memory lane.

<<http://tinyurl.com/kmtxlf>> <<< **CLICK & turn up the sound.**

Frank R. Vondra, W0QQK

+++++

MANY THANKS TO RANDY, KD0HKD, FOR PASSING THIS ALONG. NOW 635 HAMS CAN ENJOY!

◆ Just a fyi, I received a call from KIUL and was questioned about our packet node at that sight. I adv them that SHARC has had equipment at that sight for better than 20 years They adv we would have to pay 1 dollar/foot per month for rent. I adv them we did not have that type of money and that I would be removing the equipment next week. So next week I will remove it and find another location for the packet node.

Dale NØKQX [SRI abt that Dale.](#)

**Tom's Key-Stroke - WØEAJ Denver, Co.
Displaced Kansan**



**SHORT HISTORY OF SINGLE
SIDEBAND IN AMATEUR RADIO**
by James W. Nash, K4HMS/V31AW

On the night of September 21, 1947, bizarre sounding voices appeared on the 75 meter phone band. These strange signals were audible in California and adjacent states. In fact, they came, not from outer space as some might have thought, but from W6YX , the club station of Stanford University, operated by O. G. Villard, Jr., W6QYT. (Villard, 1948.)

No doubt there were listeners out there who could not believe their ears. But what they were hearing was actually single sideband modulation. This event represented the beginning of the postwar SSB revolution in amateur radio. It was the most important technical development to hit the hobby since spark gave way to CW. As we have seen, its implications have gone far beyond the technical.

We all owe Villard and his co-experimenters a debt of thanks for bringing us SSB when they did. However, it's worth knowing that single sideband had already been around for over thirty years. And, not only that, hams had been on the air with the squawky stuff as early as 1933.

Discovering SSB

During 1954, I bought my first shortwave radio, a used Hallicrafters S-53 (cost \$40), and launched my short career as a pure SWL—I would receive an amateur license the next year. One night, tuning around between Radio Moscow and the BBC, or whatever, I was astonished to hear ducks talking. Yes, a twelve year-old SWL in Georgia had discovered that ducks were indeed on the radio. For there was, sure enough, Donald talking to his goofy nephews. It never occurred to me that, in theory, I could tune this stuff into English by flipping the toggle switch which said "BFO" and making some very careful adjustments.

I had, of course, discovered single sideband transmission. In the next few years, I received a Novice and then a General license. At the ramp-up to the peak of Cycle 19, I tried "phone," meaning AM, and liked it a lot. For me, the big fun was on 15 meter phone, especially since I had a 3-element Yagi for the band. After all, the Globe Scout put out only 50 watts on AM. SSB was still in the experimental stages as far as I knew. So while I worked AM, as well as CW, I would hear the duck-talkers up there in their own part of the band. Quacking away.

Then my career on phone hit a major snag. Because then came those phone calls to my parents from the neighbors. The problem was that many of the TV's still used 21 mc. IF's. Well, despite the helpful efforts of the Kennehooche ARC TVI Committee, I went back to CW. Except for my long absence from the air in the later 70's and much of the 80's, I've been there for the most part since. As for sideband, I forgot it was even there for a long time. In 1988, however, inspired by news stories of the newly approaching peak of Cycle 22, I acquired a TS-680S. With the help of my two youngest children I erected a G5RV antenna. After a long absence I got back on the air. I soon discovered this newfangled transceiver had SSB on it—soon I tried it out and was overwhelmed with its superiority to AM. How could I have missed this for so long? And how long had it really been around? I remembered hearing sideband 30 years before, but I had thought it was something brand new. I was wrong.

Bell Labs and Others

Well, it's like this. The story starts in 1915, when mankind discovered sidebands. Now possessing this superior understanding of the AM signal, radio scientists began to understand the implications of their discovery. Soon afterwards, our old friends at Bell Labs, who have discovered practically everything, developed a method for removing one of the sidebands of an AM signal but retaining all the essential modulation components. As an expert of that day supposedly said, "both sidebands are saying the same thing" (Goodman, 1948). Or, as the Messenger said in one of his mysterious transmissions many years ago, "some day you will gain many dB, for both sidebands say same thing."

Bell soon discovered that it was possible to increase the capacity of overseas telephone circuits using SSB modulation, and such circuits were in telephonic use by 1918. The first single sideband radio transmissions occurred by 1923. From the beginning equipment stability problems slowed development of SSB. In 1927, a trans-Atlantic SSB commercial radio circuit was in place, but at low frequencies. In fact, it was in the mid-1930's before commercial shortwave SSB was practical—the frequency stability problems were solved by using new generation AFC equipped receivers and a pilot carrier from the transmitter.

Hams at Work

By the time the 1930's came along, licensed amateurs were hard at work on the problem. Apparently the all-time ham radio SSB pioneer was Robert M. Moore, W6DEI. He published three articles on the subject in *R9* magazine in 1933 and 1934. At that point, this experimental mode was referred to as "single sideband suppressed carrier" transmission, or SSSC. The articles reveal that what Moore was talking about was real single sideband. In his articles he acknowledges the prior work of Bell Telephone Laboratories in developing the techniques he was using. (Moore, 1933, 1934.)

Another pioneer in this endeavor was J. Evans Williams, W2BFD, who in 1948 wrote a letter to QST pointing out that Moore was indeed the original 1930's ham radio SSB pioneer. Williams himself build a 500 watt SSSC transmitter based on Moore's designs, and reported in his letter that a half-dozen or so sideband stations had been on 20 meters during the 1930's.

As Williams also pointed out, the idea simply did not yet catch fire. One reason was that the bands were not yet so crowded. Another was that many hams had only recently become involved in AM in the first place—those were the days when one started in CW—and had recently built or purchased new AM equipment. Finally, FM was coming on the scene and many of its advocates claimed that it alone was the mode of the future. So SSSC had to wait a while.

SSB Takes Over

What finally made SSB feasible for amateurs was a workable solution to the problem of transmitter stability. This came after World War II, with the work of Villard and others. The techniques which were ultimately most workable involved a balanced modulator which generated the sidebands, but no carrier, followed by a sideband filter which eliminated one of them.

The phone bands were really jammed in the 1950's, much worse so than today. This was largely because of the width of AM signals. The ham community soon grasped the fact that SSB was more than a way to get 8 dB. It was a long term solution to the problem of bands jammed every night with heterodynes howling like banshees. I'm not sure how many of us today realize how vital SSB has been to the history of the avocation. After sideband became well-established the process of working DX on phone with moderate power and antennas became vastly easier. By the early 1970's, there was more DX on sideband than on CW, and the gap has probably continued to grow ever since.

Of course, in the 1950's we non-SSB heathens still referred to it as "duck talk." Yet it was soon established that any receiver with adequate frequency stability and a variable BFO could receive this squawky stuff so that it sounded more or less human. Also, a clever ham without an expensive receiver could get some help from a frequency meter or VFO (most of us had separate ones in those days), for use in carrier reinsertion.

It was the early sixties before commercial rigs with sideband were widely available. I'm not sure which manufacturer put out the first commercial ham SSB rig. (If you know, let me know.) But by the late 1960's SSB had come to dominate the phone bands. Today the terms "phone" and "sideband" are synonymous.

As for me, a ham who had worked AM in the 1950's, my first QSO on SSB came in 1988. I was amazed at the ease with which one could work phone DX with 100 watts and modest antennas. The clarity and capability of reading signals in QRM was remarkably improved over the AM of my

boyhood. And although today my preference still remains strongly for CW, that is a personal preference.

The Collins KWM-1 - the FIRST SSB transceiver of note.

Without single sideband, I'm not sure amateur radio would be nearly as strong an institution as it is today. Who knows what will come next?

NOTES

- Goodman, Byron, W1DX. "What is Single-Sideband Telephony?" *QST*, January 1948, pp. 13-15, 126 ff. If you don't know, Goodman was the first editor of "How's DX" back in the 1930's.
- Moore, Robert, W6DEI. "Single Sideband Transmission," *R9*, September, December, and January, 1933-1934 (three installments).
- Villard, O.G., W6QYT. "Single-Sideband Operating Tests," *QST*, January 1948, pp. 16-18, 128, 130.
- Williams, J. Evans, W2BFD. "SSSC," letter to the editor, *QST*, February 1948, p. 64.

About the writer:

*Jim Nash, K4HMS, nashcom1@flash.net, first licensed in 1955, has published articles in *QST* and the *DX Magazine*. He is a practicing attorney in Houston.



◆ **Subject:** Access to Manuals

The message is ready to be sent with the following file or link attachments:

Shortcut to: <http://home.comcast.net/~aa4df02/>

◆ The message is ready to be sent with the following file or link attachments:

Shortcut to: http://cgi.ebay.com/Ham-Amateur-Radio-Enthusiast-Miniature-Image-Earrings_W00QitemZ3502539522530QcmdZViewItemQOptZLH_DefaultDomain_0?hash=item518cc32cfd&trksid=p3286.c0.m14

The perfect gift for the Lady Ham or the XYL of a fella who owns a PRO-II or PRO-III.

◆ Because I'm the Fire Alarm biz, I thought I'd share some common-sense stuff, that most people ALREADY know, but some "didn't get the word". Thought you might wanna' stick this in the TKS's section.

stuff folks can do at home that MAKES SENSE.

CHANGE THE BATTERY in your smoke detectors **WHEN YOU CHANGE THE CLOCKS!** - Batteries are cheap, lives aren't

Test your smoke detectors ONCE PER MONTH! (if they're connected to your home-security system, and it's monitored - CALL THE MONITORING COMPANY FIRST, and HAVE THEM TAKE THE SYSTEM "OFF LINE" for the period of the test (otherwise, they'll roll the trucks)

BUY A COUPLE OF GOOD FIRE EXTINGUISHERS OF AT LEAST 5 LB SIZE, and put ONE in the kitchen, the other in the Garage!

PRACTICE FINDING YOUR WAY TO YOUR DOORS with your eyes closed (blindfolds are better)... sounds silly, but in heavy smoke YOU WILL NOT BE ABLE TO SEE A THING! [*I count the number of steps to the closest exit, whenever I stay at a motel or hotel*] - *I also will NOT take a room above the 5th. floor - ladder trucks can't reach above that!*

IF YOU HAVE CHILDREN - **OBTAIN THE STICKERS THAT SHOW WHERE THE KID'S BEDROOMS ARE - STICK 'EM ON THE WINDOWS.**

WHEN YOU CALL 9-1-1... ASK FOR THE AGENCY YOU WANT - right up front! It's amazing how much time is lost with the 9-1-1 operators when THEY try to figure out who to connect you to - KNOW WHO YOU NEED!

Tom

◆ Memories of the beginnings. : <http://www.contesting.com/articles/264>

◆ While trying to find some Knight Kit grey today, I mistakenly bought some paint that looked different in the store lights than what it really was. But... it's a Dead Ringer for the later version Heathkit Brown. It's a semi-gloss, so looks correct, and is sold as: **RUSTOLEUM #7754 "Anodized Bronze"**

Thought the readers might like to know.

Tom - WØEAJ

◆ Kelly, CONGRATULATIONS - outstanding on getting your ticket. You might be interested to know you've been preceded by MANY sightless hams; one in particular was my dear friend Beryl Masters - WBØEJJ "Empty Jelly Jar" - (SK). I never thought of Beryl as "blind", 'cause he just "saw" stuff differently than the rest of us. You've now joined the ranks of a group of people who've been at improving themselves for OVER a hundred years.

Now, find somebody to help you learn the GENERAL requirements, and remember... in the words of Winston Churchill, during the darkest days of WW-II, in England...

"NEVER, NEVER, NEVER, NEVER.....NEVER..... NEVER Give UP!

Best Regards - Tom - WØEAJ

◆ The message is ready to be sent with the following file or link attachments:

Shortcut to: <http://kitchen.manualsonline.com>

While this site is NOT for ham radio - it is handy for getting manuals for common appliances for the home - I mean, if the coffee pot goes awry, this IS a problem for the ham shack, right?

TC

◆ Manual Sites:

1. http://www.one-electron.com/tech_library.html
2. <http://www.nostalgiaair.org/Resources/>
3. <http://techpreservation.dyndns.org/schematics/>

"Nostalgia Air" (No 2) is very good for old radios, with the No. 3 site as a good one, as well.

Typically, Nostalgia Air will have the info on the PHILCO - Typically providing Schematic, Pictorial Layout, Alignment instructions, and Parts List.

Click on the little icon for "PDF Document", and download it... then print out all but the first page, as that's just a sort of index that you've already seen.

Sometimes I'll tell the printer that I'm feeding 8.5 x 14 paper, and the schematics will come out longer, but not necessarily always.

Tom

◆ Recently, I had reason to produce an "interface box", so that I could use microphones, wired for KENWOOD gear, on ICOM equipment. Some of the pin-outs are the same, but of course, manufacturers make their stuff a bit proprietary, so you'll buy THEIR microphones. (I have no info on Drake, Collins, or Yaesu at this time, but they all work the same for the most part, so use your noggin)

As such, after determining what-pin-did-what, I figured the rest of you might like the info for future reference.

NOTE: Newer ICOM, YAESU, and KENWOOD radios have a +8v pin that runs their condenser microphones - DO NOT SHORT THIS PIN. This document is ONLY for those wishing to wire up stuff like Astatic D-104's & 10-D's, Electrovoice 664's et. al., Shure, older Turner, and other conventional microphones or what have you.

Just like all those websites warn - I BEAR NO RESPONSIBILITY FOR ANYTHING YOU DO, IN THE COURSE OF ANY MODIFICATION OR REWIRE. i.e. You blow it up - it's yours, baby.

It also has the pin connections to more popular vintage mikes like the D-104, Shure 55S, and EV 664. Here is the link to the page, which is part of a pretty good stash of Collins info -- <http://www.kk5im.com/pdfiles/mikeplugs.pdf>

Happy talking.

