



The Minuteman



Volume 38. Number 5

May 2009

Membership Meeting ~ Wednesday, 20 May 2009 @ 7:30 PM

Astronomy Night (and General Elections)

The Clay Center Observatory

Alan Sliski — Chief Technology Officer, Orbital Therapy LLC

Mr. Sliski will give a brief history of SETI and talk about the recent development of OSETI, the optical search for extraterrestrial intelligence at Harvard's Oak Ridge Observatory, as well as a peek at the technology behind a new generation of radiation therapy equipment. A brief demonstration of a plasma loudspeaker will be also attempted.

Talk in — 146.82

A serial entrepreneur, inventor, physicist, engineer, and amateur astronomer, Mr. Sliski is a generalist in the age of specialization with 26 patents issued and is a co-founder of Orbital Therapy, a start-up designing radiation therapy equipment for treating breast cancer.

Mr. Sliski has worked in a variety of start-up companies in the 128 region and also at the Harvard physics department. He has worked with Paul Horowitz in designing a new generation of SETI instruments, looking for nanosecond flashes of light from distant civilizations.

Nominating Committee Report

President Bob DeMattia K1IW Vice President Steve Telsey N1BDA John McGovern, Secretary W1JMC Treasurer Kevin Paetzold K1KWP Clerk **Bob Evans** N₁BE Steve Schwarm Director, 2009-11 W3EVE Director, 2009-11 **WA1NVC** Roger Coulson

US Mail Newsletter is \$10/year for all new and renewing members.

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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 September, November, January, March, and May. Meeting time, locations and talk-in frequency vary. These are announced in the newsletter and on weekly nets. Meetings are open to all interested parties.

The Minuteman newsletter is mailed one week before each meeting. Members are encouraged to submit articles. Articles may be sent to the editor via email to 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. The MMRA maintains a web site at: http://www.mmra.org/

An email distribution list for club members named "MMRA" is at: www.yahoogroups.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 or via other means.

The most effective (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

	edian Mus Bi Call Linking			ina	
Location	MHz	PL	Call		To Hub 2
	MMI	RA Voice	Repeaters	1011010	
Marlborough	53.810	71.9	W1BRI	PTL	_
Marlborough	145.160	_	W1MRA	D-S	tar
Belmont	145.430	67.0	WA1RTT	_	_
Mendon	146.610	146.2	N1BHI	FTL	PTL
Quincy	146.670	146.2	W1BRI	PTL	PTL
Burlington	146.715	146.2	N1NVL	PTL	PTL
Weston	146.790	146.2	N1BE	PTL FTL Hub2 10- 4	PTL
Brookline	146.820	146.2	K5TEC	FTL	PTL
Marlborough	147.270	146.2	W1MRA	PTL	PTL
Hopkinton	223.940	103.5	N1BHI	FTL	_
Quincy	224.400	103.5	N1KUG	FTL	PTL
Weston	224.700	103.5	N1NOM	FTL	PTL
Marlborough	224.880	103.5	W1MRA	PTL	FTL
Weston	442.700	88.5	W1MRA	Network (PTL to	
Burlington	446.775	88.5	W1DYJ	FTL	PTL
Southborough	449.575	88.5	W1BRI	PTL	
Marlborough	449.925	88.5	W1MRA	Network	t Hub 1
Affiliated Voice Repeaters					
Maynard	29.620	100.0	W1OJ	_	FTL
Norwell	145.250	77.0	AC1M	PTL	PTL
Coventry RI	145.370	67.0	N1JBC	PTL	
Norwell	443.600	88.5	NS1N	PTL	PTL
Milford	446.825	100.0	WA1QGU	_	_
Marlborough	447.875	136.5	K1IW	Linked	to 6M
Mt. Wachusett	448.625	88.5	W1OJ	_	FTL
Marlborough	927.700	131.8	K1IW	Linked	to 6M
MMRA "Other" Systems					
Marlborough	144.390	none	W1MRA	APRS Di	-
???	145.630	146.2	W1MRA	Fox	Вох
Internet	Echolink node 94940				
	IRLP node 4133				

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. The code **750** will temporarily disable the MMRA PL on the 2M repeaters.

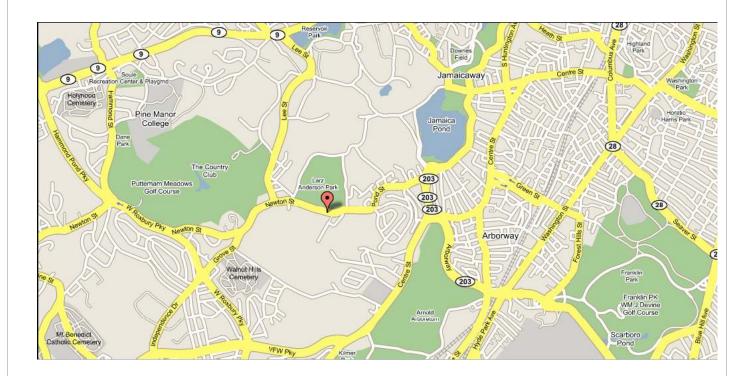
Autopatch: Only the Hub 1 has a telephone line. Link to Hub 1 if necessary, then bring up the autopatch using the 449.925 autopatch codes.

Control codes are sent to members upon receipt of dues.

Membership Meeting ~ 20 May — 7:30PM Astronomy Night (and General Elections) The Clay Center Observatory

Talk in freq: 146.82

More information on Page 1



We will be meeting at **The Clay Center Observatory**, 20 Newton Street, Brookline, MA 02445. The Clay Center information phone number is 617-454-2718 **Please monitor the talk-in on 146.82 in case we must make a last-minute change of plans.**

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.) (Private Way) 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.

From the East:

Follow the Jamaicaway into Jamaica Plain. Follow the Jamaicaway 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.) (Private Way). 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.

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.) (Private Way). 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.

Boston Area Hams Provide Communications Support for Annual Marathon Copyright © 2009, American Radio Relay League, Inc. All Rights Reserved.

More than 250 Amateur Radio operators provided communication support for the 113th running of the Boston Marathon on Monday, April 20, also known as Patriots' Day. With more than 26,000 official runners and 500,000 spectators along the 26 mile route, the marathon utilized amateurs at the starting line, along the course at each water and first aid station along the route, and at the finish line.



"This is the largest public service event in New England in terms of the number of Amateur Radio operators required for a oneday event, and we can always use more hams to help

us," said Marathon Amateur Radio Communications (MARC) Course Coordinator Steve Schwarm, W3EVE. "We're glad that the weather was cool and the number of ambulance requests this year was lower than past years, where we had higher temperatures and more medical issues."

Even with the more temperate weather, MARC Finish Line Coordinator Paul Topolski, W1SEX, said the medical tents at the finish line were near capacity by mid-afternoon. "Hams provided communications, status and logistical issue updates between the medical tents to our finish line net control as needed," he said

The Massachusetts Emergency Management Agency (MEMA) was active with operations at the State Emergency Operations Center in Framingham, with their operations room acting as a Unified Command Center (UCC) for the marathon. RACES members staffed the communications room at the SEOC, and ARRL Eastern Massachusetts Section Manager Mike Neilsen, W1MPN, staffed the UCC. Neilson fed status reports on any issues along the marathon route into the opera-

tions room, as well as issues from the UCC to the operations room.

"This is the first time we've had an Amateur Radio Operator in the operations room of the UCC," said Massachusetts State RACES Radio Officer Tom Kinahan, N1CPE. "We have been coordinating with the Boston Marathon Net Control and the finish line communications in Boston to provide updates into our station and to our Amateur Radio operator in the UCC."



The Net Control center is located with a line-ofsight to the Boston area and to the entire 26 mile route in simplex case communication is required. More than a dozen

repeaters were utilized to provide overlapping coverage to the marathon route. The Clay Center Amateur Radio Club, the Minuteman Repeater Association, the Framingham Amateur Radio Association and many other clubs in the New England area support the marathon operations.

With so many amateurs placed along the marathon route, ARRL Eastern Massachusetts Section Emergency Coordinator Rob Macedo, KD1CY, placed <u>Eastern Massachusetts ARES</u> on standby in case something went wrong along the marathon route, or a major incident occurred coincident with the marathon. "This is standard operating procedure for 'Marathon Monday'" he said. "We want our members to maintain a heightened state of awareness during the event."

Patriots' Day -- a state holiday in Massachusetts and Maine -- commemorates the anniversary of the Battles of Lexington and Concord, the first battles of the American Revolutionary War.

MMRA March Membership Meeting

The March meeting was held jointly with the Framingham Amateur Radio Association (FARA). Miles Mann, WF1F, told us all about SSTV on the ISS. Miles' presentation can be found at:

http://www.mmra.org/spacecamstatclub.pdf



Left
Miles giving the overview of the ISS SSTV
project.

Right
One of the SSTV pictures sent back from the



MMRA April Board of Directors Meeting Bob Evans — N1BE — Clerk

The board met at 19:30 EDT on April 15th in the Waltham Weston Corporate Center. Present were K1KWP, WA1NVC, K1IW, W1MPN, KC1US, W3EVE, N1BDA and N1BE.

Kevin, K1KWP spoke first with a Treasurer and membership report. Memberships are up from last year. 173 members joined or renewed in the prior MMRA fiscal year. This year there have been 188 new or renewing members. As a result, there were \$421 additional in dues collected this year.

Bob, K1IW led a discussion of repeater status:

- Low power out on Quincy .67 seems resolved. Roger, WA1NVC and Bryan, W1BRI exchanged a cable on the PA and the different length seems to have alleviated false triggering of the SWR shutdown circuit.
- Burlington .715 linking issues have been resolved by K1IW via a controller reset and reloading some macros that became corrupted.
- Low receive sensitivity at Brookline .82 has not yet been resolved. Suspicion of either feedline or antenna as the root cause has not changed from what was reported in the prior newsletter. In the next few days Roger plans to visit the site with Bryan to label cables and install alternative antenna and feedline as a trial.
- At Belmont .43 an aux. control link is now in service.
- Weston .79 is transmitting distorted audio. The symptoms indicate the link receiver may be off frequency. K1IW plans to investigate this.
- Southboro .575 is not responding to touch tones. It is also stuck linked to HUB1. K1IW will unlink it after the meeting. This again may be an issue with settings stored within the controller somehow getting changed.
- At the Marlboro East site trees need to be removed before they cause problems with the antennas. Roger planned to line up some assistance to work on this since many of the officers were busy with Public Service commitments.
- HUB1 .925 is working well. Echolink out is now being used by members. Roger obtained a donated 100AH AGM battery for backup power on HUB1. The board approved up to \$150 to purchase a West Mountain Radio Super PWRgate PG40S Backup Power System for use in this application. Roger will recycle some no longer useful batteries in the MRW shelter as part of setting this up.
- .27 is frequently keying up with a weak unmodulated carrier and courtesy beeps. This goes out on the link transmitter and, due to proximity, blocks other signals from being heard by the HUB1 receiver. Bob will disable linking by .27 for now to avoid this problem.
- Mendon .61 received audio level is too weak when connected to the network. (No action.)

Bob reported a status update from the Mayor on Marlboro's plans for the MRW site. Bidding has closed for the

"Rehabilitation of Sligo Hill Water Tower & Appurtenant Work". The bids were about \$200K higher than expected, but this is under negotiation. Bob thought the City would make a final go or no-go decision in this cycle rather than deferring that for another round of bidding. This mostly has impact only on the antenna work MMRA needs to perform at that site. Replacement of the MRW radio shelter is being pursued regardless of the tower work. We are waiting for the new shelter to be transported from Maine to Massachusetts.

Bruce, KC1US, gave an overview of public service events using MMRA repeaters for the next few weeks. Between now and May 3rd: the Boston Marathon, Run of the Charles, and Walk For Hunger. Bob is referring all public service requests on to Bruce.

No action was taken on the possible bylaw changes discussed in the last newsletter as the bylaws already cover those issues.

The board discussed nominations for next month's election of officers and directors. All incumbents ending their term and present at this board meeting agreed to be nominated for the office they currently hold. This covered every office except Secretary. For this position, K1KWP and K1IW are pursuing nominations from past officers and members who have expressed an interest in getting more involved with the MMRA.

This left us with a few quick discussions.

- Since it is spring we got the yearly query about what is the MMRA doing about Field Day. We took no action since the active board members have already committed their available time to repeater and public service projects. There can be an MMRA Field Day, but someone would have to step forward to coordinate the event. This is not a huge effort, and there would be support from the board. So if this interests you, please step forward via an e-mail to contact@mmra.org.
- VOIP access -- there have been queries about nonmembers who would like to use the MMRA system to initiate outbound connects via Echolink. The MMRA is an open system, but this action requires entering the user code in touch tones. The board suggests that a nonmember make a request by voice for someone to enter the access code, and encourage members to be helpful to the visitor when a situation like this arises.
- Finally we discussed a picnic/fox hunting event for some time in the Summer. This would combine a ride along with the fox hunters and a club barbecue, in the style of the past foxathon and mobilathon events. We are looking for a public park site for the BBQ, somewhere along route 128 in the Newton to Bedford area would be ideal. Parking and access fees are important considerations.

The meeting adjourned at 21:40.

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

April Treasurer's Report Kevin Paetzold, K1KWP

Income	Dues	\$5307
	Donations	939
	Misc.	425
	Total	\$6681
Number of	= 188 = 24	
Expenses	Spent to date Expected expenses Total	\$4892 115 \$5007
Discretion	\$1674	

New Hardened Entrance to Quincy Repeater site



On April 1st, Bryan, W1BRI, and Roger, WA1NVC, were in Quincy to repair the system. (See the board meeting minutes on page 5.) Bryan is shown inspecting the new, hardened entrance before climbing in.

Upcoming MMRA Meetings

All meetings start at 7:30 unless otherwise noted.

Date	Location	<u>Feature</u>
Sep 17 7 PM	Weston Public Library	MMRA Virtual Tour
Oct 15	Kennedy's	Board Meeting
Nov 19 7 PM	Burlington Public Lib.	ARRL Update — Mike, K1TWF
Dec 17	Stratus	Board Meeting
Jan 21 7 PM	Westboro Public Lib	902 MHz — John, N1OTY
Feb 11*	Chin's, Marlboro	Board Meeting
Mar 5 *	FARA	SSTV on ISS, Greg, WF1F
Apr 15	Watham-Weston Corp	Board Meeting
May 20	Clay Center * Not the 3rd Wednesda	Alan Sliski — CTO of Orbital Therapy LLC

MMRA Leaders

Bob DeMattia	K1IW
Steve Telsey	N1BDA
Dan Rajczyk	N1KJN
Kevin Paetzold	K1KWP
Bob Evans	N1BE
Bryan Cerqua	W1BRI
Clark Conti	N1NVK
Mike Neilsen	W1MPN
Steve Schwarm	W3EVE
Roger Coulson	WA1NVC
open	
Larry Banks	W1DYJ
Larry Banks	W1DYJ
Bruce Pigott	KC1US
Bill Wade	K1IJ
Bob DeMattia	K1IW
	Steve Telsey Dan Rajczyk Kevin Paetzold Bob Evans Bryan Cerqua Clark Conti Mike Neilsen Steve Schwarm Roger Coulson open Larry Banks Larry Banks Bruce Pigott Bill Wade

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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.

We need another net control!

If you would like to try your hand at Net Control contact me at <u>W1DYJ@mmra.org</u> – we have a script you can use to start with. This is good practice for a number of ham related operations, from emergency preparedness to contesting.

Current Net Control Operators:

Week 1	WA1JIM	Jimmy Devaire
Week 2	???	OPEN
Week 3	W1DYJ	Larry Banks
Week 4	K1KWP	Kevin Paetzold
Week 5	W1DYJ	Larry Banks

Newsletter Delivery

If you received this via US Mail, you should think about having it sent by eMail. You will receive it earlier, it will be in color, and it may have MORE great content! Send your request to N1KJN@mmra.org.

US Mail delivery of the newsletter is an additional \$10/year.

Past Newsletters are available at http://www.mmra.org/

MMRA VE Sessions

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3rd Saturday of each Month 9 AM at the Marlboro Public Library Contact: Bill Wade, K1IJ 781-891-9079 Evenings 6 to 10 PM, Weekends 8 AM to 10 PM.

Accredited by the ARRL VEC

Membership Meeting ~ Wednesday, 20 May 2009 @ 7:30 PM

Astronomy Night (and General Elections)

The Clay Center Observatory

Talk in — 146.82

Calendar of Ham Radio Events

19 Sept

19 Sept

Forestdale RI

Alton NH

Public Service Events

See this web site for contact information

http://purl.org/hamradio/publicservice/nediv

May 16	Westford MA	Apple Blossom Parade
May 17	Devens MA	Parker Classic Road Race
Jun 7	Boston MA	Bikes Not Bombs bike rides
Jun 27, 28	Quincy MA	MS Cape Cod Getaway
Jul 3-5	Fitchburg MA	Fitchburg Longsjo Classic
Jul 25	Devens MA	Memory Ride for Alzheimer's
Jul 26	Haverhill MA	Cycle for Shelter
Aug 8	Stratham NH	MS Seacoast Escape
Sep 11-13	Cape Cod MA	MS Challenge Walk
Sep 26	Berkshires MA	MS Bike&Hike the Berkshires
Oct 11	Boston MA	BAA Half Marathon

New England Area Ham - Electronic Flea Markets

See this web site for contact information http://mit.edu/w1qsl/Public/ne-fleas

Cambridge MA	FLEA at MIT
Vernon CT	NARC @TolandAg
Rochester NY	RARA New Location
Goshen CT	SoBerksARC @Fairgrnd Rte63
Hermon ME	PSARC @HS
Windsor CT	VR+C Mus 115 Pierson LN
Newington CT	NARL @StMarySch
Cambridge MA	FLEA at MIT
N Haven CT	@HI I91x12
Gales Ferry CT	RASON @VFD
St Albans ME	PARC
Swamton VT	STARC I89x21
Windsor ME	AARA @FG
Windsor CT	VR+C Mus 115 Pierson LN
Newtown CT	CARA@TownHall
	Vernon CT Rochester NY Goshen CT Hermon ME Windsor CT Newington CT Cambridge MA N Haven CT Gales Ferry CT St Albans ME Swamton VT Windsor ME Windsor CT

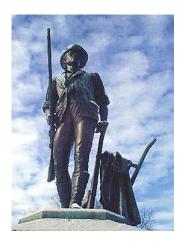
RIFMRS @VFW rt146

MASONS @Lodge

THE MINUTEMAN REPEATER ASSOCIATION

MMRA P.O. Box 669 Stow, MA. 01775-0669

Email: contact@mmra.org



We're on the web