Meeting Update!

The Holyoke Hospital has opened their meeting room to us once again. Beginning in September in-person meeting's are back! Need directions? www.hcra.org/meeting-location

Welcome New Members

Do you know a ham who's not a member of the HCRA?

Have them Join Today!

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From the editor,

February 2023

It's hard to believe, but we're already into February! The days are getting longer with each day that passes. Pretty soon, we'll all be complaining that it's too hot outside, but if we didn't complain, we wouldn't be New Englanders, would we?

This issue has Part 2 of a fantastic series of articles by Bill, W1FMX, that will run over the next few issues about bringing "boat anchors" back to life!

There are lots and lots of features in this issue, more than I can describe here, but I'll try to give you a condensed version of "what's inside" the February issue.

A short time ago, Larry created a questionnaire about club stuff, but only a few members responded! In this issue, we will try once again to have everyone step up and be a big part of the future of your club! More details are on page 9.

So far, three Share The Knowledge (STK) meetings have been held, and all have been great! More topics and Zoom links are now on page 3. All STK meetings are recorded and, if not already, will be available on hcra.org very soon.

We are still searching for someone to record the regular club meetings. This will benefit those members who cannot attend an in-person meeting for one reason or another. This does not require expensive equipment; even a laptop camera can be used! If someone can step-up and do this, your club will appreciate it. Email Larry, W1AST, at w1ast@arrl.net for all the details.

Want to see your shack in Zero Beat? Email a few photos and a brief description to kd1ku@arrl.net. Don't forget to get your raffle tickets for a chance at winning that beautiful Geochron Atlas 4K on page 11.

73, Ken - KD1KU

Friday February 3rd

Regular Club Meeting!

The guest speaker for February is Tom Vinson, NY0V, who will be giving a presentation on his involvement in a special expedition tracing the path of Amelia Earhart, replicating the radio communications that were in use at that time! The meeting begins at 7:30 pm, doors open at 7 pm.

Regular club meetings are held at the Holyoke Medical Center Auxiliary Conference Center at 575 Beech Street, Holyoke, MA, 01040. **Need directions? Click here:** http://www.hcra.org/meeting-location/

Upcoming Meetings and Guest Speakers





Tim Duffy, K3LR will be our September guest speaker. Tim is from the K3LR SuperStation in West Middlesex, PA. Don't miss his presentation!

2022





This month's guest speaker is Rockwell, WW1X, who will be presenting and demonstrating Remote Ham Radio in-person from the Holyoke Hospital



HCRA's Annual Auction is Back at the November Meeting! Ham Radio Gear and Related Accessories ONLY! NO Computers, Monitors or PC Parts!



The Annual HCRA Holiday Party at The Steaming Tender Restaurant Dec 5th.

Join us for a Night of Great Food and Fun with your Fellow Hams.



Tim Carter, W3ATB is giving a presentation on the New England Forrest Road Rally LIVE & in-person! Tim is responsible for the communications involving 45 hams & more. Info at https://newenglandforestrally.com



Tom Vinson, NYOV will be giving a virtual presentation on his involvement in a special expedition tracing the path of Amelia Earhart and to replicate the radio communications that were in use at that time!



Guest Speaker Fred Kemmerr, AB10C with a special virtual presentation all about "Adventures In Bora Bora" DX'ing from the South Pacific



2023

Show and Tell is back... Enter your projects and win great prizes!

This is always one of the most popular & interesting meeting.

Get your projects built as prizes will be awarded!



Attention HCRA Members!

Bring & demonstrate your favorite portable & QRP rigs to the May meeting.

This will be great fun, just in time for the warmer weather!



2023 Elections, Field Day prep & more. Consider running for a Board of Directors position, Plus, virtual guest speaker Adrian Zeffert, AB2IX with tips from the test bench, Solving common issues with simple test equipment.

2023

ZERO BEAT February 2023

SHARE THE KNOWLEDGE MEETINGS

STK Zoom Meeting Schedule for 2023

Share the Knowledge Zoom meetings are back again in 2023 for everyone's enjoyment

Once again, Larry, W1AST has worked extremely hard to find and host these exciting presentations! If you have a suggestion for a topic or would like to give a presentation contact Larry at w1ast@arrl.net

January 10th - 7pm	Everything About a DX Marathon	By Mark, WC3W
January 17th - 7pm	All About Reverse Beacons & What They Do	By Peter Smith, N4ZR
January 24th - 7pm	9 Band DXCC on a Small Lot with Wires	By Mark, KE1IU
February 21st - 7pm	Tools for the Ham Operator (Part One)	By Bob, K1YO
https://us02v	web.zoom.us/j/84974004235?pwd=OHk2TTIOY0VrOE	E5DMmNsemNzWU5Bdz09
February 28th - 7pm	Tools for the Ham Operator (Part Two)	By Bob, K1YO
https://us0	2web.zoom.us/j/81172992428?pwd=emoxeko1QkVa\	VUloekNkMzhBeUhzZz09
March 14th - 7pm	A Modern Guide to Radio Teletype (RTTY)	By Juergen, NV1Q
https://us	02web.zoom.us/j/83967751507?pwd=dkhNd1pjOEZj	d1lxcDFZc1lyT0F0UT09
March 28th - 7pm	The YLRL (Young Ladies Radio League)	Barbara, KC1KGS & Anne, WB1ARU
https://us02	ı web.zoom.us/j/84212172078?pwd=REhrTHA3QkNY\ '	NVpDUUIvOTVsVzBkdz09
April 11th - 7pm	All About the ARRL and You!	By Ray, AA1SE
https://us0	02web.zoom.us/j/88265213992?pwd=N2piU1dCUndy	Z0IBbFh6QjA0TjVnQT09

1948 ~ 2023 75 Years as an ARRL Affiliated Club

January Share The Knowledge Video Link

All of the STK meetings have all been presented for the month of January. All three STK Zoom meetings were extremely interesting!

If you missed them click below.

s were extremely interesting! click below.

https://www.youtube.com/@HampdenCountyRA/videos

ZERO BEAT February 2023

FROM THE PRESIDENTS SHACK

By Larry Krainson, W1AST



February 2023

Five months ago, we started the annual HCRA membership drive. Every September 1st, everyone who has paid for one year of membership, your dues have expired.

For an unknown reason, we had a much larger than expected number of people who did **NOT** renew this year! In some cases, upon speaking with those people, they were surprised to learn they had forgotten to renew. You could be one of these people. Would you please visit the link below and check to see if your name is on the membership list?

http://www.hcra.org/current-members

Go down the list and see if you are on it. If you are not, would you please renew by going here:

http://www.hcra.org/online-new-membership-application-and-renewal

I find that one year goes by so darn quickly that when I renew, I do so for more than one year. Usually, I do two or three years at once and do not have to remember again the next September 1st. It really does make it so much easier.

So, what do your dues get used for? The HCRA does not have repeaters. But we do have yearly expenses. Here is a short list of some of the things we use your dues for.

- Maintaining the website
- Yearly Zoom subscription
- Door and raffle prizes throughout each year
- Show and Tell prizes
- Subsidizing the Holiday Party & Door Prizes
- Field Day equipment
- Trailer maintenance
- Donation to the Hospital for room use
- Donation to the School Street Park in Agawam for use for Field Day
- Yearly liability insurance
- Yearly equipment insurance

These are just the items off the top of my head. I know there are even more.

Your dues every year help keep this club running. By renewing, you are helping to do just that.

Please look at the membership list and renew if your name is not on the list!

Continued on page 5





FROM THE PRESIDENTS SHACK CONT'D

<u>The New Year's Foxhunt</u> in CT. was lots of fun! Ken, KD1KU, my friend Howard, AC1MN (from central MA), and I joined in the fun. We started at the Wallops school parking lot in South Windsor, CT at 1 pm and we were one, of a dozen cars on the hunt.

We took our readings and headed north. We took 3 more readings in Enfield before driving right up to the fox in a little less than an hour. We were third, just 15 minutes behind first and 5 minutes behind second. The New Year's Day fox was hiding in Brainerd Park in Enfield CT. It was just 2.5 air miles from my house.

The hunt was great fun and reminded us, hunters, how much we enjoy hunting that elusive fox.

Once it starts getting warmer. We are going to do some training on how to find a fox box in a local park and then start hiding the fox boxes again. We hope you will join the fun in hunting down the fox.

<u>Please join us</u> for a very interesting February meeting. Gary, AA1UE has been hard at work finding guest speakers. Some speakers are still hesitant on speaking in person. These will be in-person virtual meetings where you can still socialize with your friends and through the magic of Zoom, with the guest speaker.

Tom Vinson, NY0V will be giving a presentation on his involvement in a special expedition tracing the path of Amelia Earhart and replicating the radio communications that were in use at that time. This sounds like a fascinating meeting and I hope you will join us both in person and on Zoom.

Speaking of Zoom, we are still looking for someone to broadcast the meetings on Zoom every month. So far no one has stepped up. We are still looking for someone to do this.

You can do so with a laptop and webcam or a much more elaborate camera and microphone setup.

Can you do this for the club?

<u>If you attended Winter Field Day</u> with the FCARC and HCRA at the Holyoke Range, then you got to see some of the really cool, little QRP rigs that are out there now. Some are available for less than \$100 for a multi-band QRP, SSB, CW, and even a digital rig. There should be photos in the March ZeroBeat plus more info on the fun we had at this dual club gathering.

<u>Winter is kit building time or Project starting time</u>. Every April is the annual Show and Tell. A meeting where you get 10 minutes to show and discuss your recent kit or project build. It's a very fun time for all that participate. This year we will be in person so you will be able to see and touch and hear and discuss the projects. Did you build a radio recently, some kit? Any kit? Bring it to Show and Tell and tell us about it.

Last year all presenters won a \$25 Home Depot gift card. Could that be you this year?

Continued on page 6

Previous Meetings and STK are on the HCRA YouTube Channel

Past meeting videos and STK can be viewed at http://www.hcra.org/category/videos/ or on the HCRA YouTube Channel at: https://www.youtube.com/user/HampdenCountyRA If you're on YouTube please don't forget to click on the subscribe button!

FROM THE PRESIDENTS SHACK CONT'D

Volunteers On the Air, aka VOTA:

Every volunteer is given a point value as is every member. You can't add up your points if for example, like myself, a life member, field volunteer, affiliated club president. I will be assigned the highest point value for one of those and that is what working me is worth.

You can read more at: https://vota.arrl.org

You can also earn points by contacting each state as they will be on twice a year. Massachusetts will be on this spring between April 12th and 18th. I happen to be the state coordinator. Would you like to be an activator for W1AW/1? If so, contact me directly to learn more. In the meantime, start working those other states. Each one is worth 5 points!

VOTA is year-long as it started on January 1st and ends on December 31st. It's a fun way to earn a certificate. Once a few weeks have gone by, a leader board will be posted where you can track your progress.

If you are not on LOTW (Logbook of The World), now is a great time to sign up and get connected!

Are you ready for Bouvet Island - 3Y0J?

Bouvet is one of the most desired DX entities. It's number 2 on the clublog most wanted entity. I heard they are hoping to make 200,000 QSO's. I hope to be at least one of those!

Much more information can be found at: https://www.3y0j.no

I do hope to hear you on the HF bands. Now is the time to get on as the bands are exploding with activity. This is very exciting and you do not want to miss out!

I hope to see you at the February 3rd HCRA meeting!

73,

Larry, W1AST HCRA President

Johnny Lenville, KI1A - Former HCRA President now a Silent Key

What happens when you mix "motorcycle gang look" with ham radio? You get Johnny Lenville, KI1A. Johnny passed away recently at an early 53 years old. Back around 16 years ago he was very active in the HCRA. Johnny took on a Mentor/Elmer status helping others to understand electronics. He helped teach ham classes and helped the students understand electronics. He helped my son Jacob, KB1NSN, pass his general.

For a year around 14-15 years ago, Johnny was president of the HCRA. It was a fun year as he was always happy and willing to get involved and lend a hand to anyone who needed assistance.

As his life changed, he drifted away from ham radio, and other than the occasional comment on Facebook, I lost touch with him. Then a year before Covid, he resumed attending HCRA meetings again and was getting on the air. I remember him saying he bought a Xiegu radio, a portable antenna, and battery and would sit on his deck, operate outside, and have a blast making contacts. Then Covid hit, and I lost touch with him again. I heard he had a heart attack last summer and had bypass surgery with complications. Unfortunately, in mid-January 2023, he became a silent key. I will miss him as he was a good guy with a good sense of humor who was always enjoyable to be around.

73 Johnny, Larry, W1AST

SHOW & TELL IS COMING

The April meeting is known for Show & Tell, are you ready?

Next April marks the return of the inperson Show & Tell. I certainly hope everyone has nearly completed their builds and projects for this meeting. If not what are you waiting for?

Show & Tell presenters will compete for prizes or in last year's Zoom Show & Tell everyone who participated received a gift card to Home Depot.

No matter if it's something you're building from a kit or maybe it's something you've designed and built from scratch all are welcome at the April meeting!



Whatever you're building, make sure to bring it to the Show & Tell presentation at next Aprils meeting at the Holyoke Hospital Auxiliary Conference Center at 575 Beech Street, Holyoke, Massachusetts 01040.

If you need directions simply follow this link: http://www.hcra.org/meeting-location/

See everybody next April for the 2023 Show & Tell meeting!

HCRA CLUB BUILD

Build an End-Fed Half-Wave Antenna with a Little Help from your Club

Now that we're back to in-person meetings it's time we do a club kit build. What should we build... was the natural next question. How about an End Fed Half Wave antenna?

Whether you're a brand new ham or just getting back into the hobby or an OG, this antenna simply cannot be beaten! Dollar for dollar it's a great investment that can be used as a primary antenna for new hams or a perfect addition to your POTA or SOTA tool bag.

Help soldering and assembling the antenna will be available if it is needed, all you need is a willingness to learn while having fun doing it. The cost of this build is only \$65 with a minimum \$40 deposit or payment in full when you



Photo by Bob Inderbitzen, NQ1R

sign-up for this build class. This will be held at the Holyoke Medical Center's Auxiliary Conference Center, where are regular club meetings are held. Need directions? Go to: http://www.hcra.org/meeting-location/

If you're interested in being a part of this build contact Larry, W1AST at w1ast@arrl.net

The build date will be announced once we know how many kits will be built so they can be ordered.

ZERO BEAT February 2023

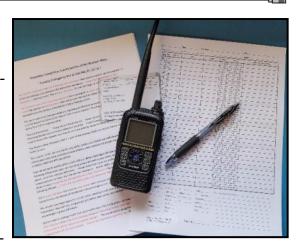
ARES NET UPDATE

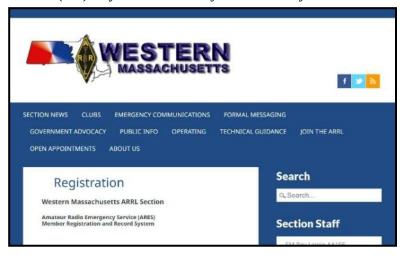
WMA ARES Nets & More by Smitty, KCIIKA ~ ASEC Net Manager

Greetings everyone. Looks like mother nature can't make up her mind on which season we are in. I am enjoying the break from the Winter weather and fewer Skywarn nets. It will be interesting to see what February and March bring.

One question I often get, is, how do I join ARES? Where do I start?

The easy answer is to go to https://wma.arrl.org/registration/ and submit your information. That will get the wheels turning. After you submit your information, your Section Manager (SM) should receive the request and forward it to the Emergency Coordinator (EC) in your area so they can contact you.





Our SM is Ray Lajoie, AA1SE. Under Ray are Section Emergency Coordinators (SEC), Western MA has a new SEC, Charles Chandler, WS1L. Assisting the SEC are Assistant Section Emergency Coordinators (ASEC). I am the ASEC for WMA (Western Mass) responsible for the nets. Each county gets its own EC. There are other positions and field assignments as part of the ARES structure.

This is an all-volunteer group and belonging is just a matter of filling out the application. For RACES, Radio Amateur Civilian Emer-

gency Services, you must apply to a RACES team, be vetted, and be appointed a member. For more information on ARES and RACES you can go to ARRL and check out the Volunteering section. There is also another group called Skywarn that you need to take training to join.

Well, that's about it for this month. More next month on ARES structure and some suggested training to take. As well as how to sign into an ARES net and where they are. Hope to see everyone at the February club meeting and hearing everyone on the nets.

73,

Smitty, KC1IKA

ASEC, Net Manager, WMA ARES, Skywarn Net Coordinator

NUTS AND VOLTS

ARRL & HCRA News Plus Odds & Ends & Other Worthy Items!

Western Mass VE Team Resumes Exams!

I am pleased to announce that the Western Mass VE Team (WMVET) has been granted the opportunity to resume VE sessions at the Holyoke Hospital Auxiliary Conference Room. Beginning January 27th and every 4th Friday of 2023 we have scheduled for 6 pm, 2 hours of use of the hall to perform VE exams. I would ask that you pass this information along to anyone who can benefit or would like to volunteer to be an examiner on these dates. We will need to have at least 2 others to assist on these dates or I will have to cancel that session. You can e-mail me at w1fab@arrl.net or call / text to 413-575-2950 if you are able to assist.

Can You Help Teach A Tech Class?

Ray, AA1SE, your WMA Section Manager is looking for volunteers to help teach a Technician license class in early 2023. These classes will be virtual and taught via Zoom, not an in-person class.

Help Ray and many others as well as all those new licensees! VE's & HCRA members are welcome. If you can help Ray, contact him at the info below, don't forget to mention you're a HCRA member! Ray, AA1SE at ray.aa1se@gmail.com

HCRA Needs your Call Signs

HCRA President, Larry, W1AST has come up with something very cool, but he needs your help, provided you have more than one callsign that is.

Have you changed your call from your original FCC assigned call sign to what you have now?

Example: I used to be WB1DBY and I'm now W1AST. If you can help, please use the contact below. Larry, W1AST at w1ast@arrl.net

HCRA Wants to Know

A little while back, Larry created a questionnaire about club stuff. Only a few members responded to it, so we're going to give it another try. It's titled "HCRA Wants to Know" and only takes 2 or 3 minutes to complete. Your club's direction is in your hands, please take a minute to fill it out!

https://docs.google.com/forms/d/1rLse0qroB_96-OSjXrOvOo-0JxDvrfNC-xFVwUA4xm0/edit

This questionnaire will help the board understand what members want from the board, what meetings to plan, ect. The results will be shared with the membership soon. Please take a minute to fill it out!

Western Massachusetts Section News: https://wma.arrl.org

ARRL New England Division: https://nediv.arrl.org

ARRL Western Massachusetts Section Manager - Raymond P. Lajoie, AA1SE - aa1se@arrl.org

To learn more about an ARRL membership, and how it can help you - http://www.arrl.org/membership

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NUTS AND VOLTS CONT'D

ARRL & HCRA News and Miscellaneous News Worthy Items!

Worked All HCRA Award

Larry, W1AST has been working on this since last year but decided to hold it back until 2023. Why? 2023 is the year the club becomes 75 years old and it has been associated with the ARRL for 75 years. The goal is to work 10 HCRA members on HF, any mode, but 10 different members. Submit your log to w1ast@arrl.net and earn a commemorative certificate celebrating our 75th anniversary! This only runs for 2023. A little something special for our 75th year. Beginning January 1st, running till December 31st. This is just one of several special HCRA activities. Watch for other special club happenings throughout this year.

Chuck, WS1L ~ New Emergency Coordinator

Please join me in welcoming Chuck Chandler, WS1L as the new Section Emergency Coordinator. Chuck is from North Adams and his background is in law enforcement.

I also want to wish everyone a great New Year. I hope there is much prosperity and happiness in 2023. Thank you, 73 Ray, AA1SE

Bud, W1NSK, New Section Manager

Bud Kozloff, W1NSK, has been appointed as the ARRL Connecticut Section Manager starting on January 1, 2023. Kozloff, who lives in Redding, Connecticut, is currently the president of the Candlewood Amateur Radio Association and a member of the Yankee Clipper Contest Club.

Kozloff takes the reins of the Connecticut Section Field Organization from Betsey Doane, K1EIC, who was appointed by ARRL Headquarters as on a temporary basis until a full-time Section Manager could be appointed.

Wanted, Volunteers to Staff Booth

HCRA needs a few members to volunteer to help staff our booth at the 2023 MTARA Hamfest for an hour or two on March 4th beginning at 7:30 am. There will be club donations and raffle tickets to sell before the big drawing sometime around noon.

Please contact Larry, W1AST at w1ast@arrl.net or Ken, KD1KU at kd1ku@arrl.net.

You might already be going to the Hamfest so volunteer for an hour or so and still have time to get some great bargains at the flea!

4<u>\\\</u>



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HCRA'S BIG RAFFLE

Win a Geochron Atlas 4k plus a \$300 Gift Card to Best Buy!

The HCRA big raffle has returned for 2023! Tickets are available at club meetings, from board members, on $\underline{\text{hcra.org}}$ using the donate button (add \$2 to cover PayPal fees) or contact Larry, W1AST. Only 250 tickets will be sold! Drawing to be held when all 250 tickets are sold, or at the MTARA Flea Market in March. Tickets are only \$10 each so buy several to increase your odds of winning!

Raffle Details:

- ◆ Tickets are \$10 each with a maximum of 250 to be sold
- Prize: Geochron Atlas 4k (Monitor not included)
- ◆ Additional \$300 Gift Certificate to Best Buy for the monitor of your choice
- Drawing: When 250 Tickets are sold or at the MTARA Hamfest in March, 2023
- ◆ Tickets are available at club meetings, hcra.org or Larry, w1ast@arrl.net

Inspired by our Geochron mechanical world clocks, the Geochron Digital 4k is a high resolution display in the digital world. Five map sets are overlaid by intricate patterns of human activity, and a live layer of the current position of the International Space Station. Use Location Pins to label important places, and switch time zones on the fly. Comes with a one year warranty.





Y ou can buy raffle tickets at future HCRA meetings, by contacting Larry, W1AST at $\underline{w1ast@arr1.net}$, from board members or they can be had at $\underline{hcra.org}$ by clicking the donate button, please add \$2 to cover PayPal fees.

Or by contacting any of the HCRA Board Members who's contact information is in the back of Zero Beat.

Don't Hesitate, Get Your Tickets Today. 250 tickets are sure to sellout FAST!

"BOAT ANCHORS"

Getting a "Boat Anchor" Back On the Air - By Bill, WIFMX (Part II)

In this article, we'll talk about getting some of the background that you will need to work on Boat Anchors if you have not done this before, or are not an electronics technician or a radio engineer. By the way, it is essential to keep in mind that we are "amateur" radio operators which means that even if repairing radios is new to you, it is important not to be discouraged from at least trying. Hiram Percy Maxim, the "Father of Ham Radio", once said: "...trying innumerable experiments, rebuilding his apparatus time on end, never giving up are a religion with the amateur."

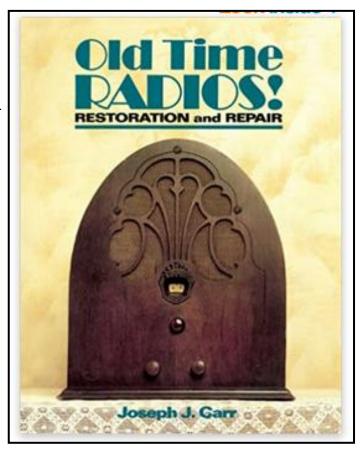
Incidentally, a reader might ask, "What is a "Boat Anchor"? Well, radios of the tube era were heavy – finding some weighing 50 pounds or more is not unusual. A fair amount of the weight was contributed by transformers as these radios required high voltage. The chassis and enclosures were large and heavy, too. So, the term "Boat Anchor" is a humorous and somewhat affectionate way of referring to these pieces of vintage Ham equipment.

If you are not familiar with how vacuum tubes work, or even how they are constructed, I would recommend reading the book, "Old Time Radios! Restoration and Repair" by Joseph J. Carr (Tab Books, 1990) which is available from Amazon and other sellers for about \$20-\$25. Carr is a Ham Radio operator, but the book is focused on working with antique and classic AM radios/receivers that would have been used in the home during the first half of the Twentieth Century.

The author clearly explains the development and theory of radios from crystal sets to tube radios, how electron tubes work, as well as discussing power supplies, speakers, and their components such as resistors and capacitors. There is a section on troubleshooting and aligning radios, a chapter on test equipment, guidance on how to clean up old radios, and information on how to be safe while working on them.

Carr does not discuss transmitters, but, if one understands how a receiver works, it is not difficult then to understand transmitters. After reading Carr's book, you'll be basically ready to tackle your first radio project.

In addition to Carr's book, another excellent source of information is the ARRL Handbook (2023). In Volume 6, there is a section on Test Equipment, as well as one on Troubleshooting and Maintenance, which includes a chapter on the repair and restoration of vintage gear.



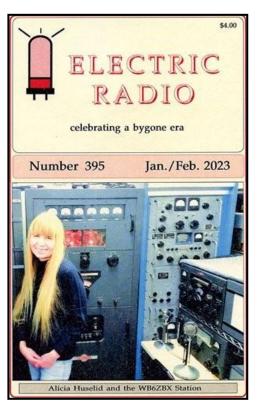
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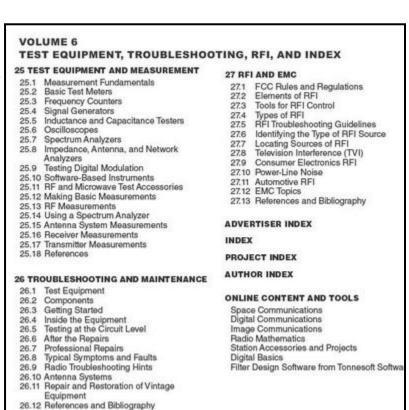
"BOAT ANCHORS" CONT'D

Getting a "Boat Anchor" Back On the Air - By Bill, WIFMX (Part II)

If you wish to take a "deep dive" into "old fashioned" radio repair, a good book to read is "Elements of Radio Servicing" by William Marcus and Alex Levy (McGraw Hill Books) – there are several editions dating to the 1940s and 1950s; only used copies costing approximately \$50-\$70 are available. The book was geared toward educating professional radio service persons from that era, so radio theory is presented as well as "how to" advice and information.

A good magazine for those interested in restoring old Ham gear is Electric Radio which features articles on restoring and maintaining various types of vintage radio equipment. The magazine also features listings of on-air nets for enthusiasts of different brands of vintage radios. The website for the magazine is: https://www.ermag.com





There is much information to be found on the internet, but some of it should be carefully screened. One reliable source of "How to Videos" on repairing classic and antique radios is the "Mr. Carlson's Lab" series which can be found on YouTube. Additionally, "Mr. Carlson's Lab" offers a subscription to course content related to electronic repair (https://www.patreon.com/MrCarlsonsLab).

For those who subscribe to QRZ, https://www.qrz.com there is an excellent forum called "Boat Anchor" & Classic Equipment that can be found here: https://forums.qrz.com/index.php.

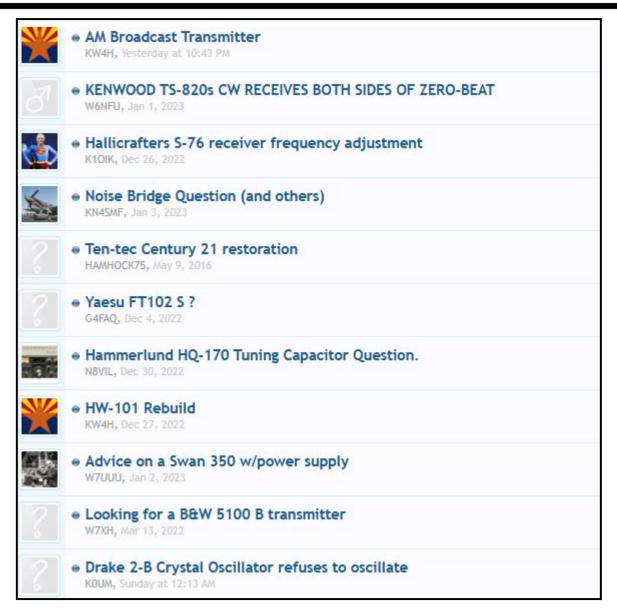
Here, members post questions about difficulties they are facing in repairing or restoring their vintage gear, and other Hams recommend solutions. Advice given in this forum is interesting and sound and covers a range of types of equipment. ("Boat Anchors" & Classic Equipment | QRZ Forums).

Continued on page 14



"BOAT ANCHORS" CONT'D

Getting a "Boat Anchor" Back On the Air - By Bill, WIFMX (Part II)



Acquiring a solid, basic understanding of electronics and troubleshooting is essential for anyone working on an old radio. Aside from knowing what to do, one also needs to know what to avoid – these old radios have some very high voltages (for example, inside the "cage" of the power amplifier tubes in a transceiver like a Heathkit HW-101, there could be around 800 volts) and that is dangerous, sometimes, even lethal. So, this basic knowledge will help keep you safe so you can enjoy riding the airwaves with your restored vintage rig.

In the next part of this series, we'll look at some of the tools and equipment you'll be using to repair radios.

Editors Note:

This series will be continuing in upcoming issues beginning with the January 2023 issue.

73,

Bill, W1FMX

SHOW YOUR SHACK!

This Month's Featured Shack is that of Buddy, W2BUD

This months shack is none other than the Shack of Buddy, W2BUD. He has a nice mix of old vs new with most radios being of the Boat Anchor type. It doesn't matter if it's new or old... what matters is how you are able to put them to good use. Want to see your shack featured in Zero Beat? It's easy, send a couple of photos and a brief description to myself at kd1ku@arrl.net. Now lets see some shacks! [Editor]



Above: Buddy, W2BUD's Shack is very well laid out with lots of boat anchors and some newer HF rigs too.

- The top row from the left, are his Collins Line
- In the center is his Kenwood 440S and to the right is my Vibroplex Keyer
- On the next row is Buddy's Heathkit HW-9 QRP set up
- To the right is his Heathkit SB-200 amp, above that is his trusty old Kenwood TS-520S
- These are the early rigs I bought along the way
- Plus, he has microphones wired for all these radios. Plus, various CW keys in the center cabinet
- Everything works perfectly and Buddy has fun switching between radios to use
- That's my shack guys I hope to work the HCRA members during this year!

VOLUNTEERS ON THE AIR

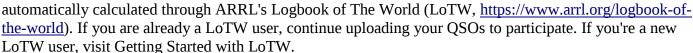
ARRL's VOTA Operating Event has Begun!

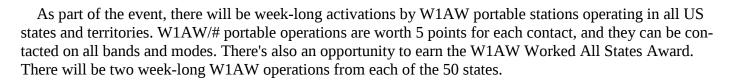
2023 is the Year of the Volunteer at the ARRL.

It's a way for the league to recognize volunteers and create an operating event too. It is a way to encourage volunteers to make contacts with ARRL members and other volunteers. By submitting your log to LOTW and then a score is automatically figured out based on who you are and whom you spoke with.

ARRL's yearlong operating event, Volunteers On the Air, or VOTA, began January 1, 2023. The event is organized as part of ARRL's 2023 theme, "Year of the Volunteers," which recognizes the contributions of ARRL member volunteers, and offers opportunities to become more active and involved in amateur radio and ARRL.

VOTA encourages participants to make contacts with ARRL members and volunteers, earning points for each contact. Point values have been assigned (see the Points Table at vota.arrl.org). All scoring is





Later in the event, an online scoreboard, the VOTA Leaderboard, will be activated, allowing each participant to see how their score measures up with other participants throughout the year.

Only two-way contacts qualify for points (cross-band, cross-mode, and repeater contacts are not valid), using any mode (CW, phone, or digital) - including EME and satellite operations - on 160, 80, 40, 20, 15, 10, 6, 2, and 1.25 meters, as well as 70 centimeters, VHF/UHF/SHF, and microwave bands available to US amateurs above 2 meters (2190-, 630-, 60-, 30-, 17-, and 12-meter band contacts are not counted for credit in this event).

Larry, W1AST is the Massachusetts state coordinator, you can earn points by contacting each state as they will be on twice a year. Massachusetts will be on this spring between April 12th and 18th. Every volunteer is given a point value as is every member. You can't add up your points if for example, Larry, a life ARRL member, field volunteer, affiliated club president. He will be assigned the highest point value for one of those and that's what working Larry is worth.

Would you like to be an activator for W1AW/1? If so, contact Larry, W1AST at <u>w1ast@arrl.com</u> to learn more. In the meantime, start working those other states. Each one is worth 5 points!

Learn more about VOTA at: https://vota.arrl.org



REP. BILL JOHNSON INTRODUCES BILL

Introduces a Bill to Eliminate Private Land Use Restrictions on Ham Radio

Congressman Bill Johnson (OH-6) introduced a bill in the U.S. House of Representatives (H.R.9670) on Thursday, December 22, 2022, to eliminate private land use restrictions that prohibit, restrict, or impair the ability of an Amateur Radio Operator from operating and installing amateur station antennas on property subject to the control of the Amateur Radio Operator.

The exponential growth of communities subject to private land use restrictions that prohibit both the operation of Amateur Radio and the installation of amateur station antennas has significantly restricted the growth of the Amateur Radio Service. These restrictions are pervasive in private common interest residential communities such as single-family subdivisions, condominiums, cooperatives, gated communities, master planned communities, planned unit developments, and communities governed by community associations. The restrictions have particularly impacted the ability of Amateur Radio to fulfill its statutorily mandated duty of serving as a voluntary noncommercial emergency communications service.

Congress in 1996 directed the Federal Communications Commission (FCC) to promulgate regulations (Public Law 104-104, title II, section 207, 110 Stat. 114; 47 U.S.C. 303 note) that have preempted all private land use restrictions applicable to exterior communications facilities that impair the ability of citizens to receive television broadcast signals, direct broadcast satellite services, or multichannel multipoint distribution services, or to transmit and receive wireless internet services. ARRL attempts to obtain similar relief for Amateur Radio were rejected by the FCC with a statement such relief would have to come from Congress.

ARRL Legislative Advocacy Committee Chairman John Robert Stratton, N5AUS, noted that Congress, in 1994 by Joint Resolution, S.J.Res.90/H.J.Res.199, declared that regulations at all levels of government should facilitate and encourage the effective operation of Amateur Radio from residences as a public benefit. He continued by stating that "H.R.9670, the Amateur Radio Emergency Preparedness Act, is intended to fulfill that mandate and preserve the ability of Amateur Radio Operators to continue to serve as a key component of American critical communications infrastructure."

ARRL President Rick Roderick, K5UR, and Mr. Stratton both extended on behalf of the ARRL, its Members, and the Amateur Radio community their thanks and appreciation for the leadership of Rep. Johnson in his tireless efforts to support and protect the rights of all Amateur Radio Operators.

The full text of the bill in PDF format is available online at, https://www.arrl.org/files/file/HR9670/HR9670-Amateur-Radio-Emergency-Preparedness-Act.pdf

CLUB COMMISSION PROGRAM

Join or Renew your ARRL Membership & the HCRA Earns a Commission

One benefit of being an ARRL Affiliated Club is your club earns a commission for recruiting new ARRL members and ARRL member renewals! Simply download the form, fill it out completely with payment info and mail it directly to: **Hampden County Radio Association, P.O. Box 562, Agawam, MA. 01001**

When joining or renewing your ARRL membership please download the form using the handy link below and send it to the HCRA P.O. Box above and NOT directly to the ARRL.

http://www.arrl.org/files/file/Clubs/2022%20Affiliated%20Club%20Membership%20Application.pdf

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Name				Call Sign
Address				
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 My Family Member is J 	Joining or Rea	newing: (A	Annually \$1	0 per member)
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Name				
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Your Annual Memb	bership Du		1 Year	Check One
	bership Du	2 Years \$95	1 Year \$49	
Circle Your Choice	bership Du	2 Years		Check One ☐ QST, ARRL's membership journal
Circle Your Choice US Membership	3 Years \$140 \$140	2 Years \$95	\$49	Check One ☐ QST, ARRL's membership journal for active radio amateurs (12 monthly
Circle Your Choice US Membership International (Digital Only) International (with mailed QST Blind	3 Years \$140 \$140 \$1217 \$30	2 Years \$95 \$95 \$147 \$20	\$49 \$49 \$76 \$10	Check One ☐ QST, ARRL's membership journal for active radio amateurs (12 monthly issues)
Circle Your Choice US Membership International (Digital Only) International (with mailed QS7 Blind Family	3 Years \$140 \$140 \$1217	2 Years \$95 \$95 \$147	\$49 \$49 \$76 \$10 \$10	Check One QST, ARRL's membership journal for active radio amateurs (12 monthly issues) On the Air, Beginner-to-intermediate-level help and advice (6 bimonthly issues)
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Circle Your Choice US Membership International (Digital Only) International (with mailed QST Blind Family Student Payment Enclosed is m	3 Years \$140 \$140 \$140 \$130 \$140 \$140 \$140 \$140 \$140 \$140 \$140 \$14	2 Years \$95 \$95 \$147 \$20 \$20 \$	\$49 \$49 \$76 \$10 \$10 \$25	Check One QST, ARRL's membership journal for active radio amateurs (12 monthly issues) On the Air, Beginner-to-intermediate-level help and advice (6 bimonthly issues) Digital Only (All members can access the digital versions of both magazines) Charge Request

NEW DATES FOR NEAR-FEST!

NEAR-Fest XXXIII Date Change: April 28-29, 2023

NEAR-Fest XXXIII will be held on April 28th and 29th 2023 and not on its traditional date which always has been the first weekend in May every year since 2007. NEAR-Fest XXXIV scheduled for October 13th and 14th 2023 is NOT affected.

Last month the Deerfield Fair Association informed me that they booked two events, the NH Farm, Forest and Garden Show and the NH Arabian Horse Ass'n Show at the Fairgrounds for May 5th and 6th 2023 which is the weekend before Mothers Day. We were told we were welcome to hold the NEAR-Fest at the same time with the two other shows but there would be a "few small changes" to the parts of the Fairgrounds that we would be allowed to use.



Ben, KB1NZN, and I attended a meeting on Thursday December 15th with the DFA Directors and officers and were told that we would have to move what we consider the central part of the flea market to a remote area of the grounds to accommodate the horse show. Two of our food vendors, Patty and Angelino's, would also be affected.

Regretfully I decided the best course of action is to take a chance on the weather one week earlier and change the date. My team agrees with me. It's the best way to deal with it. We have full use of the grounds with no stinking and noisy horses and outsiders to bother us. I resisted it at first but changed my mind after discussing it with my colleagues who run the fester with me.

Is this a one-time thing or is it permanent? Depends on if the horse show comes back next spring. We could co-exist with the Farm Show but it is the horse show that causes us the problems because we use part of the grounds adjacent to the Horse Show ring and bleachers.

We apologize for any inconvenience that this may cause anyone.

Happy New Year my friends. Mike Crestohl, W1RC

Title: VE Exam @ MTARA Hamfest Chicopee MA

Location: 1599 Memorial Drive Chicopee (Castle of Knights)

When: Saturday, March 4, 2023 10:30 AM − 1:30 PM

Organizer: PVVET - Jeff Bail NT1K <main@FCARC-MA.groups.io>

Description: Candidates must pre-register: https://pvvet.org/

VE Exam -10:30 AM FREE Exams*

*FCC application fees may apply

Contact: Jeff Bail (NT1K) 413-238-1992

HOLIDAY PARTY PHOTO'S

2022 Holiday Party Photo Journal (The happy raffle winners faces)



ZERO BEAT February 2023

ITEM'S FOR SALE & WANTED

HCRA Items For Sale, Trade or Wanted



=

Yaesu FT-1000MP Mark V For Sale



Up for your consideration is a beautiful Yaesu FT-1000MK Mark V 160-10m 200 watt HF Rig.

This rig belonged to Norm, W1BMK (SK) and is being sold for his XYL, Betty, KB1CPZ.

Radio is in great condition and functions as it should. Comes with a MD-100 desk microphone, all manuals, paperwork and documentation.

Just a few of the features of this radio are:

- 200 Watts PEP Transmitter Output
- Class-A Power Amplifier Operation
- IDBT: Interlocked Digital Bandwidth Tracking System
- Variable RF Front-End Filter (Pre-selector)
- Enhanced Ergonomics: Multi-Function Shuttle Jog Dial
- Powered by Internal P/S 110v or 13.8v external P/S More information can be found at <u>Yaesu.com</u> (below) Click link for complete details <u>FT-1000MK Mark V</u>

Asking \$1200 or Best Reasonable Offer

I'm helping a friend, Betty, KB1CPZ to sell this.

If you have any questions or would like to arrange to see this rig please contact me at: kd1ku@arrl.net



Yaesu MD-100 Desk Mic is included in sale







34th Annual

Amateur Radio & ** & Electronics Hamfest

Saturday March 4, 2023

Located

Castle of Knights

1599 Memorial Drive, Chicopee, MA 01020

www.castleofknights.com

Directions

From North:

*Take I-91 South to the Mass Turnpike. Take exit 5 (Rte. 33) off the Turnpike. Bear to the right to the first traffic light.

Turn left onto Memorial Drive and travel north for about two miles.

From South:

*Take I-91 North to the Mass. Turnpike. Take exit 5 (Rte. 33) off the Turnpike. Bear to the right to the first traffic light.

Turn left onto Memorial Drive and travel north for about two miles.

From East:

*Travel on the Mass. Turnpike toward West. Take exit 5 (Rte. 33) off the Turnpike. Bear to the right to the first traffic light.

Turn left onto Memorial Drive and travel north for about two miles.

From West:

*Travel on Mass. Turnpike toward East. Take exit 5 (Rte. 33) off the Turnpike. Bear to the right to the first traffic light.

Turn left onto Memorial Drive and travel north for about two miles.

	Mail- in Registration Form
Name	
Call sign	
Address	
City	State Zip
Phone (cell p	referred)
Email Addre	ss:
# of Tables_	x \$20.00 =
Is 120 VAC N	eeded?
Checks payable Mail to: Brian l	to: MTARA Mullarney-N1FI, 20 Spring Street,

Easthampton, MA 01027

*** The Details ***

Doors Open:

6:30 AM Vendors <u>only</u>; help available for loading and unloading

8:30 AM General Admission (8:00AM if Vendors ready!)

Admission:

Adults: \$5.00

Children: under age12 are FREE!

No Tailgating

Handicapped Parking Available

Snack Bar – Coffee, soda, donuts and breakfast sandwiches

Raffle Prizes - six (6) tickets for \$5.00

VE Exam -10:30 AM FREE Exams* Provided by PVVET

Candidates must pre-register for the exam prior to the Hamfest. Visit http://pvvet.org for registration and more information. *FCC application fees may apply Contact: Jeff Bail (NT1K) 413-238-1992

Additional Information:

http://www.mtara.org

Talk-In on 146.94 (127.3 PL)

Table Registrations contact:

Brian Mullarney - N1FI 20 Spring Street Easthampton, MA 01027 Tel. (860) 478-6790

N1FI@arrl.net





To download and print flyer click: https://www.qsl.net/n1em/AARC_Flea_Market_Flyer_2023.pdf



Algonquin Amateur Radio Club Marlborough, MA



AMATEUR FLEA MARKET

Saturday, February 18, 2023



Marlborough 1Lt Charles W. Whitcomb School

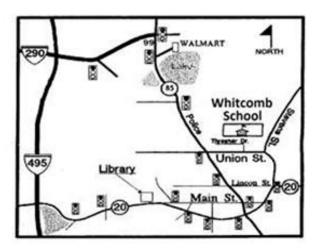
(formerly Intermediate/Middle School)
25 Union St. or
off Bolton St. (Rt. 85)
Marlborough, Massachusetts

6 ft. Tables (round and rectangular)
Tables are \$15.00 each if purchased by
February 10, 2023 (\$20.00 each accepted at the door if space is available)
Tables include vendor admission for one person.

SETUP TIME: 6:30 AM

For more information email: fleamarket@nlem.org

Talk In: N1EM/R 446.675 - (pl 88.5) Any COVID related updates will be on our web at: http://n1em.org Time: 9:00 AM to 1:00 PM General Admission: \$5.00 VEC Exams: 9:00 AM



Send	This	Form	For	Table	Reservations	with	Check	Payable	to:

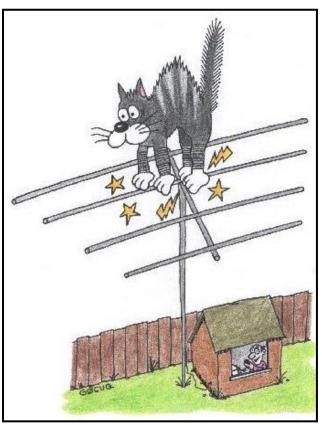
AARC, PO Box 258, Marlborough	h, MA 01752 (\$15.00 each table due by February 10)
Name:	Call:
Address:	No. Tables:
City:	State:Zip:
Telephone:()	Amount Enclosed: \$00
Email:	

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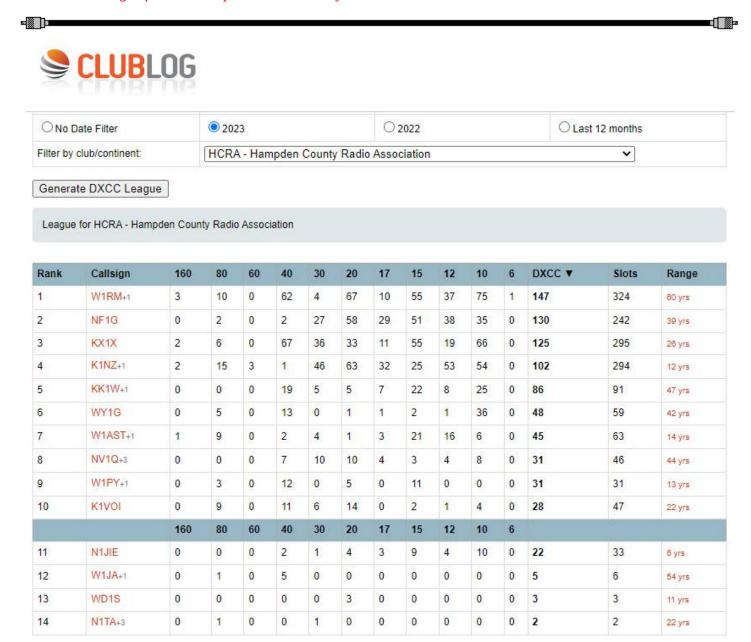


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Clublog update: Clublog can be accessed at https://clublog.org/league.php Signup is free, and there are a number of ways to lookup information. Give it a try, who knows... you just might like it!

This is the latest HCRA Clublog for 2023 - you can see who has been on the air hot and heavy this year! *HCRA Clublog Information Updated on January 28th 2023*



Do you know what Clublog is and what it can do for you?

If you have never used Clublog, need a refresher, or simply have the desire to learn as much as possible about Clublog or most anything else, go to the HCRA YouTube Channel and learn. 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.voutube.com/watch?v=qi2lKcORNbE&t=1s

ZERO BEAT February 2023





HCRA STUFF







Join Brown Baggers for Lunch

For the benefit of all HCRA members Brown Baggers is a friendly lunch get together that happens on the 1st and 3rd Wednesday of each month. It is held at <u>The Munich Haus Restaurant</u> in Chicopee Center at 12:00pm (Noon). Located at 13 Center St, Chicopee, MA. Across from City Hall or click the link above.

Enjoy lunch, conversation and camaraderie with your fellow hams. Everyone is welcome!

10 Meter Net

The HCRA 10 meter net is on the Winter schedule as of September 5th 2022, every Monday evening at 7 pm for the winter/spring months. Gary, KC1JZR is NCS. This is a great way for our newest HCRA members with a Tech or greater license to get some time on HF. Everyone is welcome to join in on 28.375 USB regardless of affiliation. Have any questions? Contact: kd1ku@arrl.net

Please take part in this fun rag chew type of net every Monday at 7pm on 28.375 usb

Share the Knowledge Zoom Meetings

Share the Knowledge Zoom meetings are back again in 2023 for everyone's knowledge and enjoyment! Beginning January 10th at 7 pm the first STK of the year is all about DX Marathon's by Mark, WC3W. Checkout the complete STK schedule in this and every issue of Zero Beat on page 3. Have a suggestion or topic for a STK meeting? Maybe you'd like to give a STK presentation? If you would like more info contact Larry, W1AST at w1ast@arrl.net

Memorial Page

All members now have the opportunity to honor club member SK's in the all new Memorial Page on hcra.org. This can be done by sending in the SK members name and callsign along with any text, stories and can also include photo's too. Send them to our webmaster, Vanessa, W1IRL at the following email address: webmaster@hcra.org

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 You Tube Channel link is below

For Sale Items

There is a For-Sale section that is for HCRA members. Any members who have a want, something to sell or even to trade.

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

HCRA Social Media Links

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

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

Twitter: https://twitter.com/HampdenCountyRA

Instagram: https://www.instagram.com/hampdencountyra

ZERO BEAT February 2023

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DOTS & DASHES THINGS THAT DON'T FIT ANYPLACE ELSE!

We Want Your Memories!

Do you have any memories of past HCRA events, club activities, or simply past club history? Anything is great, but the older the better! Your Board of Directors needs any info no matter how insignificant you may think it is. We would rather have too much information than not enough of it. This is all part of the year long planning of the HCRA's 75th Anniversary this year! If you have anything to submit please contact your Vice President at Ez, W1AEZ, at ez.w1aez@gmail.com

Club Commission Program

One of the benefits of being an ARRL Affiliated Club is that you receive a commission for recruiting new ARRL members and securing timely ARRL membership renewals. The structure for this program has been updated, the process has changed to make things easier for the clubs. The complication of adjusting funds around credit cards, checks, and cash has been eliminated. ARRL is now responsible for all of the processing. Clubs receive \$15 for each new membership or lapsed membership, for renewing members, clubs will now receive \$5. For more info visit: http://www.arrl.org/affiliated-club-benefits

Contests and Special Event Stations

ARRL Contest Search - http://www.arrl.org/contest-calendar

OMISS QSO Party - SSB | Feb 12th -13th | 1.8 - 28Mhz | Sat 1500z to Sun 1500z For complete details visit: https://omiss.net/Facelift/qsoparty.php

International DX Contest - CW | Feb 18th & 19th | 1.8 - 28Mhz | Sat 0000z to Sun 2359z For additional details and info visit: http://www.arrl.org/arrl-dx

Special Event Station Search - http://www.arrl.org/special-event-stations
60th Anniversary of the YLISSB - SES | Feb 9th - 12th | 1323z - 1323z | K4ICA
YL International Single Sideband System. 14.332, 14.240 - 14.340 & 7.230 - 7.260Mhz
For additional information: https://ylsystem.org

HCRA Member Outgoing QSL Service

QSL's will be sent to the ARRL Outgoing QSL Bureau quarterly on the following approximate dates

April 15th, June 15th, Sept 15th, and

Go to http://www.hcra.org/dx-qsl/ for complete information

or

Contact Paul, NFIG at nflg@arrl.net





Local Nets & Happenings

Sundays: 08:45 Western MA. VHF Emergency Net on

146.94, PL 127.3 W1TOM/R

Sundays: 09:15 Western MA. UHF Emergency Net on

443.200, PL 127.3 W1TOM/R

1st Monday:

RACES Drill, 18:45, 146.49 Simplex

Mondays: 19:00 7 pm (Local) HCRA 10 Meter Net 28.375 usb

New topic each week. Have an idea for a topic? kd1ku@arrl.net

Tuesdays: 1930-2000: 146.94, PL 127.3 - W1TOM/R - Hampshire

County Emergency Net

Wednesdays: 1930: MTARA Info net followed by the swap net &

the N1RLX simplex net on 146.94, PL 127.3 W1TOM/R

2000: MTARA Swap net: 146.94, PL 127.3 - W1TOM/R

2000: MTARA (N1RLX) Simplex Net, Check-in's 146.94, PL 127.3, then goes to 146.42 Simplex Immediately following the swap net

2100: Weather Net (Roger, K1PAI), 1st Thursday of every month: 147.090 MHz, All other Thursdays: 147.000, PL 127.3 - W1TOM/R

Join or Renew Your ARRL Membership!

ARRL members enjoy:

- QST Magazine
- Members-Only Web Services
- Technical Information Service
- Member Discounts
- Outgoing QSL Service
- Continuing Education
- ARRL as an Advocate
- Regulatory Information Branch
- Public Relations for Amateur Radio
- ARRL Field Organization
- ARRL-sponsored contests
- Operating Awards
- Local Clubs
- 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 at 7:30 pm HCRA Meeting. In-Person meetings began in Sept. 2022. Meetings start with a meet & greet with other members at 7pm followed by the regular meeting at 7:30pm sharp. http://www.hcra.org/

2nd Monday of the month 7:00pm, Franklin County Amateur Radio Club meeting. Virtual meetings via Zoom until it is safe to meet in person at the Greenfield Community College. http://www.fcarc.org/

Saturday before the FCARC meeting at 8am. Breakfast at Dennys Pantry in Greenfield (as Covid allows)

Event: FCARC Pioneer Valley Experimental Net

Location: 10 Meters 28.354 MHz

When: Every Wednesday morning, 9:00 am – 10:00 am Organizer: Brad Councilman bc@councilman.com

4th Friday of the month, The Western Mass VE Team (WMVET) VE sessions at the Holyoke Hospital Auxiliary Conference Room. Beginning January 27th and every 4th Friday at 6 pm to perform VE exams. E-mail Dave, W1FAB wa1dc@yahoo.com or call 413-575-2950. Need directions? http://www.hcra.org/meeting-location/

President - Larry Krainson, W1AST <u>w1ast@arrl.net</u>

Vice-President - Ez Moralez, W1AEZ

ez.w1aez@gmail.com

Treasurer - George Collins, KC1V

hcra.kc1v@gmail.com

Secretary - Paul Kelliher, NF1G

nf1g@arrl.net

Programs - Gary Thomas, AA1UE

aa1ue@amsat.org

Membership - John Plaster, K1VOI

k1voi_jp@charter.net

Technical - Bob Jeffway, WA1OJN

wa1ojn@jeffway.com

At Large - Josué Lugo Delgado, KP4JLD

tipoacrata@gmail.com

Newsletter - Ken Dion, KD1KU

kd1ku@arrl.net

Website - Vanessa Oquendo, W1IRL

webmaster@hcra.org

W1NY trustee, John, N1JIE n1jie@arrl.net

WB1Z trustee, Vanessa, W1IRL webmaster@hcra.org





Hampden County Radio Association's 75th Anniversary! 1948 ~ 2023



Here is your Fabulous Issue of Zero Beat!

Plenty to Read in Our Special 75th Anniversary Edition

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