



Official Publication of the  
West Allis Radio Amateur Club

# Hamtrix

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Volume 71, Issue 11 November, 2022

## NOVEMBER CLUB HAPPENINGS

Meeting

**November 15, 2022 7pm**

New Berlin Community Center  
14750 W. Cleveland Ave.

New Berlin, WI

Between Moorland and Sunnyslope  
Presentations

To be announced

Premeeting dinner

New Berlin Ale House 5:15pm

16000 W. Cleveland Ave

West of Moorland Rd.



**NUT NET**

3.985mhz

Monday-Saturday

8:15am CT

**NUT NET**

Breakfast

8:30am fourth

Tuesday

of the month

**Milwaukee-Florida Net**

Every Day on 14.290 Mhz

7:00AM - 9:15AM ET

6:00AM - 8:00AM CT

## NOVEMBER MEETING DATE CHANGE

DUE TO A BOOKING CONFLICT, THE MEETING IS BEING MOVED TO TUESDAY, NOV 15TH

M	T	W	T	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



**2023 Dues due see page 6 for more details**

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## From the president

### The Power of the Collective

Thank you for giving me the privilege of being your President for the coming year. I spent a year in training as VP and have come to the realization that I do have big shoes to fill. No doubt my path will not always be smooth as I learn, do, and grow as I serve the Club.

This brings me to what I call the “Power of the Collective” Some communities in Africa have a term for this: “Ubuntu”. Indeed, it takes a village to raise a child; and this is how I see my role as the leader of the Club, the bus driver of WARAC. I drive the bus and you tell me where we should go – the path we should take.

Here is where I humbly ask for your assistance. It is difficult for a small group of members to maintain the same level of activity over a sustained period of time. Sooner or later for whatever reasons that may come before us we lose steam and that results in a general lowering of the activity in the Club. I would like to for us to leverage the Power of the Collective and come together with all our strengths and reenergize our Club. What will make our club more of a success is us all coming together as a collective group, sharing the load and producing our desired outcomes.

- I would like to see our membership grow by 10% in the coming year
- I would like to have meaningful activities at our monthly meeting
- I would like to see some activity on a local repeater (a net) on a less frequent basis
- I would like to have one or two outreach activities where we get to interact with the larger community.
- I would like to encourage the building of inter-personal relationships using Amateur Radio as the locus of interest. Oh yes, social time is indeed important!
- I would like see members (and guests) share their technical and other Ham Radio adventures with the collective so we can also learn and grow together

Now these may seem lofty targets. I believe however these are very achievable if we take advantage of the Power of the Collective.

Here is a quick story that I happened to read several years ago that illustrates the need for all of us to come together.

This is a story about four people named Everybody, Somebody, Anybody and Nobody. There was an important job to be done and Everybody was sure that Somebody would do it. Anybody could have done it, but Nobody did it. Somebody got angry about that, because it was Everybody’s job. Everybody thought Anybody could do it, but Nobody realized that Everybody wouldn’t do it. It ended up that Everybody blamed Somebody when Nobody did what Anybody could have.

Looking forward to a productive year.

Feroz, WU9N

## Editor's Corner

I want to thank our board for keeping the Club going. We now have a new president new vice president, and a new secretary! It's good having all positions filled. If anyone want to take on one of the other small jobs needed to have the club run smoothly, let us know.

Since the last Hamtrix the KA9FZR QSO party, mobile was on the road for the ILQSO party. See pg 8 for Michael AA9RK write up on his first mobile CW trip. We had a great day. Traffic was light, weather was great, what more could you ask for!

Last Saturday October 29 I did an upgrade on my fan antenna. The 40 meter and 30 meter wires were old and needed replacement. While I was at it I decided to replace the coax and center connector. This was done on my roof where the tripod for the tri-beam is located. Mike WO9B volunteered to help. It went well. I now have an antenna that, with a little luck, should survive for many years. I had a fun time but I was tired after it was done!

Well enough for now.

Frank KA9DZR



# WARAC

## Find Us On The Air

**VHF Simplex 146.55 Mhz**

Looking for a Club Member to chat with? Fire up the VHF rig and give a shout out on the VHF Simplex Frequency 146.55. You'll be surprised how often someone is listening. Hit the PTT and say "Hello"

**DMR - BM TG 3155 WI State**

The WI State 3155 TG is available on all the local DMR Repeaters AND via your HotSpot. Put yourself monitoring and come find a Club Member

**Nut Net - Mon to Sat on 3.985 Mhz @ 8:15 AM**

Join The Nut Net on 80 Mtr SSB from 8:15 to 9:00 AM Mondays thru Saturdays. Check-ins are from all over WI. You'll be a Nut Netter regular in no time. This is a general discussion net that gets your day started out right.

**Milw - Florida Net - Mon to Sat 14.290 Mhz 7:00 AM**

Join Tom, K9BTQ, for this early morning Check In Net, Mon thru Sat on 20M from 7:00 AM to 8:00 AM. Get the news to get your day started out just right.

**6 Meter Chat - Wed, Fri 50.160 Mhz @ 9:30 AM**

Paul, W9PCS, hosts this informal 6m online get together on Wed and Fri starting at 9:30 AM. This is a round table discussion and everyone is welcome to drop by and join in.

## WARAC General Meeting Minutes - Oct 11, 2022

Club meeting was called to order by Feroz Ghose WU9N @ 7:00 pm. Attendance: 12 club members, 1 visitor Dave Ingold W9SXG.

Wisconsin surplus WCTC auction site: Lots of stuff, laptops, IT and misc items. Trunk 2 Trunk: Rained. Spirits high, great idea...see you in the spring or September.

**Hamtrix Minutes:** September general Meeting minutes was accepted and approved. Board Meeting - Treasurer's Report: Good order no specifics.

**JOTA Activities:** Camp Oh-Dakota near Burlington, all weekend. 10/15 Work them if you can't show up.  
SSB: 3.940-3.090 7.180-7.200 14.290 18.140 21.360 24.896 28.390 50.160 CW: 3.570 7.030 14.060  
18.080 21.140 24.910 28.180 50.160

Holiday January Meeting: Ale House (or equal) in lieu of a normal meeting.

### Elections: General Officers Elections for 2023

President: Nominated: Feroz Ghose Approved  
Vice President: Mike Johnson Approved  
Secretary: Bill Dargis Approved  
Treasurer: Bill Reed Approved  
Committee Member At Large: Tom Macon Approved  
Committee Member At Large Phil Tollefson

**Sendik's Fund Raisers:** Fairly successful this past year. Still interested in continuing for 2023. Frank in charge of setting it up.

**IL QSO Party:** KA9FZR Team will be mobile this Sunday, Oct 16th. CW only on 40 and 20 meters only.

**Silent Key: WA9RUX, Bob Perkle**, 72 years old, West Allis resident and club member for years. Bob passed away April 7th. Graveside service on Wed, Oct 19th at 10:00 AM. Bob was remembered as an active club member and steward of Field Days Past.

Membership Renewal: Due November 1st. \$15 for standard, \$10 Retired. Paypal is preferred, but checks are accepted.

**Simplex Gathering on 146.55:** No formal meeting these days. Unofficially the club members jump on the frequency. Monitor it. Say hello. Possibly set up a once a month net???? Ideas are welcome.

Meeting Adjourned at 7:45.

Respectfully Transcribed and Submitted

From Mike Johnson WO9B notes.

Bill Dargis KD9BJZ

• —• —••

Secretary WARAC, November 1, 2022

**2022 Challenge for our membership. Have someone you meet, Ham or Ham wannabe come to a meeting this year!**





Nov 2022

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Hamtrix

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By Michael Johnson, WO9B

## Nits and Lice Edition

It's time to clear out the list of miscellaneous items that crop up, too small for more than a paragraph but too good to pass on. So this month it is time to pick the fuzz from your digital belly button....

**AnyTone Fun:** The AnyTone 878 has a ton of capabilities all buried in the documentation. If you have the time and a Rosetta Stone, you can certainly figure it all out. For me, the fun is stumbling on features that I suddenly have a use for. This month I've hit upon two that are really helpful.

**Scan List:** I've been using Scan List for my base station 578, but recently have programmed the 878 to scan simplex and a few repeater frequencies. It is really useful. So now I have VFO A set to BrandMeister (which monitors 6 Static TalkGroups) and VFO B is happily scanning 3 or 4 analog frequencies. Nice.

**Last Called:** AnyTone lets you select the radio response to a channel on the scan list that becomes active. The Revert Channel setting is interesting. I have mine set to Last Called which means that if any activity occurs during a scan, when I hit the PTT button, the radio will revert back to the last scan channel that had activity. Very useful.

**M17:** This is an underdevelopment Digital Voice mode that is kind-of / sort-of gaining traction. If you have a hotspot, it is accessible. It also is available via the internet directly. In the spirit of "Hey, I've heard about that", here is your wake-up call. Go check it out. Better yet, go make a QSO via the mode. It won't bite. <https://m17project.org/>

**QDX Firmware Update:** QRP Labs has released another update to their very popular QDX Digital Transceiver. V1.05 continues the hackers spirit that is certainly at the heart of this fun to play with little black box. Here is the site with all the info: <http://qrp-labs.com/qdx.html>

**FT8 CQ Only:** Keeping up with the various updates to the WSJT-X digital package is almost a full time job. I use FT8, but not daily. Someone pointed out the little CQ Only checkbox in the interface. WOW is that USEFUL. On the very cluttered bands, this reduces the reported stations to just those calling CQ.

**VARAC Mail Box Function:** The newest release does forwarded mail box function now. Well, kind of at any rate. Check it out and grab the latest version: <https://www.varac-hamradio.com/>. —. —.



**DX UPDATE:** I will try a little different format for DX this month that should be easier to read

If you were not able to work TY0RU in Benin try **TY5AF** November 22-29. The TY0RU team is now headed to Togo as I write this. Call will be **5V7RU**. They decided to stay in Benin a couple days longer than planned as Togo customs would not let them pass because of terrorist threat. They finally were allowed.

**9M6NA** Labuan Island IOTA OC-133 November 23-29. Because this is a remote operation NO IOTA CREDIT will be given

**T8YA T8AR** Babeldaob Island Palau November 19-28

**T88WA** Palau November 2-14

**T88PB** Koror Island Palau November 23 to December 4

**TL8AA TL8ZZ** Central African Republic November 12-26

**A35FX** Tonga November 2-20

**DX0NE** Spratly Islands until December 31

IN THE FUTURE DXPEDITION TIMELINE

### Propagation:

Propagation continues to be excellent on 10M and 12M. It of reminds me of the old days when you could work the world with low power. Now might be the time to try out a little QRP and get the antenna that will work best for you. I have given it a try and it is fun and challenging.

### Contesting:

The contest season is upon us. From my calendar it looks like state QSO parties are over until February 2023.

ARRL EME contest November 12-13

ARRL Sweepstakes SSB November 19-21

CQ WW DX CW Contest November 26-27

Check page 77 in the November's 2022 QST for more contests.

For more details on the above contest and others contests check out:

<https://www.contestcalendar.com/contestcal.html>

### Special Event Stations:

For special event station listings (there are many) check out:

<https://www.425dxn.org/index.php?op=wcal>

If you have further ideas or suggestions for this page please let WA9BZW (Al) know. [wa9bzw@arrl.net](mailto:wa9bzw@arrl.net)



## West Allis Radio Amateur Club, Inc. MEMBERSHIP APPLICATION

Name _____		Cell _____	Handle _____
Address _____			
City _____	State _____		Zip _____
Phone _____		Email Address _____	
Spouse's Name _____		Wedding Ann. _____	Birthday _____
License Class _____		Expiration _____	Licensed Since _____
Membership In <input type="checkbox"/> ARRL <input type="checkbox"/> Amsat <input type="checkbox"/> Other _____			
Operational Station <input type="checkbox"/> Fixed <input type="checkbox"/> Mobile		Bands: _____	
Would You Be Willing To Serve <input type="checkbox"/> On A Committee? <input type="checkbox"/> As An Officer?			
Club Activities You Would Like To Participate In			
<input type="checkbox"/> Field Day	<input type="checkbox"/> Programs	<input type="checkbox"/> Sweepst	<input type="checkbox"/> Hambriz
<input type="checkbox"/> Elmer	<input type="checkbox"/> Sunshine	<input type="checkbox"/> Education	<input type="checkbox"/> Community Service
<input type="checkbox"/> Public Relations	<input type="checkbox"/> Scholarship	<input type="checkbox"/> QSO Party	
Class Of Membership: <input type="checkbox"/> Full <input type="checkbox"/> Associate <input type="checkbox"/> New <input type="checkbox"/> Renewal			
Dues Paid: <input type="checkbox"/> Full \$15.00 <input type="checkbox"/> Associate \$10.00			
<input type="checkbox"/> Family \$10.00 <input type="checkbox"/> Student \$10.00			
<input type="checkbox"/> Retired \$10.00			

I hereby apply for membership in the West Allis Radio Amateur Club, Inc. in the membership class indicated above. I agree to abide by the Constitution and By-Laws of the club and any rules or conditions that may be set forth in accordance with the Constitution and By-Laws.

Applicant _____	Date _____
Secretary _____	Date _____
Treasurer _____	Date _____
Accepted for Membership _____	Date _____

Meetings on the 2<sup>nd</sup> Tuesday of the month at:  
New Berlin Community Center  
14750 W. Cleveland Avenue

Bring your completed application to a club meeting or mail with dues payment to this address:  
West Allis Radio Amateur Club, Inc.  
P. O. Box 511381  
New Berlin, WI 53151-1381

[www.warac.org](http://www.warac.org)

October 2019

**Click on form for a "PC editable membership application"**

non-life members dues are payable on November first, with a sixty day grace period, after which membership is considered lapsed. Dues paid ANYTIME during the club fiscal year applies to that year only. So for example if someone pays next July, that covers dues through October 31st only.

Paypal is preferred by selecting and **using the friends and family option**. Of course, this avoids the club being charged a transfer fee. Note that this option is only available using a direct transfer from a bank account and NOT using the "credit" option. However, any form of payment is welcome.



## Nut Net Breakfast to start, AGAIN

Several years ago there was talk among Nut Net members that we should get to meet each other. A breakfast get together idea was started. It was open to all hams, XYL/partners and anyone who wanted to learn about amateur radio. Even visiting OM/XYL couples joined us.

So, on the fourth Tuesday each month at 8:30 am we will once again meet at Gensis Restaurant, corner of HWY 100 and Beloit Road, Greenfield, WI. Looking forward to seeing you, mark your calendar.

Phil, W9NAW



## "Illinois QSO Party 2022 - KA9FZR Mobile"

From Michael Falk (AA9RK)

To me, mobile ham radio operation means ragchewing on 2 meters, 220, or 440 FM while I drive. So while I've spent the past two years going down a CW contesting rabbit hole, CW mobile is a brand new experience to me. Frank (KA9FZR) and Mike (WO9B) were kind enough to invite me to join their team for the Illinois QSO Party, and I enthusiastically said yes.

So, the KA9FZR team spent Sunday, October 16th, 2022 in Illinois, as a mobile in-state station for their QSO Party. We operated CW only, on 40 and 20 meters. While we had paddles along, we sent our code almost exclusively using N1MM+ on a laptop, to drive an IC-7300 at 100 watts into a Screwdriver antenna mounted on Frank's back bumper. Speeds were moderate for modern CW contests; I sent at between 20 and 24 WPM for the duration of the contest.

As in the Wisconsin QSO Party, counties serve as multipliers for both in-state and out-of-state stations, and stations can contact mobile stations once per county. So, several stations contacted us in many different counties. We activated eight counties in the northern two tiers (Lake, Cook, Kane, DuPage, Ogle, Winnebago, Boone, and McHenry) over the course of nearly 4 hours and 200 miles driven.

The final tally was 249 QSOs, for a rate of 65 QSOs per hour. One of the best parts was that, since we were handing out new multipliers frequently, there were constantly stations looking for us. I don't think we had to



send a CQ call more than twice in a row all day without getting a response. One challenge was a loose connection which took us off the air in Ogle County (but was quickly fixed). Another was later in the contest, especially in Boone and McHenry counties, when multiple stations zero-beated us and three or four called at once, it was difficult to even pick letters out of call signs, and so almost every QSO included partial calls and repeats. 20 meters provided us with contacts to the coasts and to the southern US, and 40 meters was short enough that we could bag several other Illinois counties as well as stations all over Wisconsin.

After we ran out of counties to activate, we headed back up to Milwaukee County, and as per usual, we ended up at the Bosch on Highway 100 and Janesville Road for dinner. It was a relaxing end to a fun afternoon. I think the best thing I can say is this -- at the end of the contest, after almost 250 contacts and 4 hours, I was genuinely sad that it was over, and I was eager for more contest. See you on the bands next year!

The Milwaukee Repeater Club Presents our "Friendly Fest."



# AMATEUR RADIO FEST 2022

HAM RADIO,  
COMPUTERS & ELECTRONICS



Saturday, November 5th, 2022

8:00AM to 1:00 PM

Elks Lodge

5555 W. Goodhope Road

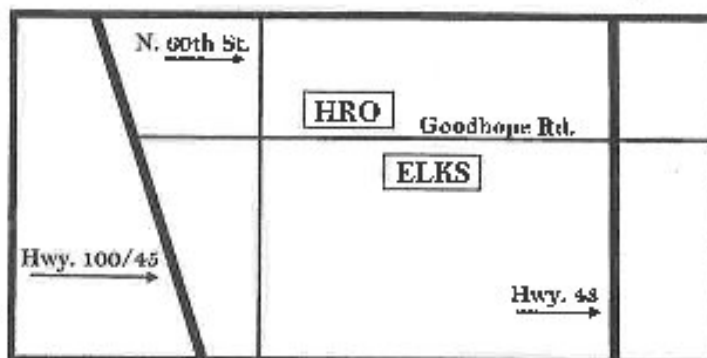
Milwaukee, WI 53223

(Across the street from HRO)

Admission Price: \$5.00 per person

Tables: \$10.00 per 8' table (add \$5.00 for electric)

Vendor Load-in @ 6:30 am Saturday



## AMATEUR RADIO & ELECTRONICS

New and used HAM and CB Radios, batteries, antennas, scanners, test equipment, wire, coax, cable, switches, computers, software and much more!

"Scouts providing food" - "Door Prizes" =

TALK-IN will be on the MRC Repeater, 146.910 Mhz, -127.3 PL

### FOR FURTHER INFORMATION:

Browse our web page: <http://www.mrc91.org>

Send us an e-mail: [kc9wqj@gmail.com](mailto:kc9wqj@gmail.com)

Call us: Karen KC9WQJ - 414-578-0492

\* Milwaukee Repeater Club

P.O. Box 511566

Milw, Wisc 53203

### Vendor Reservation - Please Print

(Each vendor must have an admission ticket)

Vendor Load-in @ 6:30 am Saturday

# of Tickets: \_\_\_\_\_ x \$5.00 = \_\_\_\_\_

# of 8' Tables: \_\_\_\_\_ x \$10.00 = \_\_\_\_\_

Electricity: \$5.00 = \_\_\_\_\_ Total: \$ \_\_\_\_\_

Company Name: \_\_\_\_\_ Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_

Address: \_\_\_\_\_

City/State: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_

E-mail Address: \_\_\_\_\_

We will notify you by e-mail or phone to confirm your table reservation

Send your order and check payable to: Milwaukee Repeater Club / PO Box 511566 Milwaukee, WI 53203

\* All tickets will be picked up at the entrance \*



The Fox Cities Amateur Radio Club (W9ZL)

An ARRL Special Service Club

# 2022 SWAPFEST

SUNDAY, NOVEMBER 6<sup>th</sup>, 2022



## Starlite Club

W2091 County Rd JJ  
Kaukauna, WI



**The FCARC Swapfest is an inclusive event for enthusiasts of amateur radio, computers, electronics, and other related curiosities and miscellanea. Everyone is welcome to attend!**

- **Buy, sell, and trade** electronics, computers, computer games, test & scientific equipment
- **On site VE testing – Walk-ins for testing are welcome from 9:00 AM until 9:30 AM:**  
Bring your current license and CSCEs (if applicable) and two forms of ID (one must be a picture ID) – cost is \$15 for the testing
- **Enter the raffle for great prizes.** Additional raffle tickets are only **\$2 each** or **3 for \$5**. You need not be present to win the top prizes. One raffle ticket is included with each admission!
- **Great food and refreshments available all day!**
- **Talk-in** on the wide area **146.76 p1 100** repeater – Need directions or just want to say “HI”?
- Admission is **\$5 in advance** or **\$6 at the door**. Children 12 and under are **FREE!**

Each admission includes one **FREE** raffle ticket! Advance purchase **8-foot** swap tables are **\$10 in advance** or **\$15 at the door (if available)**. Setup starts at 6 AM and general admission starts at 8 AM. Tables and admission tickets can be ordered by mail:

**FCARC Swapfest**  
**Anthony L. Mach, AB9IO**  
**773 Yorkshire Rd.**  
**Neenah, WI 54956**

**DON'T FORGET! PURCHASE TICKETS ONLINE AND PAY WITH PAYPAL!**  
**VISIT <http://www.fcarc.club/hamfest.php> AND ORDER ONLINE!**

## Earth-Moon-Earth Communication

<https://stationhypo.com/2020/10/11/earth-moon-earth-communication/>



On July 24, 1954, the Naval Research Laboratory (NRL) at Stump Neck, Maryland (now the Naval Surface Warfare Center in Indian Head, Maryland) sent and received the first human voice transmission to be bounced back to Earth from the Moon.

Moon bounce, also known as Earth-Moon-Earth (EME) communication, is a technique that sends radio wave transmissions from Earth to the Moon. The transmission is then reflected, or bounced, off the surface of the Moon and captured by an Earth-based receiver. The technology held promise for secure communications with Navy ships.

By January 1956, the U.S. Navy could transmit teletype signals to and from Stump Neck and Wahiawa on the island of Oahu, Hawaii. By January 1960, the Navy's Communication Moon Relay System began transmitting two-way radio communications.

Around midnight, on December 15, 1961, Chief of Naval Operations Adm. George W. Anderson

and Dr. R.M. Page, director of research for the NRL sent a message from Stump Neck to the USS Oxford in the Atlantic Ocean, approximately 2,414 kilometers (1,500 miles) from Maryland, via the Moon. This was the first time the Navy successfully transmitted a message from a ground station to a ship.

The event was not secret. The Associated Press wrote a small piece on it that was picked up and printed in the Washington Post on December 17. Following the success of the transmission, five-meter (16-foot) steerable parabolic antenna and transmitter were installed on the Oxford allowing for two-way communications.

At the same time the U.S. Navy was developing Moon-bounce transmissions, the National Security Agency (NSA) had begun developing signals intelligence (SIGINT) collecting ships. In 1961, the NSA commissioned its first SIGINT ship, the Private Jose F. Valdez, which cruised the coast of Africa in the Atlantic Ocean. Soon thereafter, the Joseph E. Muller was converted. Following the success of the Valdez and Muller, the Navy took on a larger role in the program. The Navy operated the next five ships added to the program for the NSA.

The ships, called Auxiliary General Technical Research (AGTR) ships, were much larger and faster



converted World War II LIBERTY and VICTORY class cargo-ships. These “research” vessels carried equipment and personnel to conduct oceanographic experiments to create a valid cover for their covert activities. The first was the USS Oxford, which received the first Moon-bounce transmission test in 1961, re-designated as an AGTR. In 1963, the Navy added the Georgetown (AGTR-2) and the Jamestown (AGTR-3). In 1964, it added the Belmont (AGTR-4) and the Liberty (AGTR-5).

oxford

These SIGINT ships needed a secure ship-to-shore communications system and high-frequency radio was unreliable due to the remote locations of the ships and vulnerability to foreign direction finding. A Moon-bounce transmission was the solution.

Following the 1961 Moon-bounce success, the Navy continued development on what was called the Technical Research Ship Special Communications System (TRSSCOMM). TRSSCOMM allowed a ship, anywhere in the world, to transmit a message by beaming microwave transmissions toward the Moon. The Moon, acting as a passive reflector, would bounce the emission back to receiving stations on Earth, located at 90-degree quadrants around the globe.

The first ground station for TRSSCOMM was located in Cheltenham, Maryland. The other three were Wahiawa, Hawaii; the village of Oakhanger, England (south-west of London); and Sobe on Okinawa, Japan. By 1964, TRSSCOMM had been researched, developed, tested, evaluated, and installed on the Oxford, which activated a link with Cheltenham to prove the feasibility of the program. The Navy then implemented the system in all the AGTRs and all four ground stations.

Featured Image: Communications Technicians operate a steerable antenna aboard the USS Oxford. The Oxford had an antenna and transmitter installed in the 1960s to allow for two-way communications via Earth-Moon-Earth (EME) communications. EME communication, or Moon bounce, is a technique that sends radio wave transmissions from the Earth to the Moon. The transmission is then reflected, or bounced, off the surface of the Moon and captured by an Earth-based receiver.

Source: [airandspace.si.edu](http://airandspace.si.edu)





**DON'T KEY LIKE A PHONE MAN**



## **SLOW SPEED CW QSO NET**

***Monday's - 8:00 PM - WB0AFB Repeater 147.045 + 127.3 Tone***

### **CW Practice**

One of the best and maybe the only way to get better at CW is practice. Having someone else who also wants to practice also helps. Just makes it more fun.

The West Allis Radio Club is going to try to help. We are running a CW practice net on Monday at 8pm The repeater is 147.045+ 127.3 the CW portion is on HF

Mike WO9B has been joining me and setting up some practice but we are open for suggestions on where to go with this. Come join us.

Officers and Board  
President

Vice President  
Feeroz Ghose WU9N

Secretary  
Dave Garnier WB9OWN

Treasurer  
Bill Reed N9KPH

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