



**Minuteman  
Repeater  
Association**

**The  
Minuteman**



Volume 51 SPECIAL August 2022

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

**SPECIAL EDITION!**

# Northeast HamXposition

**August 26, 27, & 28**

**ARRL Convention ~ New England and Hudson Divisions**

**Best Western Royal Plaza Hotel & Trade Center**

**Marlborough, Massachusetts**

<https://hamxposition.org/>

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

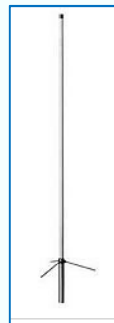
*Membership not required to win, and you don't have to be present to win.*

**Winners drawn Sunday at noon**

**First Prize: ICOM IC-2300H**

**Second Prize: YAESU FT-4XR**

**Third Prize: DIAMOND X-30A**



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

**The MMRA Fox Box  
transmits on 145.63 MHz  
with a 146.2 Hz PL.  
Transmissions repeat ~ 165  
seconds. It will be moved to  
a 2<sup>nd</sup> location Saturday  
afternoon**

**SEE PAGE 3**

## About the Minuteman Repeater Association

### 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 »2023 Bob DeMattia K1IW  
 Director »2023 Roger Coulson WA1NVC  
 Director »2024 Rob Evans N1BE  
 Director »2024 James Lee N1DDK

#### Technical Officer

Technical Officer Bob DeMattia K1IW

#### President Emeritus

Bob DeMattia K1IW

#### Technical Officer Emeritus

Bryan Cerqua W1BRI

#### 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 K1IWW\*  
 Brookline Rcv 146.82 Bob Phinney K5TEC\*  
 Burlington 224.88 Bruce Pigott KC1US\*  
 Hopkinton 449.575 Bryan Cerqua W1BRI\*  
 Marlborough 53.81 Bryan Cerqua W1BRI\*  
 Marlborough: 29.68, 144.39, 147.27, 223.94,  
 448.225, 449.925, 927.70 Lowell 442.25  
 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 Rob Evans N1BE\*  
 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\*

### Repeater and Frequency Information

Band	Location	Freq	PL	Call	Linking To:	
					Hub 1	Hub 2
10 m	Marlboro East	29.680	131.8	W1MRA	PTL	PTL
			Linked to 146.79: 9am-3pm every day			
6 m	Marlboro East <i>Remote receive Marlboro West: PL=100</i>	53.810	71.9	W1BRI	PTL	PTL
2 m	Brookline	145.160	na	K1MRA	D-Star (REF050C)	
	Belmont	145.430	146.2	KC1CLA	PTL	FTL: DARI
	Mendon	146.610		K1KWP	FTL	PTL
	Quincy	146.670		W1BRI	PTL	PTL
	North Reading	146.715		KC1US	PTL	PTL
	Weston	146.790		N1BE	PTL	PTL
	Boston	146.820		Linked to 29.68: 9am-3pm every day		
	<i>Remote receive in Brookline Boston: PL = 127.3</i>		K1BOS	FTL	PTL	
	Billerica	147.120	146.2	W1DC	PTL	PTL
	Marlborough	147.270		W1MRA	PTL	PTL
1½ m	Marlborough	223.940	103.5	W1MRA	PTL	PTL
	Quincy	224.400		N1KUG	PTL	PTL
	Weston	224.700		N1NOM	PTL	PTL
	Burlington	224.880		KC1US	PTL	PTL
70 cm	Lowell	442.250	88.5	W1MRA	FTL	PTL: 446.775
	Weston *	442.700		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</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	
33 cm	Boston *	927.0625	D244	K1RJZ	PTL	PTL
	Marlborough *	927.700		W1MRA	PTL	PTL
PL out = 131.8						
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			Normally linked together.		

\* Appointed

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.

## President's Corner ~ David Hornbaker, N1DCH

### Welcome to HamXposition!

Please stop by and say hello. We are located in the Executive Room (E-5, across from the vendor area and next to the W1A special events station.) While you are there you can renew your membership (memberships expire this month) and sign up for the raffle. (See below.)

**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. (See below.)

**VE Exams:** The August VE Session will be held on Saturday, August 27 at 10:00 AM at HamXposition. Please remember to bring a State ID, your FRN, and if upgrading an Official copy of your current license. More information is available on the HamXposition website [HamXposition - License Exam Sessions](#) or contact Ron – WO1E at [ve@mmra.org](mailto:ve@mmra.org) or [wo1e@mmra.org](mailto:wo1e@mmra.org).

**Membership renewal:** All MMRA memberships expire on August 31. Please check your profile and if your membership expired in 2021 or will expire in 2022, 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)).

**Meet us in the  
Executive Room, E-5.**

**Purchase  
Raffle Tickets.**

**Raffle tickets are  
\$2 each, 3 for \$5,  
7 for \$10.**

**Get 3 if you renew for  
two years!**

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



**Minuteman  
Repeater  
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.*

Officers: [contact@mmra.org](mailto:contact@mmra.org)

Control Ops: [control-ops@mmra.org](mailto:control-ops@mmra.org)



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



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

## 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!

Go to < [MMRA.ORG](http://MMRA.ORG) > and log in to do so.

Previous issues of the MMRA Newsletter are available  
at: [www.mmra.org](http://www.mmra.org) > [Newsletter Archive](#) (on the left)

## Heavy Hitters Traffic Net

This net is active on our repeaters Sunday to Friday evenings from 10—11 PM. 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](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 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](https://mmra.org/repeaters/repeater_linking.html).