The ORC Newsletter

Official publication of the Ozaukee Radio Club, Inc. Email all contributions to the editor, Bill Shadid, W9MXQ (newsletter@ozaukeeradioclub.org). Permission to reprint articles published in any issue is granted provided the Author (as shown in the article) and the Ozaukee Radio Club Newsletter are fully credited in any publication.

ORC Repeaters on 146.97 (-127.3PL), 224.18 (-127.3PL), 443.75 MHz (+127.3PL or C4FM) - Callsign W9CQO
Web site: www.ozaukeeradioclub.org **Facebook: facebook.com/orcwi**

Volume XLII	December 2024	Number 12

From the President

de: Bill Greaves, K9GN

The year-end Holiday Season is upon us. Hopefully, you have recovered from the Thanksgiving feasting and are back to your pre-feast gravity pull! At my house we had 19 family members celebrating together – a true feast of family.

STEM committee members held an FM radio kit "repair day" November 20th for those middle school students unable to finish their kit or with radio problems after our earlier kit-building event October 18-19 at the West Bend Library. We had four ORC members and two students plus several of their family members to finish up the kit-building activity. Thanks go to participating members Pat Volkmann W9JI, Stem chair, with Bill Schnell AC9JV and Scott Galaska KD9YEW. This successful project with the West Bend library and librarian Terika Koch provides an excellent example for amateur radio youth engagement.

Back on November 8th, Gary Bargholz N9UUR noted Field Day results were online and the ORC did very well in the points total by placing #1 in Wisconsin and #9 in the U.S. in category 4A. Now, we know that Field Day is a preparation and experiential activity and that points for contacts is a "non-competitive" outcome measure - just saying <smile>. The results are listed in the December QST. Field Day leader Nate Seidler KC9TSO congratulated all participants for their participation. Nate seemed to suggest that an even more robust showing is anticipated for 2025. Field Day is always the 4th weekend in June. ORC Officer elections will be held at the January meeting, with a trivia activity if time permits. Nominations are ongoing now with Pat W9JI leading the Nominations Committee. The 2nd vice president position is open currently, and YOU can volunteer to serve your club as the 2nd vice president. Details of the position can be located in the Officers

Handbook and Bylaws on the ORC website at www.ozaukeeradioclub.org under the About Us tab. If interested, you can contact Pat W9JI (ORC_Pat_W9JI@outlook.com) or myself (president@ozaukeeradioclub.org) for any questions. Dues need to be paid for 2025 in order to vote and you can do that online at the club website while you are looking up info on the 2nd VP position!

The Club membership will gather on Wednesday, December 11th both in-person and on zoom at 7:30pm, with meet-and-greet at 7:00pm, at the Grafton Senior Center or on zoom. The program for the meeting will be **"Digital Modes"** by Gary Sutcliffe W9XT. I look forward to seeing you at the meeting.

73,

Bill K9GN

https://www.pinterest.com/pin/423901383673178729/

A Message from the Editor
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de: Bill Shadid, W9MXQ, Newsletter Editor

Please note Club President, Bill Greaves, K9GN, on Page 1 for his monthly message.

This month our newest Columnist, Bob Schmid, WA9FBO, is back with a description of CW Words per Minute and how it is defined. Take a look.

Check out our Treasurer, Gary Bargholz, N9UUR, as he talks about Dues and the Upcoming Election of Officers. Gary is followed by three first person articles from Tom Trethewey, KC9ONY, Jim Albrinck, K9QLP, and your Editor, Bill Shadid, W9MXQ.

Don Zank, AA9WP, again continues his work detailing ARES and Winlink.

Stan Kaplan, WB9RQR, in Computer Chronicles, Installment 321 talks to us about a software tool to identify features and details of our computer systems – no matter what operating system you are using. (Editor's Note: I tried it, Stan, and it really works!!!).

Gary Sutcliffe, W9XT, brings us a look at "On the Air Activities!" for December and early January.

Bill Shadid, W9MXQ, your Newsletter Editor, takes a bit of a break in this busy season for his business and brings us an article on Radio Station Setup Tools. This is an expansion in writing of his topic for the October Projects Night Presentations at ORC. As a hint to other presenters, remember that only about 25% of our members were present at the physical or Zoom session that night. And a whole other world of non-member readers see this Newsletter. Perhaps a hint for an article from the rest of the presenters that night!!

Tom Trethewey, KC9ONY, is back with local and regional Upcoming Events

See the entries in the Classified Advertising section.

Check out Ken Boston, W9GA, and his Secretarial Report for the Ozaukee Radio Club October 2024 meeting for your review and discussion at the November ORC Meeting.

Finally, check out the items from Jeananne Bargholz, N9VSV. Jeananne gives us a window on this month's program at next week's regular meeting as well as upcoming programs. Be sure to look at the Swag pages as well!!

Need help to get your thoughts on paper for an article? That is what the Editor does!! Let me know how I can help you. newsletter@ozaukeeradioclub.org

73, Bill Shadid, Newsletter Editor
newsletter@ozaukeeradioclub.org

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Remember the Season & Say the Words

Notes from the Treasurer

de :Gary Bargholz N9UUR

Hello Ozaukee Radio Club Membership.

It's that time of year again, time to renew your ORC dues for 2025. Please renew your dues soon, as only paid Club members are eligible to vote for the election of officers for 2025 at the January 8th meeting.

You can renew on the Club www page via PayPal.
(It will cost you $1.00 extra to use PayPal)
You do not need a PayPal account to use this, just a credit card.

Please go to:
https://ozaukeeradioclub.org/membership-dues/

Or you can make out a check to the **ORC** for $20.00, and mail it to me at:

Gary Bargholz
8273 North 53rd Street
Brown Deer WI 53223

And of course, I'll take your money at our next Club Meeting on December 11th.

Pat Volkmann W9JI, our past President, has taken on the role of finding nominations for next year's officers. He has asked me to continue on as Club Treasurer. My answer is, if someone else would like to join the Board as Treasurer, to get some new blood on the Board if you think that is needed, OK. But I would be very happy to continue on, I enjoy doing this for the Club.

Our 2nd Vice President slot has been open for a while now. Please consider running for that position. Contact Pat if you are interested.

73' Gary Bargholz N9UUR
Treasurer - The Ozaukee Radio Club
treasurer@ozaukeeradioclub.org

Youth on the Air Month

de: Tom Trethewey, KC9ONY

https://youthontheair.org/wp-content/uploads/2024/11/YOTA-Month-2024-PRESS-RELEASE.pdf

YOTA Month Special Event Returns

Youth-operated stations around the world will be part of a special event celebrating youth in amateur radio during the month of December.

BRENTWOOD, Tennessee, USA, November 25, 2024 —

Amateur radio operators ages 25 and younger will be on the air as special event stations around the world throughout December in celebration of youth in amateur radio. YOTA Month stations will be on all bands and modes at various times. QSL and award information is at https://events.ham-yota.com/.

In the United States this year, the callsigns returning will be K8Y, K8O, K8T, as well as W8A. Argentina will be active as LT4YOTA, and Canada as VC2YOTA, VC3YOTA, and VB7YOTA. El Salvador will operate as YS1YOTA, and Costa Rica will be TIØYOTA. The Honduras callsign is pending approval. Amateur radio operators should be encouraged to listen for and contact these stations as well as all callsigns ending in the letters “YOTA” across the globe.

Last year, young hams worldwide surpassed their goal of 100,000 QSOs in the month of December with a final tally of 103,788.

Overlapping with YOTA month is round 3 of the YOTA Contest, which is on December 30, 2024, from 1000 to 2159 UTC.

More information about YOTA Month specifically in the Americas can be found at YouthOnTheAir.org including a link to all YOTA station spots on DXSummit.com. The Youth on the Air website is sponsored by ICOM America.

More information about YOTA Month globally can be found at events.ham-yota.com.

To schedule interviews or obtain additional information about YOTA Month participation in the Americas, please contact YOTA Month Americas participation coordinators Blake Pearson, KN4VKY, Ryan Pearson, KN4VKW, and Kees Van Oosbree, WØAAE at yotamonth@youthontheair.org.

10-Meter FM Via 220 Repeater

de: Jim Albrinck, K9QLP

Many of you may not be aware that the Club's 224.18 repeater has a 10 meter FM link attached to it. The 10 meter transmitter operates on 29.600 Simplex FM which is the FM Simplex Calling Frequency. Band plan protocol states that we should make a contact on 29.600 and then move (QSY) to another FM Simplex channel which is 29.400 to 29.490 Mhz. The reason being to keep the 29.600 frequency open for other callers, very similar to 146.52 and 446.00. 29.500 thru 29.590 are reserved for input frequencies for 10 meter FM repeaters. Outputs for 10 meter FM repeaters are 100 kHz above the input frequency. (29.570 in / 29.670 out.) Currently we need to program Simplex channels into the system. We'll let everyone know when they will be available for use and how to QSY to access them.

Currently any member wishing to try the 10 meter connection to 224.18 should contact a Control Operator (W9DHI, KC9ONY, or K9QLP) and ask that we turn on the link for your use. When you are finished, let us know and we'll turn it off. Plans are being made to install a Macro command and pass it out to the membership so that all members, General Class and higher can turn the 10 meter link on. A timer will be programmed in so that the link will shut down after a predetermined number of minutes. This is to minimize interference. Novice and Technician operators can use the 10 meter FM link when it is up, but are not allowed, by FCC regulations, to control turning the 10 meter FM link On or Off because the FM portion is beyond the scope of their licenses .

Why have a link for 10 meter FM on the 220 repeater? The main purpose is to experience HF 10 meter FM and the DX available on this band. I have talked to mobiles in Montana, Florida, Arizona, New Mexico, and the Bay Area to name a few. DX stations in Germany, England, Ireland, Puerto Rico, the Isle of Wight, Argentina, and others have been contacted by me through the link. It's fun and especially fun using a 2 watt 220 HT.

The Club's 220 repeater came into being in the mid 1980's after Novice Enhancement. We had XYL's in the Club who were Novices and their OM's wanted to be able to chat with them because they (XYL's couldn't us the 2 meter repeater). We started with a donated 220 mobile that was converted to repeater use and installed on a member's (WA9JMS) tower in Cedarburg. Enhancements through the years led to the 10 meter FM link(K9CAN and W9DHI); new exciter(K9QLP) and PA (K9CAN); new site in Germantown with new antenna and amplifier(K9CAN and W9DHI); back to Grafton due to site issue (K9CAN); and finally, back to Cedarburg at the 97 site, N9PMR and W9BTN. Documentation by WA9JOB and K9QLP, more upgrades by WA9JOB, and new complete system by W9DHI and KC9ONY. Lots of work by dedicated ORC members who realized the great

capabilities of the 220 band and encroachment by commercial interests (UPS, Amplitude-Commanded SSB, SCADA, and other commercial modes. It gets back to one issue, everyone – the radio spectrum is finite and fewer and fewer frequencies are available every day for commercial interests. Now more than ever, if we don't use it we'll lose it, especially from 2 meters higher.

More information will be forthcoming as the 10 meter FM link goes through further development. In the meantime, get on 220 and try it out and stay for a QSO if you can. 73 de Jim K9QLP

SOTA – Summits on The Air

"It's all about getting there!"

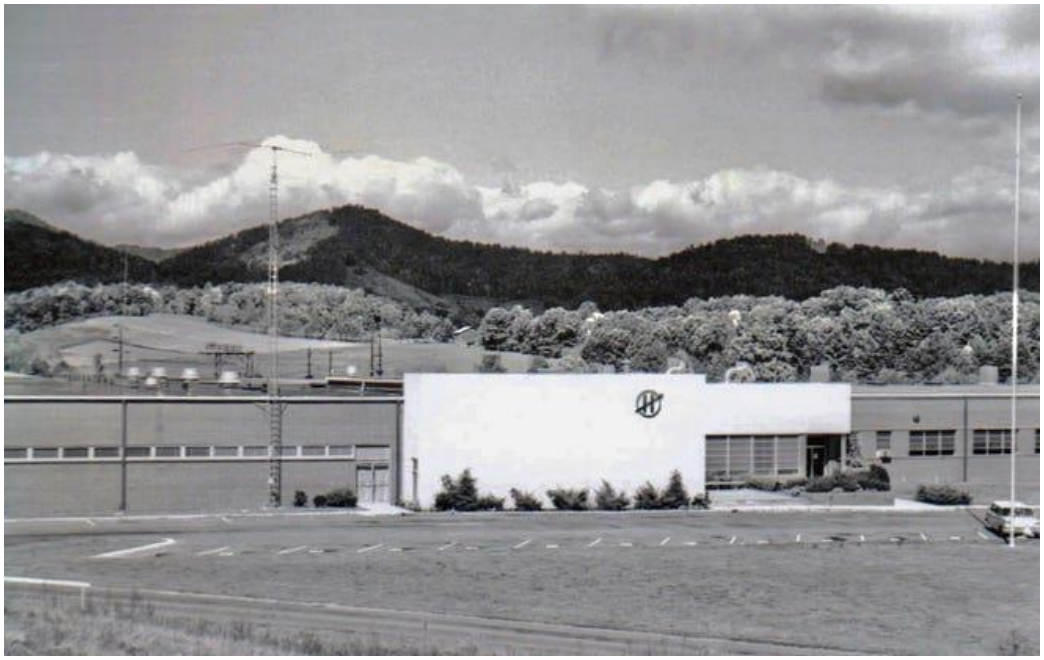
Hammarlund Radio Hullabaloo - 2024

de Bill Shadid, W9MXQ

Every year, in November, members of the High Appalachian Mountain Amateur Radio Society KE4MH (HAMARS) operate a Special Event Station in memory of the Hammarlund Radio Company. This year the event fell on the 18th through the 20th of November.

While this is right down my alley – promotion of the technical history of our hobby – this year it got beyond me. I forgot the event!! Well, I was saved on the final day with a text from my good friend, Jim Goelden, KA9ZYW. "Hey, Bill, is this someone you might be interested in talking to?" I have to say that Jim knows me very well – certainly, I was interested!!

Here is the venue of the event – see the picture below. This is the last plant of the Hammarlund Radio Company. It closed when the company ceased operations in 1973. Founded in 1910, they were one of the oldest manufacturers in radio.



The Mars Hill, NC, operations, and manufacturing site for Hammarlund. It remains today but likely the tower, beam antenna, and Hammarlund "H" are gone.

HAMARS Website

This is the station I used to contact the W4H, the Special Event Callsign of the High Appalachian Mountain Amateur Radio Society event. They also operated under the club

call, KE4MH, but the W4H station was actually in the former Hammarlund building. KE4MH was operating elsewhere.

Hammarlund HQ-215 Receiver (On the Right)
Collins 32S-3 HF Transmitter and 312B-4 Console (On the Left)
W9MXQ Photo

In the heat of battle, as we say, the above station failed to work. Not the fault of the all solid state Hammarlund HQ-215 Receiver, apparently the Collins 32S-3 got jealous of not being the limelight and decided not to work. It was corrected later, but a more trustworthy Drake T-4XC Transmitter did the initial honors of making the first contact. The above station, re-assembled an hour later, did make an appearance.

Later, on the same day, I assembled a station using the older Hammarlund HQ-170AC-VHF Receiver. This setup used the Collins KWM-2 HF Transceiver (with the 312B-5 Remote VFO used only for its internal speaker), and the Hammarlund connected to the “Remote Receiver” connections on the Collins Transceiver.

-

Hammarlund HQ-170AC-VHF Receiver (On the Right)
Collins KWM-2 HF Transceiver and 312B-5 Remote VFO (On the Left)
W9MXQ Photo

Those of you that know me know that I look at these old radios as friends from our past. Any chance to show them off is where you will find me on the bands. Keep those vacuum tubes glowing.

73, Bill Shadid, W9MXQ

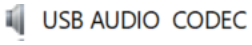
OZARES: Ozaukee Amateur Radio Emergency Services

de: Don Zank AA9WP, OZARES Emergency Coordinator, aa9wp@arrl.net

WINLINK Soundcard

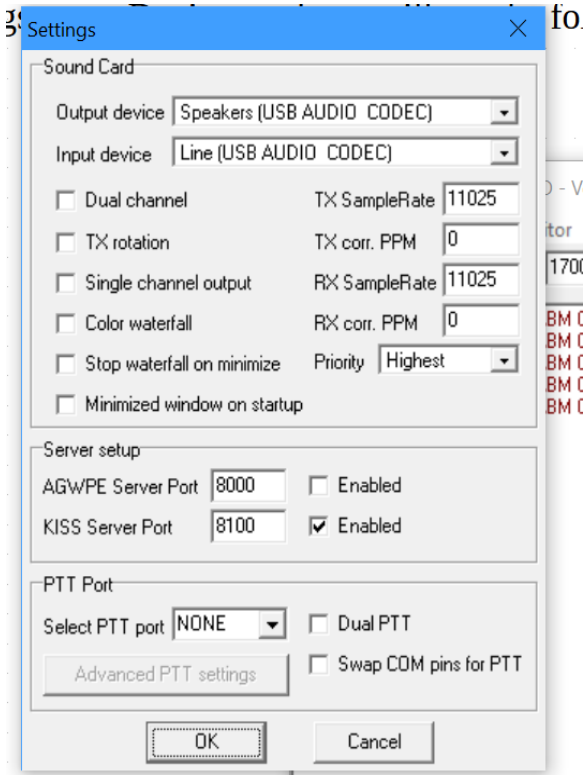
So far we have two pieces of software; WINLINK Express and the Soundmodem software; several pieces of hardware including a Signalink with associated cabling and a vhf radio. And after filling out the opening page in WINLINK Express we should be registered with the organization.

Next, connect the Signalink to your radio. the computer and turn it on. The green led should be lit. In the Device Manager, under Sound, Video and Game controllers you should see this:



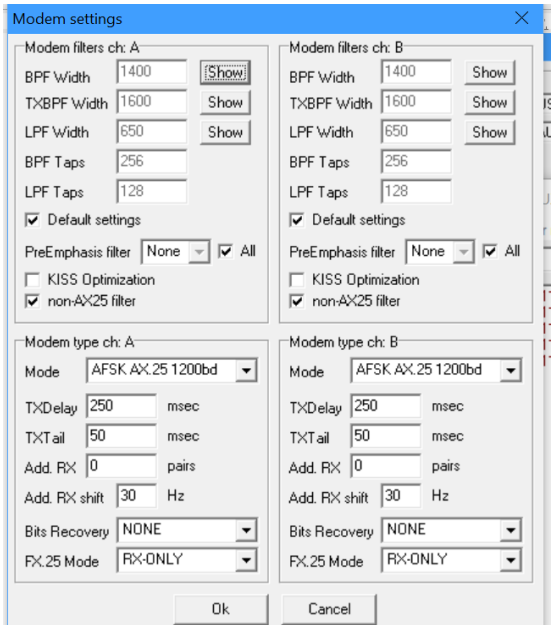
This will be your sound connection for the Soundmodem software. So, lets open up the Soundmodem software.

And under Settings, open Devices and you will see the following for Sound Card setup.

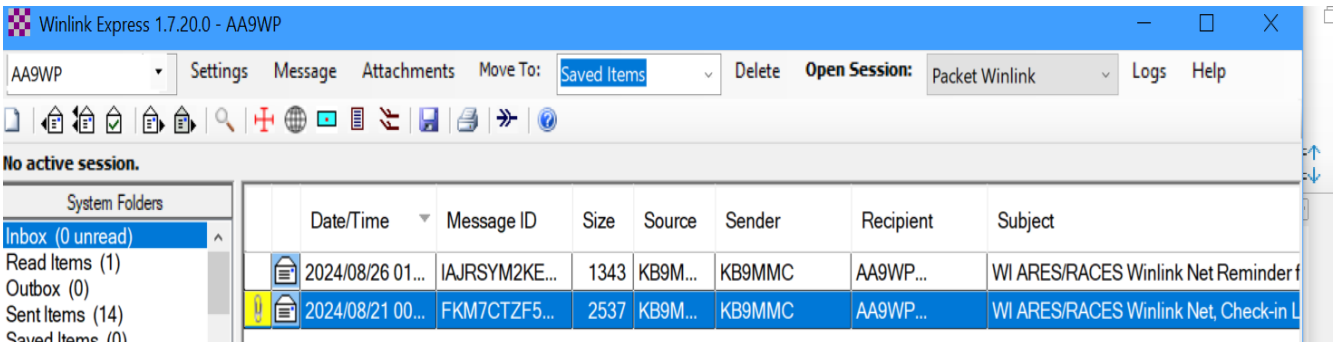


The Input and Output device must be the USB Audio CODEC. KISS Server Port should be 8100 and Enabled.

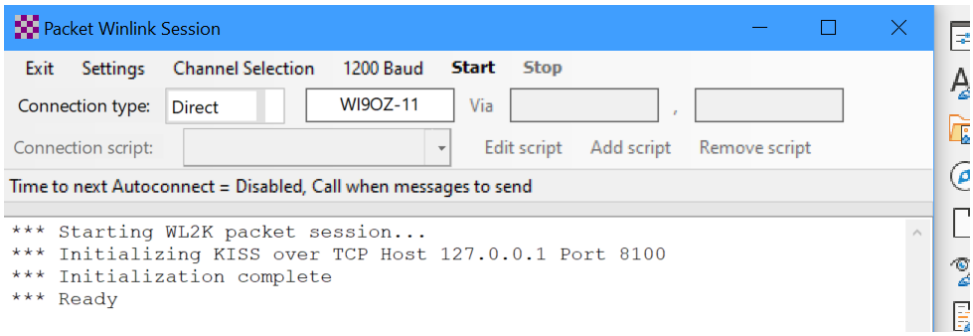
Soundmodem>Settings>Modem type ch A should be setup as shown:



Returning to WINLINK Express we want to select Packet WINLINK in our open Session. Just click on **Open Session.**

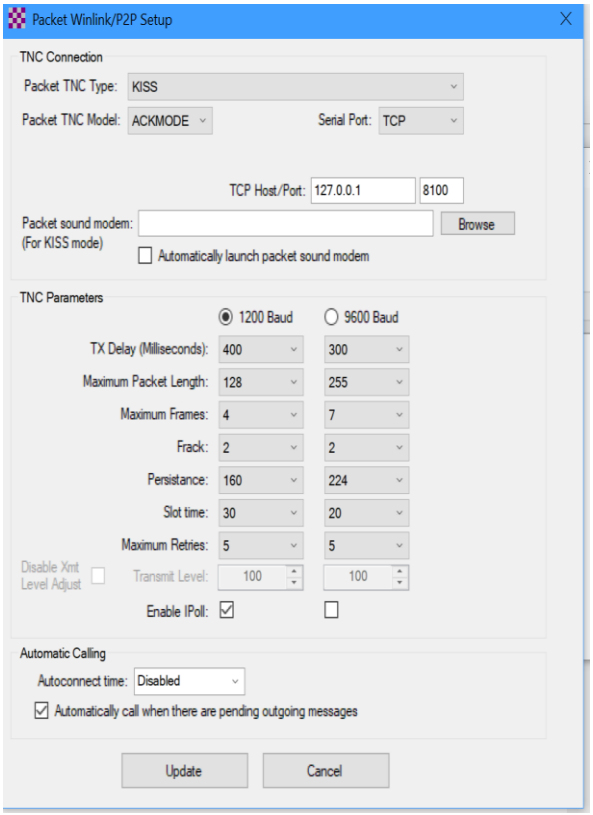


The Session Window will open and then, surprise, another Settings tab:



The Winlink/P2P Setup is as shown below:

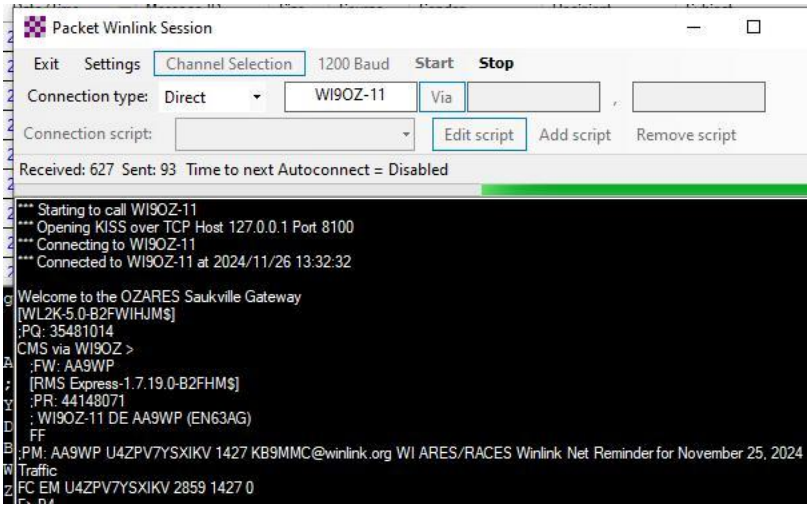
One note here. You can setup the Soundmodem software to open automatically on this page. Just enable the box and locate your software file location. When first learning WINLINK I would open my Soundmodem software first. Then WINLINK Express. That way I could step through each process and ensure proper setup. Your choice.



My process is always to reboot the computer after making all the changes above. Then recheck all the changes and make sure they are correct. Windows does have a lovely feature of changing your soundcard as it pleases.

It is always convenient to have another radio, an HT is fine, to monitor your signal when you first transmit.

Reopen Soundmodem, then WINLINK Express and select Packet Winlink Session. Click on Channel Selections and find WI9OZ-11 You may need to update via the internet. This is the OZARES gateway in Saukville on 145.610. No offset, no tone. Double click on WI9OZ-11 and you will be set to go. Click on Start and if all goes well, the PTT Led on the Signalink should turn red and your radio will transmit. Then you should hear packet notes from the monitor radio and, if the connection is made the information will fill in the Winlink Session window.

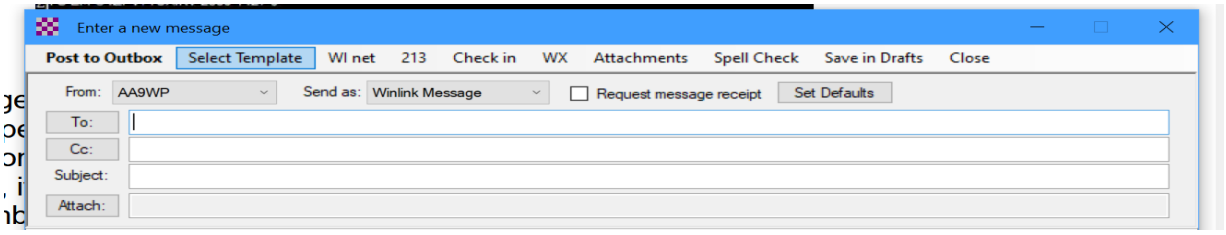


A few other suggestions: Open your squelch all the way. If you are using the sound output from the radio open the volume control. Set the Signalink TX and RX at 50% and Delay at zero. At the bottom of the Soundmodem software is a waterfall. That should be filled in, white noise, not blank, if the receive levels are working.

There are a number of hooks, crooks and gotchas in WINLINK, so a little patience goes a long way. Actually, I have a lot of patience. The most frustrating part is getting it to work, coming back a few days later, and it will not connect. But slowly step through all the setups and you should be able to locate the issue.

If you are ambitious, click on Message> New Message and write yourself a test email. Insert **//wl2k** at the beginning of the subject line. (Spam filter) Click Post to Outbox and try sending. You may surprise yourself.

Next month we will continue and look at the Messages and Templates available in WINLINK.



Wishing everyone Happy Holidays and Stay Safe.

73
Don AA9WP

OZARES Repeaters:

- 147.330 MHz (+ Shift) (127.3 PL)
  - FM Mode Only
- 443.525 MHz (+ Shift) (114.8 PL)
  - FM Mode Only

ORC Repeaters are On the Air Awaiting Your Call:

- 146.97 MHz (- Shift) (127.3 PL)
  - FM Mode Only
- 224.18 MHz (- Shift) (127.3 PL)
  - FM Mode Only
- 443.75 MHz (+ Shift) (127.3 PL)
  - FM & Fusion (C4FM) Modes

THE COMPUTER CORNER

Number: 320

CPU-Z

de: Stan Kaplan, WB9RQR, 715 N. Dries Street, Saukville, WI 53080-1664
wb9rqr@gmail.com

Sometimes you just need information about what your computer is – the hardware and such – quickly and in detail (if you want it) or in overview (if you want that). This little program has been around to do just that for over ten years, with regular updates by its author, Frank Delattre. It is free, with absolutely no charge (in my opinion that is the way all software should be), clearly a labor of love by its author. A beautiful little tool that I highly recommend. Of course, get it from where you should safely get all your software, majorgeeks.com.

When you run it, after a couple of seconds of gathering data it displays information on:

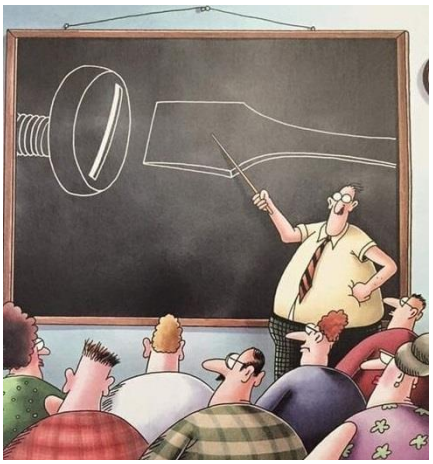
- Central Processing Unit (CPU), name and number, code name and more.
- Mainboard and chipset.
- Real time measurement of each core's internal and memory frequency.
- Memory type, size, timings and more.
- Graphics cards or chips and more.
- Benchmark (single or multi thread, compared with other CPUs).
- Fully supported on Windows 11 and earlier versions.

You can scan the results, or save them for a more exhaustive study session, including printing them in pdf or html or text format (mine was over a 30 page document when I saved it in text format; half that number of pages for pdf). Most times, a simple scan of the results is likely to come up with the information you are looking for in the tables it routinely presents.

The latest copy of CPU-Z at this writing is Version 2.11.2, October 2024. It comes with both 32-bit and 64-bit versions. Try double-clicking cpuz-64.exe first for the 64-bit version and run the other one if it balks (all late model computers are 64-bit). An *apparently* simple program, but very well done and with great value in revealing your computers attributes. Happy Computing!

The Basics

de: Bob Schmid, WA9FBO



CW Words Per Minute (WPM)

Since Morse characters vary so much in length, how do we determine the speed of CW in words per minute, such as 5, 13, or 20 WPM? What's a "word?" If we program a microprocessor to send CW, how many milliseconds in duration is each dit, dah, the *intra*character space between them, the *inter*character space between characters, and the interword space?

We break the characters into "elements." A dit is one element and a dah is three elements. An intracharacter space is one element and an intercharacter space is three elements. An interword space is seven elements.

By international agreement, Morse code speed is defined by the word "PARIS." The calculation works this way:

```
P = di_dah_dah_dit___  = 1+1+3+1+3+1+1+3 = 14 elements
A = di_dah___          = 1+1+3+3         =  8 elements
R = di_dah_dit___      = 1+1+3+1+1+3     = 10 elements
I = di_dit___          = 1+1+1+3         =  6 elements
S = di_di_dit_______   = 1+1+1+1+1+7     = 12 elements
```

The word PARIS has exactly 50 elements.

Sending PARIS 5 times in one minute (5 WPM) means sending 250 elements per minute. The duration of each element is:

(60 sec/min) / (250 elements/min) = 240 ms/element

Sending PARIS 13 times in one minute (13 WPM) means sending 650 elements/minute, or an element time of 92.3 ms. At 20 WPM, the element time is 60 ms.

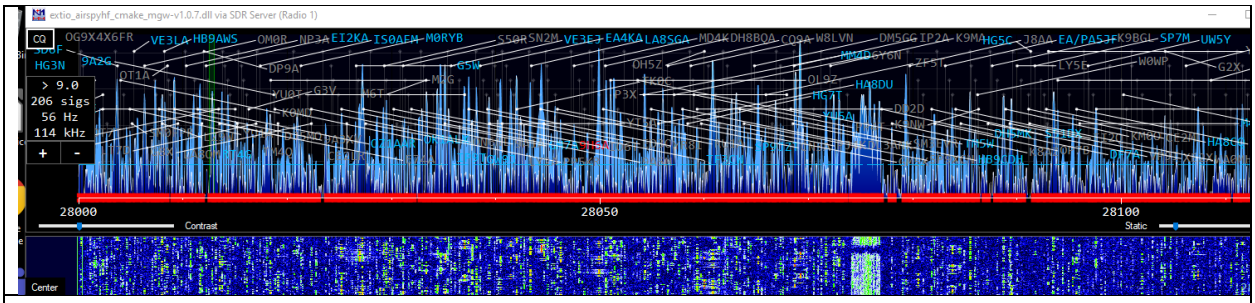
"The Basics" ©The Far Side – Gary Larson

On The Air Activities!

de Gary Sutcliffe, W9XT

November didn't have the solar fireworks we had seen in the previous months. In fact, the solar flux took a deep dive into the 140-150 range for a couple of weeks. Most of the sunspots were on one side of the sun, and as the sun made its 28 day rotation, they rotated away from the visible side.

The sunspots started to rotate back our way in time for the CQWW DX CW contest the last full weekend of November. I did a single band, 10 meters, low power (100W) assisted class. I ended up with 987 QSOs in 135 countries. That is good enough to break the old W9 division record by about 50%. There was a lot of activity, and the CW band was busy from 28000 to around 28160 KHz.



10 Meter band scope showing activity on CW during the CQWW DX CW Contest.

We had some good conditions on six meters. There have been a few openings into Europe and more frequent openings to South America and the Caribbean. Alaska has been coming in occasionally in the afternoon. That is a really tough state on the band except during sunspot maximum. Get it now. On November 11, Gary, **K9DJT**, and I snagged ET3AA in Ethiopia on 6 meters. That is a really good one.

ET3AA is at a technical school in Addis Ababa. Most of the members are engineering students at the Institute of Technology. In recent years, two friends of mine, Ken, K4ZW, and Bob, W9XY, have made several trips there, bringing and installing equipment, making repairs, and training operators. Getting Ethiopia is a good catch on any band, but 6 meters is extraordinary. They have made several attempts to make contacts on 160 meters, but the noise levels are too high for much success.

Another good catch on 6 meters for me was VK9DX on Norfolk Island off the coast of Australia. Getting the LoTW confirmations of these came just in time. The ARRL has just re-opened DXCC applications since being shut down after being hacked back in May. I had 100 countries confirmed earlier this year. I had some cards processed at the Central States VHF Society Conference at the end of July. They showed up on my DX Logbook status as confirmed a couple of weeks ago, so I applied for 6 meter DXCC. It appears to

be in process, but with the considerable backlog, I am not expecting to see it until sometime next year.

I am pretty proud of getting DXCC on 6 meters. Only about a dozen Wisconsin stations have made the grade. Ken, **W9GA**, was the first ham in the state to accomplish it. Gary, **K9DJT**, is not far from getting his 100 countries on the band, and if conditions permit, he should finish it in the next few months.

Twelve Days of Christmas event

The Twelve Days of Christmas special event will run from December 14th through December 25. This event is sort of like the 13 Colonies event in July where you work special event stations in each of the original colonies. In this one, you work special event stations, each representing the different items in the song, *The Twelve Days of Christmas*. For example, W2P is for the partridge in the pear tree. W2T is for two turtle doves, K2L is for ten lords a-leaping, etc.

There are also two bonus stations, VE9XMAS1 and VE9XMAS2. I wonder if my logging program will let me log those calls! I never saw a ham call sign ending in a number. Well, JY1 many years ago.

These events are fun. Sometimes, I just try to work them all one way or another. Sometimes, I try to work on all of them on CW, SSB, and digital. I know many ORC members participate. Let me know if you do and what your results are.

Hammarlund Radio Hullabaloo event

Bill, W9MXQ, reports success in the November annual Hammarlund Radio Hullabaloo event that took place in the former Hammarlund Radio Company plant in Mars Hill, NC. See Bill's writeup in this issue of the Newsletter on this little known but annual event for operating Hammarlund amateur radio equipment.

EMCOMM

Several ORC members are active with emergency communications in their respective county ARES groups. The main danger here is tornadoes. They are infrequent and usually affect a small area. Help is not more than a few miles away. However, other parts of the country face much more severe and widespread dangers from hurricanes. Power, travel, communications, and other essential items can be out for days, weeks, or even months over a vast area. This year, the country got hit by Hurricanes Helene and Milton. Hurricane Helene devastated parts of North Carolina in an area not usually considered to be a significant hurricane risk.

One of my favorite podcasts is *The Ham Radio Workbench*. It comes out every two weeks. They have a few regulars and a guest in each episode. They discuss the projects on their

work bench, followed by a discussion with the guest about some subject. ORC member Jeff, **W9KW**, and I have been past guests on this podcast.

Anyway, one of the regulars, Thomas Whitherspoon, K4SWL, was in the middle of the damage in North Carolina, and the area was cut off from power and communications. Roads were destroyed or blocked with downed trees, and getting supplies in or people out was difficult. Once things got a bit better and they had Internet connections, they devoted a whole podcast episode to K4SWL and his experiences. Ham efforts were a relatively small portion of the discussion, but the importance of our hobby in emergencies is evident.

This podcast is about three hours long and is very engaging. I learned a lot. There are just many things you don't think about until it hits you. I am doing a few things to improve my preparedness because of listening to it. I recommend listening to it even if you are not involved with ARES.

https://www.hamradioworkbench.com/podcast/hrwb-221-thomas-witherspoon-k4swl-on-hurricane-helene-and-emergency-prep

Contests

The ARRL 160 Meter contest will start when this newsletter is published. Details were covered last month.

The best one in December is the ARRL 10 Meter Contest. We could have the best conditions for it in 20 years. Activity on the band for both CQWW DX contests earlier this fall was incredible. Plus, in the 10 Meter Contest, you can work everyone, not just DX stations so the number of workable stations really increases. Plus, you can work the same station again on phone and on CW. But, if you prefer, you can also operate a single mode.
Remember, Technician class licenses can operate phone on 10 Meters, the only HF band this is permitted. If you have a radio that covers the band, put up a dipole, vertical, or bent coat hanger. The band has very little QRN, and even small signals can propagate worldwide. I once worked a station in Belgium on SSB running 0.3 Watts on the band. The band is also so big you can move away from QRM.

The 10 Meter contest starts at 0000Z on December 14. That is 6:00 PM on Friday, December 13, local time. We send a signal report and our state. DX stations send a signal report and a serial number.

Another 160 meter contest in December is the Stew Perry Topband Distance Challenge. This is a fun contest, and I like some of its unique rules. First of all, there are no multipliers. The score is just the total QSO points. Longer distances are worth more points. To facilitate point calculations, you send your grid square. Signal reports are optional. Your logging program will calculate the value of each QSO for you. If you run 100 watts or less, the points are multiplied by 1.5 and by three if you run QRP.

There are point multipliers for working other low power or QRP stations. Working a lower power station multiplies the QSO points by 2, and a QRP station is multiplied by 4. This is neat because, in other contests, the bigger station has to do the hard work of making the contact but gets no additional benefit.

Of course, you don't know what power the other station is using high power. Your logging program will assume that the other station is high power, but if the other station sends in their logs and is not high power, your score will be adjusted accordingly. So, after you send in your log, you see your score on their website. But it will rise depending on the number of low power and QRP stations you work as those stations send in their logs. So, your standing might move up or down depending on how many of these stations you work and how many of your competition worked.

This all means that those other stations tend to listen to weaker signals than they do in other contests, hoping the weak ones are worth more points. I usually work more DX in the Stew Perry TBDC than in other 160 meter contests.

The contest starts at 1500Z on December 28. It runs for 24 hours, but you can only operate 14 hours. This is a CW only contest, and spotting assistance is not allowed.

The first contest of 2025 will be the ARRL RTTY Roundup. It runs at 1800Z on Saturday, January 4, through 2359Z on January 5. It is RTTY only, no FT8/4. Send a signal report and state. DX stations will send a signal report and serial number.

DXpeditions

The DXpedition I am most excited about this month is to Bangladesh. This is a tough one. A combination of a difficult propagation path and few stations on the air makes it rare from this part of the world. I only have them confirmed on CW on two bands. A group of 18 operators will be running four separate stations. A big part of the effort will be to train new operators, especially youth. The operation is planned for December 13-19.

Big DXpeditions are not usually scheduled for the end of December or early January because of the holidays. But some hams go to warm locations for the holidays and do a little operating at this time. There are also a few DXpeditions for the ARRL 10 Meter Contest to some of the more common Caribbean countries. Keep an eye out for them.

That wraps up December and also 2024. The year sure went fast! Merry Christmas and Happy New Years to all!

**For W9XT's "all on one page" listing of DXpeditions, Contests. and Events for December 2024 and early January 2025 –
see the following page . . .**

W9XT's DXpeditions, Contests, and Events for December and early January 2025

W9XT's DXpedition picks for December and early January 2025					
QTH	**Dates**	**Call**	**Bands**	**Mode**	**Link/notes**
Bangladesh	Dec 13-19	S21DX	160-10	SD	

Modes: C = CW, S = SSB, D = Digital (may include RTTY)

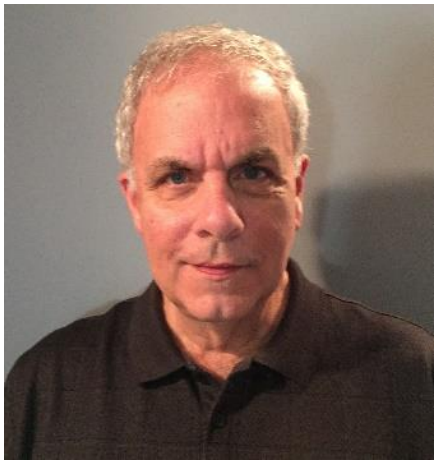
W9XT's contest picks for December and early January 2025					
Name	**Start**	**Length**	**Bands**	**Mode**	**Link**
ARRL 160 Meter Contest	2200 Dec 6	42	160	CW	https://contests.arrl.org/ContestRules/160M-Rules.pdf
ARRL 10 Meter Contest	0000 Dec 14	48	10	CW SSB	https://www.arrl.org/10-meter
Stew Perry TBDC	1500 Dec 28	24, work 14 max	160	CW	https://www.kkn.net/stew/stew_rules.html
ARRL RTTY Roundup	1800 Jan 4	30	HF	RTTY	https://contests.arrl.org/ContestRules/RTTY-RU-Rules.pdg

Dates/Times in UTC. Subtract 6 hours from UTC to get local (CST). HF = 80, 40, 20, 15, 10 Meters

W9XT's operating & event picks for December and early January 2025			
Event	**Dates**	**Details**	**Link/notes**
12 Days of Christmas	December 14-25		https://daily.ham-weekly.com/2023/12/5th-annual-12-days-of-christmas-event/

Vintage Amateur Radio

de: Bill Shadid, W9MXQ



One of the most difficult issues in a large collection of vintage (or any time period) complete ham radio operating stations is the necessary interconnection wires, cables, and apparatus. That said, and with apologies to those looking for a radio specific article[1], I will deviate from normal content and talk about some radio operation realities.

This article relates to a presentation that I made at the October 2024 meeting of the Ozaukee Radio Club. "Haven't we already seen this," you might ask? Well at that meeting about 24% (+/-) of the membership was in the room or on the Zoom™ client. So, for the 76% of the members who did not attend that meeting and for those of you who read the Newsletter without being an Ozaukee Radio Club member, here goes!!

So, to start, let me ask you these questions.

1. How many different amateur radio stations do you have?
2. How many different amateur radio stations to you regularly use?
3. If you have more than one or two stations, how do you keep the interconnection cables and adapters organized?
4. Taking item 3, above, to the next level, how do you manage station rotations with necessary cables and adapters when you have an active collection of over sixty unique amateur radio stations (sharing only tuners or amplifiers)?

So, herein I will present to you the **W9MXQ Interconnection and Adapter System** allowing station rotation inside of 30 minutes, including moving the radios on and off their shelf storage locations. Or, perhaps better asked, how do I move from being Net Control on the Drake Technical Net to participating in the Collins Collectors Net in 30 minutes on a nice Sunday Afternoon? (Be prepared, as a few other tips show up as we go along.)

W9MXQ actually consists of four Operating Positions and two Bench Positions:

Operating Positions: (Access to 120/240 VAC, Antenna, and Dummy Load)

1. Operating position one supports modern equipment (transceiver and amplifier) and is used for SSB and CW contacts using that modern gear[2].
2. Operating position two supports modern gear exclusively setup for working the Digital Modes (FT4, FT8, and RTTY at this point[3]. That setup has no amplifier.
3. Operating position three supports my current (in rotation) vintage station and matching vintage amplifier[4].

4. Operating position four is my rotating position for use in Vintage Radio Nets. They are setup on short notice, mostly for the Drake Technical Net (of which I am a rotating Net Control Station), the Kenwood Hybrid Net, the Swan (and Cubic) Technical Net, and the Collins Collectors Association Net. This position has access to a Drake L-4B Linear Amplifier[5].

Bench Positions: (Access to 120/240 VAC, Antenna, and Dummy Load)

1. Bench position one is adjacent to operating position one and is used for initial testing of new or vintage equipment recently received. For newer equipment it is a test stand to become familiar with a "new to W9MXQ" radio. For vintage equipment it is a test stand to slowly bring the equipment up to operating voltages and to make initial adjustments and minor repairs (such as new power supply components or alignments)[6].
2. Bench position two is away from any of the above positions and is where heavy repairs are made, such as metal work, tear downs, etc[7].

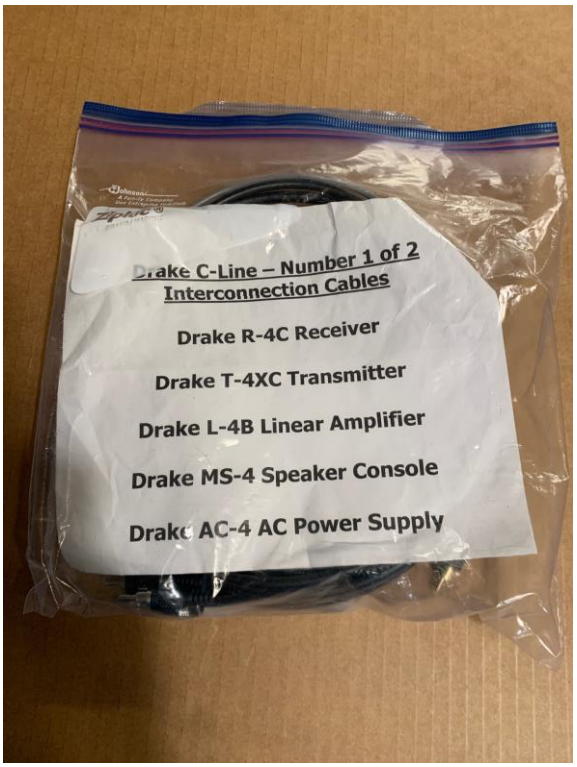
Why do I tell you all of this? To let you get the scope of the problem with identifying the peripheral items necessary to support the different stations.

To give you an idea of specialized cables necessary, I will take one of my favorite setups, the Drake R-4C Receiver and T-4XC Transmitter with the matching MS-4 Speaker with the AC-4 Power Supply (for the T-4XC) enclosed. When operated, it runs in operating position four where it can access existing connection lines for the antenna relay and ALC connections to the Drake L-4B Linear Amplifier installed in this position. So, except for those two connections, here are the necessary wire and cable jumpers between the receiver and transmitter for these "Drake Twins:"

- RG-62/U Cable Connection – for Signal Injection
- RG-62/U Cable Connection – for Carrier Oscillator
- Controlled Impedance antenna feedline from Transmitter to Receiver
- Shielded Anti-VOX Line
- Shielded Mute Line
- Shielded PTO Lamp Line
- Adapter Cable – non-standard connector to Phono Plug Adapter for the AC-4 Power Supply to L-4B Linear Amplifier relay line.

The first three cables are unique and really cannot be misplaced. The first two cables are not only RG-62/U, 90-ohm impedance cable but also are a specific length for this application. The last item, the adapter, is essential also as it is unique in my collection to this one use.

Here is my quick access package for all necessary material to setup this station:



Views of One-Gallon Zip-Lock™ Bag for Drake R-4C & T-4XC

Front View (with Contents Sheet) **Rear View (showing contents)**

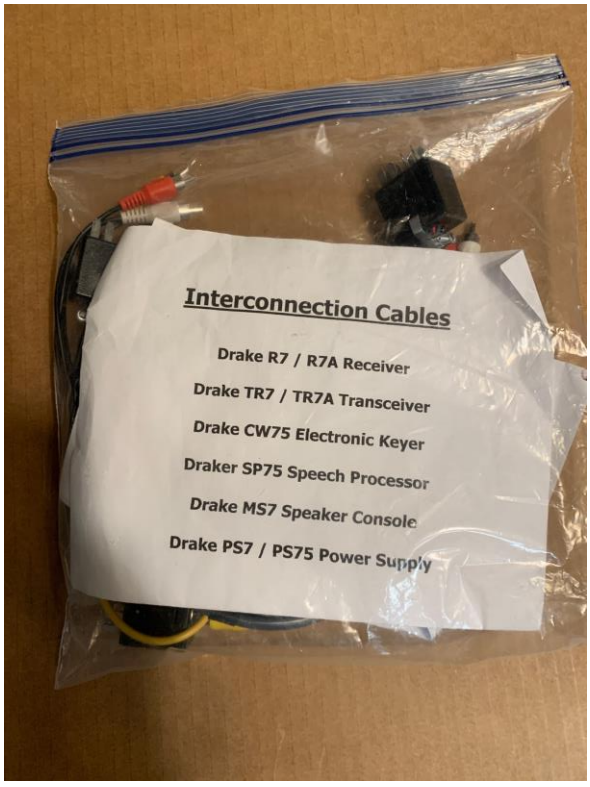
W9MXQ Photos

On the Contents Sheet, left picture, you can see that there is a reference to “Number 1 of 2.” That indicates that this bag is for Drake R-4C/T-4XC/L-4B page number 1 of 2. Until recently, I had two of the R-4C/T-4XC/MS-4/AC-4 Receiver/Transmitter pair. When I sold one of them, the applicable bag went with the package – so the new owner opens the bag, connects the radios, and gets on the air, right away.

> Important Note: Receiver/Transmitter pairs, such as the Drake R-4C/T-4XC, connect together and operate separately or they transceiver on one or the other unit’s VFO. Most use the same interconnection RG-62/U coaxial cables to connect the different signal lines. What is different – and the reason for carefully separate the different radio packages – is that each brand designs their circuits around a different length of cable. Receiver/Transmitter pairs that transceive together exist here from Collins, Drake, Hallicrafters, Heathkit, and Swan.

As a way to see more details of bag contents, let’s look at the Drake TR7 (or TR7A) Transceiver and the Drake R7 (or R7A) tie ups. This is a bit different in that this is an external receiver tied to a transceiver. The Drake tie-up goes a bit further in that it allows the use of the separate TR7 Transceiver’s receiver section and the R7 Receiver to receive signals on the same band at the same time. So, one can operate split with the TR7 transmitting while the R7 listens on the split (offset) frequency. The pair will operate separately or can transceive off the TR7 or the R7.

Here is my quick access package for the TR7 (or TR7A) and the R7 (or R7A):

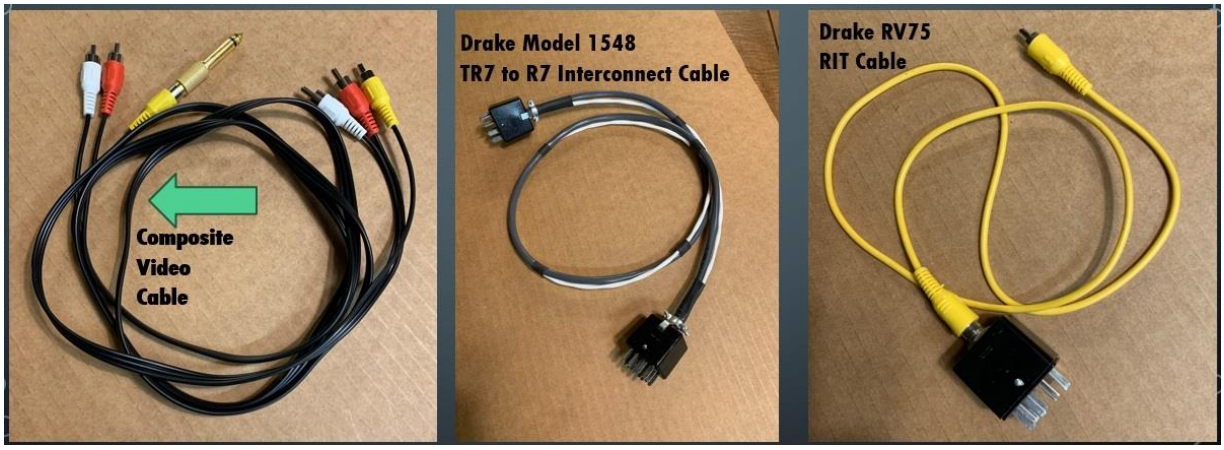


Views of One-Gallon Zip-Lock™ Bag for Drake TR7 & R7

Front View (with Contents Sheet) **Rear View (showing contents)**

W9MXQ Photos

These are the cables in the TR7 & R7 Bag – broken down to see details:



Here are the cables in the TR7 & R7 Bag

W9MXQ Photos

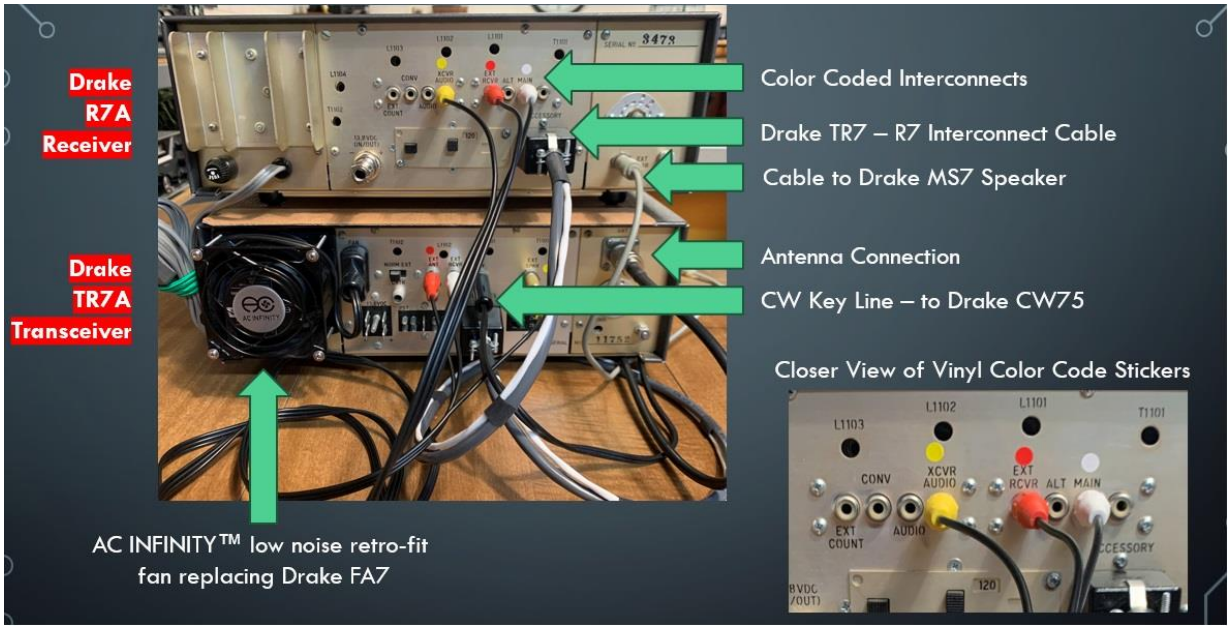
The above three pictures show the details of the bag contents. See the following for details of each item.

- The left picture shows an Adaptation of Composite Video Cables that I have in inventory from numerous devices I have purchased over the years. (Never throw anything away!!!) These are all the same with three shielded lines terminating in phono plugs. (There is always a yellow, a red, and a white wire.) Notice that in the upper left corner of the picture the yellow lead is plugged into phono socket/phone plug adapter. That connect to the speaker jack on the back of the TR7 (details further down).

- The middle picture shows a clone of the original R. L. Drake Model 1548 TR7/R7 Interconnect. It includes most signal lines and other switching lines except for the ones listed above. This is a custom made cable. For source information you may contact me for details at W9MXQ@TWC.com. Original Drake supplied cables would be nearly impossible to find.

- The picture on the right shows a connector necessary when the TR7 is run alone with the RV75 Remote VFO. (This connection is not necessary when using the original Drake RV7 Remote VFO[8].

See connection TR7 and R7 connection details, below:



Rear View of the Drake R7 sitting atop the Drake TR7.

Picture shows all connections made. Note inset at lower right. It is repeated below for addition details of Composite Cable color coding.

W9MXQ Photo

Important Note: The above note is setup just to show the interconnections. It is very important to say to you that you NEVER cover the top of a TR7 Transceiver. That blocks the ventilation openings for the Power Amplifier. Also, keep other items that can generate heat from below the R7 Receiver. The R7 is, unfortunately, blessed with a relatively weak AC power supply. It generates enough heat on its

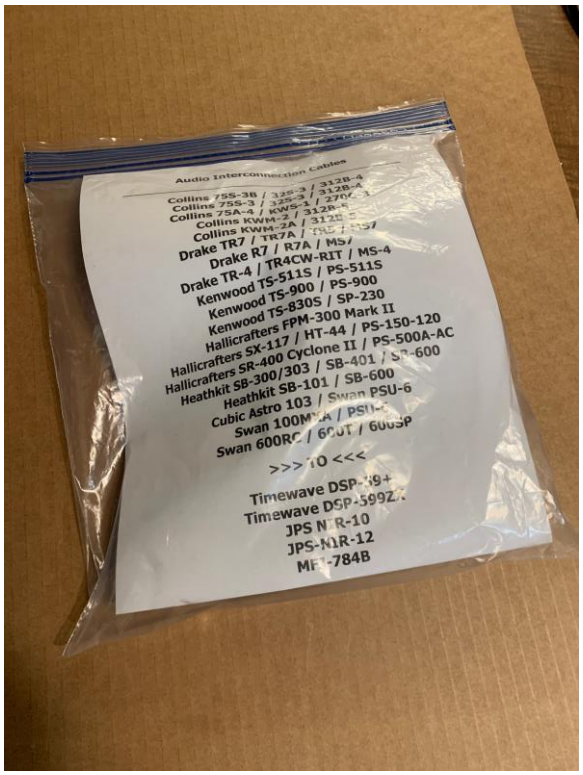
own and needs no further contribution. (The R7 can be powered by an external 12 VDC power source.) As I have often noted – I do not stack radios at W9MXQ.

Below is a closer view of the lower right corner of the previous illustration. Notice the color vinyl dots[9] applied to the back chasses of the R7 Receiver, in this case. This shortens the time needed to make the installation and setup. In the case of the Drake TR7 and R7, the screened description on the connectors is different on the two radios. Why Drake did that is a mystery to time – but it can be very confusing and perhaps destructive if gotten wrong. (The interconnections are clearly shown in the R7 Operating Manual but they illustration is very tiny.) Drake is unique in this issue among my collection. Such interconnections on Collins, other Drake units, Hallicrafters, and Kenwood radios is not so "mysterious" as this. Still, the color coded connectors are a quick confirmation of correct connection.

By the way, the vinyl dots show are easily removed, if desired – and, in my case, leaving no mark or residue.

Rear of the connected Drake R7 – showing the use of the Composite Cable
W9MXQ Photo

Another area of perhaps a confusing array of cables and interconnections is the use of external audio filters and Digital Signal Processing units. Here is a picture of that package – in this case, a "one size fits all" configuration whereby all the necessary audio cables are in the package that covers the list or radios on the Contents Sheet.



Views of One-Gallon Zip-Lock™ Bag for Audio DSP Units

Front View (with Contents Sheet) **Rear View (showing contents)**

W9MXQ Photos

I have a fascination for the use of audio filters, both analog and digital, and the effectiveness they can bring. They have shortcomings (such as being outside the AGC loop of the receiver) but with proper adjustment of the receiver they can be very effective. Their real advantage shows when trying to use vintage radios on today's bands. Older radios (in the scheme of my collection) such as the Hallicrafters SX-117 Receiver, benefit the most. The SX-117 Receiver has neither a crystal or mechanical filter, nor passband tuning for interference rejection. (It does include a Notch Filter.) At W9MXQ, several different Digital Singal Processor (DSP) units are used. They include:

- Timewave DSP-59+ (Timewave Technology, Inc.) (www.timewave.com)
- Timewave DSP-599ZX (Timewave Technology, Inc.) (www.timewave.com)
- JPS NIR-10 (JPS Communications, Inc.)
- JPS NIR-12 (JPS Communications, Inc.)
- MFJ-784B (MFJ Enterprises, Inc.) (www.mfjenterprises.com)

None of these are available any longer as new. Timewave still supports and provides updates for the DSP-59+ and DSP-599ZX. The DSP-599ZX is the most effective external DSP unit that I have ever used. The NIR-10 and NIR-12 are quite effective, especially the NIR-12) but no longer supported as the manufacturer is no longer in business. Some noise related products from this company were absorbed by Timewave, but not these two. The MFJ-784B is the latest of several DSP units from MFJ Enterprises. Like the

Timewave units, the MFJ unit is still supported by MFJ, as long as they remain in the support side of their business. New MFJ-784B may still be found on some dealer shelves. It is difficult to use but when properly adjusted it is quite effective. DSP and other audio filters, such as the Autek QF-1A Active Audio Filter and the Heathkit GD-125 Q-Multiplier are occasionally used – and can be effective but not matching the DSP products[10].

The proliferation of the **W9MXQ Interconnection and Adapter System** is a work in process with about a third of my current collection covered. All complex receiver/transmitter setups have been done. Some transceivers are pretty much a fixed cable on the power supply to connect to the radio and perhaps an AC cord, Even the AC cord may be hard wired. Such radios do not need a separate bag of cables and adapters. Radios such as the Gold Dust Twins (Collins 75A-4 and KWS-1) have a complicated, heavy, and involved interconnection system that includes mechanical parts – not suitable for bagging. That assembly is stored in the back of the matching 270G-3 Speaker. So, one adapts where one can.

Generally speaking, when doing an in person presentation on this subject I close with the statement that, “The Solution is in the Bag.”

When you read these articles, remember Bob Bailey, W9DYQ, and his work to proof-read the finished work. Not only proofreading, but he also contributes ideas and suggestions as to content. We have collaborated in collecting vintage radios for all of our adult lives.

I appreciate that you read my articles. Remember that I am open to questions and comments at my email address, W9MXQ@TWC.com.

Notes:

[1] I am a small business owner as a retirement “stay in the game” project. Annually I have a rather crushing amount of paperwork and contacts to make in a very short period of time to develop the next year’s plan. So, this is when I do an article that takes less time to develop. The articles on radio specific items take a lot of research. Believe it or not, I do not know everything off the cuff, and I need to look to the opinion of others more often than you might think!!

[2] This is a Yaesu FTdx-101MP Transceiver and Ameritron ALS-1300 Linear Amplifier.

[3] This is a Yaesu FT-991A Transceiver.

[4] This is currently a Cubic Astro 103 Transceiver (vintage 1981) and Drake L7 Linear Amplifier (vintage 1981). This station is in rotation – sometimes weekly but many times it is longer duration.

[5] This currently a Kenwood TS-900 Transceiver, VFO-900 Remote VFO, PS-900 Speaker/Power Supply (vintage 1973) driving the Drake L-4B Linear Amplifier (vintage 1969).

[6] This is currently the location of an Icom IC-7300 HF Transceiver that came from an abandoned storage facility unit. A friend bought the contents of the abandoned storage unit and offered the IC-7300 at a price that was too tempting to pass up!! The IC-7300’s

internal Lithium Ion battery had completely discharged. I have been leaving the radio connected to a low current 12 VDC power source to get the battery to function properly,

[7] This is currently occupied by a non-ham project. These things do happen, occasionally.

[8] The RV75 Remote VFO was originally designed for the Drake TR5 Transceiver. The adapter cable shown allows it to work with all features with a Drake TR7 or TR7A Transceiver.

[9] The color vinyl adhesive backed dots are available from Amazon™ using the description "JANYUN 26656 Pieces Colored Dot Stickers." The included 26,656 dots should last a lifetime – and more!! These should be available at office supply stores, like OfficeMax™, Office Depot™, Staples™, or others where you live.

[10] The external DSP and Audio Filters have been covered in earlier installments.

Drake TR7 Transceiver – Introduced in 1977

Blogspot.com

Upcoming Events

de: Tom Trethewey, KC9ONY

12/01/2024 to 12/31/2024 – Youth on the Air (YOTA) Month
https://youthontheair.org/yota-month/

12/30/2024 – YOTA Contest
https://www.ham-yota.com/contest/

1/25/2025 to 1/26/2025 – Winter Field Day
https://winterfieldday.org/
https://winterfieldday.org/downloads/2025-rules.pdf

3/16/2025 – Jefferson, WI – Tri-County Amateur Radio Club Hamfest
https://www.w9mqb.org/SwapFest/

4/26/2025 – Cedarburg, WI – Ozaukee Radio Club Spring Swapfest
https://ozaukeeradioclub.org/2025-spring-swap-fest/

5/16/2025 to 5/18/2025 – Xenia, OH – Hamvention 2025
https://hamvention.org/

Classified Advertising
For Sale & Wanted Items
Ozaukee Radio Club Members

de: Bill Shadid, W9MXQ

Classified Advertising for Ozaukee Radio Club Members is a members only feature. (Members may post for non-member friends, however.) Contact advertiser for details. The Newsletter Editor has no knowledge of any sale items (unless he is the seller!!)..

Ozaukee Radio Club is not responsible for any purchases and cannot be involved in any buyer/seller agreements or disagreements – all sales are final other than what you work out between the buyer or seller.

Advertisements will be accepted up to the 10th of the month before Newsletter publication.

Icom IC-751A HF Transceiver

160 – 10 Meters, including 60, 30, 17, and 12 Meter WARC bands. All mode, AM, FM, LSB/USB, CW, and RTTY. 100-watt output on all modes. Icom desk and hand microphones plus all manuals included as is original packaging. Requires 12 VDC Power Supply. Radio is in good operating condition and is clean. Asking price: $300 (NEW PRICE) (Will negotiate for a reasonable offer.)

Also, Icom IC-SM-6 desk microphone available for $100. ($90 if sold with radio.)

Contact Jim Albrinck, K9QLP. albrinck@att.net

Ozaukee Radio Club Minutes of Membership Meeting. 11/13/2024

De: Ken Boston, W9GA Secretary

The monthly ORC meeting occurred at the senior center, along with a streaming version held via Zoom. ORC Pres Bill K9GN began the meeting at 7:31 PM, a go-around was conducted. Zoom attendees were also in attendance and were also introduced.

Program:

N9VSV Jeananne introduced tonight's speaker; Stan WB9RQR, who talked about building a basic radio receiver; the crystal set. Stan, being fascinated by the concept of a receiver that requires no external power to extract sound from the airwaves; explained the variations in the simple design of these receivers. Starting with a piece of wire, a crystal [rectifier], and a high impedance headphone, he then added components like coils and capacitors to refine the design. Finally adding a battery powered audio amplifier to a classic circuit as built in a wooden case to illustrate a tunable AM broadcast receiver.

50/50 Raffle: This was won by Fred W9KEY, winning an award of $15.00

Scholarship Auction: Gary W9XT auctioned a homebrew portable 144 MHz antenna, and a few paperback books.

Committee reports: [no reports: programs, 1st VP]

PRES: Bill K9GN made note that a review of our bylaws is of concern and needs attention soon.

RPT VP: Tom KC9ONY is still waiting on our tower climber to perform some needed maintenance; system is performing well, 222 link to 10 meters also performing well.

Treasurer: Gary N9UUR provided the recent report, which are on tables, Cash in checking is $2038, Bank CDs and MM accounts are solvent; and 36 members have already renewed their ORC membership. K9QLP moved, KC9FZK 2nd to accept, motion carried.

Secretary: Ken W9GA; minutes are posted; KC9FZK moved to accept, N9VSV 2nd and motion passed.

STEM: Pat W9JI; the teaching event at the West Bend library went well and was a lot of fun to do; Had several kids in the early teens participating in the 3 hour time frame. Radios were assembled and they learned how to solder. [the tips of the irons became unusable from corrosion due to the solder supplied, switched to rosin core, and had better luck.] Pictures to be posted to the webpage soon, and one young man is interested in getting his Ham license!

TECH: Gregg W9DHI reports no problems.

OLD business: no old business.

NEW business: W9JI: Elections for club officers will be held in January [2025] with most incumbents returning on the ballot. Still need candidates for 2nd VP and Repeater VP [KC9ONY is retiring]

Adjournment: WB9RQR moved to adjourn, motion carried; time end was 9:05 PM. There were 20 in-person attendees, 11 zoom attendees.

Respectfully submitted;

Kenneth Boston W9GA, Secretary

Notes from the 1st Vice-President

de: Jeananne Bargholz, N9VSV

This Month's Meeting:
Wednesday, December 11, 2024, 7:30 PM

This Month's Program:
WSJT – It's not just FT8 by Gary Sutcliffe, W9XT

FT8 is the most popular digital mode, but it is just one of many in the WSJT suite. This presentation covers the modes available in WSJT, and the situations where they are the most effective.

Come and learn about these different modes, what bands and propagation types are most effective, and get a few tips for operating!

Upcoming Meeting Programs

2025:
January: Annual Meeting/Election of Officers and Trivia with prizes (if time allows)
February: Pat Volkmann, W9JI – The Collins 310B Exciter
March: Gary Sutcliffe, W9XT – POTA – Radio Fun in the Park
April: Don Zank, AA9WP – Ozaukee ARES and Severe Weather Reporting

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2024 Wrap-up and Call for 2025 Programs

Wow! This is the last program column of the year. When I look back on the programs we had in 2024, I can't help but be in awe of the variety of topics. We had presentations on amateur radio stamps, shack fires and rebuilding, antennas, batteries, contesting and Field Day, how repeater receivers vote and operate, the mystery behind the Drake TR5 Transceiver, rebuilding rotors, Project Night, and building a crystal radio! We'll be adding the WSJT digital modes presentation to the list after our December meeting. We even had a fun go at trivia! A huge thank you to our presenters: W7UUU, WT9Q, W9PEM, NE9N, W9XT, W9JI, W9GA, W9DHI, W9MXQ, N9UUR, WE9F, W9KEY and WB9RQR. Dare I say that without you, I think our meetings would be quite dull.

Some clubs don't have monthly programs. We are fortunate to have folks in our club that are very knowledgeable and capable of putting presentations together for us. We also have folks in our club who have no experience with creating a presentation, but they are

brave enough to get in front of the room to share something about which they are passionate.

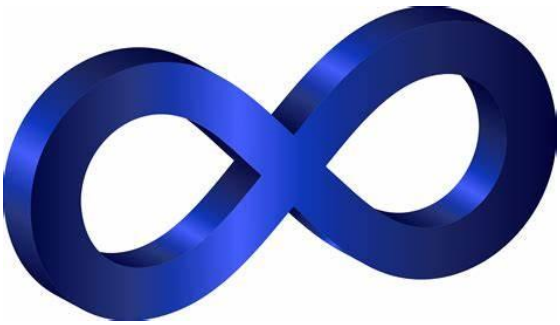
I ask you to think about the following: Have you been an Elmer to someone? Do you have a new or different radio? Are you working with a new mode? Do you have an operating routine? Have you had a complete failure where you learned something valuable? We want to hear your stories. We need presenters for our monthly meeting programs. Programs can be on any ham radio-related topic and are usually 20-30 minutes. Share your knowledge! The 2025 Program Calendar is filling up quite nicely but there are openings. If you have an idea and would like some help putting a program together, contact me at: iamn9vsv@wi.rr.com or 1stvp@ozaukeeradioclub.org

Thanks for putting up with me – especially what I guess you could call my "mic-fright." I can talk on the radio with absolutely no fear but why I hesitate in front of a small crowd still stymies me. But assuredly, if I can do it, anyone can. I hope to hear from you!

ORC Meeting Agenda

11 December 2024

1. 7:15 – 7:30 PM
   Check-In and Introductions
2. 7:30 PM Call to Order:
   President Bill Greaves (K9GN)
3. Announcements, Bragging Rights,
   Show & Tell, Upcoming Events, etc.
4. Program: Gary Sutcliffe
   WSJT – It's not just FT8
5. President's Update:
   Bill Greaves (K9GN)
6. 1st VP Report:
   Jeananne Bargholz (N9VSV)
7. Repeater VP Report:
   Tom Trethewey (KC9ONY)
8. Secretary's Report:
   Ken Boston (W9GA)
9. Treasurer's Report:
   Gary Bargholz (N9UUR)
10. Committee Reports
11. OLD BUSINESS
12. NEW BUSINESS
13. Adjournment



Ozaukee Radio Club Swag Spot

de: Jeananne Bargholz, N9VSV

Listing of available Ozaukee Radio Club Swag Items for your review and selection . . .

Tumbler – Front

Tumbler - Back

Tumbler Caps

Personalized Polar Camel 20oz Tumbler
$33.00 (with standard cap) $36.00 (with slider cap)
9 colors available: black, red, royal blue, teal, purple, dark gray navy blue, maroon, and green. The font is standard; all you need to decide is "just callsign" or "name and callsign." If "name and callsign," then name on line one or on line two?

Name Badge
$10.00
Magnetic "clasp;" one size fits all
The font is standard.

Personalized Cap
Khaki cap is 100% Cotton w/Velcro closure: $33.00
Navy Blue cap is 65%/35% Polyester/Cotton w/plastic snap closure: $30.00
(When limited stock of the blue hat is gone, we will offer a blue that is identical to the Khaki style.) Font is standard; all you need to decide is name on line one or on line two?

We have an ordering option on our Webpage that includes PayPal costs:

https://ozaukeeradioclub.org/homepage-academica_pro_3/orc-gear-swag/
This is a great option if you don't attend meetings regularly – or just contact me and save those costs. If you DO attend meetings somewhat regularly, just contact me at and let me know what you want. You can pay me for your items at the next meeting.

Questions? Ready to order? Contact me at:

1stvp@ozaukeeradioclub.org

I'm also in the roster.

The Back Page

This Month's ORC Meeting
Hybrid In-Person/Zoom Meeting
11 December 2024

Program:

WSJT – It's not just FT8

Gary Sutcliffe, W9XT

7:00 PM – Doors Open

7:15-7:30 PM – Zoom Check-In

7:30 PM – Meeting Begins

NEXT MONTH
Hybrid In-Person/Zoom Meeting
8 January 2025

Program:

Annual Meeting/Election of Officers and Trivia (if time allows)

7:00 PM – Doors Open

7:15-7:30 PM – Zoom Check-In

7:30 PM – Meeting Begins