

The President WB2DCL

Editorial - WB0SQR

The President has
resigned - we need
a new President!

"McNall@WB2DCL.ENET.DEC.COM".

73, Ralph McNall, WB2DCL
508-366-2404

73,

Alan Medsker, WB0SQR

60 Pine Street,
Milford, MA 01757
508-478-8721

Income:	89-90	90/05/15	90-91
Dues (400+ Members)	\$11000.00	\$9362.00	\$9500.00
Advertising	\$0.00	\$0.00	\$0.00
Raffles	\$0.00	\$231.00	\$200.00
Flea Market	\$1200.00	\$625.15	\$1000.00
Misc.	\$0.00	\$31.25	\$0.00

Total Income	\$12200.00	\$10248.40	\$10700.00
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Expenses:	89-90	90/08/15	90-91
Administration	\$3543.00	\$2475.66	\$3843.00
Flea Market	\$0.00	\$0.00	\$400.00
Marlboro - West	\$1550.00	\$844.98	\$1965.00
Marlboro - East	\$1250.00	\$512.21	\$1400.00
Quincy	\$1350.00	\$282.30	\$1150.00
Stoneham	\$1200.00	\$677.24	\$1385.00
Weston	\$2000.00	\$1358.90	\$2100.00
Hopkinton	\$950.00	\$170.25	\$400.00
R&D	\$500.00	\$31.48	\$500.00
Tools: Test Equipment, ...	\$0.00	\$0.00	\$300.00
Contingency (Antenna/Feedline)	\$1000.00	\$0.00	\$1000.00

Total Expenses	\$13343.00	\$6354.03	\$14643.00
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Balance	(\$1143.00)	\$3825.37	(\$3843.00)
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Bank Balance (89/09/07 \$3433.35)	\$2290.35	\$7353.72	\$3410.72
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Administrative:	89-90	90/08/15	90-91
Insurance	\$661.00	\$761.00	\$761.00
Corporate Fees	\$190.00	\$0.00	\$190.00
CEMARC Dues	\$100.00	\$0.00	\$100.00
NESMC Dues	\$70.00	\$0.00	\$70.00
PO Box Rental	\$72.00	\$72.00	\$72.00
Newsletter Printing	\$800.00	\$266.27	\$600.00
Mailings	\$550.00	\$567.50	\$750.00
Meeting Site Fees	\$300.00	\$250.00	\$300.00
Refreshments	\$100.00	\$56.90	\$100.00
Raffles	\$0.00	\$0.00	\$0.00
Presidents Acct.	\$100.00	\$28.00	\$100.00
Secretariat Acct.	\$300.00	\$380.03	\$500.00
Treasurers Acct.	\$100.00	\$82.85	\$100.00
Promotion	\$100.00	\$0.00	\$100.00
Misc.	\$100.00	\$0.00	\$100.00

Total Admin. Budget	\$3543.00	\$2475.66	\$3843.00
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Repeater News

Bob Clements, K1BC, has maintained a repeater operating on 224.70 MHz, collocated at the Weston site of 146.82, for some time. This is a complete repeater package including a K1BC controller. Bob has most generously donated this repeater to the MMRA, and Al Kunian, KA1AL (I still think he must have paid some one to get that call:-) has agreed to take over as Trustee.

Bob, who is a computer scientists by profession, has been extremely generous to the MMRA over the years. The MMRA now has four of the (K1BC) controllers he designed operating three of our repeaters, the two in Weston and 146.61 in Marlboro. And the K1BC controller is still unique in its ability to provide Bay-State service and access to local exchanges outside a repeaters immediate area code.

Our profound thanks to Bob!

Marlboro - 449.925 - KA1CLX

Trustee: Scott Bullock, 508-872-4961.

On June 27 a lightning strike took out the power supply. And for at least the second time Scott has repaired it. Scott has also replaced the K1BC controller with an S-Com 5K. The K1BC controller is now the primary controller for 146.82 with the original K1BC prototype being kept in reserve as a backup.

Quincy - 224.40 - WA1ZID

Trustee: Tom Holmes, 617-961-3156.

This repeater appears to be off the air. Tom is very busy with personal business and has not had the time to do anything else besides try and bring it back up remotely, which apparently didn't work.

*Quincy
needs a
Full Time
Trustee!*

Weston - 224.70 - KA1AL

Trustee: Alan Kunian, 508-872-2912

A new power supply is being budgeted. It should eliminate the hum problem and allow a power amplifier to be added. We plan to remote base link it to 449.925. And as it is collocated with 146.82 we will also be working on plans to cross

link it and use the Weston patch as an alternative to the 449.925 patch.

Hopkinton - 223.94 - N1BHI

Trustee: Andy Morrison, 508-481-3878.

394 will soon be linked with 449.925 and 146.61. Scott, KA1CLX and I have developed a design for remote base linking with either callable or "killable" links. User callable or killable links will automatically return to their previous state after a short period of link inactivity. The hardware for the link has been acquired, and is now under construction. The 394 link will be the prototype to be eventually used in an overall network plan for all 8 MMRA repeaters. That plan is still being developed, and will be made available to the general membership soon.

Weston - 146.82 - KA1AL

Trustee: Alan Kunian, 508-872-2912.

One of our greatest concerns, during the last fiscal year, was solving the problem associated with interference generated by persons using repeaters of adjacent frequencies, or if in the vicinity of Weston, those using 146.52 direct. The new repeater (on line October, 1987, constructed by Matt, KA9CRG), proved to have the selectivity and sensitivity to solve the problem, except that there was distortion in the audio signal on 146.82.

Our thanks to Scott, KA1CLX, who solved the problem in several nightly sessions. It now sounds and receives great. Also thanks to Rich, N1CRC, for providing the new final power amplifier tubes at his cost to the MMRA.

We also received a modern generation K1BC controller, to replace the 1978 version. This controller meets requirements peculiar to the 146.82 repeater, not available in most expensive controllers, without extensive modification. I must apologize for not having the Arlington remote site on line, but technical priorities with other repeaters, and problems associated with the implementation of this have slowed progress.

Stoneham - 146.715 - N1DKZ

Trustee: Mike Goldberg, 617-662-9713.

It's no secret the machine has been off the air. After many false starts, including a jumping oscillator, dirty cans (diplexer), dry electrolytics, etc., WA1EGL, K1PKX, and N1DKZ had the machine back on the air at WA1EGL's house

since 8-12 (the location was in a hole so the coverage was poor) and back at the regular location since 8-20. However, there still appears to be receiver sensitivity problems. Scott, KA1CLX, will be working with Mike to evaluate the problem and see if either of two existing sets of spare cans we have can fix the problem. By the time you read this the problems will either be fixed or we will budget to fix it at the September meeting!

Quincy - 146.67 - K1IAO

Trustee: Hazen Saltmarsh, 617-326-6179.

This repeater appears to be fine. However, now that Salty is retired he is frequently out of the area and not available to respond if there is a problem.

*Quincy needs
a Full Time
Trustee!*

Marlboro - 146.61 - N1BHI

Trustee: Andy Morrison, 508-481-3878.

The high power amplifier is back on-line; we were successful in providing better ventilation so that in the summer heat we don't fry everything in the shelter because of the tube heat dissipation. The problem with the phone patch is due in part to audio interaction in the controller summing buss. Part of the solution will involve converting the patch to half-duplex. This will be addressed in the future.

Marlboro - 145.03 - KA1OUI-3

Trustee: Gerald McGarry,

The June 27 lightning strike also took out the power supply for KA1OUI-3. It was subsequently repaired.



Meeting Reports

Wednesday, May 16, 1990

The MMRA held its annual meeting on Wednesday, May 16, 1990 at the Campion Center, Weston, Mass. In addition to electing officers for the coming year the members present approved the following five changes to the by-laws:

By-laws Changes:

- To Article IV. MEMBERSHIP, Section 2. added:
"The MMRA does not and will not restrict membership on the basis of race, sex, age, creed, ..."
- To Article IV. MEMBERSHIP, Section 3. changed:
"... issued a membership card signed by an officer and stating ..."
to: "... issued a membership card stating ..."
- To Article IV. MEMBERSHIP, Section 4. changed:
"... as used in arriving at the proposed dues level."
to: "... as used in arriving at any proposed change in dues level."
and changed:
"Dues shall then be determined by the membership at said meeting."
to: "Any change in dues shall then be determined by the membership at said meeting."
- To Article IV. MEMBERSHIP, Section 7. changed:
"Such quorum shall be 20% of the members in good standing."
to: "Such quorum shall be 5% of the members in good standing."
- To Article V. GENERAL PROVISIONS, Section 1.a., changed: "All expenditures of the Corporation in excess of three hundred dollars must first be authorized by majority of the membership."
to: "All expenditures of the Corporation in excess of, the lesser amount of, five percent (5%) of the Annual Budget or twenty percent (20%) of the

cash balance on hand, must first be authorized by majority of the membership eligible to so vote at a business meeting."

Board meeting - 90/06/27

Board meeting - 90/08/15

Technical Committee meeting - 90/08/20

Flea Markets

Sunday, Sept. 16 @ 9:00 am

The Hartford HamFest (NATCHAUG ARC), Tolland Agricultural Center, Rt. 30 East, Vernon, CT. (I-84 Exit 67)
Info: Phill Davis, WF1O, 203-649-1624.
Talk-in: 144.51,

Saturday/Sunday, Oct. 13-14

Boxboro (ARRL) Convention
The MMRA will be providing talk-in support on 146.61, 223.94, 449.925, and 146.82. Please stop by the membership table and help out.

Saturday January 12, 1991

MMRA Flea Market, Westboro Mass.
9:00 am - Westboro Senior High School

One Man's Trash

Nets & Public Service

Civil Defense Area 3

Date/Time: 7:00pm, 1st Monday of month
Location: 146.01 / 61 MHz - Marlboro
& @ 7:15 pm on 52 / 53.31 MHz

Civil Defense, FEMA & the MMRA

The MMRA is working toward more active participation in emergency communications. We have contacted the Regional Director of the Federal Emergency Management Agency, and have

begun taking an active part in helping the State Civil Defense agency in improving its readiness to handle emergency communications. Along these lines, the Marlboro repeater, 146.61 is going to be used by Civil Defense for its Area 3 monthly nets. The net control operators of nets operated on several repeaters in Area 3 (Central Massachusetts) will be using '61 to pass check-in information to CD Headquarters in Westboro. Watch for press announcements of the various nets and repeaters in your local press. We plan to begin building a group of people who are committed to assisting federal and state authorities in providing emergency communications. Initially we will be meeting with Civil Defense and FEMA representatives to clarify how we can help. Anyone who is interested in getting into this at the beginning should contact Andy Morrison, N1BHI. We will be planning meetings to organize this in the spring, and perhaps some field exercises aimed at practice and fun.

*Dear Members,
Family demands have caused me to submit my resignation at this time. If you are wondering, why then did I run for reelection this past spring, I didn't. But neither did any one else. So, by default I remained Pres. But now on if you will need to take it on.*

On a brighter note, At the last Board meeting N1BHI recommended that K1BC be made an Honorary Life Member. And it was subsequently approved by the board. The board also agreed that Frank, W1JDO, should also be made an Honorary Member for Life. Finally, we want to thank David Metz, K2LT, for his continuing support



The MMRA operates seven repeaters serving the Eastern Massachusetts area. Coverage is provided on 2M, 220 and 440. These are open repeaters. All hams are welcome. Membership in MMRA is not required unless autopatch privileges are desired. If you would like to support MMRA in maintaining and expanding its networks we would be most happy to welcome you as an MMRA member.

Ralph WB2OCL

MINUTEMAN REPEATER ASSOCIATION, INC.

Box 2282 - Lexington, MA 02173

A Non-profit Communications Organization Serving the Public in Time of Emergency

— Application for Membership —

☐ New ☐ Renewal

☐ Individual Membership (Dues: \$25 per year)

☐ Family Membership (Dues: \$35 per year)
(list names of other members below)

☐ Novice Membership (1st year dues: \$10)

I hereby apply for membership in the MINUTEMAN REPEATER ASSOCIATION, INC. I agree to abide by the rules and regulations of the Association as stated in its By-Laws, and understand that acceptance of this application entitles me to all rights and privileges of membership as provided under the By-Laws.

Signature _____

Date _____

Please print or type the following:

NAME _____

CALL _____

NAME USED ON THE AIR _____

CLASS OF AMATEUR LICENSE _____

HOME ADDRESS _____

Street

City and State

Zip code

HOME TELEPHONE _____

WORK TELEPHONE _____

OCCUPATION _____

EMPLOYER _____

MEMBER OF: ARRL? _____

OR OTHER REPEATER GROUP? (Name) _____

EQUIPMENT AVAILABLE FOR YOUR USE: (How many? What type? What modes?)

Type	No.	Mobile	Portable	Fixed	Touch Tone	FM	SSB	Packet	CW	Patch	RTTY	ATV
HF	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VHF	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UHF	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I can, and am willing to, assist/serve the Association and/or to maintain the Repeaters in the following ways: (Check appropriate box).

<input type="checkbox"/> Antenna	<input type="checkbox"/> Flea Market	<input type="checkbox"/> Public Service	<input type="checkbox"/> Equipment Transportation
<input type="checkbox"/> Receiver	<input type="checkbox"/> Legal Aid	<input type="checkbox"/> Education: <input type="checkbox"/> CW <input type="checkbox"/> Theory	<input type="checkbox"/> Technical Documentation
<input type="checkbox"/> Transmitter	<input type="checkbox"/> Refreshment	<input type="checkbox"/> Medical Aid	<input type="checkbox"/> Schematic Drawings
<input type="checkbox"/> Logic	<input type="checkbox"/> Newsletter	<input type="checkbox"/> Meeting Set-up	<input type="checkbox"/> Technical Committee Repeater: _____
<input type="checkbox"/> Telephone	<input type="checkbox"/> Special Projects	<input type="checkbox"/> Building Construction	<input type="checkbox"/> Control Operator Repeater: _____
<input type="checkbox"/> Publicity	<input type="checkbox"/> Association Officer	<input type="checkbox"/> Equipment Construction	<input type="checkbox"/> Board of Directors

Recommended by MMRA member _____

Call _____

**Minuteman
Repeaters**
Phone Patch

Marlboro
146.61

Quincy
146.67

Stoneham
146.715

Weston
146.82

Hopkinton
223.94

Quincy
224.40

Marlboro
449.50

✓

✓

✓

✓

MMRA

Minuteman Repeater Association, Inc.
P.O. Box 2282
Lexington, Massachusetts 02173

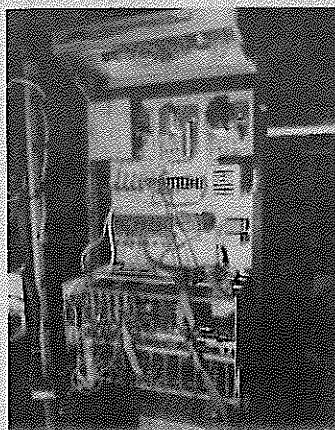
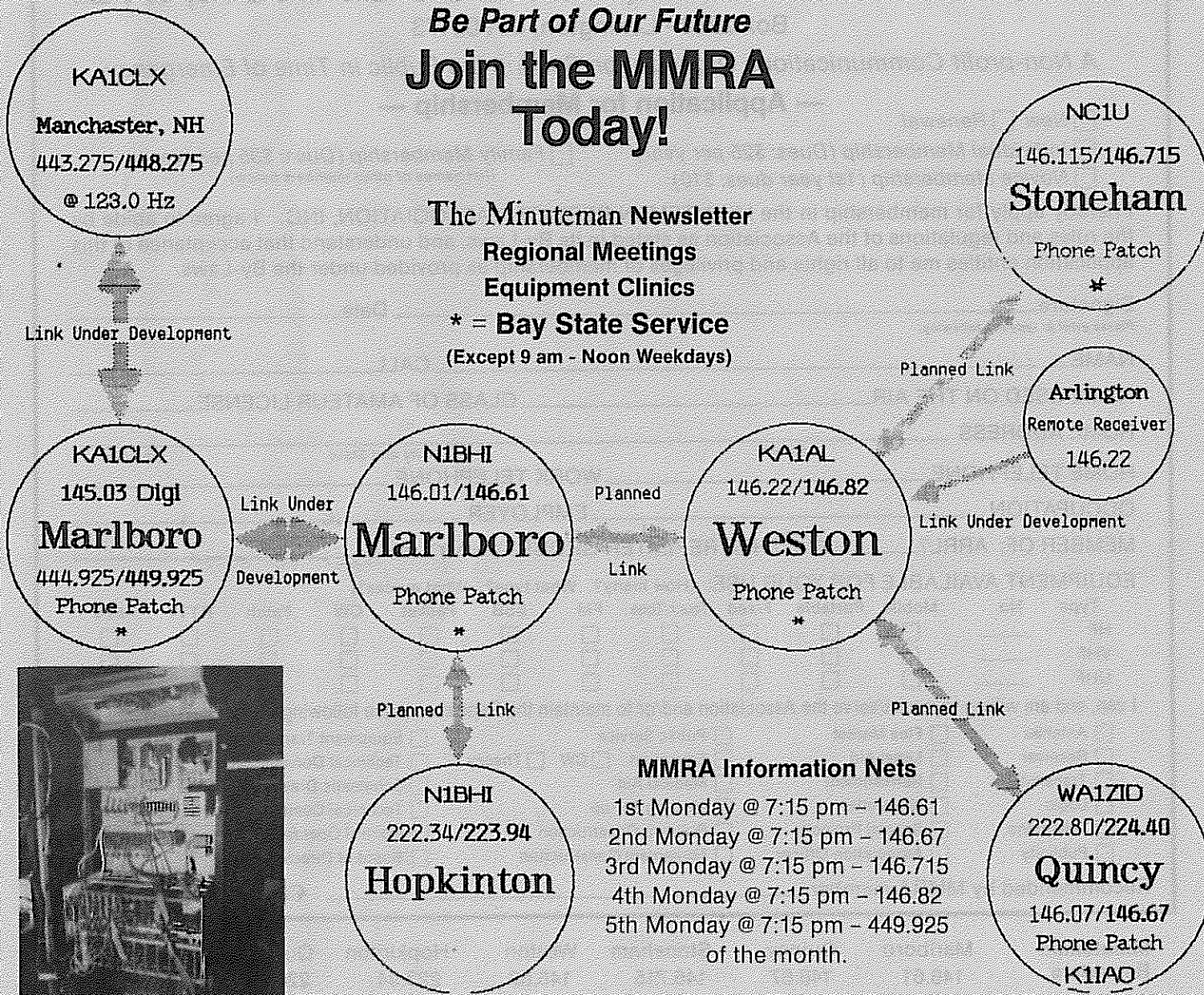


MINUTEMAN REPEATER ASSOCIATION

P. O. Box 2282
Lexington, MA 02173

Be Part of Our Future
Join the MMRA
Today!

The Minuteman Newsletter
Regional Meetings
Equipment Clinics
* = Bay State Service
(Except 9 am - Noon Weekdays)



MMRA Information Nets

1st Monday @ 7:15 pm - 146.61
2nd Monday @ 7:15 pm - 146.67
3rd Monday @ 7:15 pm - 146.715
4th Monday @ 7:15 pm - 146.82
5th Monday @ 7:15 pm - 449.925
of the month.

The MMRA Minuteman
Box 2282, Lexington, Massachusetts 02173



To:

First Class

MMRA General Membership Meetings
7:00 pm, Monday, September 10, 1990
The Champion Center (basement cafeteria)
319 Concord Road, Weston, Massachusetts
Annual Budget Meeting and discussion of
our existing and planned repeater network.

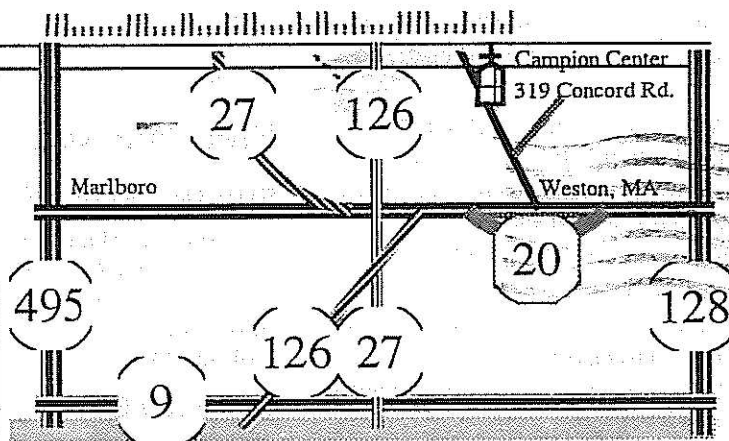
7:00 pm - Socializing & Weston repeater tour
7:30 pm - Business Meeting
8:00 pm - MMRA Repeater Network pres.
9:30 pm - 73's

It is time to renew your membership
if you haven't already done so, use the enclosed form.
Membership runs from September 1 to August 31.
Autopatch codes will change November 1.

1990 MMRA Election Results:

President:	Ralph McNall,	WB2DCL
Vice President:	Andrew Morrison,	N1BHI
Secretary:	Frank Morrison,	KB1FZ
Clerk:	Al Williams,	KA6BUV?
Treasurer:	Joe Reinhart,	AF2J
Director (2 years):	Alan Kunian,	KA1AL
Director (2 years):	Walter Ching,	N1HBR
Director (1 year):	Scott Bullock,	KA1CLX
Director (1 year):	Bill Hawley,	KA1RVM

We need a President!



Meeting Time & Location:

Approximately 2% of the membership responded to this survey of member preference. While we certainly can't say that the results represent the true preference of the membership, the results did favor the *second Monday of odd months* at the Weston Champion Center. So the schedule for the year is:

1. 7:00 pm, Monday, September 10
2. 7:00 pm, Monday, November 12
3. 7:00 pm, Monday, January 14, 1991
4. 7:00 pm, Monday, March 11, 1991
5. 7:00 pm, Monday, May 13, 1991

MARK YOUR CALENDARS!

1991 MMRA Flea Market

9:00 am, Saturday, January 12
Westborough Senior High School
Route 30 (West Main Street)
Westborough, Massachusetts

Talk In: 146.61, 223.94, and 449.925 MHz.