



The Minuteman Repeater Association

# The Minuteman

Volume 42, Number 5

May 2013



**Membership Meeting ~ Wednesday, May 22 ~ 7 PM**

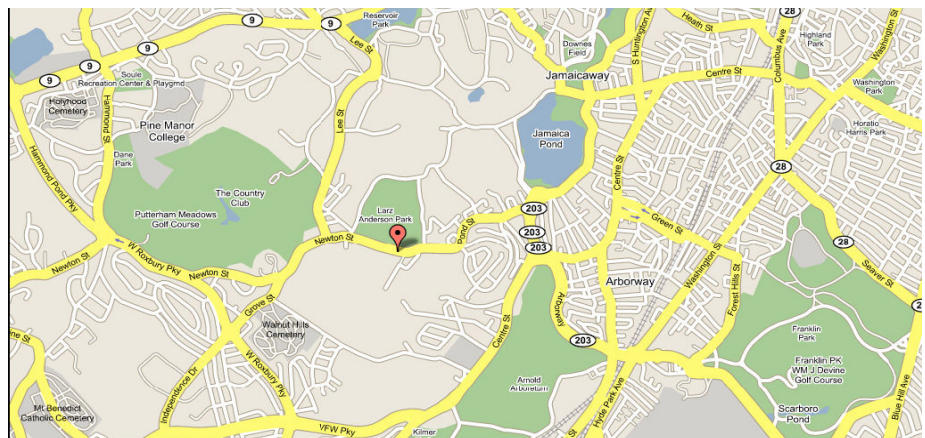
**Observatory Telescope & Science Lab Tour**

**General Meeting & Elections**

**Clay Center Observatory, 20 Newton St, Brookline, MA**

**Talk-in: 146.82**

**From the West:** Follow Route 9 into Brookline. At the intersection with Chestnut Hill Ave near the Brookline Reservoir turn south onto Lee Street, keeping right at merge with Clyde Street. Continue to the end at the traffic lights and get in left lane. Turn left onto Newton Street, stay in right lane, and look for red tile and stucco buildings on your right. Turn right onto St. Paul's Avenue (some maps call it Mt. Walley Ave.)



**From the East:** Follow the Jamaica way into Jamaica Plain. Follow the Jamaica way south, keeping Jamaica Pond on your right. (Ignore the Pond Street that goes east at the pond.) When the road is split by a tree-lined park, get in the right lane and turn right at the traffic lights onto the Pond Street that heads west, up hill, and around many sharp curves. When the road straightens out look for Hopkins Road on your left. Take your next left onto St. Paul's Avenue (some maps call it Mt. Walley Ave.)

**From the South:** Follow the VFW Parkway into West Roxbury. After Corey Street get in left lane. Look for signs for "Village at Chestnut Hill" and Bertucci's. Turn left onto Independence Drive, follow through lights, then straight through rotary onto Grove Street. Stay in right lane, and go straight ahead at lights by Exxon Station. You are now on Newton Street. Follow Newton Street through traffic lights at Clyde Street. Stay in right lane, and look for red tile and stucco buildings on your right. Turn right onto St. Paul's Avenue (some maps call it Mt. Walley Ave.)

**Parking:** For the Clay Center: Take 2nd right through main gate, travel up the hill, bear LEFT, over top of hill, and park on Athletic Center roof deck.

## Nominating Committee Report

<b>President</b>	<b>Bob DeMattia</b>	<b>K1IW</b>
<b>Vice President</b>	<b>Steve Telsey</b>	<b>N1BDA</b>
<b>Secretary</b>	<b>John McGovern</b>	<b>W1JMC</b>
<b>Treasurer</b>	<b>Kevin Paetzold</b>	<b>K1KWP</b>
<b>Clerk</b>	<b>Bob Evans</b>	<b>N1BE</b>
<b>Tech. Officer</b>	<b>Bryan Cerqua</b>	<b>W1BRI</b>
<b>Director »2015</b>	<b>Steve Schwarm</b>	<b>W3EVE</b>
<b>Director »2015</b>	<b>Roger Coulson</b>	<b>WA1NVC</b>

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## About the Minuteman Repeater Association

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 (usually) on the 3rd Wednesday of 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 which can be sent to the editor at [newsletter@mmra.org](mailto: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.

Email to the club leadership should be sent to [contact@mmra.org](mailto:contact@mmra.org). The MMRA maintains a web site at: <http://www.mmra.org/>

An email distribution list for club members named "MMRA" is at: [www.yahogroups.com/](http://www.yahogroups.com/)

**No part of this newsletter can be copied or posted elsewhere without prior approval from the club. Your cooperation in this matter is appreciated.**

### 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](mailto: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 that individual on the air. Please include the time and date of any incident. Measures are being taken to make audio recordings of repeater activity.

## Repeater and Frequency Information

Up-to-date information about both MMRA repeaters and affiliate repeaters can be found at

<http://www.mmra.org/repeaters/index.html>

Band	Location	Freq	PL	Call	Linking	
					To Hub 1	To Hub 2
MMRA Voice Repeaters						
10m	Marlboro	29.680	131.8	W1MRA	PTL	PTL
6m	Marlboro	53.810	71.9	W1BRI	PTL	PTL
2m	Brookline	145.160	—	W1MRA	D-Star	
	Belmont	145.430	67.0	W1MRA	—	—
	Mendon	146.610	146.2	AE1C	FTL	PTL
	Quincy	146.670		W1BRI	PTL	PTL
	Burlington	146.715		KC1US	PTL	PTL
	Weston	146.790		N1BE	PTL	PTL
	Boston	146.820	146.2	K5TEC	—	—
	Remote receive in Brookline Boston PL = 127.3 (in & out)					
	Marlboro	147.270	146.2	W1MRA	PTL	PTL
1¼m	Hopkinton	223.940	103.5	K1KWP	PTL	FTL
	Quincy	224.400		N1KUG	PTL	FTL
	Weston	224.700		N1NOM	PTL	FTL
	Marlboro	224.880		W1MRA	PTL	FTL
70cm	Lowell	442.250	88.5	K1LVF	FTL	PTL: 446.775
	Weston *	442.700		W1MRA	Network Hub 2 (PTL to Hub 1)	
	Burlington	446.775		W1DYJ	FTL	PTL
	Southboro	449.575		W1BRI	PTL	PTL
	Marlboro *	449.925		W1MRA	Network Hub 1	
33cm	Boston *	927.0625	D244	K1RJZ	PTL	PTL
	Marlboro *	927.700		W1MRA	PTL	PTL
MMRA Other Systems						
	Marlboro	144.390	none	W1MRA	APRS Digipeater	
	???	145.630	146.2	W1MRA	Fox Box	
* Internet	HUB1— 449.925: IRLP node 4133; Echolink					
	HUB2 — 442.700: IRLP node 4136; Connected to 220 Reflector 9124 on Tuesdays					
	927.0625: IRLP node 4977			Normally linked to the NEAR-900 Reflector, 9125. Linked to MMRA via IRLP for the TIAOS net. Normally linked together.		
	927.700: IRLP node 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.						
PL: PL is required to prevent interference.						

**Off The Air**

**Reduced Power and/or Antenna Height**

## Notice of Club Vote

Per the MMRA bylaws, you are hereby informed that the club will be voting to approve an expense in excess of \$500 at the May 22 meeting.

Reauthorization of Sligo and Belmont purchases, previously approved in July 2012. These two items were overwhelmingly approved by the club in July 2012. Due to unforeseen circumstances, the purchases were not completed prior to the end of the club's fiscal year. This vote is to reauthorize the purchases for an additional fiscal year.

Here are the descriptions from last years online ballot:

Bob next led a discussion of replacement antennas and other expenses related to rebuilding the tower by the City of Marlborough at MRW. At present all MMRA antennas are off the tower, several hundred feet lower near the shelter. However, there is much uncertainty about whether our shelter will need to be moved and where MMRA antennas will be finally positioned. The discussion suggested optimistically for two replacement VHF and UHF antennas, for a 6-meter antenna, + for tower climbers, + for coax/cable trays and to move the shelter. We ask the membership to allow the board to spend up to for this pur-

pose. **Authorize the MMRA board to expend up to \$8000 for work at Sligo as detailed in the MMRA meeting minutes from June 20, 2012.**

The 145.43 repeater is located at the house of the previous trustee, WA1RTT. MMRA fixed this repeater multiple times. Now that WA1RTT has become a silent key we need to consider the disposition of this repeater. Several components of this repeater belong to the widow of WA1RTT. K1IW proposed offering the widow for the power supply, Vocom PA, duplexer and rack with RF metering so that except for antenna and feedline, the MMRA will completely own the 145.43 repeater. The board approved polling the membership to approve this expenditure. **Authorize the purchase of the 145.43 Power Amplifier, Duplexers and Astron Power Supply from the estate of WA1RTT for the sum of \$600.**

The reauthorization will be taken as one vote. The \$8000 sligo figure is an estimate, and we will have a more accurate figure by the 22nd, but it shall not exceed \$8000.

## Report on April 10 Technical Meeting

**Bob DeMattia — K1IW**

The April 10th MMRA meeting was a bit different from most - there were no guest speakers, and no treasurer reports. Instead, MMRA held an informal discussion with members interested in participated in the up-keep of our systems. Nineteen members attended, and there were several more that expressed interested but had other commitments.

A few things are already in the works from this meeting, including a rebuild of the 10m repeater receiver by KB5JR. N1ZZN will be

looking into the poor receiver performance in Burlington.

Other members signed up for all sorts of things. I will provide a list in another week or two - I'm still recovering from a very busy month.

Other things on tap:

- VPN install at Sligo
- Marlborough East shed cleanup
- Installation of exhaust fan at Sligo
- Replacement of mast at Weston

## **President's Corner ~ Marathon Thoughts**

**Bob DeMattia — K1IW**

As you know, 245 amateur radio operators participated as volunteers at this years Boston Marathon. For many of us, the events of April 15th are a fading memory. But others will have had their lives permanently changed.

Let us remember with sadness the innocent lost life of Martin Richard, an 8-year-old boy who probably wouldn't even understand the cause that drove the vicious murderers to kill him. For Krystle Campbell, a 29-year-old restaurant manager who often worked 70 hour weeks. For Lu Lingzi, the 26-year graduate student from Beijing, whose parents now suffer the loss of their only child. And for officer Sean Collier, viciously murdered in his patrol car the following Thursday night. None of these four individuals, nor the several hundred injured, nor the thousands of relatives and friends of all these people had anything to do with what is going on thousands of miles away.

The United States welcomed two insane zealots, gave them shelter, and gave them opportunities they could never have had where they had come from. Instead of appreciating that hospitality, they let their hatred consume them, ultimately leading to their own destruction. Unfortunately, their path of destruction injured and killed a lot of other people. The zealots may have injured us, but their actions have only served to offend and anger us - and to make the cause which they try to force upon us only more detestable. While the memories will undoubtedly fade over time, I hope that we will strengthen our resolve to protect the American way of life.

We live in a tough and competitive society. Americans enjoy far less vacation and work longer hours than our counterparts in most other countries. But we also enjoy the most opportunities to do what we want to do, and live our lives the way that want to live them.

## **Results of MMRA Membership Survey**

**Bob DeMattia — K1IW**

At the end of March, members were invited to participate in a membership survey. The survey asked members opinions on the clubs activities, officers, and repeater systems. A total of 106 members participated; not all answered every question.

80 responded to "I use MMRA repeaters". 36 responded more than once a week, the rest responded once or less per week.

On whether members preferred the repeaters linked or unlinked, most stated no preference. For those that expressed a preference, there was a six vote margin for linking - 20 to 14.

Not surprisingly, 2m was the most popular band, with 77 respondents saying they are active on this band. This was followed by 440, 6m, 902, 222, and 10m with responses of 60, 31, 21, 20, and 15 respectively.

As for the MMRA repeater usage, 449.925 came in first with 25 members. 146.61, 82, and 147.27 were second with 18 or 19 users. 53.81, 927.0625, 146.715, and 224.70 were in the third tier, all in the range 11 to 17. This group beat out the remaining repeaters who had responses from 10 (146.79 and 927.7000) down to 2 (224.88).

Also not surprisingly, FM was the most popular mode with 60 responses. The second favorite was APRS with 18. With 12 responses, D-Star beat out both P25 (6) and DMR (5).

The majority strongly agreed or agreed that MMRA should continue to maintain its existing repeaters. There were some differences band-to-band, with 2M having the largest spread (99 positive to 1 negative) and 10M having the smallest (56 to 4).

When it comes to building new systems, members again were

generally positive, though by smaller margins. 440 got the widest spread here (37 to 5), while 10M got the smallest (17 to 13). As for the three digital modes, D-Star was 35 to 22, DMR was 25 to 12, and P25 was 21 to 16.

Members were generally satisfied with how the officers of the club are performing. 91.5% of the respondents felt officers did a good job maintaining our existing systems. 85% agreed with the officers decisions regarding improvements, and 87% felt that officers did a good job communicating with membership.

Do members like our meetings? Only 31% of respondents indicate that they always or sometimes attend meetings. 47% say they rarely do. However, the meeting topics are generally well-liked with 73% rating them excellent or good. Only 58% like our meeting locations, but 70% like our choice of Wednesday meeting nights.

Finally, the big question - how likely are they to renew? 99 respondents said they were very or somewhat likely to renew. 3 said they weren't sure. 1 said "small chance". There were three that did not respond to this question. Would they recommend to a friend who asked if it is a good idea to join? 103 said definitely join or maybe while the remainder were neutral or no response. (Author's note: It is interesting that 103 people would recommend our club to another ham, but only 99 said they would probably renew.

The full survey results are available in both PDF and CSV format on our website:

<http://www.mmra.org/survey2013.xls>

<http://www.mmra.org/survey2013.pdf>



## **ARRL EASTERN MASSACHUSETTS SECTION MAY 2013 SECTION NEWS**

**Section Manager (SM) - Phil Temples, K9HI**

It's been an extraordinary past few weeks for the citizens of Massachusetts as well as for the entire country. The tragic events at the Boston Marathon on Patriot's Day and the weeks following will forever be seared into our collective memories. The bombings, subsequent violence, the lockdown, an historic manhunt, and the eventual capture of a dangerous fugitive not only shook us but led us to summon our most enduring and positive of human qualities. We listened and watched in awe to the stories of first responders (and ordinary citizens) who rushed into harm's way to aid the injured and dying. In the days afterward, we collectively grieved. Slowly, now, we collectively heal.

For the hundreds of Amateur Radio volunteers from across New England who came to serve that day, the Marathon was going to be a fun, routine public service event. Sure, operators at previous Marathons have endured hardships and weather-related challenges. Temperature extremes in years past have resulted in hundreds of requests for ambulance transport to area hospitals. One year, there was even a fatality. But in all of the thirty-plus years of Boston Marathons in which amateurs have served, this one was without precedent.

Amateur Radio volunteers performed admirably during the period where they were covering a normal public service event. BAA officials in Hopkinton successfully ensured a smooth and safe start, thanks in part to efficient communications provided by the hams that shadowed them. Checkpoints and first aid stations were able to verify and obtain needed supplies, and later, coordinate the transport of runners. Red Cross officials who crisscrossed the course were kept in the loop always, thanks to their Amateur Radio shadows.

### **But then... 2:50 PM.**

Initially, rumors and vague reports surfaced. CNN texts and other media alerts began to light up smartphones. Phone call volume increased. In fact, in many locations along the course, cell phone service crashed under the strain. Soon, it was apparent to everyone that a major disaster

was unfolding, and amateurs were caught up in the middle of it. The jarring directive went out over the amateur networks to halt all runners.

### **Stop the Marathon.**

The BAA's mission abruptly changed, and new priorities were quickly introduced. As Marathon volunteer Tim Carter, W3ATB of Meredith, New Hampshire succinctly puts it, "The bombs created a new set of problems. How do the runners stay warm? How do the runners get fed? How do the runners get to their belongings? How do the runners discover if their loved ones waiting at the finish are okay? How do the runners let their loved ones know where they are? How will thousands of runners be transported to who-knows-where?"

News coverage of the bombings and subsequent capture of the suspects has, of course, been non-stop and numbing. Soon, for the first time the behind-the-scenes story of Amateur Radio at this Boston Marathon will appear in the volunteers' own words in the pages of QST, CQ Magazine, and the ARRL's online monthly ARES Newsletter. I want to thank our Section Emergency Coordinator Rob Macedo, KD1CY, for helping to pull together much of the material that will appear in these stories. Some of the other contributors include: Paul Topolski, W1SEX, District Emergency Coordinator for Worcester County, Western MA; Steve Schwarm, W3EVE, DEC for Field Operations, Eastern MA; Tim Carter, W3ATB; Carl Aveni, N1FY, Assistant SEC; Terry Stader, KA8SCP, DEC.

I'm proud of the actions of the section's ARES members and other Marathon Amateur Radio Communications consortium participants during this horrific event. When the shock hit, amateurs shifted gears seamlessly from public service event coverage to full-blown emergency operations. The fact that amateurs are trained and able to make such a profound transition so quickly ensures that our services will always be in demand. You have this Section Manager's sincere gratitude.

## Remote Receiver for the Boston 2M Repeater

**Bob DeMattia — K1IW**

A few weeks ago, MMRA placed a remote receiver into service for our Boston/Back Bay repeater, located on the Prudential tower. This receiver alleviates the receiver problems we have at the tower.

The remote receiver picks up signals on the normal 146.22 MHz input that have a PL of 146.2, and relays them to the transmitter at the Pru. Additionally, the receiver relays these signals back to the HUB (when '82 is linked).

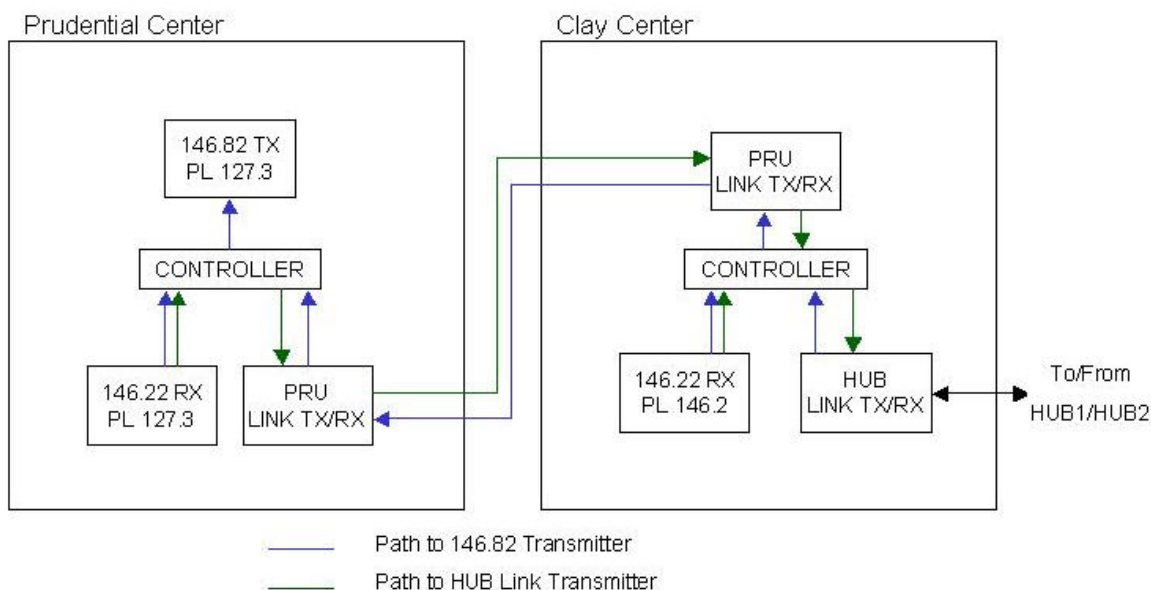
The Pru installation still has its own receiver, operating on a 127.3 PL. If you are in downtown Boston out to about Kenmore Square, you may have better access using the Pru receiver. The Pru transmitter will relay signals coming in on either receiver. There is a 127.3 PL tone on the transmitter output.

Signals coming in through the Pru receiver are relayed BACK to the remote receiver site, where they are

further relayed back to the HUB (when '82 is linked).

There are no future plans right now, but our access to the Brookline site could permit us to add additional remote receivers. They would all come back to Brookline where they could be voted and sent to the Pru transmitter. By consolidating the "intelligence" of the system at the Brookline location, we can reconfigure more frequently, as we don't have to deal with the limited access we have to the Pru.

Please try out our newest system on 146.82 and let us know how it works for you!



## Upcoming Public Service Events

**David Wolfe ~ KG1H**

Brett Smith (AB1RL) asked me to pass this along to alert you to Public Service activities in May that are being supported by the Boston Amateur Radio Club.

"May has arrived with warmer weather, and that means we're thick in the middle of the public service season. There are two events in May that BARC provides support for, and both could use more help:

- Saturday May 18: the **MS Journey of Hope Walk** in Natick. To volunteer or for more information, please contact Rick Savage, KB1LYJ: [rpsavage@comcast.net](mailto:rpsavage@comcast.net), (781) 289 7364.

- Sunday May 19: the **National Brain Tumor Society Boston Bike Ride**, from Waltham to Carlisle. To volunteer or for more information, please contact Jim Bradley, KB1JKJ: [bradley-jab@gmail.com](mailto:bradley-jab@gmail.com), (781) 953 8928.

Amateurs help keep these events safe and running smoothly for anyone, and it's a great feeling to be a part of that. I hope you'll join us for one of these events if you can. If you ever have questions about any of BARC's public service events, contact me at this address, or phone (859) 466 5915."

## **MMRA March Membership Meeting**

**Bob Evans ~ N1BE ~ Clerk**

- Members approved an expenditure not to exceed \$100 to purchase a replacement mast for Weston 10-meter antenna.
- Members approved an expenditure not to exceed \$1500 to purchase an ICOM ID-RP-2C (D-Star capable) controller. This was tied 8 in favor and 8 against before there was a vote by the MMRA President. Bob, K1IW then cast an additional vote in favor based upon e-mail discussion of this issue prior to the meeting where in Bob's opinion a majority of responders favored use of D-Star.

## **MMRA D-Star Vote at March Meeting**

**Bob DeMattia — K1IW**

At the March meeting, the membership voted to approve the purchase of a D-Star controller for not more than \$1500. The membership vote was 9 to 8, with K1IW casting the deciding vote. My decision to vote positive was based on input I had received prior to the meeting from members who were not able to attend. After the vote was over, I was asked by a club member if the announcement about the vote had been performed according to the bylaws.

The bylaws require 7 days advance notice. An email announcement had gone out in a timely fashion to all members stating that the newsletter was available on our website, and the newsletter did include information about the vote. However, the email itself did not have information about the vote. This is certainly a gray area. In future emails, the board will ensure that information about pending votes is directly contained in the email. As for the proceeding at the March meeting, I researched Roberts Rules of order, as is dictated by the

club bylaws. The rules state that if a participant feels that a procedure isn't being followed, he is required to call a point-of-order at the time it is noticed. Once this is done, there is a defined process in place in which to explore whether there is a problem in the voting procedure. Having done this after voting has been closed and tabulated deprives the membership of the chance to debate the procedural issue.

Finally, I believe the overall vote is fairly representative of the overall club's opinion about D-Star. The meeting vote was close: 9 to 8. The recent membership survey showed an approval of 35 to 22. Also, interest in D-Star is similar to interest in other modes that the club supports: We have two 900 repeaters and 21 respondents in our survey say they are active on this band. We have 4 222 repeaters, and 20 respondent say they are active on 222. So having 1 D-Star repeater to support the 12 respondents is proportionally similar. Besides, actually having a D-Star repeater on the air may increase membership.

Ham radio is a very diverse hobby. The club has a large membership base and it's important to strive to meet the needs of everyone. I expect that operating a D-Star system will be a positive experience for the club.

### **Next Business Meeting**

**Wednesday June 19, 7PM  
Stratus, Maynard**

## From the March Membership Meeting ~ An Update on WRTC2014



Waiting for the meeting to start



Dave Pascoe, KM3T, about ready to give his WRTC2014 talk

### WRTC2014 Intro/Update

MMRA  
Minuteman Repeater Association  
20 March 2013  
Dave Pascoe, KM3T

### Contesting, or "Radiosport"

- Competition to see who can contact the most stations in the most countries/states in 24/48 hours
- Most hams know about Field Day
- Lots of contests during the year

### What if....

- All operators were in the same geographic region on relatively flat ground?
- All operators had identical antennas?
- All operators used 100-Watt transmitters?
- All operators had a referee looking over their shoulder?

### This is what WRTC does!



### World Radiosport Team Championship Basics

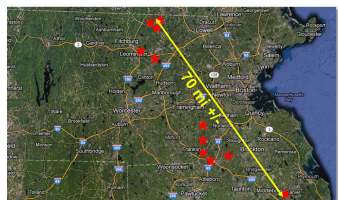
- A Contest Held every 4 years within the IARU HF Championship
  - "As equal-as-possible" locations, antennas
  - With all else equal, who are the best operators?
- Two-operator teams
  - Team Leaders selected on the basis of performance in contests in "Qualifying Period"
  - Team Leader selects Team Member

### WRTC2014 Organizers



**ADVISORY COUNCIL**  
W1UF, K3LR, NR5M, K9CT

### Current WRTC2014 Sites



All sites are in Massachusetts

### Help Wanted

- Terrific support so far
  - 120 now on Site Team E-mail list
  - 50 now on Beam Team E-mail list
- Needs:
  - Buyer (to source materials for July 2013 test and 2014)
  - Drivers (airport pickups for teams, etc.)
  - A few trucks capable of hauling 30-40 tower sections
- Go to [www.wrtc2014.org](http://www.wrtc2014.org) and...

### The contesting world is coming to New England, USA...

Thank you for your help and support for a world class event!

For more information, and to sign up to help, go to [www.wrtc2014.org](http://www.wrtc2014.org)



## 2012—2013 Meetings

19 September — Membership Meeting  
Bob Stone, N1KMA of Newfield Design  
Holiday Inn, Boxborough, MA ~ 7:00 PM

17 October — Business Meeting  
Stratus, Maynard ~ 7:00 PM

14 November ~ Membership Meeting  
Donna Halper ~ A Short History of Broadcast Radio in Boston  
Tatnuck Bookseller, Westborough ~ 7:00 PM

19 December ~ Business Meeting  
Northborough Public Library ~ 7:00 PM

16 January ~ Membership Meeting  
Technical Evolution in Disaster Communications & Free Pizza Night  
Northborough Public Library ~ 7:00 PM

13 February ~ Business Meeting  
Southborough House of Pizza ~ 7:00 PM

20 March ~ Membership Meeting  
WRTC 2014 ~ Dave Pascoe KM3T  
Chelmsford Police Station ~ 7:00 PM

10 April ~ Business Meeting  
Tech Projects Planning Meeting  
Champion Center, Weston

22 May ~ Membership Meeting  
Annual Meeting & Elections  
Clay Center, Brookline ~ 7:00 PM

19 June ~ Business Meeting  
Stratus, Maynard ~ 7:00 PM

17 July ~ Summer Get Together  
Location TBA

21 August ~ Business Meeting  
Location TBA

## Don't Forget!

Every Tuesday @ 8 PM

### Technical, Informational and Other Stuff Net

The MMRA's repeaters are linked Tuesday nights for the TIAOS Net. Join us! This is a good way to keep up with what is happening in the MMRA and ask your ham related questions.

If you would like to try your hand at Net Control contact me at [W1DYJ@mmra.org](mailto:W1DYJ@mmra.org) — we have a script you can use.

#### Current Net Control Operators:

Week 1	WA1JIM	Jimmy Devaire
Week 2	W1DYJ	Larry Banks
Week 3	KQ1Y	Tim Wortley
Week 4	K1KWP	Kevin Paetzold
Week 5	W1DYJ	Larry Banks

#### To connect using Echolink / IRLP during the Net:

- Echolink Conference \*NEW-ENG2\*
- IRLP node 9127

## MMRA Leaders

### Officers

President	Bob DeMattia	K1IW
Vice President	Steve Telsey	N1BDA
Secretary	John McGovern	W1JMC
Treasurer	Kevin Paetzold	K1KWP
Clerk	Bob Evans	N1BE
Technical Officer	Bryan Cerqua	W1BRI

### Board of Directors

Director »2014	Clark Conti	N1NVK
Director »2014	Mike Neilsen	W1MPN
Director »2013	Steve Schwarm	W3EVE
Director »2013	Roger Coulson	WA1NVC

### Repeater Trustees, Appointed

Boston 927.0625	Rick Zach	K1RJZ
Brookline 146.820	Bob Phinney	K5TEC
Burlington 146.715	Bruce Pigott	KC1US
Burlington 446.775	Larry Banks	W1DYJ
Hopkinton 223.940	Kevin Paetzold	K1KWP
Lowell 442.250	Vince De La Flor	K1LVF
Marlboro 53.810; Quincy 146.670; Southboro 449.575	Bryan Cerqua	W1BRI
Marlboro 144.390, 147.270, 224.880, 449.925, 927.700		
Belmont 145.430; Weston 442.700 — all as W1MRA		
	Bill Northup	N1QPR
Mendon 146.610	Jim Podsiadlo	AE1C
Weston 146.790	Bob Evans	N1BE
Weston 224.700	Eddie Mulhern	N1NOM

### Appointed, non-Voting

Newsletter Editor	Larry Banks	W1DYJ
Emergency Coord.	Kevin Paetzold	K1KWP
Public Service Coord.	David Wolfe	KG1H
VEC Liaison	Bill Wade	K1IJ
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Web Page Editor	Bob DeMattia	K1IW

Previous issues of the MMRA Newsletter are available at:

[www.mmra.org](http://www.mmra.org) → [Newsletter Archive](#) (on the left)

## MMRA VE Sessions

3rd Saturday of each Month

9 AM at the Marlboro Public Library

Contact: Bill Wade, K1IJ 781-891-9079

Evenings 6 - 10 PM Weekends 8 AM to 10 PM.

Accredited by the ARRL VEC

**Membership Meeting ~ Wednesday, May 22 ~ 7 PM**  
**Observatory Telescope & Science Lab Tour**  
**General Meeting & Elections**  
**Clay Center Observatory, 20 Newton St, Brookline, MA**

**Calendar of Ham Radio Flea Markets**

See this web site for more information: <http://mit.edu/w1gsl/Public/ne-fleas>

1 Jun	Hermon ME	PSARA @HS	8 Sep	Newtown CT	CARA @TownHall
1 Jun	Windsor CT	VR+C Mus 115 Pierson	15 Sep	Cambridge MA	FLEA at MIT
	LN		21 Sep	Forestdale RI	RIAFMRS @VFW
1 Jun	Goshen CT	So.BARC @FG	21 Sep	Manchester CT	PVRA @MarcusComm
2 Jun	Bethpage NY	LIMARC @Briarclif	21 Sep	Alexander ME	StCVARC @ElSch
15 Jun	Newington CT	NARL @StMarySch	28 Sep	Brookline NH	NEARC Antique
16 Jun	Cambridge MA	FLEA at MIT	6 Oct	Queens NY	HoSARC
30 Jun	Queens NY	HOSARC	11,12 Oct	Deerfield NH	NEARFest XIV
21 Jul	Cambridge MA	FLEA at MIT	13 Oct	Meriden CT	Nutmeg @Sheraton
3 Aug	St Romuald PQ	ARESdQ	19,20 Oct	Wakefield MA	Photographica
10 Aug	Milo ME	PARC @AmLegion		@AmericalCtr	
18 Aug	Cambridge MA	FLEA at MIT	26 Oct	Gales Ferry	TCARC Auction @FireCo
25 Aug	N Adams MA	NoBARC @BoweFld	27 Oct	Hicksville NY	LIMARC @LevitHall
7 Sep	Ballston Spa NY	SCRACES @FG	9 Nov	Bourne MA	FARA @UpperCC VoTech
7 Sep	Windsor CT	VR+C Mus 115 Pierson	30 Nov	Windsor CT	VR+C Mus 115 Pierson
	LN			LN	

THE MINUTEMAN REPEATER ASSOCIATION

**MMRA**  
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WE'RE ON THE WEB  
[HTTP://WWW.MMRA.ORG/](http://www.mmra.org/)