



**Minuteman  
Repeater  
Association**

**The  
Minuteman**



Volume 53 SPECIAL August 2024

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

## **SPECIAL EDITION!**

Northeast  
**HamXposition**

and ARRL New England Division Convention

**August 22 - 25**

**ARRL Convention ~ New England Division**

Best Western Royal Plaza Hotel & Trade Center

Marlborough, Massachusetts

<https://hamxposition.org/>

**Come visit us in the Main Hallway (across from the exhibit hall) where you can meet some of our members, join our club, and enter for a chance to win one of our great door prizes.**

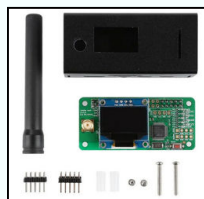
*Membership not required to win, and you don't have to be present to win.*

### **Winners drawn Sunday at noon**

First Prize: **YAESU VX-6R 144 / 220 / 430 HT**

Second Prize: **Weller WE1010NA 70W digital soldering station & Digital Multimeter**

Third Prize: **JUMBOSPOT MMDVM Hotspot**



***Please stop by our booth and fill out our member survey.***

***Find our Fox Box somewhere on the hotel grounds.***

See page 3 for information about our FoxBox. It will be hidden and operating Friday. It will be moved to other spots for both Saturday and Sunday.

Can you find all three locations?

## About the Minuteman Repeater Association

### MMRA Leaders

#### Executive Board — Officers

President	Dave Hornbaker	N1DCH
Vice President	John Spencer	WA1MDD
Secretary	Ken Horton	KA1GFN
Treasurer	Kevin Paetzold	K1KWP
Clerk	Stephen Babbitt	KC1LPZ

#### Executive Board — Directors

Director »2025	Bob DeMattia	K1IW
Director »2025	Roger Coulson	WA1NVC
Director »2026	Rob Evans	N1BE
Director »2026	James Lee	N1DDK

#### Appointed

**Technical Officer** Bob DeMattia K1IW

#### 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	KK1RZ
Brookline 145.16	Joyce DeMattia	K1MRA
Burlington 224.88	Bruce Pigott	KC1US
Hopkinton 447.775	Bryan Cerqua	W1BRI
Lowell 442.25	Bob Phinney	K5TEC
Marlborough 53.81	Bryan Cerqua	W1BRI
Marlborough: 29.68, 144.39, 147.27, 223.94, 449.575, 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

#### Technical Officer Emeritus

Bryan Cerqua W1BRI

### 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 Remote receive Marlboro West: PL=100	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 Output tone = 162.2		K1BOS	FTL	PTL
	Marlborough	147.270		W1DC	PTL	PTL
1.25m	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: 446.77
	Weston *	442.700	88.5	N1DCH	Network Hub 2 (PTL to Hub 1)	
	North Reading System Fusion	446.775	88.5 Linked 71.9 Local	W1DYJ	FTL [88.5]	PTL [88.5]
	Hopkinton System Fusion	447.775	88.5 Linked	W1BRI	FTL [88.5]	PTL [88.5]
	Marlborough	449.575	na	W1MRA	D-Star (REF050C)	
	Marlborough *	449.925	88.5	W1MRA	Network Hub 1	
33cm	Boston *	927.0625	D244	KK1RZ	PTL	PTL
	Marlborough * PL out = 131.8	927.700		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 Normally linked to the NE900 Reflector, 9125. Linked to MMRA via "NEW-ENG2" node 9127 for the TIAOS net.

927.700: IRLP 4978

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

### Welcome to HamXposition!

Please stop by and say hello. We are located in the main hallway, across from the vendor area. While you are there you can renew your membership (memberships expire this month) and sign up for the raffle.

**Fox Box:** The MMRA Fox Box will be deployed during the convention. Brush up on your Radio Direction Finding skills and try to locate the box.

**VE Exams:** There are three license exam sessions at HamXposition: check: [HamXposition - License Exam Sessions](#) or contact Ron – WO1E at [ve@mmra.org](mailto:ve@mmra.org) or [wo1e@mmra.org](mailto:wo1e@mmra.org). Please remember to bring a State ID, your FRN, and if upgrading an Official copy of your current license.

**Membership renewal:** All MMRA memberships expire on August 31. Please check your profile and if your membership has expired or will expire soon, please renew. If you will not be attending HamXposition, 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 nights at 8:00 PM for our weekly Technical Information and Other Stuff (TlaOS) net. There is always 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](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](mailto:contact@mmra.org) and we will update your callsign in the database.

**Join us in the  
main hallway, across  
from the vendors.**

**Purchase  
Raffle Tickets:  
\$2 each, 3 for \$5,  
7 for \$10. (Get 3 if you  
renew for two years!)**

**Drawing at Noon Sunday  
in the Duchess Room  
(E1)**

**The MMRA FOXBOX will be hidden somewhere in the  
convention area. The BOX periodically transmits on  
145.630 Mhz PL 146.2.**



**Minuteman  
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Association**

If you find the box please leave your call on the notepad in the "mailbox". All who find the box (including Sunday) will be announced in an upcoming MMRA newsletter and at [www.mmra.org](http://www.mmra.org). The box will be moved ~5PM on Saturday.

Callsigns of those who find the box on Friday/Saturday will be posted in the MMRA booth on Sunday AM.

## Contacting the MMRA



Members: [mmra@groups.io](mailto:mmra@groups.io)

*Note: This may take some time.*

*You must be approved by the moderator.*



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

## Nets on the MMRA System

### MMRA Technical Information and Other Stuff Net

Our weekly club net on most of the MMRA repeaters,  
Tuesday night at 8:00 pm local.

### Heavy Hitters Traffic Net

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

### Coast Guard Net

Sundays at 11:00 AM local.

### ARES Net

First Monday at 8:30 PM local.

< [https://www.mmra.org/repeaters/repeater\\_linking.html](https://www.mmra.org/repeaters/repeater_linking.html) >



## 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](http://www.NESciTech.org) or [www.NE1AR.org](http://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), Mendon (146.610), Lowell (442.250), and Hopkinton (449.575). 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 website.

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](https://mmra.org/repeaters/repeater_linking.html).