



**Minuteman
Repeater
Association**

**The
Minuteman**

Volume 53 Number 2 November 2023

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The Minuteman Repeater Association is a non-profit organization providing communications infrastructure and volunteers for community and emergency events.

Membership Meeting: Wednesday, 15 November 2023 ~7:30—9:30 pm

A Smorgasbord of Radio - the People Places and Incidents.

DOMENIC 'DOM' MALLOZZI, N1DM

**This is a Hybrid meeting: Marlborough Central Fire Station+ ZOOM
(Directions to Marlborough Central Fire Station on Page 10)**

Members: log into your account on MMRA.ORG to obtain the ZOOM info.

Non-members: send an email to contact@mmra to request the ZOOM info.

Do you know what the most powerful radio station in New England is? Let's find out.

Dom will discuss some of the less known contributors to the development of radio, the operational sites in New England that brought radio from a laboratory oddity to a functional system along with discussing the affect of the sinking of the Titanic on radio regulation.

Licensed initially as WN1RFT in 1972 and now holds an Amateur Extra class license and FCC "General Radio Operators License"

Dom started as a shortwave listener when young and eventually found his way through a local ham, Jim K1CBF, to the Providence Radio Association, W1OP. He took his licensing classes at the club in high school and eventually obtained an amateur extra class license. He also built a lot of Heathkits, many of which he still has and uses.

Dom received a Bachelor's degree in electrical engineering from the University of Rhode Island which led to a 38-year career as an electrical engineer at the Raytheon Co. in various Massachusetts locations specializing in measurement systems.

His ham radio interests are: CW, Antennas, 160 meters, satellites, homebrewing and DMR.

Notice:

There will be a Vote of the Membership at this meeting:

Emergency Fund Approve up to \$3000 for use in repairing or replacing failed equipment if needed.

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About the Minuteman Repeater Association

MMRA Control Operators Responsibilities

<https://www.mmra.org/MMRACOPolicy-March2019.pdf>

The Minuteman Repeater Association (MMRA) is dedicated to Amateur Radio and public service. The MMRA maintains a large system of repeaters in Eastern Massachusetts.

The MMRA meets each month from September to June. Meeting times, locations, and talk-in frequency vary and are announced in this newsletter and on weekly nets. Meetings are open to all interested parties. Guest speakers and programs of general interest occur in September, November, January, March, and May. The intervening meetings are also open to all members and are for general business.

The Minuteman newsletter is emailed one week before each general interest meeting. Members are encouraged to submit articles: send to the editor at newsletter@mmra.org. The deadline for articles is the last Friday of the month preceding the meeting.

Each Tuesday evening at 8pm the MMRA links most of the repeaters for an open net. The topic is "Technical Information and Other Stuff". Join us!

Membership in the MMRA is open to all radio amateurs. Annual dues are \$25 per individual or \$35 per family. See our website for details.

Contact information is listed on the top of the last page of this newsletter.

No part of this newsletter can be copied or posted elsewhere without prior approval from the club.

MMRA QRM Policy

MMRA members and all other operators are strongly encouraged to report repeater activity that does not abide by Part 97 rules or accepted amateur radio practice to the board of directors at contact@mmra.org or via other means.

The most effective way (and probably the only effective way) to deal with an individual causing QRM is to NOT engage with that individual on the air. Please include the time and date of any incident.

Repeater and Frequency Information

Band	XMTR Location	Freq	PL	Call	Linking To:	
					Hub 1	Hub 2
10m	Marlboro East	29.680	131.8 Linked to 146.79: 9am-3pm every day	W1MRA	???	???
6m	Marlboro East <i>Remote receive Marlboro West: PL=100</i>	53.810	71.9	W1BRI	PTL	PTL
2m	Brookline	145.160	na	K1MRA	D-Star (REF050C)	
	Belmont	145.430	146.2	KC1CLA	Off the air	
	Mendon	146.610		K1KWP	FTL	PTL
	Quincy	146.670		W1BRI	FTL	PTL
	North Reading	146.715		KC1US	FTL	PTL
	Weston	146.790		W1HAI	PTL	PTL
	Boston	146.820		Linked to 29.68: 9am-3pm every day		
	Billerica	147.120 <i>Output tone = 162.2</i>		K1BOS	FTL	PTL
	Marlborough	147.270		W1DC	PTL	PTL
				W1MRA	PTL	PTL
1½m	Marlborough	223.940	103.5	W1MRA	FTL	PTL
	Quincy	224.400		N1KUG	FTL	PTL
	Weston	224.700		N1NOM	PTL	PTL
	Burlington	224.880		KC1US	FTL	PTL
70cm	Lowell	442.250	88.5	K5TEC	FTL	PTL: 446.775
	Weston *	442.700	88.5	N1DCH	Network Hub 2 (PTL to Hub 1)	
	North Reading <i>System Fusion</i>	446.775	88.5 Linked 71.9 Local	W1DYJ	FTL [88.5]	PTL [88.5]
	Marlborough	448.225	na	W1MRA	D-Star (REF050C)	
	Hopkinton <i>System Fusion Out PL = 162.2</i>	449.575	88.5 Linked 71.9 Local	W1BRI	FTL [88.5]	PTL [88.5]
	Marlborough *	449.925	88.5	W1MRA	Network Hub 1	
33cm	Boston *	927.0625	D244	K1RJZ	PTL	PTL
	Marlborough *	927.700 <i>PL out = 131.8</i>		W1MRA	PTL	PTL

Marlborough 144.390 none W1MRA APRS Digipeater

??? 145.630 146.2 W1MRA Fox Box

*Internet

HUB1- 449.925: IRLP node 4133 / Echolink node 4133
Connected to Echolink NEWENG2 conference (9127) for TIAOS net.

HUB2 - 442.700: IRLP node 4136 / Echolink node 4136
Connected to 220 Reflector 9124 on Tuesdays

927.0625: IRLP 4977

927.700: IRLP 4978

Normally linked to the NE900 Reflector, 9125. Linked to MMRA via "NEW-ENG2" node 9127 for the TIAOS net. Normally linked together.

Notes: FTL = Full Time Linked (or default state) PTL = Part Time Linked (on schedule or demand)
Note — a repeater can be linked to only one Hub at a time, however the two hubs can also be linked together.

President's Corner ~ David Hornbaker, N1DCH

In person: Everyone is invited to attend in person the November membership meeting at Marlborough Central Fire Station. Directions are on page 10, or at <https://www.bing.com/maps?q=215+maple+st+marlborough+ma&FORM=HDRSC4>

Guest Speaker: Dom Mallozzi - N1DMC A SMORGASBORD OF RADIO - THE PEOPLE, PLACES AND INCIDENTS

Meetings are a great place to meet and greet your fellow hams and to welcome our new members. Bring a friend, you do not have to be a member to attend.

Via Zoom: All MMRA meetings are also available via Zoom. The Zoom code is available to members on <http://www.mmra.org>. If you need assistance getting connected, contact us at contact@mmra.org. If you are not a member, you can request the meeting code via email at contact@mmra.org.

VE Exams: The November VE Session will be held on Saturday, November 18 at 9:00 AM, at Marlborough Central Fire Station.

Directions: <https://www.bing.com/maps?q=215+maple+st+marlborough+ma&FORM=HDRSC4>

Walk-ins are welcome. Please remember to bring a State ID, your FRN, and if upgrading, an Official copy of your current license. For more information, contact Ron – WO1E at ve@mmra.org or wo1e@mmra.org.

Membership renewal: All MMRA memberships expired on August 31. Please check your profile and if your membership expired in 2023, please renew. Renewals may be done on the website, or you can mail your renewal to Minuteman Repeater Association, PO Box 669, Stow, MA 01775-0669. Please allow 7 days for us to process your renewal. Please allow 14 days for renewals that are mailed. While you're on the website (<https://www.mmra.org>) checking your expiration date, please verify your email address.

Tuesday Net: Join us Tuesday night at 8:00 PM for our weekly Technical Information and Other Stuff (TlaOS) net. There will be a lively discussion on all sorts of HAM issues, including equipment, antennas, software, repeaters, and other stuff. The main purpose is to test our ability to link up the repeaters in case of an emergency or to support an event like the Boston Marathon. You can also join via EchoLink if your radio is a little under the weather. See below for more information.

You can find out more information about how and when the repeaters are linked on the website (https://www.mmra.org/repeaters/repeater_linking.html).

Please remember to keep your profile up to date, especially if your email changes. Note that if your callsign changes, send email to contact@mmra.org and we will update your callsign in the database.

20 September 2023 Membership Meeting ~ Minutes

Called to order @ 7:30 PM

Repeater Status Report – from Bob DeMattia – K1IW –

[Editors note: this is the repeater status as of 20 September. For an up-to-date report see page 9]

Boston Prudential Repeater 146.82 – is off the air. It appears the transmitter, which is running very low power, has now failed completely. It is still able to receive signals on its input and send them to the HUB and can still receive signals from the HUB, but without the transmitter, nothing can be heard on the '82 output. Bob tried a power cycle, but this did not help. K1IW has completely shut it down for the time being. The new repeater is in K1IW's garage. This has priority and hopefully Bob will have it ready in the next few weeks.



Brookline – Remote RX has been removed. The DSTAR repeater is still there

Weston – The 146.79 2M – Planned trip to Campion Center with NN1C on 9/26 to inspect the antenna. The former Brookline antenna has already been brought to the Weston Site in case it is needed. Bob stated the antenna tests fine and suspects the problem is with the old receiver.

North Reading – 146.715 - Spring cleanup completed on June 10th with the site upgraded to prevent rodents from getting inside. The new Kenwood that was ordered and approved by Club Vote has still not been delivered. It may be delayed up to January as a guess so it is possible Bob will look for another alternative replacement around a similar price range. Right now we are waiting for the Kenwood.

Burlington – 224.880 – Still reported a 5 second drop out during the TIOS Net. Since Bob can not access the Burlington Repeater from his home, he cannot verify or refute the drop out issue.

Boston 900 Machine will be the Quantar. Bob suggests replacing the fans in it when it is received.

VE Exam Session

Saturday, October 20th at 9:00 AM

Marlborough Central Fire Station (Tentative)

Please tell your friends, who are interested in taking tests, that they must have photo IDs and FRNs
Copy of license required if upgrading (or proof from the ARRL or QRZ)

Note: Social Security numbers, are no longer accepted by the FCC. Everyone must have an FRN

Upcoming Meetings

October 17, 7:30 PM – Business Meeting – Zoom Teleconference only

November 15, 7:30 PM A Smorgasbord of Radio – The People, Places and Incidents

Speaker: Don Mallozzi – N1DM

Location Marlborough Central Fire Station and Zoom

December 20, 7:30 PM Business Meeting – Zoom Teleconference only

January 17, 7:30 PM – A 10m Antenna . . .to fit into my attic . .

Speaker Larry Banks – W1DYJ

New England Sci-Tech, Natick and Zoom

Tuesday night 8:00 PM (year round)

Technical, information and Other Stuff Net

MMRA Linked Repeaters

20 September 2023 Membership Meeting: Presentation

The business portion of this meeting ended at 7:47 PM

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Presentation: The National traffic System, Nets in the area and the Basics of sending a radiogram – by Marcia Forde, KW1U & Joe Weisse, W1HAI

The use of the Radiogram is based on the Telegram. The Radiogram is a structured messaging system with a Header, messaging portion and end portion identifying who is sending the message. Radiograms can be in CW or Voice form sent over the air. Please refer to the QST – July, 2023 pp 64-65 that describes the history of NTS (National Traffic System) to Its current status and the future plans for NTS 2.0 as technology continues to evolve. Marcia described the basics of messaging accuracy by demonstrating a short message to Joe. In general messages are handled by prioritizing its importance: Emergency, Priority, Welfare and Routine. Joe described some interesting history on how the “Heavy Hitters” Net evolved around the 1970s. It started with the Waltham group when they were playing softball against Malden. The softball competition was quite competitive with some heavy hitters winning the competition. The name heavy hitters stuck and was applied to the local radiogram net. There are many radiogram nets, but the Heavy Hitters Net is distinctive to us here as they will also teach new hams, who decide to participate, the skills needed to prepare for emergency as well as routine situations.

Meeting Attendees at NE Sci-Tech Natick, MA:

Dave Hornbaker, N1DCH; Kevin W Paetzold, K1KWP; Bob Phinney, K5TEC;
Stephen Babbitt, KC1LPZ; Bob DeMattia, K1IW;

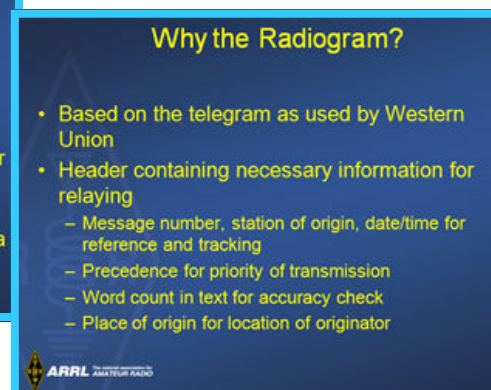
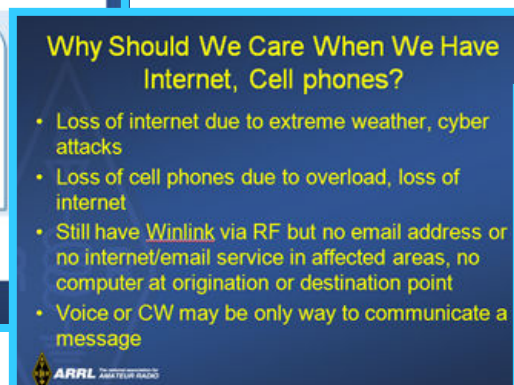
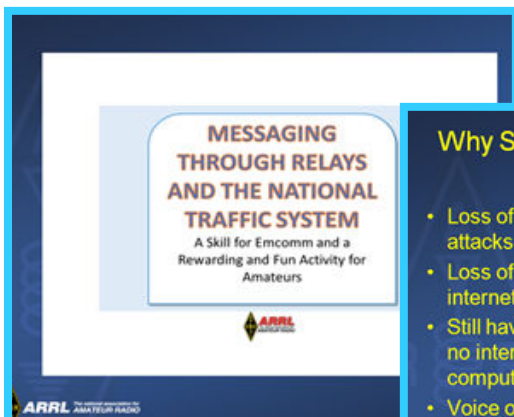
Zoom Meeting Attendees::

Ken Horton, KA1GFN; Deb Horton, N1NVJ; Roger Coulson, WA1NVC; Kellye Eversole, K1SOE;
Ed Curley, KC1CLA; Marcia Forde, KW1U; Joe Weisse, W1HAI; Mara Stone, WA1MCS;
Glenn Small, KV1GS; Leandra Mac Lennan, AF1R; Alan Lewis, K1ALL; Bob Phinney, K5TEC

Meeting Adjourned at 8:55 PM

Respectfully Submitted by Stephen M Babbitt, KC1LPZ, Clerk

There are just some of the slides from Marcia's and Joe's talk.



20 September 2023 Membership Meeting: Presentation

Header / Preamble

- Number: assigned by station of origin
- Precedence: Emergency, Priority, Welfare, Routine
- Handling Instructions (Opt): instructions to delivering station
- Station of Origin: formats and initiates RF transmission
- Check: word count in text
- Place of Origin: Location of message originator
- Time: (Opt) UTC unless otherwise noted
- Date: Month abbreviated, date (no year)

Handling Instructions

- HXA - Collect landline delivery authorize by addressee within ____ miles. (If no number, authorization is unlimited).
- HXB - Cancel message if not delivered within ____ hours of filing time; service originating station.
- HXC - Report date and time of delivery (TOD) to originating station.
- HXD - Report to originating station the identity of station from which received, plus date and time. Report identity of station to which relayed, plus date and time, or if delivered report date, time and method of delivery.
- HXE - Delivering station get reply from addressee, originate message back.
- HXF - Hold delivery until ____ (date).
- HXG - Delivery by mail or landline toll call not required. If toll or other expense involved, cancel message and service originating station.

Address

- Name: First and Last, Call sign if known
- Street Address
- City/Town, State (2 letter code), Zip Code
- Phone
- Email address
- Any information to assist in locating addressee

Text

- < 25 words preferable -> speed of transmission – (brevity yet clarity)
- No punctuation except X (Xray) to separate thoughts; "Query" for question mark. Any other necessary punctuation spelled out. "X" counts as one word. No Xray before break.
- Word count agrees with check box
- BT (break) before and after the text
- Message closings ie 73, Regards, Love etc included in text, not signature.

Signature and Op Notes

- Add reply info as appropriate: phone, email etc.
- Op Notes added as appropriate after signature or after Address (ie. call after 6 PM, leave voicemail, etc)

Additional Record Keeping Information

- Tracking information
 - Rcvd from, date, time
 - Sent or Dlvd to, date, time
- Box for Delivering Station contact information if written copy provided

What do I do now that I have a radiogram to send?

Joe will help me talk about checking into nets and how to list and send that radiogram

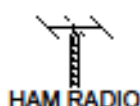
Traffic Nets in Eastern Mass

- Mass Rhode Island Phone Net MARIPN 1700 M-Sa 3978 KHz
- Mass Rhode Island CW Net MARI 1900 Dy 3565 KHz
- Cape and Islands Traffic Net CITN 1930 Tu,Th,F,Sa 147.375 PL 110.9
- Eastern Mass 2 Meter Net EM2MN 2000 Dy 145.230 PL 88.5
- Central Mass 2 Meter Net CM2MN 2100 Dy 146.97 PL 114.8
- Heavy Hitters Traffic Net HHTN 2145 Dy MMRA Network
- First Region Net 1445/1630 Dy 7240/3950 KHz
- 1RN CW Net 1945/2130 Dy 3598 KHz
- Packet BBS KW1U 24/7 145.090 Mhz
- HF Pactor / VARA – KW1U scanning multiple bands 24/7 – check with KW1U@arrl.net for frequencies

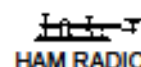


A Few Things to Remember

- Checking into a traffic net can be scary but we're all friends and we all started at point zero
- Follow directions of NCS
- When asked to send traffic make sure receiving station is "ready to copy".
- Send slowly enough for receiving station to write down.
- Observe introductory phrases and use of ITU phonetics to assist receiving station. Do what the receiving station anticipates for better results



Algonquin Amateur Radio Club Marlborough, MA



AMATEUR
RADIO

FLEA MARKET

Saturday, February 17, 2024



Marlborough 1Lt Charles W. Whitcomb School
(formerly Intermediate/Middle School)
25 Union St. or
off Bolton St. (Rt. 85)
Marlborough, Massachusetts

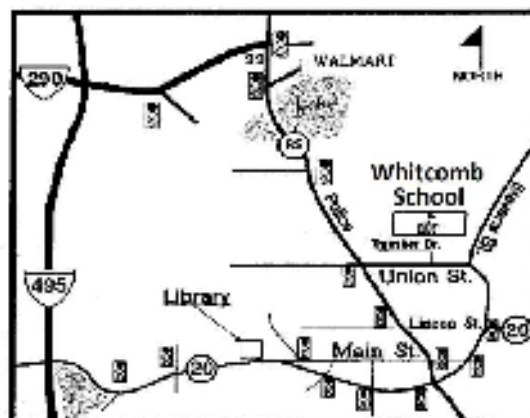
6 ft. Tables (round and rectangular)
Tables are \$15.00 each if purchased by
February 9, 2024 (\$20.00 each accepted
at the door if space is available)
Tables include vendor admission for one
person.

SETUP TIME: 6:30 AM

For more information email:
fleamarket@n1em.org

Talk In: N1EM/R 446.675 - (pl 88.5)
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, MA 01752 (\$15.00 each table due by February 9)

Name: _____ Call: _____

Address: _____ No. Tables: _____

City: _____ State: _____ Zip: _____

Telephone: (____) _____ Amount Enclosed: \$ _____ .00

Email: _____

18 October 2023 Business Meeting ~ Minutes

Called to order @ 7:32 PM

Treasurer's Report: - By Kevin Paetzold, K1KWP

Kevin provided extensive details with charts and graphs depicting the MMRA financial picture. In summary the MMRA has had expenses exceeding income since FY 2020. For the year that ended May 31, 2023, total income was \$7,583 with donations slightly shy of 17 percent. In round numbers the MMRA has \$23K with a projected balance of \$17k based on equipment replacement or upgrading of our 20+ repeaters, many of which are decades in age.

Repeater Report:

[Editors note: this is the repeater status as of 18 October. For an up-to-date report see page 9]

Boston Prudential Repeater 146.82 – is off the air. New repeater is in K1IW garage, it is scheduled to be installed on Saturday, November 4th.

Brookline – Remote RX has been removed. The DSTAR repeater is still there.

Weston – The 146.79 2M – Visited Campion Center with NN1C on 9/26 to inspect and possibly replace antenna. SWR still 2:1 at the radio end, but weather was not cooperative.

10m Repeater – Weston – I found that RF pre-amp on receiver provided 0dB gain. Preamp removed. Repeater is back on air. Receiver breaks squelch at -108dBm – a bit deaf. Antenna still checks out good. We should probably replace the receiver.

North Reading –146.715 - Replacement not received from Kenwood, anticipating January delivery.

Burlington – 224.88 - Bob suspects drop-outs occur when there is doubling/heterodyning on '925. It appears the '88 link radio is more sensitive to this than others. Will try putting the link radio in CSQ mode for next week's Net.

900 MHz Repeater - The MMRA was offered a new 900 MHz Motorola Quantar. If and when we receive one, it will be used to replace the MSF5000 in Boston.

Belmont – 145.43 – had been reported a few weeks ago on the TIOS Tuesday evening net to be timing out. At least three of us had us to use other repeaters to access the Net. *The current homeowner, where the repeater is located, will be putting her home on the market for sale. An alternate site will need to be located.*

AREDN – Amateur Radio Emergency Data Network

Kevin brought up where we left off with their impressive two-part presentation. With no volunteers from us, this appears it has little appeal to the MMRA. Kevin will follow up with Michael Ford, WZ0C & Jim Gardner, KC1BHD, who are promoting AREDN, with a few suggestions.

VE Exam Session

Saturday, October 21st at 9:00 AM

City Church Marlborough in the Shoebox Building (adjacent to Kelleher Field, 72 Jefferson Street, 2nd Floor, Marlborough, MA 01752

Please tell your friends, who are interested in taking tests, that they must have photo IDs and FRNs

Copy of license required if upgrading (or proof from the ARRL or QRZ)

Note: SS#s, are no longer accepted by the FCC. Everyone must have an FRN

Upcoming Meetings

November 15, 7:30 PM A Smorgasbord of Radio – The People, Places and Incidents

Speaker: Don Mallozzi – N1DM

Location Marlborough Central Fire Station and Zoom

18 October 2023 Business Meeting ~ Minutes

December 20, 7:30 PM Business Meeting – Zoom Teleconference only

January 17, 7:30 PM – A 10m Antenna . . .to fit into my attic . .

Speaker Larry Banks – W1DYJ

New England Sci-Tech, Natick and Zoom

Tuesday night 8:00 PM (year round)

Technical, information and Other Stuff Net

MMRA Linked Repeaters

Meeting Attendees:

Dave Hornbaker, N1DCH; Kevin W Paetzold, K1KWP; Stephen Babbitt, KC1LPZ; Ken Horton, KA1GFN; Deb Horton, N1NVJ; Roger Coulson, WA1NVC; Ed Curley, KC1CLA; Joe Weisse, W1HAI; Jon Traum, KB1OQA; Bob Evans, N1BE; Larry Banks, W1DYJ; Jason Peardon, W1HFP

Meeting Adjourned at 8:44 PM

Respectfully Submitted by Stephen M Babbitt, KC1LPZ, Clerk

Repeater Report ~ Bob DeMattia, K1IW [as of 4 November 2023]

Boston Prudential Repeater 146.82 – is off the air. New repeater is running in K1IW garage, it is scheduled to be installed on Sunday, November 5th.

Brookline – Remote RX has been removed. The DSTAR repeater is on the air.

Weston 146.79 – Visited Campion Center with NN1C on 9/26 to inspect and possibly replace antenna. SWR still 2:1 at the radio end. Weather was not cooperative.

Marlborough 10m 29.68 – The repeater has been deaf for some long period of time. The problem has been traced to the receiver end in Weston. The RF pre-amp provided 0dB gain. Preamp removed. Receiver is in the shop - front end realigned and sensitivity is now about -118dBm. Going to do some further work on it, but it should be back on the air in the next few weeks.

North Reading 146.715 - Club voted replacement not yet received from Kenwood. Order cancelled at current supplier and ordered from someone else. Repeater has shipped and should arrive next week.

Burlington 224.88 - Bob suspects drop-outs occur when there is doubling/heterodyning on '925. It appears the '88 link radio is more sensitive to this than others. Will try putting the link radio in CSQ mode during a future TIOS net.

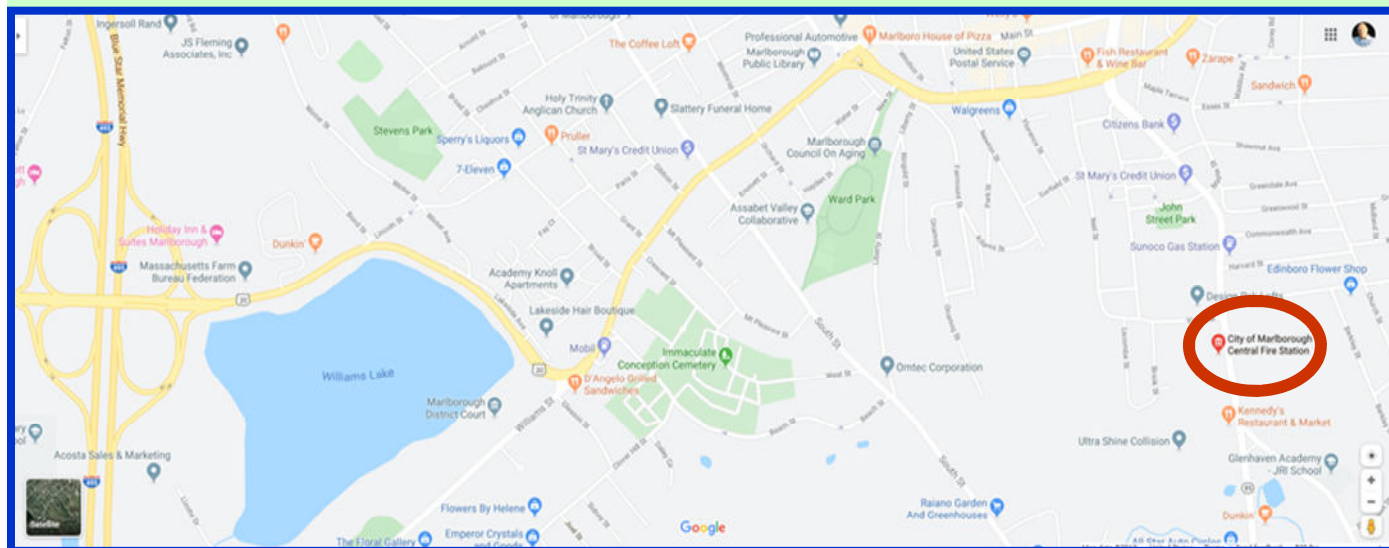
900 MHz Repeater - The MMRA was offered a new 900 MHz Motorola Quantar. If and when we receive one, it will be used to replace the MSF5000 in Boston. Person has not been responsive to further inquiries.

Belmont 145.43 – Is off the air. It will be rebuilt and relocated to a different location which is TBD. Board to discuss at December board meeting..

*The MMRA inherited this repeater many years ago from an SK and the family has graciously allowed us to leave the repeater at their home for many years, even funding electricity and our internet connection. **We thank them for these many years of support.***

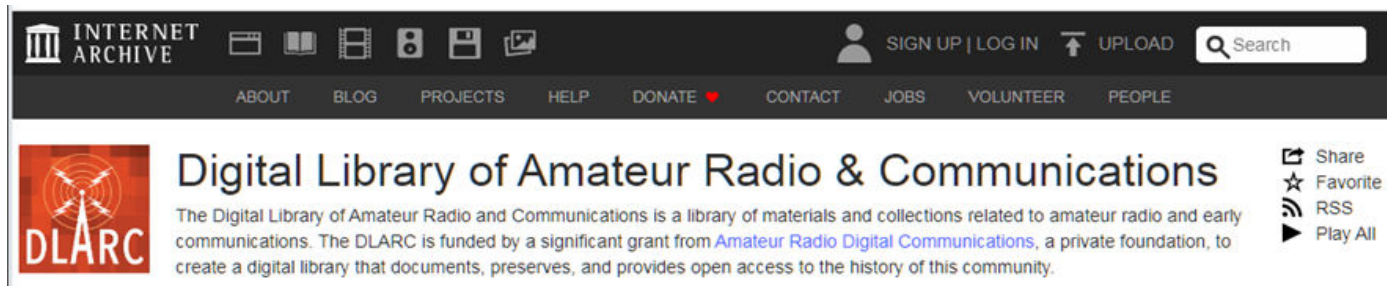
We were informed in early October that the family was selling the house. The repeater was removed at the end of October.

Directions to:
Marlborough Central Fire Station, 215 Maple St (RT 85), Marlborough, MA
Enter through the side classroom door.



MMRA Newsletters now Archived at DLARC

<https://archive.org/details/dlarc>



The Amateur's Code

The Radio Amateur is:

CONSIDERATE...never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

FRIENDLY...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

BALANCED...radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC...station and skill always ready for service to country and community.

Paul M. Segal, W9EEA, 1928

Treasurer's Report ~ Kevin Paetzold, K1KWP

The MMRA receives a significant amount of donations each year. On behalf of the club I would like to acknowledge and thank people below who donated since my list in the September newsletter:

K1VK, K1YSO, KC1FEH, KD1TE, N1CTY, N1HBR, and WG1V

We have 166 paid memberships at this time for the 2023-2024 year. At this point 74 people would need to join or renew to reach parity with the 2022-2023 year (which ended on Aug 31, 2023). However 113 members have not yet renewed and are in the grace period until Jan 1, 2024.

The funds balance was \$22193.93 on June 1, 2023. At this writing on Oct 30, 2023 the balance is \$23016.98. Based on everything I know the balance on June 1, 2024 is likely to be \$17261.82. This assumes we get enough memberships/renewals to reach parity with last year. This also assume we will spend the all of the remaining \$4186.93 of approved (by the membership) spending.

The N1CTY donation consisted of:

BTech UV25-X4 Mobile, Beofang F8-HP HT, Kenwood TH-F6A HT, Tram 2-band base antenna, Ed Fong 1-band base antenna, and a Pyramid 10amp Power Supply. There are also many HT antennas and accessories including large capacity batteries, drop in charger, USB programming cables for the above.

This is pretty much a full setup (base and HT) for anyone wanting a 144, 220, 440 station. All of this seems in perfect/new condition. The BTECH UV25 looks very interesting. It is small enough it does not need a remote head for mobile use. The initial plan is to try to avoid EBay fees and try to sell much of this at upcoming Flea (like the Marlboro flea).

If you are interested in any of the above send email to contact@mmra.org. Reasonable offers only please.



Upcoming MMRA Meetings

Note: Meeting locations and times are subject to change.

Consult the MMRA website for the most up-to-date information. [ZOOM](#)

[Teleconference login info](#) is available

once you log into your account on [MMRA.ORG](#)

Non-members: if you wish to attend, email contact@mmra.org.

November 22, 2023, 7:30 PM: Membership Mtg — A Smorgasbord of Radio
The People, Places and Incidents Don Mallozzi — N1DM
Location: Marlborough Central Fire Station + Zoom Teleconference

December 20, 2023, 7:30 PM Business Meeting — Zoom Only

January 17, 2024, 7:30 PM: Membership Mtg
A 10m FM antenna to fit into my attic Larry Banks, W1DYJ
Location: New England Sci-Tech + Zoom Teleconference

February 21, 2024, 7:30 PM Business Meeting — Zoom Only

March 20, 2024, 7:30 PM: Membership Mtg
Topic: TBD Speaker: TBD
Location: New England Sci-Tech + Zoom Teleconference

April 17, 2024, 7:30 PM Business Meeting — Zoom Only

May 15, 2024, 7:30 PM Annual Meeting
Twenty Things I've Learned While Curating the Digital Library
of Amateur Radio & Communications
Kay Savetz - K6KJN
Location: New England Sci-Tech + Zoom Teleconference

June 19, 2024, 7:30 PM Business Meeting — Zoom Only

Don't Forget — Join Us!

Every Tuesday @ 8 PM

Technical, Informational and Other Stuff Net

The MMRA's repeaters are linked Tuesday nights for the TIOS Net. Keep up with what's happening in the MMRA and ask your ham related questions.

Net Control Operators:

Week 1	W1DYJ	Larry Banks
Week 2	KB1OQA	Jonathan Traum
Week 3	KC1CLA	Ed Curley
Week 4	K1KWP	Kevin Paetzold
Week 5	K1BTZ	Tom Turner

To connect using Echolink during the Net:

- Echolink Conference *NEW-ENG2*

NOTE: we need another NC to be available as a substitute. If you are interested, email W1DYJ@mmra.org

MMRA Leaders

Executive Board — Officers

President	Dave Hornbaker	N1DCH
Vice President	John Spencer	WA1MDD
Secretary	Jason Peardon	W1HFP
Treasurer	Kevin Paetzold	K1KWP
Clerk	Stephen Babbitt	KC1LPZ

Executive Board — Directors

Director »2024	Rob Evans	N1BE
Director »2024	James Lee	N1DDK
Director »2025	Bob DeMattia	K1IW
Director »2025	Roger Coulson	WA1NVC

Appointed

Technical Officer	Bob DeMattia	K1IW
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Repeater Trustees

Belmont 145.43	Ed Curley	KC1CLA
Billerica 147.12	Mike Rioux	W1USN
Boston 146.82	John Mullaney	K1BOS
Boston 927.0625	Rick Zach	K1RJZ
Brookline 145.16	Joyce DeMattia	K1MRA
Burlington 224.88	Bruce Pigott	KC1US
Hopkinton 449.575	Bryan Cerqua	W1BRI
Lowell 442.25	Bob Phinney	K5TEC
Marlborough 53.81	Bryan Cerqua	W1BRI
Marlborough: 29.68, 144.39, 147.27, 223.94, 448.225, 449.925, 927.70		
all as W1MRA	Bill Northup	N1QPR
Mendon 146.61	Kevin Paetzold	K1KWP
N. Reading 146.715	Bruce Pigott	KC1US
N. Reading 446.775	Larry Banks	W1DYJ
Quincy 224.40	Bill Dunn	N1KUG
Quincy 146.67	Bryan Cerqua	W1BRI
Weston 146.79	Joe Weisse	W1HAI
Weston 224.70	Eddie Mulhern	N1NOM
Weston 442.70	Dave Hornbaker	N1DCH

Additional, non-Voting

Newsletter Editor	Larry Banks	W1DYJ
Emerg. Coord.	Kevin Paetzold	K1KWP
Pub. Serv. Coord.	Bruce Pigott	KC1US
VEC Liaison	Ron Rothman	WO1E
Net Manager	Larry Banks	W1DYJ
Web Page Editor	Bob DeMattia	K1IW
Social Media Coord.	Steve Umans	K8ZBE

President Emeritus

Bob DeMattia	K1IW
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Technical Officer Emeritus

Bryan Cerqua	W1BRI
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Contacting the MMRA



Members: mmra@groups.io

Note: This may take some time.

You must be approved by the moderator.

Officers: contact@mmra.org

Control Ops: control-ops@mmra.org



<http://www.mmra.org/>



<https://www.facebook.com/mmraham>

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MMRA VE SESSIONS

Check out <https://www.mmra.org/exam.html> or email ve@mmra.org

Ask your friends to become a member Just let them know that it is not fully automated. Although they can log into the MMRA website immediately, they need to be manually processed. This could take up to a week.

If you haven't updated your MMRA profile in a while, now is the time! Log into < [MMRA.ORG](http://www.mmra.org) > to do so.

Previous issues of the MMRA Newsletter are available at: www.mmra.org > [Newsletter Archive](#) (on the left). They are also available at DLARC: <https://archive.org/details/minuteman-repeater-association>

Heavy Hitters Traffic Net

This net is active on our repeaters Sunday to Friday evenings from 9:45—11 PM and Saturday from 10-11. Active repeaters are:

2m: Mendon (146.61), Quincy (146.67), North Reading (146.715), Boston (146.82), and Marlborough (147.27)

220: Marlborough (223.94), Quincy (224.40), Weston (224.70), and Burlington (224.88),

440: Lowell (442.25), North Reading (446.775), Hopkinton (449.575), and Marlborough (449.925)



NEW ENGLAND SCI-TECH

New England Sci-Tech Inc is a new 501(c)(3) STEM education center, amateur radio training center, and maker space located at 16 Tech Circle, Natick. It is home to New England Amateur Radio Inc (NE1AR) and the youth radio club Sci-Tech Amateur Radio Society (STARS). NE Sci-Tech welcomes memberships and donations via www.NESciTech.org or www.NE1AR.org.

Get connected on the MMRA Repeater System ~ Dave Hornbaker N1DCH

What is the best way to get connected on the MMRA repeater system? Try announcing yourself! Just say your call sign followed by "listening". If you want, you can include the last 3 digits of the repeater frequency. For example, "N1DCH listening" or maybe "N1DCH listening on 925", you may very well get a response. Try to connect by announcing yourself several times.

Most of the time, Marlborough Hub1 (449.495) is linked to the following repeaters, Boston (146.820), North Reading (446.775 and 146.715), Mendon (146.610), Lowell (442.250), Hopkinton (449.575) and Quincy (146.67.) Remember that when the repeaters are linked, you need to wait two or three seconds after you key up and before you speak. This is especially important on the TlaOS net on Tuesday when most of the repeaters are linked.

You can also link (and delink) the repeaters yourself. See the information you received when you became a member, or check the [User Control Codes](#) once you log into the MMRA web.

Try one of the non-linked repeaters too. There are Hams monitoring them as well. For more information on the repeater network and how it is linked at various times, check out https://mmra.org/repeaters/repeater_linking.html.