



MARC NEWS

February
2023

Maury Amateur Radio Club Box 1871 Columbia, TN 38402 e-mail w4ggm@qsl.net

from the president...

This month's club meeting will be held Tuesday, Feb. 14th at the Maury County Office of Emergency Management building at 1451 Tom J. Hitch Parkway. We will meet at 6PM and the club will provide pizza and soft drinks. I would encourage everyone to join us if you can.

You may have noticed some changes to the club website this past month. I moved to a different hosting provider, and started using Word Press as the content management system for the site. I was originally going to go a different route, but decided that Word Press would be easier to maintain in the long run. I am still in the process of migrating data over from the other site, so you may see some glitches for the next couple of weeks until everything is back in place.

We are still using Ham Club Online for the membership roster and club management side of things. I'm exploring options for moving those functions over to Word Press as well, but for now we will continue to use it. And of course we still have the groups.io page.

The Repeater Committee met last month, and Justin K4LEN was appointed chairman of the committee. We will soon be sending out a survey to the members to determine what repeater enhancements the club would like to see implemented. Be on the lookout this month for more information and a link to take the survey online. Please take time to respond to the survey so that your voice is heard.

Our club breakfast this month will be held Saturday, Feb. 25th at 8AM at Katie Pie and Sons Country Kitchen. The new location for Katie's restaurant is 2407 Pulaski Highway. We hope to see you there!

73,
Joe N4JW



January Meeting Minutes..

January's Meeting 2023-01-10

La Fuente

17:30 Masticate & Mingle

19:00 Meeting starts

Meeting called to order at 19:00 by Joe Pres, N4JW.

In Attendance: 15 in person & 5 Zoom.

Accept last months minutes as published in newsletter:

Motion to accept: Rick K4PKA

2nd: Bob K4HRK

passes

Financial Report By Paula KK4WVO

Ending Balance 27 Oct 2022:	\$3,203.75
Additions (27 Oct – 27 Nov)	\$0.00
Subtractions (27 Oct – 27 Nov)	\$78.00 (Monthly Storage - \$7 Increase)
Ending Balance 27 November 2022:	\$3,125.75

Additions (27 Nov – 27 Dec)	\$ 334.51 (Auction Proceeds)
Subtractions (27 Nov – 27 Dec)	\$78.00 (Monthly Storage - \$7 Increase)
Ending Balance 27 December 2022:	\$3,382.26

Additions (27 Dec – 27 Jan 2023)	\$ 0.00
Subtractions (27 Dec – 27 Jan 2023)	\$79.00 (Monthly Storage - \$8 Increase)
Ending Balance 27 January 2023:	\$3,303.26

New Motions: None

Announcements/News:

> Four Days In May <http://www.qrparci.org/fdim/>

Motion to adjourn: Rick K4PKA

2nd: Jonathan KQ4ATG

Meeting adjourned at 19:07.

Presentation by Bill W4WRR J.H. Bunnell Telegraph relays and keys.

73, KK4FHS



Shack
of the
Month



FEBRUARY 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2 8PM MARC Weekly Club Net	3	4
5 ARES Net 8:30 PM	6 MTEARS Net 8PM	7 Newbie Net 8 PM	8	9 8PM MARC Weekly Club Net	10	11
12 ARES Net 8:30 PM	13 MTEARS Net 8PM	14 Club Meeting	15	16 8PM MARC Weekly Club Net	17	18
19 ARES Net 8:30 PM	20 MTEARS Net 8PM	21 Newbie Net 8 PM	22	23 8PM MARC Weekly Club Net	24	25 Club Breakfast 8AM
26 ARES Net 8:30 PM	27 MTEARS Net 8PM	28 Newbie Net 8 PM	I need a shack picture for the March Calendar. Don't be shy and wait for someone else to send in theirs.			

VE Report January 2023

The MARC VE team conducted a test session January 21st with 4 people taking their ham test. The VEs present were K4JSS, KG4FNG, K4BX, W4EWJ, and WB0CJB.

The test results were:

New Technicians:

Keith Herrington	KQ4FXD Culleoka
Craig Wills	KQ4FWZ Spring Hill
William "Butch" Geng	KQ4FWR Columbia



Congratulations to you all!

The next MARC test session is scheduled for April 29th. The location will be announced at a later date, as well as what you need to bring to take your test.

VE testing will also be held at the Tullahoma hamfest on March 11. For more information go to mtars-ham.org and click on the hamfest flyer.

73 Paul WB0CJB



THE JANUARY 21ST VE CREW

PAUL
WB0CJB

JEFF
K4JSS

ED
W4EWJ

TERRY
KG4FNG

BILL
K4BX

WANTED: Location to hold License Testing

Wanted:

The MARC VE team is needing a location to hold their license testing. The location needs to be in Columbia, be able to accommodate 12-20 people, and be available on the 3rd Saturday morning of the months of January, April, July, and October. Test time would be 9:00 AM.

Right now our present location prefers that only church-related activities be held and must be on the church calendar in advance.

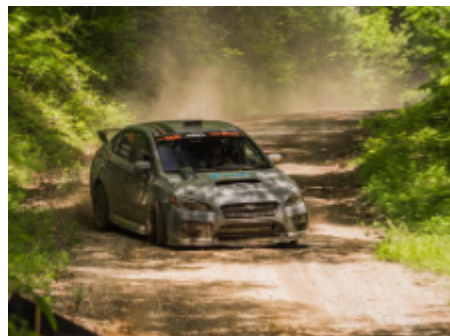
If you know of a location (church, library, lodge, etc.) please contact Paul WB0CJB at 765-635-8915 or email wb0cjb@hotmail.com. The proposed location will be looked at and, if acceptable, meet with the people in charge of the location to set up use of the facility.

Bristol Forest Rally

My brother Chip Smith (W4CKS) in east Tennessee sent me this link to the Bristol Forest Rally.

<https://bristolforestrally.com/>

This is a rally car race thru the east Tennessee woods so there's a reasonable chance it could be on the dangerous side but it looks like lots of fun! I'm thinking it will be like the Chickasaw bike races but with a LOT more adrenaline!



They are looking for Volunteer radio operators. Chip is planning to go and if I have my van ready I am hoping to go as well. They will be using a local repeater for communications and we plan to use our mobile radios with a LiFePo4 battery and ladder line J-Pole pulled up into a tree for better coverage than a handy talkie.

Should be a great way to spend the weekend.

73, de K4JSS



3 lengths of RG-213U coax. One 75 foot length, and 2 50 foot lengths. For more information contact Mike KO4OZY at 615-866-7253.

Arnie Coro CO2KK SK

from Everett WA2BHS

I was saddened to see on the IARU web page that Arnie Coro CO2KK passed away on 8 January 2023. Arnie was one of the most active Hams in Cuba and was active in Hurricane nets, contesting, QRP operation, and hosted a great radio show on Radio Habana Cuba called "Dxers Unlimited".



Arnie Coro was installed as a member of the QRPARCI Hall of Fame in 2003 and contributed much to the QRP community.

He was active in the Hurricane Nets. This is where I got to know Arnie Coro the best. I was a member of the Jackson Amateur Radio Club in Jackson, Ms. and was one of the operators to work the HF station at the National Weather Service Office during Hurricane Georges in 1989. At one point the only propagation to the U.S. Was through our station and for about an hour I handled traffic from him. I remember him to be a very professional in his duties and quite a nice chap. I have had occasions to work him QRP CW and QRO on SSB. He will be missed by the many hams who new him.





MTARS TULLAHOMA HAMFEST

KA4DLW Buddy Richison Memorial Event

SATURDAY MARCH 11th, 2023
First United Methodist Church
208 West Lauderdale St
Tullahoma, TN. 37388

Event features Ham Radios, Antennas, Components,
Electronics, Computers and much more.

"Something for everyone..."

Admission:

Admission is \$10 per person, includes Tailgating!
Boneyard/Tailgating on site w/paid admission!
Children 15 and younger free.

Time:

Doors open on Saturday at 8 AM to 2 PM.
Vendors may set up on Friday between 5 PM & 8 PM or Saturday between 6:30 AM until 8 AM.

Tables:

Tables are 8 ft. \$20.00 ea., 6 ft. \$15.00 ea.
For tables in advance - please pay by check
For tables contact:
Larry Cagle K4WLO - 100 Urban Farms Lane
Manchester, TN 37355 - k4wlo@arrrl.net

Concessions:

KITCHEN WILL BE OPEN WITH USUAL MENU
BBQ - Coleslaw - Baked Beans - Potato Salad
and various desserts, snacks, drinks.
Sausage, biscuits and Coffee – Saturday AM

ARRL VE Ham Radio Exam Testing - Exam \$15.00

Exams start at 9:00 AM - Applicants must provide
an FCC FRN number at exam time - FCC will make
a \$35.00 license fee charge when license is issued.

Forums:

ARRL TN SEC / EC / ARES – ~10:30 AM
Forum scheduling contact is Michael Boyea,
KE4KMG ke4kmg@edge.net

Prizes To be announced - Must be present to win!

Main Drawing is Saturday at 1 pm

Talk-in:

Primary

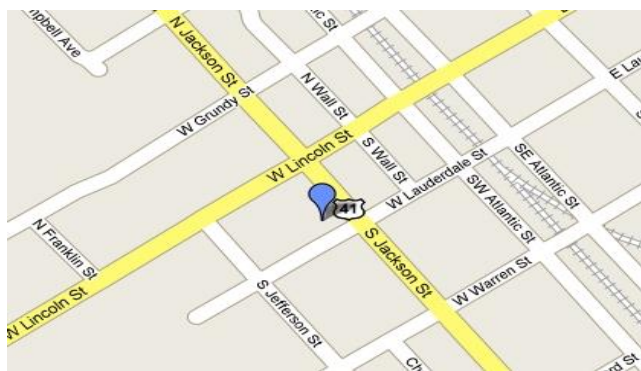
- 146.700 -600 offset, PL Tone 114.8

Secondary / Ragchew

- 146.820 -600 offset, PL Tone 114.8
- 443.950 +5Mhz offset, PL Tone 107.2
- 144.390 APRS 35.21.61N 86.12.69W

Directions:

I-24 to Exit 111 (Hwy 55 South), approximately 11 miles to
Jackson St, then turn right on Hwy 41A North, Jackson St.
Go 0.4 miles - Church on left next to Tullahoma Post Office.



Hamfest Lat/Lon: 35.21.61N 86.12.69W

Local Motels:

- **Executive Inn** - 931-455-6878
1405 N. Jackson St.
 - **Hampton Inn** - 931-461-5222
1922 N. Jackson St.
 - **Holiday Inn** - 931-222-1414
2030 N. Jackson St.
- RV Park:**
- **Old Stone State Park** - 931-723-5073
 - **Barton Springs Campground** - 931-857-9222

Hamfest Chairman

Larry Cagle, K4WLO
100 Urban Farms Ln
Manchester, TN 37355
Ph: 251-680-3520 k4wlo@arrrl.net

MTARS 2023 is an ARRL sanctioned Hamfest

<http://www.qsl.net/mtars>

<http://www.mtars-ham.org>



KA4HBQ (SK) estate sale items

Kenwood TS-480 transceiver	\$600
Jetstream JTPS31MB power supply	\$ 90
MFJ 259C antenna analyzer	\$240
MFJ 464 Morse code reader	\$225
MFJ 461 pocket CW reader	\$90
MFJ 874 SWR/wattmeter	\$110
MFJ 557 Code oscillator/straight key	\$55
MFJ 260 dummy load	\$30
MFJ 270 lightning surge protector	\$20
MFJ 281 external speaker	\$15
MFJ 5806X coax jumper	\$12
MFJ 5166 keyer cable	\$15

Morse code keys:

Vibroplex chrome straight key	\$180
Kent straight key (wood base)	\$110
Kent single paddle keyer	\$110
MFJ 564B iambic paddle	\$100

Miscellaneous:

Tigertronics Signalink	\$90
WGA TR2000 headphones	\$10
Audio cables, adapters, coax	makeoffer

Antenna:

DX80-40 off center fed antenna	\$50
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All transactions are cash only. All equipment is in very good or excellent condition. If you are interested in an item please contact Paul WB0CJB at 765-635-8915 or Ed W4EWJ at 797-2556 and a date and time will be set for pickup.

A special thank you goes out to all of those who helped to take down Frank's antenna. Also thanks to Ed W4EWJ for assisting in inventory of the equipment and storage. Hazel (Frank's XYL) really appreciates everything that the club has done for Frank and our assistance in disposition of his equipment.

73 Paul WB0CJB



K4JSS VAN BUILD



Jeff is trying to get his van livable by July when he plans to head west and go off grid. He's planning to roam around the NW during the summer month and then head to the SW for warmer weather during the winter. Right now he is finishing up the cabinets. Already completed is the solar power system with the roof covered with panels and inside a battery bank and inverter to provide 12v DC as well as 110v AC. Also installed is a water tank, 12v refrigerator, microwave oven, and for heat, he has installed a heater that runs on diesel fuel. For cooking he has plans for a 2 burner induction cooktop. He'll also have a table/desk. He plans to use a mobile version of StarLink for internet and TV on his laptop. Up front in the van he has 2 meter/70cm as well as HF capabilities.

Below are links to videos of the van build:

[Part 1 https://www.youtube.com/watch?v=z7EqcO89T8k](https://www.youtube.com/watch?v=z7EqcO89T8k)

[Part 2 https://youtu.be/L6NndbCY8Uk](https://youtu.be/L6NndbCY8Uk)



Purchased RAM 3500 Extended in November 2021

The SHARES PROGRAM

by Scott Yates, N4BBB

Many of you are familiar with ARES, the Amateur Radio Emergency Service. Here in Maury County, the group is ably led by W4WRR, Bill Reed.

I am pleased to have been a part of ARES for many years. I was a Member of the Navy Mars Program. That's the Military Affiliate Radio System, which allowed us to use military frequencies, and pass unclassified traffic for military personnel world wide. The mission of NAVMARCORMARS ended in Sept 2015. It was an enjoyable 36 years.

We were given the choice of being "grandfathered" into Army or Air Force Mars. I chose Army, and ended up leaving after a year and a half.

All this was in my home in Rockvale, Rutherford County.

After moving to Columbia, in late 2020, I quickly joined the local ARES. But now, what's next?

I found out about SHARES. That stands for **SH**ared **RES**ources. It took me several weeks of inquiring on how to participate. There were forms to fill out, and apparently my mars years helped considerably.

SHARES is a division of the Department of Homeland Security's CISA, The Cyber Infrastructure Security Agency. I took me several months to be issued a Callsign. Also, they use out-of-band military and government frequencies, Fortunately, my Jupiter has the "MARS Chip" which gives me transceive capability on 1mHz to 30mHz.

A good antenna tuner and you're golden.

ACTUAL SHARES OPERATIONS

SHARES believes in the Ultimate Emergency Preparedness. Lots of what we think about as Emergency Prep is where SHARES starts.

The HF nets start, both by voice and a digital callup message. Here in Tennessee, we are in FEMA region Four. Within 5 to 10 minutes, the entire net changes frequency. Frequencies are listed by a designator, never by the numbers.

But SHARES goes deep on emergency prep....they have a Low Frequency Alerting net, and multiple HF Backup nets, and the WinLink System is hosted as well.

But what about an extreme case...like NO IONOSPHERE after a CME (coronal mass ejection, see Carrington Event, 1859) or an EMP (electromagnetic pulse), such as an airburst nuke.

How do you communicate? Radio will be ground wave, or NVIS (near vertical incidence skywave)...

They will also be using ALE (automatic link establishment) which requires stations to "sound" for open MUF frequencies, and other low data rate modes.

And in a pinch, when nothing else works, CW will.

Lastly, our local EOC is assigned a SHARES Callsign, and should be prepared to participate if needed.

Always be Emergency Aware and Emergency Prepared.

ARRL 4 Band End Fed Antenna kit



[End-Fed Half-Wave Antenna Kit](#)

ARRL has partnered with HF Kits to bring you this easy-to-build 4-band antenna kit: an end-fed half-wave (EFHW) antenna. We built it in the ARRL Lab, set it up outside, trimmed the wire for the lowest SWR, and got it on the air. Now it's your turn!

List Price: \$79.95

Item Details:

The advantage of an EFHW is the ease of construction, it's versatility in a variety of installation configurations (sloping, horizontal, L, etc.), no tuner is needed, and this one works on 4 bands: 10, 15, 20, and 40 meters. We chose a 250-watt rated antenna so you can comfortably transmit the full output power from many off-the-shelf HF transceivers (typically around 100 watts).

Building the kit is easy. You'll drill, fasten, and solder (a small amount). Most everything goes into the included weather-proof box. Admire, then deploy!

Who needs this antenna?

New licensees. Build something, and you're no longer a licensee...you're a ham!

New HF operators...and anyone seeking an antenna that covers the bands that will become increasingly active with Solar Cycle 25.

Experts...because you'll appreciate a quality kit, and you'll end up with a great antenna you can take with you anywhere (think vacation).

Radio clubs seeking a perfect kit for your next project building night!

Specifications

Bands: 10/15/20/40

Power rating: 250 W PEP

Impedance network type: 49:1 with included ferrite toroid

Wire antenna length: includes 66 feet (approx. length) of strong, flexible, and low weight wire

Coaxial cable feedline sold separately

Required assembly tools (you supply): drill and drill bits, pliers, wire cutter, sharp knife or sandpaper, soldering iron and solder, screwdriver, marker

Assembly instructions: arrl.org/end-fed-half-wave-antenna-kit

Stray Cats

WA2BHS Ev Catlin

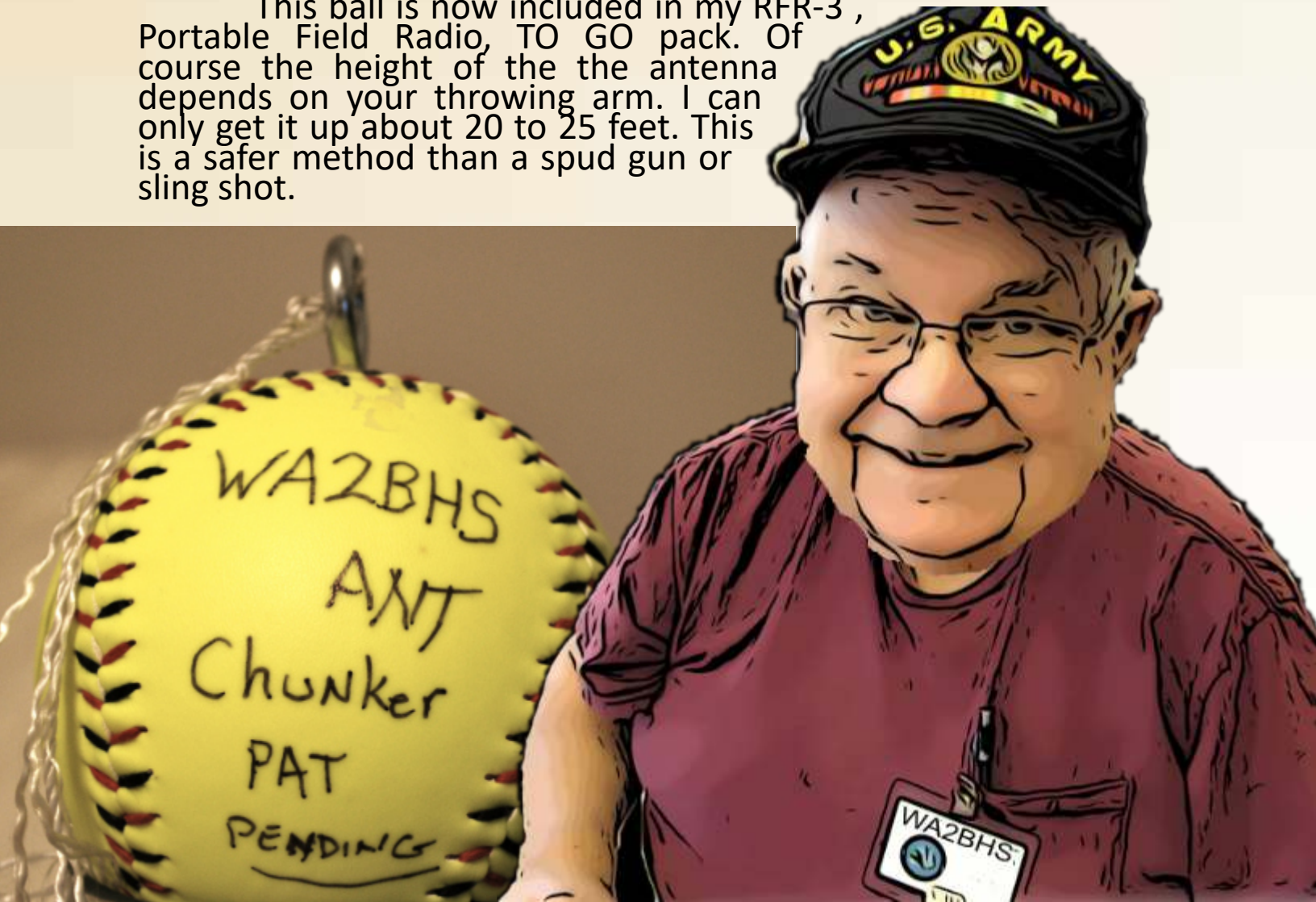


I have been needing a device to install my 40-10 EFHW antenna on my portable operations. The parks I visited in Mississippi, one was a state park and one was a national park both prohibited the use of slingshots and spud guns.

I decided to use a baseball, with a screw eyelet attached. After drilling a pilot hole for the eyelet and coating it liberally with glue it was screwed in.

When I threw the ball with the string attached over the tree it wrapped itself around the limb and got stuck. This was the same problem I encountered when using fishing line sinkers and a slingshot. After some consideration it was decided to use a larger diameter ball, so a softball was obtained, and after many test throws, I was unable to get it stuck in the tree. I suspect that the larger diameter ball helped.

This ball is now included in my RFR-3 , Portable Field Radio, TO GO pack. Of course the height of the the antenna depends on your throwing arm. I can only get it up about 20 to 25 feet. This is a safer method than a spud gun or sling shot.





Eric - N4GLA BILL - W4WRR Travis - KO4HUO Ed - W4EWJ Bob - K4HRK Everett - WA2BHS



MARC ANTENNA CREW REMOVES FRANK'S ANTENNA

On a cold Saturday January 11th morning a crew from the club removed Frank's OCF dipole antenna. Frank who recently passed away was a long time club member and an active ham. Not too long ago his antenna needed work and wasn't happy until some of the guys went over to get the antenna working again.

I don't really know what kind of operating he did but as an old timer I know he still did some CW. He was an Extra Class amateur.

A BIG thanks to those who volunteerd to help with the tear-down.

A BLAST FROM THE PAST

A 2001 HAM RADIO CAMP OUT



Terry KF4FNG



Copying CW



Greg KF4ZKV



Terry & Brian



Brian KG4GCZ

1992 FIELD DAY



WW3B John... *down in Giles County*

I have been a Ham since 1990 when I first got my Novice and 5 wpm code. I quickly got up to 20 wpm and got my Extra when I was employed at Voice of America (VOA) broadcasting.

I started out as a Navy Electronics Technician in 1976 at 18. I was in the Submarine Service and found electronics to really be my calling.

I am fully retired now, and back home in my native Tennessee. I still enjoy the electronics in building my own radio station. My antenna is a "home brew" as well. I bought much of my radio equipment as "non working - for parts only" rather inexpensive in price, troubleshot, fixed and aligned to put back into service. I still love old vacuum tube equipment!

I prefer participating in the National Traffic System nets and frequent the Tennessee Phone Net, Texas Traffic Net, and the North Florida Phone net.

73!

P.S. There are those of us who still relish the euphoria created by the warm glow of thoriaated tungsten filaments.



Fusion Wires-X Travis KN4RKB has a Fusion/WiresX node on 145.650 in Columbia TN. Also in Spring Hill Jay KN4JGH has a Fusion/WiresX setup on 145.525.

CBS Sunday Morning Spotlight

While Brian AG4UX was listening to a Sunday Morning show about ham radio, he noticed that N2TSQ was talking to someone in Columbia! You can hear the Columbia ham about 47 seconds into the video? Anyone recognize who it was? Link: <https://youtu.be/ineRc-XCG4Q>



Neighborhood QRM... Bill K4BX

Recently Paul WB0CJB mentioned that he lives so close to Frank KA4HBQ that he could tell whenever Frank got on the air. That brings up memories of a similar case when I was a 16 year old Novice back in 1964. There was this other Novice that lived less than a mile from me and whenever he got on CW I could hear the clicks on my receiver no matter what band I was playing on. He was an old man probably in his late 30's or early 40's. Today I wouldn't call someone that age old but he was old to me.

As I have thought back to this time, I now think he must've hated me! Every time he got on the radio, I'd answer his CQ. Finally one day he sent me his address and invited me over for an eye ball QSO. Although we were both Novices (*new to the hobby*) he kind of took me under his wing. I loved going to his shack because he had a lot of radio gear which I can't remember the brands. Much better stuff than this poor boy had!

One day I don't hear any clicks on the radio so I had to call CQ to do CW with someone else. Guess who answered my CQ? Yes, it was my pal, the old man a few blocks away. He was excited and wanted me to come over and look at his newest radio, a 2 meter AM transceiver. Let me tell ya, it was no little Chinese HT! This 2 meter rig he had was in a rack mount cabinet that was 5 foot tall and weighed a few hundred pounds. There was five units in that rack mount: Power Supply, Receiver, Exciter, Modulator, and Amplifier. With all of that, it would put out 10 watts of AM on one crystal controlled frequency. It was military surplus and don't recall how he came to have it.

If it wasn't for me meeting this old man, I probably would not be a ham today. My family was very poor and it was a miracle that I managed to get my Novice ticket and some junk gear to get on the air. At that time my Novice was good for one year and if you didn't upgrade to General, you were done with ham radio. There was no way I was going to be able to get to the FCC Office to take the General exam. We lived in Youngstown Ohio and that meant I'd have to go to Cleveland to take the test. No car in my family and no money.

One day while visiting with him he mention he was going on a business trip to Canada and on the way back was going to stop at the Buffalo NY FCC Office to take his General test in 2 weeks. He invited me to come along if I wanted to take the test also. I quit playing radio and hit the books. Back then they didn't tell you what the questions were. They had license manuals but they just covered the theory you'd need to pass. No internet so the library was your go to for info. Nothing like studying a license that was well outdated.

I think there were about 20 of us at the FCC office that morning which got thinned out because they did the 13 WPM CW test first. If you failed that, you were asked to leave. I was the first one done with the written test and actually got yelled at for looking around. I told the guy I was done and just waiting for the others. He took my papers and had me sit at another table where that had a code key fastened to the table. He handed me a typed letter and told me to send what I read. After just a few words he said that was good. Now had to get home and wait about 6 weeks for the new license to come in the mail. They didn't even tell you if you failed or passed. I never seen them grade my papers but it was a piece of cake and knew I passed. They old guy was sweating over the written test but he passed also.

I bet you have a story or two to tell! Send it to the editor for the next newsletter. My stuff is boring!

73 Bill K4BX

k4bx@arri.net



What the editor has been up to...

60 meters anyone?

I've been wondering if any of the club members play on the 60 meter band. I kinda stayed away from the band due to its channelized setup. You had to stay on one of the 5 channels. Then I read somewhere that if you set your rig to 5.357 you could do digital in the 2.8kHz bandwidth. Back during April 2012 I started monitoring the digital signals on that freq and seen guys doing FT-8 and I jumped in.

There wasn't a lot of activity at that time and after a short period of time, it was hard to find new ones. Even today you will never see the waterfall full of signals like you do on 20 meters. At first the states worked started piling up and surprisingly I worked a few Europeans. I wasn't expecting that on 60 meters especially since I didn't even have a decent 60 meter antenna. I just loaded up whatever antennas I had.

After almost 3 years playing on 60 meters I have worked all the states and I've really been trying to get 100 countries but I'm stuck with 94 and not very optimistic about getting 6 more. Interestingly, my most recent new one was Ukraine! Hard to imagine any ham operations going on there with the war going on.

It's Contesting season...

In early January I jumped into the ARRL RTTY Roundup and did 502 contacts. That's nothing to brag about but for me, it's the best I've ever done. I have a hard time keeping my butt in the chair but with N1MM software, doing RTTY is very easy.

The following weekend was the North American QSO Party on CW. This time I only did 300 contacts. CW is a different ballgame than RTTY where the computer does all the decoding. With CW you have to pay attention to get the exchanges right. I reckon that's why I like the RTTY contests the best!

My 80-10 meter End Fed antenna....

This is the only antenna I have up now and after about 3 months with it I have mixed opinions about it. I'll say one thing great about the antenna which is it will work on all the bands 80-10 meters. The autotuner in my Icom will easily touch up the SWR if he gets up over 2:1.

On the other hand, this antenna seems to work poorly on a few of the bands like 15 and 12 meters. Maybe it's just my imagination. I do realize any multiband antenna is going to be a compromise antenna. And I'll

never figure out how this antenna looks decent (SWR) and all the bands!

Hunting Parks on the Air

My latest activity has been working the POTA guys. A good friend of mine that I talk to on CW quite often was telling me all about POTA and the fun he was having. I really had no idea how active that group was. If your looking for something fun to do, there are many videos on YouTube that explain how everything works.

I've been at it for a few weeks now and have worked 120 different parks mostly on CW. But whatever your favorite mode is, they guys are out there using CW, SSB, and even FT8. Even though I call it hunting, you just need to visit the [POTA website](http://www.pota.org) and it will list all the Parks on the air with frequency and mode.

What you been up to?

You guys have to be tired of reading about what I've been up so how about a recap of what you have been doing on the bands? When you tell us what your into, it mat very well inspire someone to try something new... like 60 meters, or Contesting, or POTA, or Dstar, WiresX, CW, FT8...etc.

73 for now... Bill K4BX k4bx@arrl.net



Nice lamp!