

April 2025

Welcome New Members

My apologies to Ken and Michele; they were accidentally left off the new member list in the last issue.

Michele Miller, KC1TIW
Ken Miller, WB1DX

From the editor:

It's hard to believe that we're into spring already; I'm sure it won't be long before we're complaining that it's too hot! One thing that's hot is the bands, especially 10 meters, so get out there and play some radio.

In last month's issue I had a list of new members; I mistakenly left off two members who joined last fall. Ken, WB1DX, and his XYL Michele, KC1TIW, both have been active in the club; Ken was the February meeting's guest speaker!

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There is plenty of good content in this issue, beginning with Alan's [From the President's Desk](#). He has plenty of great points, and it's a wonderful read. Smitty has yet another article all about running your shack or POTA station on battery power.

The HCRA Fox will be back this spring! Your very own HCRA VP, Ez, W1AEZ, is heading up Fox Hunt 2025. For all of you fox hunters, this is for you. For all of the details, be sure to read [The Foxes Den](#) on [page 11](#).

Becoming a Mentor (Elmer) is the best way of paying it forward. Larry, W1AST, penned an article that will get you thinking about how you can give back to the hobby by helping our newest members in the club! See [page 10](#) for more.

There is so much going on, and a huge event is coming up. **Field Day** is right around the corner, so make plans now on how you can support your club by participating in the biggest event in our hobby!

See you at the April 4th **Show & Tell** meeting!

73, Ken - KD1KU

April 4th Meeting

It's time once again for the annual HCRA **Show & Tell** extravaganza at the **April 4th in-person meeting**. This is always one of the most exciting meetings of the year. Show everyone what you've built or just come to see everybody's projects over the past year. This meeting will also be broadcast via Zoom. Enter what you've been building during the past year for a chance to win prizes!

Doors open at 7 pm for coffee, donuts, and rag chewing. Regular club meetings are held at the Holyoke Medical Auxiliary Conference Center, 575 Beech Street, Holyoke, MA 01040.

Need directions? <http://www.hcra.org/meeting-location/>

Upcoming Club Meetings and Guest Speakers



2025

As the chill of winter grips our area, Nick Maslon, K1NZ, will tell us about his adventures when he joined a DXpedition to the South Pacific nation of Vanuatu. Hear everything about palm trees, cool breezes, coconuts, and pileups.



2025

Do those hills near your house affect your HF signal? Learn all about everything that you can do to improve it. HCRA's very own member, Ken Miller, WB1DX, will be telling us all about terrain analysis for DX'ing. Don't miss it!



2025

Have you ever bounced signals off the moon? Would you like to learn how? Bill Larned, KA1WHT, will be telling us how even relatively small stations can be easily set up to tackle Earth-Moon-Earth (EME) communications.



2025

April is our "Show and Tell" meeting. Bring whatever radio-related project you've been working on, show it off, and hear what other club members have been doing. This is always one of our most popular meetings, don't miss it!



2025

The May meeting will feature Steve Shore, WA1ZEV. Steve will be in person speaking about everything related to demystifying DMR (Digital Mobile Radio). If you're considering any type of digital radio, don't miss his presentation!



2025

2025 Field Day preparations and more. Volunteers are needed to make this Field Day a success! Plus, board elections will be held at this meeting. Please consider running for a Board of Directors position; your club needs your help!



2025

To Be Announced



2025

To Be Announced



2025

HCRA's annual auction is back at the November meeting! Ham radio gear and related accessories ONLY! Absolutely NO computers, monitors, or PC parts! Last years auction was a massive success, don't miss it this year!



2025

The HCRA Holiday Party will be held in place of the December meeting once again. Join us for a night of food, friends, and fun to be had by all. Watch for complete details and when/where you can sign up to attend.



April 2025

Did you get out to the Mount Tom Amateur Repeater Association (MTARA) hamfest at the beginning of March? If you did, we probably saw each other; I was hanging out in front of the HCRA table, chatting with club members, prospective members, and everyone else who happened by. The turnout this year was a lot better than last year, when a minor snowstorm seemed to keep everyone home. Several people picked up membership forms, and I hope to see them turning up at our meetings and events soon.

A lot of HCRA members were there, providing another reminder of just how big and active our club is. Some of them were selling off extra gear from their well-appointed shacks, others were acquiring new items for their growing collections, and a few were helping to run the VE testing session down the hall. Smitty, KC1IKA, had a table right across from the HCRA booth, where "Smitty's Switches" was doing a brisk business in well-engineered, 3D-printed parts and accessories. The Pioneer Valley Meshtastic group had a table right next to him, where the HCRA-dominated crowd swapped tips about that fast-growing digital networking system.



All of this reminded me that our popular "Show and Tell" meeting is coming up next. I'm expecting to see the latest iterations of members' ongoing projects and a bunch of new ones as well. If you've built, modified, or fixed something in your ham radio adventures in the past year, please bring it in and show us. Even if it seems minor to you, your project or solution could be just the inspiration someone else needs. We have an immense collection of skills and talents among our members, and chances are you know something someone else will find interesting.

Looking further ahead, it's already time to start thinking about Field Day. I've been talking this up on the email reflector and will be reminding folks about it often as June approaches. Besides having over a hundred talented members, the club also has a cargo trailer full of gear. We have four AB-577 military surplus portable towers, each 40 feet tall when raised, multiple beam antennas to put atop those towers, a whole pile of wire antennas for lower bands, and all the diplexers, filters, coaxial cable, and connectors required to build a multi-multi contest station in a field. There's also a bunch of support equipment: pop-up picnic shelters, tents, a portable grill, and folding tables and chairs.

We only need to add three major ingredients to build a world-class Field Day setup: transceivers, power sources, and people. The first two have never been difficult; we always have access to more generators and radios than we need. The third and most important component, though, is also our biggest challenge. For the past few years, our Field Day operations have been pretty small. If that just reflects changing interests, that's fine. The people who did show up last year had a blast despite the awful weather, and smaller operations do have the advantage of being easier to set up and take down.

Continued on page 4

From the President's Desk

By Alan Dove, AB1XW

Given the number of members who are into contesting, portable operations, and emergency communications, though, I find it hard to believe we've really lost interest in the biggest on-air operating event and emergency communications training drill of the year. It seems more likely we've just gotten out of the Field Day habit since the pandemic.

Let's bring it back. Bring your own HF radio if you like, or use one of the ones someone else brings. Spend a few minutes or a few hours running QSOs on CW, sideband, or digital. If you're a Technician, operating the W1NY Field Day station is an opportunity to spend some quality time on HF frequencies and modes you can't normally use. Hang out at the information table and greet the public. Chow down on delicious grilled food and side dishes. Spend the night in the park operating if you like, stay overnight in one of the tents or your own camper, or go home to sleep in your own bed and come back in the morning. Learn some new radio skills, or polish up some old ones. Above all, let's have fun with a common interest.

Make a note on your calendar now, and come out the weekend of June 27-29 to School Street Park in Agawam for HCRA's 2025 Field Day. I'm looking forward to it.

73 de AB1XW

alan.dove@gmail.com

Next QSL Cards Sent to the Bureau on April 15th

The next date to submit your outgoing QSL cards to the Bureau will be on approximately April 15th. Watch for an announcement from Paul, NF1G.

Have your cards sorted and ready to go, then make arrangements to get them to Paul, NF1G; Paul's contact information is on the form. Use the link below to download the form, instructions, and contact info.

The QSL submission form along with detailed instructions can be found by clicking on the link at the bottom of this paragraph.

QSL cards can be dropped off at the April 4th regular club meeting in the Holyoke Hospital conference room to Paul, NF1G.

The following link will take you to the form where you will also find Paul's contact info; you may also find his info in the back of every Zero Beat.

To download the form click: <https://hcra.org/files/DX%20QSL%20Submission%20Form.pdf>

Share The Knowledge Zoom Schedule

Share the Knowledge Zoom mini-meetings are back for 2025

President Alan, AB1XW, and your Board of Directors have been working to find and host these interesting presentations! Have a topic to suggest? Contact Alan at alan.dove@gmail.com

Date TBA @ 7pm	All about Fusion 360 & CAD	By Jeff, NT1K
Date TBA @ 7pm	Everything about ARES	By Charles, WS1L
Date TBA @ 7pm	All about Live Web Logging	Speaker To Be Determined
	More Topics TBA	

Watch for announcements with Zoom links on Groups.io by President Alan, AB1XW

Whenever possible, STK Zoom links will be posted in Zero Beat prior to the upcoming STK meeting. If at all possible the Zoom link will also be published within Groups.io, Facebook Group and more!



knowledge
sharing

How Big a Battery do I Need?

Transmitting power (Watts) and how it relates to power draw (Amp hours)

How much power your radio is transmitting directly affects how long your batteries will last. You will need to measure power draw at the various transmitter power levels as well as when you are just listening. The modes you choose will also affect power draw (voice, CW, digital, etc.).

Then you need to figure out the percentage of transmit time (XMT) to receive time (RCV). The way I figure out the times is, when I hit the transmit key, I also start a stopwatch on my cell phone. When I release the transmit key, I pause the stopwatch. I do this for a few hour-long sessions so I can get an average of transmit and receive times. You have to do that for each operating style you use, such as POTA, ARES nets, rag-chewing, contesting, etc. They will each have unique XMT/RCV percentages.

Take your minutes XMT and divide them by the total minutes operating, then multiply by 100; it will give you your XMT %. Now take your minutes RCV divided by the total minutes operating, then multiply by 100; it will give you your RCV %. If you add the XMT and the RCV, it should be 100%.

Once you have your power draw and times worked out, you pick a transmit power level and an operating style, then fill in this formula: $(XMT \% \times XMT \text{ PWR}) + (RCV \% \times RCV \text{ PWR}) = \text{Average power consumption for 1 hour (Amp hours)}$.

Radio Used for Testing

Icom IC-2730. Power draw for a full 50-watt output: 8.9 amps. Draw for transmitting: mid-15 watt output: 4.7 amps. Draw for low, 5-watt output: 2.75 amps and receiving: .47 amps.

As a Net Control Station, my times averaged out to 65% transmit and 35% receive, which comes to 5.95 Ah on high, 3.22 Ah on mid, and 1.95 Ah on low power. Just signing into Nets, I averaged 6% transmit and 94% receive, which comes to .91 Ah on high, .66 Ah on mid, and .55 Ah on low power.

In March of 2023, we had a major snow event. I was on air from 0530 until 2230 with my ID-5100 and used 20 Ah of my 70 Ah battery bank using low power.

Drawing from the 14 Ah battery in my Icom IC-2730 box as NCS, I could operate about 2.35 hours on high, 4.35 on mid, and 7 hours on low power. Just checking into nets, I could operate about 14 hours on high, 18.75 on mid, and 25.5 hours on low power.

Using all the batteries in the shack, 195 Ah, I could operate as NCS on full power for 32.5 hours, mid power for 60.6 hours, or 100 hours on low power. Just checking into nets, I can operate about 214 hours on high, 295 hours on mid, and 350 hours on low. All without recharge.

On a sunny Sunday morning as NCS, my 40 watt solar panels can keep up with the battery draw with about 2 amps solar input per hour.

How Do You Operate?

What you do with your radio and how you operate it is critical in determining how big a battery you need.

Continued on page 7

How Big a Battery do I Need? Cont'd

As I showed on the previous page, transmit power, mode, and operating style are important in figuring out how many amp-hours you are using. You also need to take into account how you use your radio. Do you go out for a few hours for POTA, SOTA, or other activity and then return to your shack for the night? Do you go out for a few days, such as Field Day or are you using solar for primary or backup power for EmComm?

If you just do day trips and return to a source of commercial power after every session, then you just need enough battery for the hours you will be operating that day. If you will be away from a charger for multiple days, then you will need a battery that will cover all the operating hours on those days. If you are planning on emergency communications during unplanned power outages, then you may need a week or more of battery power. Even if you plan on using solar power to recharge your batteries, there are times we have a week or more of rain, snow, or just cloudy days. The sun doesn't always come out tomorrow.

My Battery Choice and Why

When I first started looking into solar and battery power for emergency communications, I checked out a few brands and chemistry options.

I first tried a 35 Ah SLA battery, but I could watch the voltage drop as I operated my IC-7300 on HF, and I could only use half of the capacity to avoid damaging the battery. After looking at the flat voltage output of LiFePO4 batteries, I decided to try a couple. The voltage stayed constant for the full Ah draw of the battery, and it had 90% or more of its capacity available. I could also recharge a LiFePO4 battery a couple of thousand times compared to a couple of hundred times for an SLA.

Dakota Lithium was the only brand that I could start with a battery or two and add batteries in parallel as funds allowed. Most of the other manufacturers did not advise putting their batteries in parallel to increase amp hours. Dakota Lithium had no issues with that, and I read testimonials from actual users who did just that. One sailboat owner had twenty batteries in one bank.

All in all, the Dakota Lithium batteries were a lot more expensive up front, but they last longer (11-year warranty) and perform longer, recharge many more times, and can be run in parallel. This allowed me to start small and add battery capacity as I could afford it instead of having to start with a big battery. I also own a Bioenno battery for a portable radio I'm working on, as it's a perfect fit in the case.

The Final Answer to How Big a Battery Do I Need?

As you can see now, it's not an easy question to answer. There are many variables that determine how big a battery you need. With emergency communications being the major portion of my hobby, I purchased as many batteries as I could afford. I also have almost all of my equipment in various go-boxes. Some have batteries in them; some do not. The ones that have batteries, I can share that internal battery externally with other equipment when needed. The easiest answer without all that testing is to see what the manufacturer of the radio says is the maximum power draw and multiply that times the hours you will use it. Then purchase a battery that size; it will be more than enough.

73, Smitty, KC1IKA

You're Reading the #1 Newsletter in New England



This is the number one club newsletter in all of New England!

2025 Northeast HamXposition



August 21 to 24, 2025

The Largest Ham Radio Convention
In the Eastern Corridor

Many New Vendors

Large Flea Market

Largest Selection of Forums

Thursday Night Comedy Hour

2024 saw a 35% Increase in Attendance!



SCAN ME

Grow with us in 2025!
Marlborough-Boston, MA



www.HamX.org

Mentoring a New Ham

Giving Back to Ham Radio

What is the best thing you can do as a ham radio operator?

- Help with public service?
- Assist emergency communications and Skywarn?
- Help with comms at the Boston Marathon?
- Volunteer at your local ham club?
- Help a new ham get started by mentoring them?
- Become a net control?
- Do your own thing?
- Fill in this space with your own thoughts

What about mentoring a new ham? This used to be called being an Elmer. But that old term has been replaced by Mentor.

What is a Mentor?

A wise and trusted counselor or teacher

Are you one?

New hams are everywhere. You talk to them on the radio, repeaters, digital networks, and at ham club meetings and events. When you talk to them, really listen. Find out what their interests are and pursue that conversation even deeper.

The worst thing you can do is ignore a new ham in person or on the radio. Belittling one for not quite knowing procedure on the air is a surefire way to push a new ham out of the hobby. Unfortunately, too many of us have heard this and haven't done anything about it. But that is another issue.

Most new hams need help choosing a radio. Talk to them to find out what their interests are. Invite them to your ham shack and take the conversation deeper. Are you going to a local hamfest? Invite new hams to attend with you.

Extend your knowledge and help them move forward into this amazing hobby we are all part of. Doing so is one of the best ways to pay back on your ham radio life.

I like the phrase "*paying it forward*." There are many things I am not good at or cannot do. I ask my friends to help me, and they do. I then "*pay it forward*" by helping new hams in any way I can. It all works out.

Someone helped you get started. Now it's your turn to help a new ham.

73 - Larry, W1AST

The Foxes Den

Fox Hunt 2025

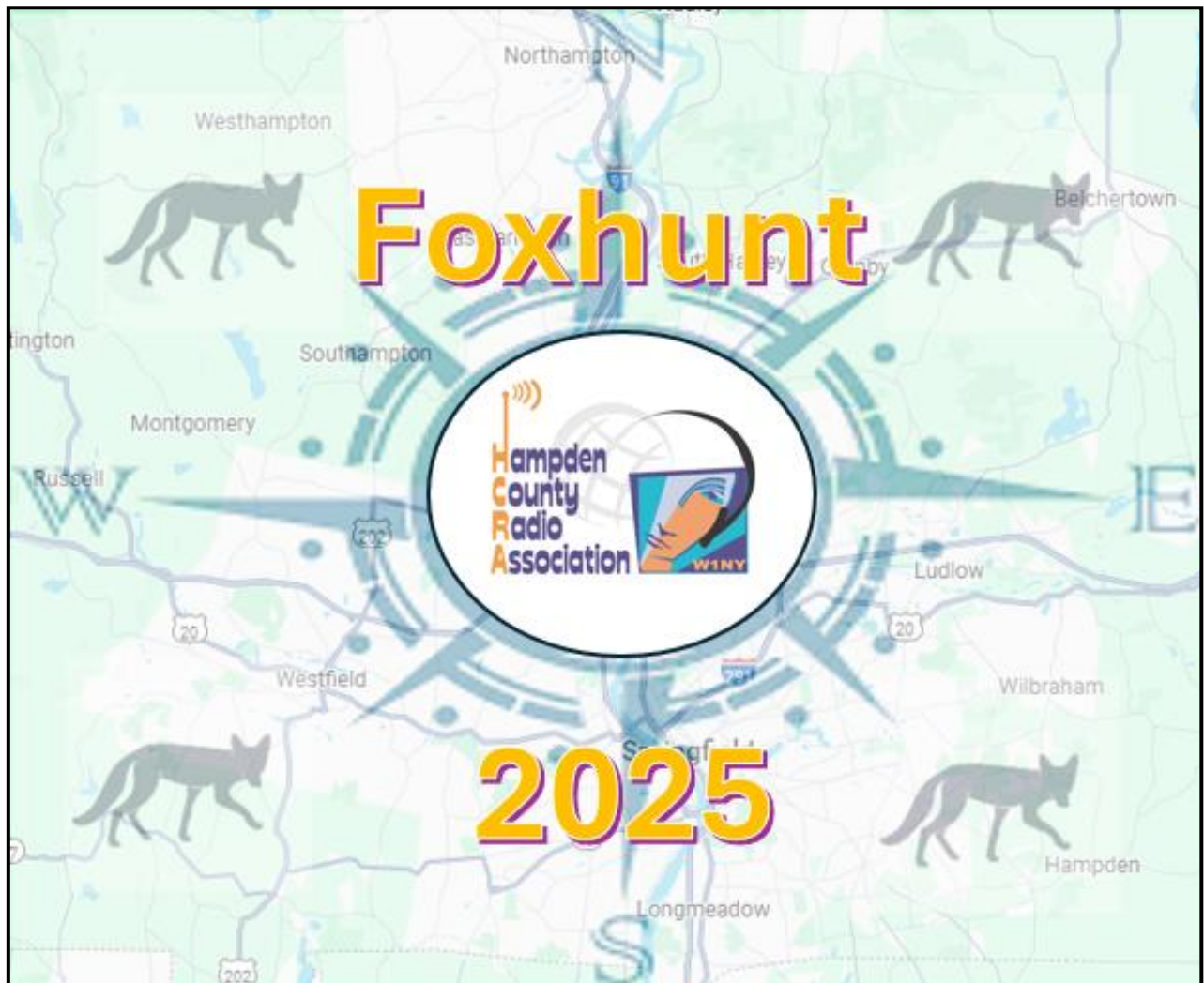
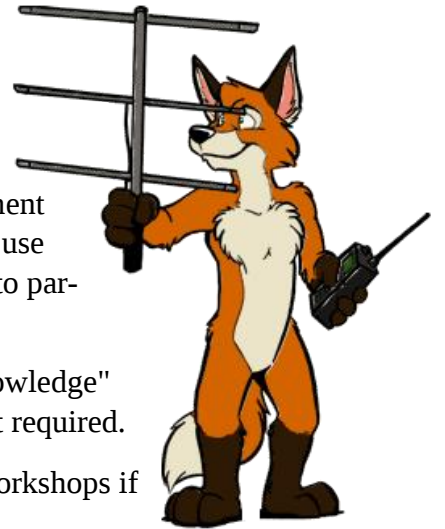
HCRA will be sponsoring several Fox Hunts in the spring of 2025. Hunts will be held on Saturdays, with times and dates TBA.

The Fox Hunt is an informal hunt held on irregular intervals for the enjoyment of the participants and to train amateur radio operators to learn, refine, and use direction-finding skills. These hunts are a fun activity; everyone is invited to participate regardless of affiliation.

We anticipate on the first Saturday morning to begin with a "Share the Knowledge" presentation all about RDF, Radio Direction Finding, skills, and equipment required.

Also, there is a possibility of radio direction-finding equipment building workshops if there is enough interest by those wishing to take place.

For any questions, please reach out to Ez at ez.w1aez@gmail.com with any questions or to join in on the fun. Watch for more information to come on hcra.org and <https://hcra.groups.io/g/main>.



HCRA Club Wear

HCRA members can purchase some stylish clothing and accessories, complete with their callsign alongside the name and logo of their favorite ham radio club!

- Fleece vest
- Hoody sweatshirt
- Wind breaker
- Polo shirt
- Button down shirt
- Name badge \$13
- Ceramic mug
- Baseball style hat and knit hat available from the club treasurer (in stock)



For polo shirts, button-down, and vest—do you want the mini logo with your callsign too (on the back or sleeve where applicable)?

If interested in any items, please send Larry, W1AST, your order at w1ast@arrl.net

Need the Following:

1. Your call
2. Your name
3. For badge (city and state)
4. For badge (arrl logo?)

Larry will inform you of the cost; you will need to either pay via PayPal or mail a check to the club P.O. Box made out to HCRA for the amount specified for items other than badges.

**Hampden County Radio Association
P.O. Box 562
Agawam, MA 01001**

More HCRA Club Wear photos on the following page...

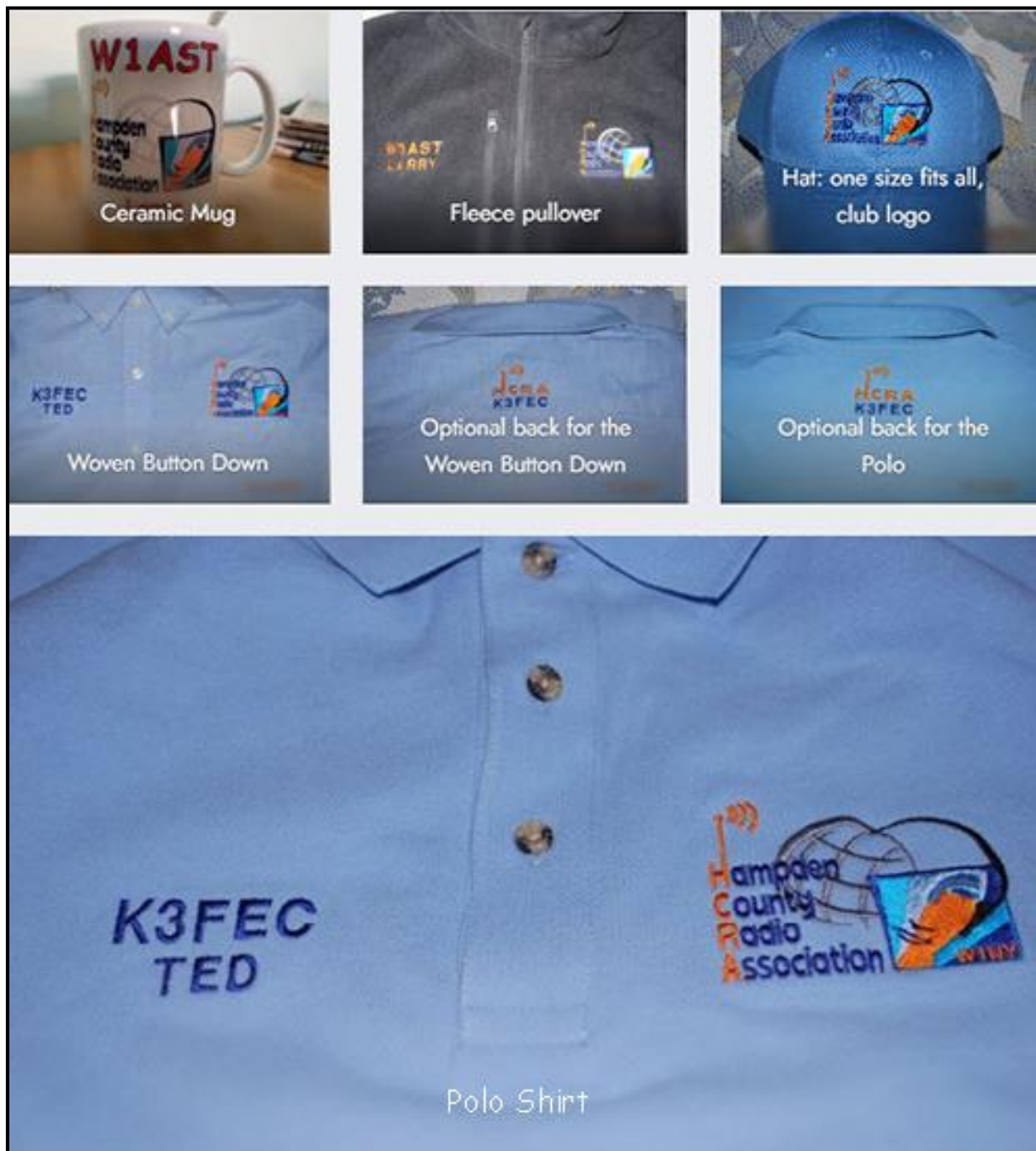
Continued on page 13

HCRA Club Wear

Cont'd

More items to choose from! Click on any image or links below to see more on hcra.org

Prices on the following items change frequently, so please email Larry to get the current price before ordering.



To order or for info, contact Larry, W1AST, at w1ast@arrl.net

For more information click: <https://hcra.org/hcra-wear/>

Zero Beat Classifieds

Items for Sale by Howard, AC1MN



Icom IC-7300	\$750.00
LDG AT-200Pro II Autotuner	\$275.00
K1EL K45B CW Modem w/sinoBoard & 7300 Adapter	\$125.00
Astron RS35A Power Supply	\$200.00
DX Commander Classic Kit (not assembled)	\$200.00
T41 Kit (partially assembled)	\$150.00
QRP Labs QCX+ 20 Meter	\$50.00

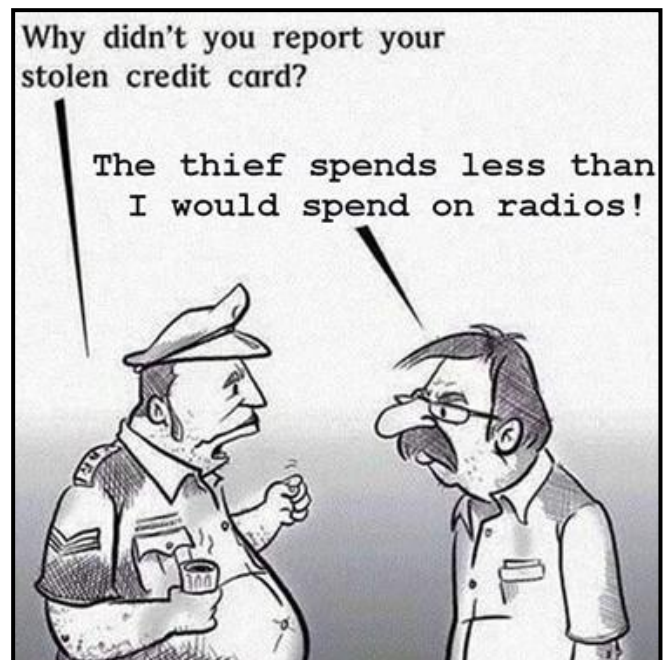
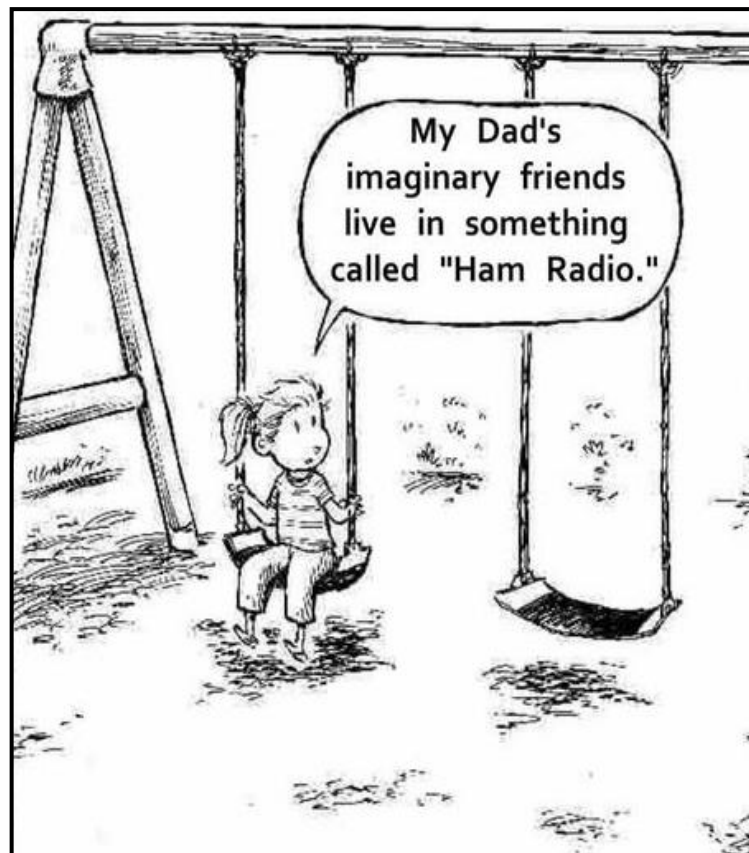
*The above list of items are for sale by Howard, AC1MN
All items are in excellent shape and come with some extras and are guaranteed.*

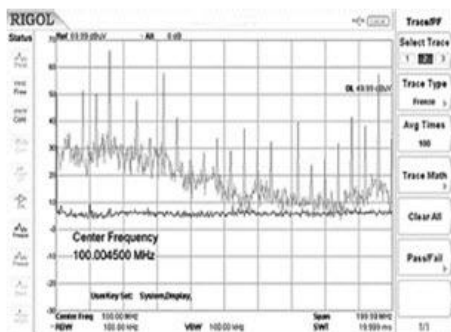
Contact Howard at: ac1mn@hotmail.com

Zero Beat Classified Submissions

If any club members have an item(s) they would like to sell, trade, or maybe something they've been searching for, they can list it right here in the Zero Beat Classified ads!

To submit an item in the classifieds, simply send an email to kd1ku@arrl.net with one or more photos of the item(s) for sale or wanted. Include a brief description, including a way to contact you (phone number and/or email), along with an asking price as well. -[Editor]-





Need Help With RF Interference Issues ?

If you have been experiencing RF interference there is a WMA resource available that's ready to assist you. Each section has established an RF interference investigative team that can help identify and possibly remedy your problem.

To initiate your request for help you can simply send an E-mail to k1yo@arrl.net with your contact information and a description of the problem and anything you may have already tried.

A member of the WMA RFI team will contact you with directions on how to initiate the formal request for assistance. This then may require several steps / tasks on your part which provide us with essential information to guide further investigative processes.

Additionally, helpful information can be found on our [RFI Troubleshooting Guide](https://nediv.arrl.org/rfi-troubleshooting-guide/) online at:
<https://nediv.arrl.org/rfi-troubleshooting-guide/>

We are ready to help - just give us a call !!

Vy 73,
Your WMA RFI Team
Greg WA1JXR Barry W1HFN Najm AB1ZA
Bob K1YO (Team Lead)


ARRL Club Commission Program

Renew your membership through the HCRA in 2025, and your club will get a percentage!

The HCRA will earn a **\$20 commission** for each **NEW** ARRL member we recruit and \$5 for every **renewing member**. Download the form, fill it out completely including payment, and mail it to **Hampden County Radio Association, P.O. Box 562, Agawam, MA. 01001**

Be sure to send it to the HCRA P.O. Box above and **NOT** directly to the ARRL

<https://www.arrl.org/files/file/Membership/Club%20Commission/ARRL%20Membership%20Application>

**ARRL**
The National Association for
Amateur Radio®

Membership Application

☐ New ☐ Renew ☐ Previous Member ☐ Unlicensed

Name _____ Call Sign _____

Address _____

City _____ State _____ ZIP _____

Email _____ Phone _____

Date of Birth ____ / ____ / ____

My Family Member is Joining or Renewing: (\$12 per member)

Name _____ Call Sign _____

Name _____ Call Sign _____

☐ Please note my new address ☐ I do not want my name and address made available for non-ARRL related mailings

Your Annual Membership Dues*
Circle Your Choice (rates effective Jan. 1, 2024)

	1 Year	3 Years
Standard membership	\$59	\$174
Family (same membership exp. date and address)	\$12	\$36
Student (must be under age 26)	\$30	
Blind (requires one-time statement of legal blindness)	\$12	\$36

Member Benefits

Your membership supports benefits, services, and programs that keep you active and on the air.

Membership Includes:

- Access to four digital magazines and archives (QST, On the Air, QEX, & NCJ)
- Unlimited courses through the ARRL Learning Center (learn.arrl.org)
- Logbook of The World®, contests, and award programs

...and more!

Add-on ARRL Subscriptions

QST, ARRL's membership journal for active radio amateurs.
☐ 1 Year \$25* ☐ 3 Years \$75*

On the Air, For beginner-to-intermediate-level radio amateurs.
☐ 1 Year \$25* ☐ 3 Years \$75*

*A print subscription for QST and/or On the Air requires an ARRL membership. Dues and subscription rates are subject to change without notice and are non-refundable

Payment Information

\$ _____ Total Charge to: ☐ Visa ☐ MasterCard ☐ AmEx ☐ Discover ☐ Check Enclosed

Card Number _____ Expiration Date _____

Card Holder's Signature _____

Toll Free (US) 1-888-277-5289 or 860-594-0200 • ARRL, 225 Main St., Newington, CT 06111-1400
membership@arrl.org • www.arrl.org/join

Field Day is Ham Radio's Open House

Every June, more than 31,000 hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill, and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Field Day has been an annual event since 1933 and remains the most popular event in ham radio. Support your local club by volunteering in 2025.

Thank You Marvin, W0MET

If you watch the monthly club meetings on Zoom, you should thank **Marv, W0MET**, as he is the person solely responsible for broadcasting meetings over Zoom using his own equipment so those who cannot attend meetings in person can enjoy them too. The majority of all meetings are done in this manner; however, once in a while, Marv has other obligations, so some meetings are not recorded. When you see Marv, please thank him for doing this!

Join Brown Baggers for Lunch

For the benefit of every HCRA member, **Brown Baggers** is a friendly lunch get-together that happens on the 1st and 3rd Wednesdays of each month. It's held at the [Munich Haus Restaurant](#) in Chicopee Center at 12pm (noon), located on 13 Center St. Chicopee, MA, across from City Hall, or click the link above for directions. **Lunch, conversation, and camaraderie with your fellow hams!**

Membership Memorial Page

All members have the opportunity to honor club members SK's on the new memorial page on hcra.org. This can be done easily by sending the SK member's name and callsign along with any text, stories, and photos. Send them to our webmasters, Vanessa, W1IRL, or Alan, AB1XW at the email address's below:

Vanessa, W1IRL, at webmaster@hcra.org or **Alan, AB1XW**, at alan.dove@gmail.com

Please check-out the HCRA You Tube Channel and while you're there don't forget to click subscribe!
I hope that many members are working on their short video's for the club's You Tube channel.
For more info see the April issue of Zero Beat. The YouTube Channel link is below.

For Sale Items

There's a classified ad section that is for HCRA members. Members who have a need, something to sell, or even a trade.

Send item description and photo(s) to:
kd1ku@arri.net

HCRA Social Media Links

Groups.io: <https://groups.io/g/hcra>

You Tube: <https://www.youtube.com/HampdenCountyRA>

Facebook: <https://www.facebook.com/groups/HampdenCountyRA>

Clublog update: Log-into Clublog at <https://clublog.org/league.php> Signup is completely free, and there are a number of ways to look up information. Give it a try; who knows... you just might like it!



<input checked="" type="radio"/> No Mode Filter	<input type="radio"/> CW	<input type="radio"/> Phone	<input type="radio"/> Data
<input checked="" type="radio"/> Rank by DXCCs	<input type="radio"/> Rank by slots	Rank by band: Totals ▼	
<input checked="" type="checkbox"/> 160M <input checked="" type="checkbox"/> 80M <input checked="" type="checkbox"/> 60M <input checked="" type="checkbox"/> 40M <input checked="" type="checkbox"/> 30M <input checked="" type="checkbox"/> 20M <input checked="" type="checkbox"/> 17M <input checked="" type="checkbox"/> 15M <input checked="" type="checkbox"/> 12M <input checked="" type="checkbox"/> 10M <input checked="" type="checkbox"/> 6M			
<input checked="" type="radio"/> Current entities	<input type="radio"/> Current and deleted	<input checked="" type="radio"/> Worked	<input type="radio"/> Confirmed
<input type="radio"/> No Date Filter	<input checked="" type="radio"/> 2025	<input type="radio"/> 2024	<input type="radio"/> Last 12 months
Filter by club/continent:		HCRA - Hampden County Radio Association ▼	

Generate DXCC League

League for HCRA - Hampden County Radio Association

Rank	Callsign	160	80	60	40	30	20	17	15	12	10	6	DXCC ▼	Slots	Range
1	KX1X	0	70	0	107	80	122	78	142	94	145	1	202	839	28 yrs
2	NF1G	9	26	0	39	69	86	12	82	101	129	3	200	556	41 yrs
3	W1RM+1	13	55	0	93	27	122	15	123	37	135	1	190	621	62 yrs
4	KK1W+1	8	41	0	64	30	74	12	88	13	94	4	146	428	49 yrs
5	W1AST+1 ★	1	14	0	40	9	66	28	85	18	100	1	124	362	16 yrs
6	WB1DX+2	0	0	0	18	5	70	5	68	7	83	0	112	256	38 yrs
7	K1NZ+2 ★	1	14	28	18	66	6	14	31	48	51	0	106	277	14 yrs
8	N1JIE	0	3	0	16	12	36	21	33	38	47	2	85	208	8 yrs
9	N1FTP ★	0	0	0	16	9	31	14	35	31	40	1	68	177	17 yrs
10	NX1K	1	13	0	17	17	31	31	36	9	21	0	64	176	36 yrs
		160	80	60	40	30	20	17	15	12	10	6			
11	NE1C	2	5	0	15	0	12	0	20	0	18	0	31	72	23 yrs
12	WD1S+2	0	1	0	8	4	15	0	1	0	15	0	31	44	13 yrs
13	K1VOI	3	5	0	9	6	9	1	3	3	10	1	28	50	24 yrs
14	KD1KU	0	0	0	4	0	18	0	7	0	1	0	27	30	7 yrs
15	W1JA+1	1	2	1	1	8	0	0	0	15	1	0	24	29	56 yrs
16	WY1G	0	1	0	6	0	2	1	5	0	9	0	20	24	44 yrs

If you have never used Clublog, need a refresher, or simply want to learn more about Clublog, simply go to the [HCRA YouTube Channel](#) and learn all about it.

All meetings are recorded and posted on hcra.org plus video links are listed in Zero Beat. The link to the April 2021 meeting where Clublog was the topic of our guest speaker is listed below.

<https://www.youtube.com/watch?v=qj2lKcQRNbE&t=1s>

Local Nets

Sundays: 8:45 am Western MA. VHF Emergency Net on 146.94, PL 127.3 W1TOM/R

Sundays: 9:15 am Western MA. UHF Emergency Net on 443.200, PL 127.3 W1TOM/R

1st Monday of the month: 6:45 pm, MEMA RACES Drill, 146.490 simplex and 3.930 LSB.

Mondays: 7 pm, RACES Drill, 146.910, Mt. Greylock.

Mondays: 7 pm, HCRA 10 Meter Net on 28.375, new topic every week. Net control is Gary, W1JZR

Tuesdays: 7:30 pm, 146.94, PL 127.3 - Hampshire County Emergency Net

Tuesdays: 8 pm, ARES Emergency Net, on 146.985, PL 136.5

Wednesdays: 7:30 pm, MTARA Info Net on 146.94, PL 127.3

Wednesdays: MTARA Swap net: 146.94, following the Info net

Wednesdays: N1RLX Simplex Net, Check-in on 146.94 then QSY to 146.550 simplex immediately following the swap net

Wednesdays: 9 am, FCARC Experimental Net, 28.354 MHz

Thursdays: 8 pm, FCARC Information Net, 146.985 - 136.5

Join or Renew Your ARRL Membership!

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- QST Magazine
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 - ARRL Field Organization
 - ARRL-sponsored contests
 - Operating Awards
 - Amateur Radio Emergency Service
 - Hamfests and Conventions
 - Volunteer Examiner Coordinator Program
- <http://www.arrl.org/membership>



Club Meetings and VE Sessions

1st Friday of the month: HCRA meetings are held every month, with the exception of July and August. Doors open at 7 pm, followed by the meeting at 7:30 pm sharp. For complete details checkout <http://www.hcra.org>

2nd Monday of the month: FCARC meeting at 7 pm. 1 Aviation Way, Turners Falls, MA. (airport). Social Hour 6-7 pm, meeting at 7 pm. <http://www.fcarc.org>

2nd Saturday of the month: (prior to FCARC meeting) at 8 am breakfast at Denny's Pantry, 496 Bernardston Rd. Greenfield, MA. Brad Councilman bc@councilman.com

3rd Friday of the month: MTARA Meeting, 7 pm, Castle Of Knights, 1599 Memorial Drive, Chicopee, MA, 01020 <https://mtara.org/>

4th Friday of the month: The Western Mass VE Team (WMVET) VE sessions at the Holyoke Hospital Auxiliary Room beginning every 4th Friday at 6pm to perform VE exams. E-mail Jim, KK1W, kk1w.jim@gmail.com. Call or text 413-237-4666. Need directions? <http://www.hcra.org/meeting-location/>

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**Here is your fabulous next
issue of Zero Beat!**

Our 77th Year as an ARRL Affiliated Club

**Hampden County Radio Association
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