

THE HAMSTER

March 2024

Official Monthly Newsletter of the Rochester Amateur Radio Club

Founded In 1932 - 50+ Years Of ARRL Affiliation



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PRESIDENT'S MESSAGE

Pat (KE0WWG) - President

March, the month that Spring starts! That is also where the term "Spring Cleaning" comes from where we are all deciding to clean a bunch of things out from around our houses.

Maybe you have got some radio gear, tools, parts, or whatever, that have been sitting around the house that are no longer being used. One great way to get rid of those items is to find someone who may be able to use them and we have a couple of ways to help – bring them to a club meeting, post on our RARC Groups.IO mailing list, list them free in the Hamster or bring it to a regional hamfest. If you wanted to sell it, just think of that as more money for other radio gear!

In the February meeting we had a very excellent turnout of attendees and some new faces, which is always exciting to see. Perhaps there is someone new that may find benefit in something from your Spring Cleaning.

And while you are doing this Spring Cleaning, try turning on your radio and throw your call out there. We have 4 analog repeaters active and 2 of those also do digital modes if you've got the radio that supports those. While the D-Star repeater's digital modes are currently simplex only at this time, the Yaesu System Fusion repeater is connected to the Wires-X network which allows you to communicate to the world if you'd like.

As always, if you would like to get in touch with me directly, please call or text 507.461.6008 or e-mail pat@theewok.net.

73!

REMINDER: 2024 RARC dues are due to the club treasurer by March 1, 2024.

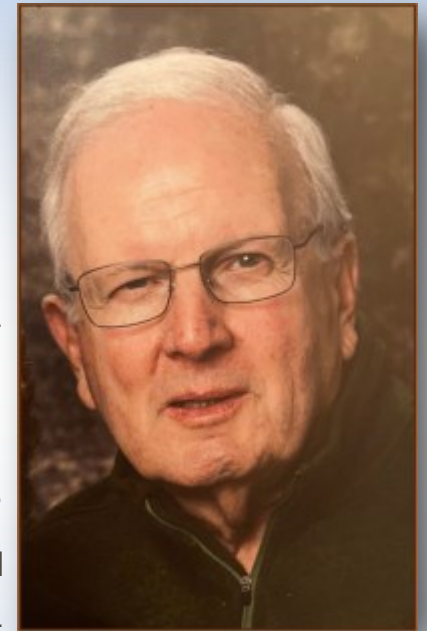
**Members who have not paid dues by that date will be dropped from the RARC roster. Please see the RARC website by clicking this [LINK](#) to pay your dues by credit card or PayPal. Dues can also be paid by mail at:
Rochester Amateur Radio Club Inc., PO Box 1, Rochester, MN 55903**



BOB DUBKE KOSIR (SK)

Robert E. (Bob) Dubke, (KOSIR), 82, of Rochester, passed away Monday, February 26, 2024.

Bob was born April 29, 1941 in Mankato, MN to H.P. and Miriam (Herr) Dubke. He was a graduate of Mankato High School and went on to obtain his Bachelor of Science in Physics and Mathematics from Mankato State. While at Mankato State, Bob met Mardell Stuedemann and they were united in marriage on June 25, 1966 in Glencoe, MN. Bob began teaching and then returned to college at the University of Colorado Boulder, to earn another Bachelor Degree in Electrical Engineering. Bob worked for IBM for over 20 years. He was a member and past President of the Rochester Amateur Radio Club, a life member of the IEEE, ARRL VE Coordinator and a member of Redeemer Lutheran Church. Bob loved to play golf, spending time with his Corgi, Henry and relaxing on his boat on the Mississippi River. He enjoyed coffee with friends and traveling with Mardell. He was always helping others, and could fix anything. Bob is survived by his loving wife of almost 58 years, Mardell; daughter, Karna (Russ) Halverson of Stillwater, MN and grandson, Lucas Halverson. Bob was preceded in death by his sister, Marilyn Cole, and by his parents.



A funeral service will be held 11:00 a.m. Tuesday, March 5, 2024 at the River Park Chapel at Macken Funeral Home, 1105 12th St. SE, Rochester, with Rev. Adam Koglin officiating. Visitation will be held 5:00-7:00 p.m. Monday, March 4, 2024 at the funeral home and one hour prior to the service on Tuesday. A private family burial will be held at Oakwood East Cemetery. , www.mackenfuneralhome.com



RARC TRAINING PROGRAMS

Dan Stroh (NOSPN) - Vice-President

Hello all. I was out of state during the February meeting so I asked **Mel, KCOP** to bring my HT test stand to the meeting for those who wanted to test their HT radios and the efficiency of their HT antennas.

Mel modified my test stand a bit to use a metal ground plane that he thought would make it work better. I hope that exercise was interesting and helpful for you all. I will bring the HT test stand in its original design again to another meeting this spring for those who might not have been able to get their HT radio and antenna tested in February. So bring your HT again to future meetings!!

In March I have permission from [Parks on The Air \(POTA\)](#) folks to use an indoor radio and fixed station antenna to do a demonstration of how to do a Parks On The Air activation as if we were at the Douglas Trail parking lot.

This will include how to use the Parks On The Air Spotting page and how to call CQ for POTA and how to upload a log for getting activation credit and giving Hunters credit for hunting us down.

We will be able to have multiple operators in the activation for those of you who would like to try it in a very easy and "no way to fail" situation with myself controlling the activation.

See you all in March!!

Dan

NOSPN





RARC FIELD DAY 2024

Taylor (WB0RSJ) Steve (W0STV) - Co-Chairs

Field Day 2024 is fast approaching!

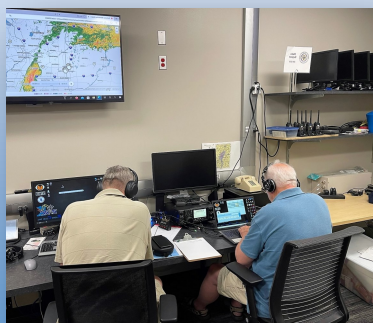
- At the February 2024 meeting, Steve (W0STV) joined Taylor (WB0RSJ) as co-chair for the event.
- The other discussion and recommendation was to again hold Field Day at Fire Station # 2 and the City EOC. We can expand this year to include a tower and beam and better overall setup. We may be able to expand to 3 stations too. Last year was last minute due to weather.

We're hoping to have better participation again this year. The EOC provides us with an accessible and safe location. Along with that, it has restrooms, air conditioning and a nice dining/kitchen area. While we realize that it's not a traditional "Field Day", it is a way to get together as a club and participate in one of the oldest ARRL events.

Please contact:

- **Taylor** (507) 923-3387 tbbauman@gmail.com
- **Steve** (507) 254-3993 W0STV@yahoo.com

if you have any questions, concerns or ideas!





March 2024 RARC ZOOM Online Login Info

OPTIONAL FOR THOSE NOT ABLE TO ATTEND IN-PERSON



Below is the ZOOM login information for the **March 12, 2024, 6:30 PM CDT RARC meeting** . The ZOOM login info is also posted via the [RARC email reflector](#) prior to the meeting.

- ◆ **When:** March 12, 2024 @ 06:30 PM CDT (US and Canada)
- ◆ **Join Zoom Meeting (click on the link below):**
<https://us06web.zoom.us/j/9876548873?pwd=T0JBWEFzSCtBYzhiazA1NTdDb2Rkdz09>
- ◆ **Meeting ID:** 987 654 8873
- ◆ **Passcode:** : #####

- **For audio only from a mobile phone:**

Call: (312) 626-6799 US (Chicago) **Meeting ID:** 987 654 8873 **Passcode:** #####



ARES

AMATEUR RADIO EMERGENCY SERVICE

**Steve (WØSTV)
Olmsted County ARES-EC**

The Olmsted ARES February meeting was informative and interactive. We are building a team that can effectively operate, and use advanced EM-COMM communications when needed. Olmsted ARES members will be required to register in 2024 to be on the primary call up list. You are requested to attend 75% (9 of 12) of the monthly training meetings and check into the Olmsted Sunday night ARES nets. This will not limit anyone from responding for ARES and does not include the Olmsted SkyWarn operations or certified spotters. It is for our trained Olmsted ARES personal, and equipment to rapidly respond to our EOC's and served agencies during a disaster. **We have been "ASKED" to take part in the planning and participate in the 2024 FAA air disaster drill at the Rochester International Airport this fall.** When a served agency asks you to be a part of their training, you know you are valued. Because of your invested time, purchasing equipment, to learn, train, and practice each month, this has happened. Thank you!!

Remember to use w0mxw@yahoo.com to forward information OTHER than by radio to the EOC's during SkyWarn, and ARES activation's when appropriate. If you have a Winlink account use w0mxw@winlink.org for SkyWarn and ARES activation's for the same information through radio or telnet.

We report emails check ins from both accounts during our Sunday night ARES nets at 9:00 PM on either the 147.255 or 146.820 repeaters both PL 100.

Olmsted SkyWarn training is scheduled for April 23rd 2024 starting at 6:30 PM at the Empire Event Center near the Rochester Airport. This will be the only in person advanced training session in Minnesota at this time. There will be virtual online advanced training. All Olmsted ham radio storm spotters that will be attending in person or will virtually train, are requested to register in advance to email "w0stv@yahoo.com" with your name, call sign and phone number and I will forward your information to the Olmsted EOC. If you have already replied thank you. This is very important to do ASAP, please do not forget. More later!

**Olmsted ARES Mission Statement:
To be so effective that you are able to help others.**



ARES

AMATEUR RADIO EMERGENCY SERVICE

Steve (WØSTV)
Olmsted County ARES-EC

The Rochester Red Cross has talked to me about forming a disaster damage assessment team in SE Minnesota using ARES. This team would respond to local disasters to report, and document the type, and area of damage that would be forwarded to FEMA through the Red Cross. The team leads need to be Red Cross volunteers, but the trained damage assessment members would not be required to be Red Cross volunteers, but will need to be Red Cross certified evaluators. We plan to have training this spring or early summer to qualify us to begin responding to disasters for the Red Cross. This will also be an asset for reporting damage after a SkyWarn activation. This may expand out to other county ARES groups depending on how this pilot program works. This will be an addition to Olmsted ARES being a communications and information asset when and where needed during emergencies.

The Olmsted EOC simplex VHF radio test on January 28th after the Sunday net was a success. All participants were able to communicate to the EOC station. Not every station heard each other. This will require net control to echo information from the field stations to make sure everyone hears the radio traffic when we use simplex frequencies. We will be duplicating this drill from the Rochester EOC after a Sunday net in February.

We decided Olmsted ARES members should find and order their own "Radio Communications" vest and magnetic vehicle signs. Quantity orders are not accepted because of limited supply chains. If you find a supplier that you are happy with please forward the URL in the RARCHAMS groups IO email for others to see.

Follow one of the following to join or use the Rochester Amateur Radio Clubs email reflector. You do not have to be a club member to subscribe. Olmsted ARES and skywarn will use this email extensively for preparation for call outs and updates.

Post: rarchams@groups.io

Subscribe: rarchams+subscribe@groups.io

Help: rarchams+help@groups.io

Olmsted ARES Mission Statement:

To be so effective that you are able to help others.



HAMSTER HINTS

Bob (KEØEXE)

I'm a big advocate of recycling. As a vintage radio enthusiast, and general "taker-aparter" of stuff, I tend to accumulate a lot of motors and transformers (among many other things). Those cores can be recycled, mainly for the copper, and--not as much--for the iron. A recent spot-price of copper was \$3.69/lb.

When I can, I do the metal-separation/recovery process myself, to get the profit. **Warning: This is not an activity for those who have little time or who are in a hurry; this is an inefficient activity with low payout!** However, I still do find it mindlessly relaxing, when I'm in the right mood. It can be a great thing to do in the summer, at the backyard picnic table, while I ponder something else and enjoy a beautiful day.

The typical tools required are a hammer, an old chisel, maybe a box-cutter knife, some beefy diagonal-clippers and needle-nose pliers, and imagination. There are two basic methods I employ, depending on which one I think will work best, on a given core. (1) The slower method is to disassemble--("No! No disassemble!" - soldier-robot "No. 5," from the 1986 film "Short Circuit")--okay, to remove the core laminations, first. This can be accomplished by loosening them, using repeated blows, from hammer or chisel. Even an crummy-edged chisel and/or the claw-end of a hammer can be pretty effective, to catch individual laminations. This breaks the varnish and allows the individual pieces of the E-core to be pulled-out, using a sharp pliers--which eventually allows the whole, wound-wire bobbin to be freed from its iron shackles (even unharmed, if desired). (2) The faster method is to cut through the windings, using a hammer and a *sharp* chisel, and then peel them "en masse" out of the still-intact iron core. This is made easier by using a big vice to hold your object of derision, while you mutilate its windings. **With either method, wear leather gloves.**



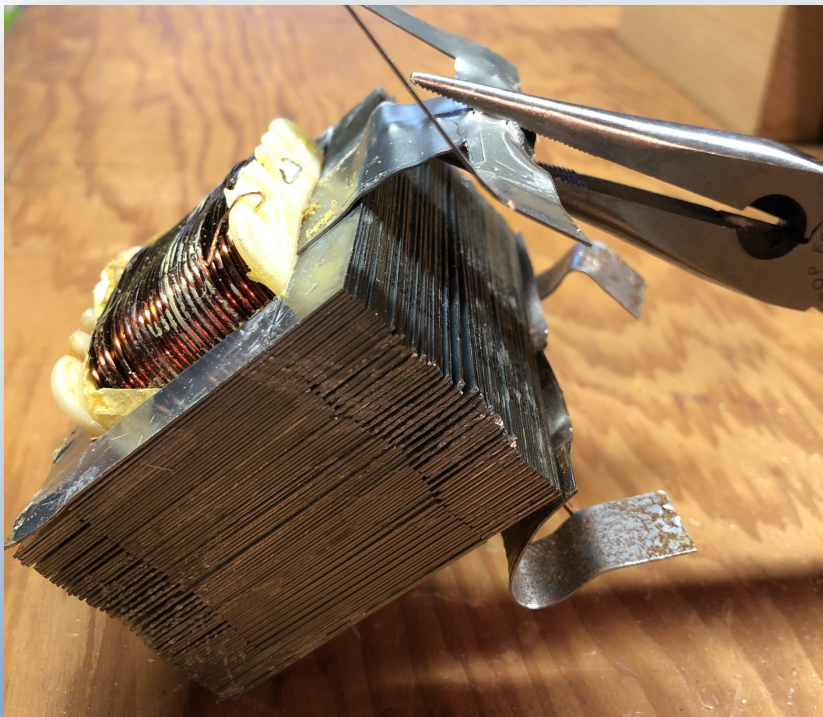
The main tools used



HAMSTER HINTS

Bob (KEØEXE)

There are many tricks to all of this, especially for removing the first few laminations (after that, it gets much easier), so experiment. I recently did this with a transformer I had salvaged from a microwave oven, years ago. The whole process took about an hour. I recovered about 5/8 lb. of copper, or about \$2.30 of value. As I said, it's not a terribly profitable business. On the other hand, if you find it relaxing, and do it "regularly," then after a while, you will have a bucket full of copper (many lbs.) that is actually worth taking to the scrap-metal place, to get a substantial amount for it. Go when the spot-price is high. (Of course, you may recycle the iron, too--but usually you won't get anything for that.)



Prying-out the first piece of "through-core" iron (an "E").



The laminations are almost falling out now.



HAMSTER HINTS

Bob (KEØEXE)



All of the iron core pieces, after removal



Try to get most of the *rectangular* E-core pieces out, first



HAMSTER HINTS

Bob (KEØEXE)



The final product: copper magnet-wire, for recycling!



CONTEST CORNER

Fred (K4IU)

Spring is just around the corner with the month of March marking the end of the formal Minnesota Wireless Association's (MWA) contest period. Don't forget the [vernal equinox](#) March 20-21. There's a lot going on this month especially if you're a phone contester. March is bookended by two very popular SSB contests, the ARRL International DX contest (SSB) and the CQ WW WPX Contest (SSB). In between there are big RTTY events and some sprints to keep everyone busy.

- **March 3 [ARRL International DX Contest](#)**; This is the SSB version. Once again there is a new category for antenna impaired hams with the limited antenna category. If conditions are as good as they were for the CW version in February, you will be astonished at what a 100 watts and a wire can do. There was endless DX all looking for US stations last month. Thanks Cycle 25!!! The bands were open to almost everywhere almost all the time. There was even more fun if you had Yagi's, power along with the excellent propagation. You should definitely get this on your calendar for either a part-time or full-time effort. Also don't forget to use {SpotMe} macro on a function or bandmap button. You must be in run mode. You can only spot yourself on the same frequency every 10 minutes. The details are [here](#). But be forewarned that spotting yourself will often result in an almost indecipherable pileup from the other side!
- **March 10 [North American Sprint, RTTY](#)**: Like all the sprints this one is fast paced, 4 hours long and the playing field is leveled inasmuch as no one superstation can run the frequency because of the unique QSY rule of this event.
- **March 16-18 [BARTG HF RTTY](#)**: This is an international contest that uses a time stamp in the exchange. Be sure to read the rules.
- **March 30-31 [CQWW WPX](#) contest SSB**: Want some phone fun? The WPX draws thousands of entries every year. Image how big it will be this year as we hit the [equinox](#). There are several entry categories so if 48 hours is too long try a single band. Maybe 10 meters single op low power would work for your busy weekend.

There are more QSO parties in March if you're working for Worked All States (WAS). The [WA7BNM calendar](#) website has all the March contesting updates.

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CONTEST CORNER

Fred (K4IU)

A while back we reviewed some basic requirements for a shack computer. How about contest keyboards? What are some considerations?

We all know that using keyboards for ham radio contesting can significantly improve your speed and efficiency, especially in Morse code (CW) contests and RTTY events. If you take the time to [set up .wav files](#) to accompany your F key macro functions you can do the same thing for SSB contests.

Choosing the right keyboard:

- **Mechanical keyboards:** Many prefer mechanical keyboards for their tactile feedback and responsiveness, crucial for accurate and fast Morse code sending.
- **Programmable keyboards:** Look for keyboards with programmable macros to automate repetitive tasks like sending callsigns, signal reports, and exchange numbers.
- **Wired or Bluetooth:** I like the wireless keyboard for the ease of moving around the operating desk and having one less USB input device to get tangled up with RFI.

Software and tools:

- **Logging software:** Specialized logging software like [N1MM Logger+](#) or [N3FJP](#) integrates with your keyboard macros for automatic logging of contacts and contest data.
- **Keyboard macros:** Program macros for common contest phrases like "CQ Contest," your callsign, and standard signal reports. You may also want to label the F keys with their programmed functions. They can be fancy or not as illustrated by my keyboard.
- **Ergonomics:** Ensure a comfortable and ergonomic setup to minimize fatigue and strain during long contests. This might include a separate or integrated wrist rest.

Remember, mastering keyboard use for contesting takes practice and persistence. Start slow, practice regularly, and don't be afraid to experiment to find what works best for you.

CU on the bands,

73 Fred K4IU@me.com



TECHNICAL COMMITTEE

Eric (KF0S)

Tech Committee - 2/12/24

Attendees:5 - Eric, Mark, George, Taylor, Pat

Post meeting and RARC meeting comments in italics

Tech Committee:

- Chair appointed by President at first meeting of the year, approved by club.
- Minimum of 4 people including Chair and Trustee (Gil, WOMN)
- Continue with the current list copied on meeting email (main call attendees last year)
- Eric Van Norman (Chair-KF0S), Gil Baron (Trustee-WOMN), Taylor Bauman (WB0RSJ), John Dahlin (KA0MYG), Pat Hagge (KE0WWG), George Hopkins (N0UM), Collin Howe (AA0CN), Mark Kelm (K0MGK), David Satzke (N3ZUK), Steve Wiebke (W0STV)

Mayo repeater site:

- DSL connection rerouted on 12/16. Testing looks good.
- Taylor working on getting a badge and key for access.
- No change. Andy and Taylor are busy.
- Andy can provide access in the mean time.
- Another person has also been identified.

146.625 Fusion repeater:

- We should apply repeater and HRI-200 updates (plus update the Windows software).
- Defaults to Southern MN group. Defaults back after 15 minutes of inactivity.



TECHNICAL COMMITTEE

Eric (KF0S)

443.85 D-Star repeater:

- We still haven't gotten the Gateway Server back to Mayo.
- Base Linux OS Icom requires enters End Of Life this June. Icom Japan plans to have the new software available the end of March.
- Main reflector: 30C.
- g2_link software to allow access to XRFxxxX and DCSxxxX reflectors was asked for.
- Will see if we can get this software early. George brought back a card with possible email from HamCation.
- David, N3ZUK, volunteered help with getting things setup.
- Contest or something to try and get more usage on UHF, determine things like coverage, etc?

146.82 repeater:

- New key procedure for access. Steve has the particulars.
- 3 Antennas on the tower.
- Taylor is concerned with further life of 82 tower. *Taylor and Steve to discuss.*

147.255 repeater:

Rochester EOC facility and computers:

- What repeaters can we hit with mobile/HT from within the classroom for possible presentations.



TECHNICAL COMMITTEE

Eric (KF0S)

Donation of W0IBM equipment:

- TA-33 tri-band (with WARC), 6m beam, 2 2m beams (1 each H and V polarization), and 2m vertical. All are old, but the tri-band might be a replacement for the club's other beams for Field Day.
- Triex or Tashjian LM470 or DX70.
- Tower and antennas. IRG and IBM trying to determine who has to remove items. I suspect no one wants to say we can remove antennas, else they will be liable to remove the tower.
- There are also some satellite antennas and a vertical on the roof, but hadn't asked about getting those.

Control Operators:

- TODO: Validate that we can control repeaters.

Website:

- Officer page has 2023 instead of 2024 for current officers.
- Membership list also has date on top of page. Fixed.
- Discussion of club GMail accounts. To be discussed at the meeting.

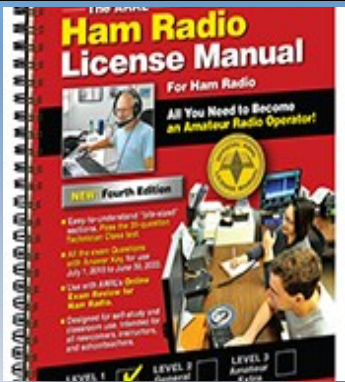
Education:

125 Live:

- Meetings on 3rd Tuesdays of the month from 2:00-3:00pm. 125 Live member or \$10 (may be waived) for non-members. Not included in February information mailer.
- Additional topics for later meetings include elmering, station intro, etc.

EDUCATION

Dave (KØVH) Bill (KØRGR)



One of the first steps needed to really get into Amateur Radio is to get your Amateur Radio License. This license is required in order to transmit on any of the Amateur Radio frequencies – however, listening does not. Listening is only part of the fun, so we encourage you to get your license so you can get the full experience!

- If you plan to get your extra class license this year, you have until June 30 before the question pool changes. The next Olmsted VE test is on May 16th before the changes take place.
- We'd appreciate knowing any of you who are using ARRL books, the new to ARRL Gordon West training methods, or Dave Casler videos: how effective are they? Would you like some mentoring from the club? A good spot would be the 3rd Tuesday of the month at 125Live.
- We'd also like to know if you are taking the current Maple Grove Technician Zoom class.



JM **ROCKET** RADIO CLUB

Melissa (KE0WNH) - Mentor

Elmers Needed To Help with the

JM **Rocket** Radio Club

- *Kit Building*
- *Soldering*
- *Antenna Building*
- *Radio Operation*
 - *QSOs*
- *Mentoring*



Contact [Melissa](#) (KE0WNH) for more information or how to volunteer.



125LIVE HAM RADIO CLUB



Steve Wiebke (W0STV)

The 125live ham radio club had their second meeting for 2024 on February 20th at 2:00 PM. The meeting ran 1hour 20 minutes. We are promoting getting 125live social members how to get their ham license. Once they have their license they will be given the code to the radio cabinet to use at will. We showed them where to get the technician book, and how to use Dave Casler's ke0og's ARRL videos to review with each chapter. We made contacts from the 125Live ham station to area hams on the 147.255 repeater. Thank you to all that contributed. I did a follow up with the people that were at the first meeting but where not this one. They had conflicts for this meeting but will try to make future events. People that need help for their license test will call me to meet at 125live to help them with questions. If there are any 125live members that would like to also help these people let me know and I will put you in contact with them when they call.



The next meeting of the 125Live Ham Radio Club sponsored by RARC will be March 19th at 125Live at 2:00 PM. Attendance is free to 125Live members and the general public. For more information please contact(W0STV) at: w0stv@yahoo.com



RARC BUY OR SELL



ST-5000 Step Up Step Down Transformer 110V 220V Step Up Voltage Converter Transformer, 5kw rating, used once / no longer need, like-new condition, **\$100 firm** (\$129.99 on Amazon). See Bob, (KE0EXE), gettuit@charter.net



Price Reduced! Icom ic-756Pro2 HF/60 MHz Transceiver

160m-6m. 100 watts full power. Comes with **Icom mic and original printed user manual. Includes a Signalink USB (Icom plug 'n play jumper module installed)** with cable for digital modes. **Valley Enterprises FTDI CAT cable** and rig power cable **Excellent condition**. Mark (K0GMK) gmkelm@charter.net 507-269-5254, **Price: \$500.00 (was \$900.00)**

If you have any Ham related items that you want to sell or are looking for locally, email the Hamster at [RARC Buy or Sell](#) or Trade.



Parks On The Air® (POTA)

Mark (K0GMK) gmkelm@charter.net Hamster Editor

It's Winter POTA Time!

Perhaps you've heard talk on the repeaters or on one of the Nets about [Parks On The Air \(POTA\)](#). You might be interested and think that it could be **fun to operate your rig and antenna remotely in a beautiful outdoor setting.**

In a nutshell it's all about operating in a state or national park, state trail, national monument, historical location or battlefield and making at least 10 QSOs to "activate" the entity. It's as simple as that, but there are a few [rules](#).

Take a look at the [Parks On The Air](#) website, view the [FAQ page](#), the [Help/Getting Started](#) section and perhaps view some of the getting started [videos](#) by seasoned POTA operators. If you are interested in becoming an Activator fill out the [sign-up](#) to become a member and get started.

Do you know that there is a [POTA entity in Rochester](#)?

Take a look at the [map of entities](#) to see the wealth of places to activate close to Rochester as well.

POTA is a great way to enjoy Ham radio and enjoy the bonus of operating remotely or out of your vehicle!





WEEKLY NETS

- ◆ **Monday 8 p.m. Elmers' Net** 146.820 repeater (PL Tone 100)
- ◆ **Tuesday 7 p.m.** (except on Club Meeting Nights) **RARC 10 Meter Net** meets on 28.325 Mhz. USB. The Net is cancelled without notice if lightning in the area or SkyWarn activation.
- ◆ **Thursday 6:30 p.m.** 146.820 Repeater. The first Net of each month is a voice net, and it's the **SE MN District ARES 2 Meter Digital Net**. The other weeks, it is an informal digital net, using the digital protocol announced for the week on the Net and NBEMS.

Most use [FLDIGI](#) and the rest of the [NBEMS](#) suite of programs, all of which are free. MT63 is a very forgiving mode. You can do MT63 on VHF without a soundcard modem - 'acoustic coupling' works fine. meaning you can hold your HT up to the mic on your computer and copy it very well and do the reverse to transmit.

- ◆ **Thursday 8 p.m. ARES 80 Meter HF Digital Net**, 3583.5 kHz, Olivia 8/500
- ◆ **Daily M-F about 11:30 a.m.** - Repeater Of The Week - **Very Informal Morning Net** - If you show up and there is no net control, become one! The object of this net is to encourage more on-air activity.
- ◆ **Saturday 8:30 p.m. Iowa D-Star Net** on D-Star Reflector XLS632A
- ◆ **Sunday 7:30 p.m. Minnesota D-Star Net** on D-Star Reflector XLS632A
- ◆ **Sunday 8:30 p.m. Dodge County ARES Net** on the 146.820 (PL Tone 100) Repeater at 8:30 p.m.
- ◆ **Sunday 9:00 p.m. RARC/ARES Net:** 147.255 repeater (PL Tone 100) Odd numbered Sundays
146.820 repeater (PL Tone 100) Even Numbered Sundays



- ◆ Are you a member of the [ARRL](#)?
- ◆ Are you new to Ham Radio?
- ◆ Have you been licensed for a while but not active?
- ◆ Are you active but never explored the [ARRL](#)?

RARC has been an ARRL affiliated club for the past 50+ years. RARC wants all members to know about the benefit of being a member of the ARRL and how the ARRL promotes amateur radio and represents and supports Hams throughout the year.

Here are two links you can explore to see what the [ARRL](#) offers Hams. Take a look:

- ◆ [ARRL Benefits](#)
- ◆ [The Value of ARRL Membership](#)



CONTACT RARC

RARC meets the second Tuesday of each month at 6:30 PM in the lower level of Rochester Fire Station #2 in the EOC at 2185 Wheelock Drive NE, Rochester, MN

- ◆ **Online:** <http://www.rarchams.org/>
- ◆ **Mail:** RARC , P.O. Box 1, Rochester, MN 55903
- ◆ **Groups.io:** [Register](#) and a Moderator will respond shortly
- ◆ **Weekly Net:** Sundays at 9:00 PM: 147.255 repeater (PL Tone 100) Odd numbered Sundays
146.820 repeater (PL Tone 100) Even Numbered Sundays
- ◆ **Facebook:** [Rochester Amateur Radio Club](#)

If you haven't done so already, please [register](#) for the RARC groups.io email reflector so you can keep abreast of club activities, official club notices and of course the monthly Hamster emailing. Click on [register](#) and you will be taken to the RARC registration page. Once you have [registered](#) go to your account settings and choose how you would like to receive email from RARC.

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