



The SPARC

Amateur Radio - Communicating Worldwide for A Century
Newsletter of the Boston Amateur Radio Club
Serving Hams in the Greater Boston Area
February 2012 - VOLUME 24, NUMBER 2
www.barc.org - w1bos@arrl.net



Message from the President - Linda M. Blair, NA1I

Winter Thoughts -- February has arrived. So far it has been a very mild winter without too much snow or bitter cold. While some people like a lot of cold and snow, I do not. When wild winter weather presents itself I start thinking; "hibernation." Of course, since humans are not provided with the ability hibernate it becomes only wishful thinking. Besides, at the time of this writing, the various groundhogs have not yet made their predictions of how much longer the winter will last. Will it be six more weeks of winter with spring coming in about seven weeks or will it be an early spring arriving in about seven weeks? We must await their fateful decisions.

So, what does one do while remaining inside a warm home as winter weather rages. I can't speak for anyone else but the following items speak to some of my winter activities.

- Various events in which we participate during good weather take a toll on equipment. I use the wintertime to do repairs and upgrades on my gear so that it will be in order when the warmer weather comes and our event season begins.
- I research questions that come up during the year which do not require an immediate answer. Occasionally I even find the answers to these questions.
- My basic nature is that of a dreamer, an experimenter and a builder. I've always liked designing and building things and seeing them actually work. It's a lot like finding new ways to cook the same old thing for supper. I also like building kits, although they are very limited these days. However, it seems from recent reports, Heath Co. is getting back into the kit business. It should be interesting to see where they go with this venture.
- I like to learn something new. I study different types of circuits, even if I've dealt with them for years. Sometimes new opportunities present themselves. Antennas are always fair game for expanded learning. More about this subject later. Languages are also fun to learn – at least a little bit of a language. When DXing it's nice know what country you're hearing.
- Do some planning for activities during good weather.
- Catch up on writing. During good weather all sorts of notes are scribbled on whatever piece of paper is readily available. These notes can be anything from ideas to addresses to lists. They often don't get acted upon right away. Winter is a good time to sort, evaluate, classify, and store them in a more accessible format for future reference.

These are only a few of the ways I utilize the winter "down-time." Of course there are many other things I do, that we all do out of want, habit or necessity. Decide what you want to do and then do it, or them, as the case may be.

In closing, there are a few meeting items I would like to address. Although our January "Show and Tell and Technical Discussion" meeting had a small attendance, the presentations were phenomenal. To simply list them would be an injustice. You really had to be there. Hopefully the next time "Show and Tell and Technical Discussion" is done the attendance will be much better. It will really be

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Dear All Friends of Arthur Ashley, N1NHZ, SK,

A Memorial Service will be held for Arthur at 6:30 pm on Wednesday, February 8th at the Faggus Funeral Home, 551 Mt. Auburn St, in Watertown,
<www.faggas.com/home.html>.

Arthur was a great guy and a friend to all.

I hope that you can make it and I look forward to seeing you then.

Sincerely,
Robert Freed, W1RJF

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worth the time spent.

Message from the President continued

March 1st will be the first Business Meeting of 2012. It will be held in the lower food court of the Galleria Mall in Cambridge. This will be an important meeting because, among other things, we will begin discussions about Field Day planning. We will begin at 7:00 PM. Please plan to attend and participate in the operation of your Boston Amateur Radio Club. And don't forget the February 15 meeting (Wednesday evening) at which the subject will be "Urban Antennas."

Last, but most certainly not least, is a note concerning our June meeting. As you know, June is when we hold election of officers. That process does not usually take up much time. So what do we do with the rest of the time that evening? This June 21st we will have a guest speaker. But not just any guest speaker. We will be honored to have Mr. Harold Kramer, WJ1B, who is the Chief Operating Officer (COO) of the ARRL.

73, Linda

February Meeting - "Urban Antennas."

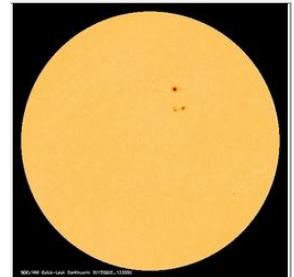
Note: Date Change February 15 meeting (Wednesday evening)

Your antenna is the only way out. Whether you aspire to contacts on HF or your little hand-held with a "rubber duck" (almost) dummy load, you need space for an antenna to do the job. What, you live in a small apartment or have a neighbor who almost breathes down your neck? There are solutions.

These problems have been met by clever hams and you can have the benefits. Attics, window sills, rain gutters, balcony rails, fine wire, trees, radiators and ingenuity – they all play a part in getting you around the world or across the county.

Solar Update -- ARRL Letter, February 2, 2012

Tad "[Strolling slowly toward the Sun](#)" Cook, K7RA, reports: Over the past reporting week -- January 26-February 1 -- the average daily sunspot number declined nearly 37 points to 62, while the average daily solar flux was off nearly 21 points to 120.4. The predicted solar flux for the near term is 120 on February 2-5, 110 on February 6-9, 150 on February 10, 155 on February 11-13, 150 on February 14-19, and then 145 on February 20-23. The forecast in mid-January for flux levels at 165 on February 17-21 are but a distant memory. Shortly after the last bulletin was released on Friday, January 27, a powerful X-class solar flare was released at 1837 UTC, but it was not Earth-directed. Look for more information on the ARRL website on Friday, February 3. For more information concerning radio propagation, visit the [ARRL Technical Information Service Propagation page](#). This week's "Tad Cookism" is brought to you by Sugarloaf's [Green Eyed Lady](#).



The Sun, as seen on Thursday, February 2, 2012 from [NASA's SOHO Extreme Ultraviolet Imaging Telescope](#). This [MDI](#) (Michelson Doppler Imager) image was taken in the continuum near the Ni I 6768 Angstrom line. The most prominent features are the sunspots. This is very much how the Sun looks in the visible range of the spectrum.

Ham Websites Galore-- ARRL Contest Update, June 8, 2011

There's an intriguing link on the Kansas Section website, <http://ksarri.org/deeplink/>, with the title "Amateur Nirvana! 500 Websites! All Ham links! Nothing but Ham Radio." It's a great resource for web information about our hobby.

Word To The Wise

"Temporary" – adjective; used by a ham radio operator in obtaining permission to erect antennas and meaning, "...until I die."

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Jiggle the Dates

Due to venue conflicts some BARC meetings in 2012 must be shifted as to date and/or place. Please take note of these; timely reminders will also be posted in the newsletter.

15 Feb	Wed	General Meeting	Brookline PD
1 Mar	Thu	Business Meeting	Cambridge Side Galleria
14 Mar	Wed	General Meeting	Brookline PD
19 Apr	Thu	General Meeting	Clay Center
17 May	Thu	General Meeting	Brookline PD
7 Jun	Thu	Business Meeting	Brookline PD
21 Jun	Thu	General Meeting	Brookline PD

ARRL HQ: Save the Date! Take a Virtual Tour of W1AW on February 12

-- ARRL Letter, February 2, 2012

Join W1AW Station Manager Joe Carcia, NJ1Q, on a virtual tour of [W1AW, the Hiram Percy Maxim Memorial Station](#), the Amateur Radio station at ARRL Headquarters in Newington, Connecticut. Carcia will lead this tour via a live webcast on Sunday, February 12 at 5 PM EST (2200 UTC). Anyone with an Internet connection will be able to watch the tour [here](#).

"We want viewers of this live Internet tour to feel as if they are actually at W1AW," Carcia explained. "If you came to W1AW in person, you would see the same things that we are going to show on the virtual tour: The three operating stations, the W1AW workshop, the transmitter racks that we use to send out our bulletins and use for the code practice transmission, the control console and [Old Betsy](#), Hiram Percy Maxim's personal spark gap transmitter."

Al Petrunti, KA1TCH, of the [New Day Group](#), will follow Carcia as he leads viewers through the station. ARRL Staff members, including Media and Public Relations Manager Allen Pitts, W1AGP, and Chief Operating Officer Harold Kramer, WJ1B, as well as local television weatherman [Geoff Fox, K1GE](#), will also be on hand at W1AW during the tour.

"Hams around the world know of W1AW, and thousands have made contacts with this impressive station -- but most hams never get to see it," Pitts said. "Thanks to Al Petrunti's group, we hope that folks enjoy seeing what's at the other end of the signals. As in all live broadcasts, you never know just what might happen. We invite you to join us." Pitts is producing the live web tour.

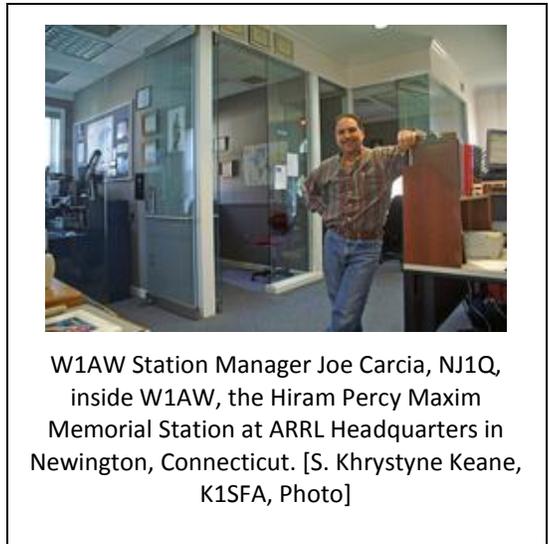
This is the second video that the New Day Group has made for the ARRL. In 2011, they created the [HR 607 video](#) that educated radio amateurs of a bill in Congress that addressed certain spectrum management issues, including the creation and maintenance of a nationwide Public Safety broadband network using current Amateur Radio spectrum.

BARC Growth

It's a rare month when we fail to add or upgrade a few members. Periodically we publish their names so that you can give them a special welcome. There may also be some upgrades and long lost members who rejoin, so greet them, too.

Bob Landrigan KB1WNG

Please welcome new BARC members and congratulate the new upgrades. Make it a point to introduce yourself when you see them at a meeting. In addition, we would like to note here all call sign changes. If you fit any of these categories, please promptly notify the Keeper of the Database, Bob Salow, WA1IDA, at: 508.650.9440 or email: <wa1ida@arrl.net>.



W1AW Station Manager Joe Carcia, NJ1Q, inside W1AW, the Hiram Percy Maxim Memorial Station at ARRL Headquarters in Newington, Connecticut. [S. Khrystyne Keane, K1SFA, Photo]

BARC 70cm Repeater Off

Our 70cm repeater is off the air, effective immediately, and until further notice. The 2M repeater on 145.230 remains operational. We are reviewing and revamping our total repeater support to the Greater Boston ham community.

It's Time for Membership Renewal

The BARC Executive Committee decided to have no increase in the dues structure for 2012. The basic full year membership fee for regular members continues at \$25.00. Junior, senior and family memberships are set accordingly. There will also be an adjustment for the latter half of the year.

If you have not yet renewed your membership for 2012, a Membership Information form is included with this issue of the newsletter. Be sure to complete the form when submitting your dues as the data is necessary for statistical purposes and to notify you with important information. To assist the Treasurer with his burden, please return it promptly with your dues.

BARC accepts PayPal. If you want to renew your membership online, just go to <www.barc.org/membership.html> or click on the membership link on our home page. You can use this to pay for membership or make donations with a credit card (even if you do not have a PayPal account), from your PayPal funds, or from your linked bank account. Our PayPal address is w1bos@arri.net.

Volunteer Examiners Needed - Hank, K1QK

BARC is in need of more Volunteer Examiners (VEs) for our exam sessions. In some cases we have only the required 3 VEs for our sessions. If any unforeseen situation arises and a VE is not able to make a session we would be forced to cancel the test.

There are some BARC members who are qualified VEs that have not been participating in the testing. We urge these VEs to attend our test sessions. If you can spare one night a month please come to a session.

We can surely use additional VEs. The test procedure for qualification is simple. Materials are available from the ARRL and the examination is an open book test. Hams with General and Amateur Extra class licenses are eligible to become VEs. If you would like to become a VE and help with the testing please contact Linda, NA1I or Jim, N1ICN.

Business Can Advertise Here

The SPARC accepts commercial advertisements. BARC encourages monthly promotion of your products and services which would be of interest to hundreds of our members and others interested in the Amateur Radio Service.

The rates for display advertising are:

- 1 col x 2 in. (business card) \$15 per issue
- 1 col x 2 in. (business card) \$75 per 6 consecutive months
- 1 col x 2 in. (business card) \$125 per 12 consecutive months
- 1 col x 4 in. (1/2 column) \$30 per issue
- 1 col x 9.5 in. (full column) \$60 per issue

Originals of ads must be presented to the Editor in MS Word or .jpg format to print 1:1. Other composition will be at extra cost. We will be glad to quote other ad sizes and durations.

Members are urged to seek prospective advertisers who are appropriate to our readers.

For additional information, contact Jim Bradley, KB1JKJ, at 978.663.7114 or <kb1jkj@arri.net>; or Bob Salow at <wa1ida@arri.net> or 508.650.9440.

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Amateur Radio Finally Jumps on the Maker Bandwagon -- Dan Romanchik, KB6NU

Over three years ago, I wrote that Amateur Radio should do more to associate itself with the Maker, or the “do it yourself” (DIY) movement <www.kb6nu.com/lets-get-on-the-maker-bandwagon/>. Well, it finally looks like it is going to do just that.

Just before the first of the year, the ARRL unveiled its DIY campaign <www.arrl.org/news/arrl-launches-new-diy-campaign>. The most visible part of the campaign is a video <www.youtube.com/arrlhq>, but there are also some other bits, including:

- A flier to be handed out to interested persons
- Buttons that say “Ask Why I DIY with Ham Radio”
- A PowerPoint presentation and speaker’s notes that you can use to give a presentation to an Amateur Radio club or a non-ham group.

These items are available from the ARRL website, <www.arrl.org/diy>

CQ also on board

CQ Magazine is also jumping on the bandwagon. They recently announced that they will run a quarterly “Maker” column, written by Matt Stultz, KB3TAN. Stultz is the founder of *HackPittsburgh*, a “hackerspace” or community workshop for makers in Pittsburgh, PA. He has been a ham since 2009 and has integrated Amateur Radio into many of *HackPittsburgh’s* activities.

Stultz’s first column, titled “We Are Makers,” will appear in the March issue of *CQ*. It provides a general introduction to the maker/hacker community for hams, as well as a description of a high-altitude balloon project that brought the two groups together in Pittsburgh.

Hams at the Maker Faire

In 2006, *Make* magazine hosted the first Maker Faire <www.makerfaire.com> in San Mateo, CA. Since then, Maker Faires have also been held in Austin, TX, New York, NY; and Detroit, MI. Maker Faires are showcases for all kinds of crazy projects that people are working on.

Hams usually have a presence at these events. This year, the theme for one of the Amateur Radio groups participating in the California Maker Faire, (the flagship event) is Arduino <www.arduino.cc>, applications in Amateur Radio. Michael, NE6RD, who is organizing this group has lined up several very cool projects. One of them is an Arduino-controlled satellite antenna system.

A project I proposed is an Arduino-controlled keyer. On the face of it, this is not a real exciting project, but my twist on this is that instead of directly keying a transmitter, I plan to have the Arduino actuate a solenoid that will press a straight key. That should make the project a little more visual.

Hams sometimes like to claim that we were the original makers and hackers. We certainly have a long tradition of DIYing. Let’s show these upstarts exactly what ham radio is capable of. Perhaps, in the process, we’ll even entice a few of them to join us.

Got a Story? Why not share It! -- Jim Bradley, KB1JKJ

We are always looking for articles for the newsletter. I have reserved this space for your articles, tips, how-to’s, or other ham related information. Send your submissions to the Editor, Jim, KB1JKJ, at <james.bradley4@comcast.net>.

Articles for the February issue must be received by 30 January.



I See the Future

- 11 Feb Cent Vermont FMA Flea (Springfield VT)
- 13 Feb BARC VE Session (**by reservation only**)
- 15 Feb BARC General Meeting
- 18 Feb Algonquin ARC Flea (Marlboro)
- 25 Feb Vermont HamCon (S Burlington VT)
- 25 Feb WMARC Flea (N Conway NH)
- 1 Mar BARC Business Meeting (**CambridgeSide**)

Galleria)

- 10 Mar Mt Tom ARA Flea (Feeding Hills)
- 10 Mar WMARC Flea (N Conway NH)
- 12 Mar BARC VE Session (**by reservation only**)
- 14 Mar BARC General Meeting
- 18 Mar CVRC Flea (Henniker NH)
- 25 Mar Framingham ARA Flea (Framingham)
- 1 Apr **MS Boston Walk (Rp)**
- 9 Apr BARC VE Session (**by reservation only**)
- 15 Apr **BAA 5K & 1 Mile Races (Rp)**
- 15 Apr MIT Flea (Cambridge)
- 19 Apr BARC General Meeting (**Clay Center**)
- 29 Apr **Run of the Charles (Rp)**
- 4-5 May NEAR Fest (Deerfield NH)
- 20 May MIT Flea (Cambridge)
- 24-26 Aug ARRL NE Convention (Boxboro)

(Rp) = BARC Repeater may be used

As you might expect, there are many more events (public service, hamfests, flea markets, etc.) taking place - some only peripheral to ham radio. For information on these, covering much of the Northeast, the "Ham - Electronic Flea Market" and the "PSLIST" lists tell the story. Of course, if you know of an event that would be of interest to the readers, please let the Editor know.

Gitmo or US? -- ARRL Contest Update, 4 January 2012

In case you were wondering, KG4 stations with two letters in their suffix are in Guantanamo Bay. KG4 stations with one or three letters in their suffix are in the continental United States.

Looking Ahead At Public Service

-- **Bob Salow, WA1IDA**

When hams engage in public service as mandated by the FCC Rules, the benefits go well beyond just following the rules. We can enjoy our hobby - have fun! We protect the health and safety of event participants. We support worthy charities. We learn to work within an organized effort. We experience the technical aspects of operating under adverse conditions. We practice communicating under emergency conditions. We can demonstrate these qualities to the communities we serve and thus promote our service for their acceptance.

Throughout the year BARC coordinates numerous public service events. Most of these are open to hams who are new to helping at such events as well as experienced hams. For 2012, we have already been tasked with several events, and more may be expected. Feel free to contact Bob Salow, WA1IDA, at 508.650.9440 or <wa1ida@arrl.net>.

- *MS Boston Walk – 1 April – (Boston – Cambridge)*
- *BAA 5K & 1 Mile Races – 15 April – (Boston)*
- *Run of the Charles – 29 April – (Charles River, Needham to Boston)*
- *MS Journey of Hope Walk – 12 May – Natick*
- *Brain Tumor Bike Rides – 20 May – (Waltham to Concord)*
- *BAA 10K Race – 24 June – (Boston)*
- *BAA Half Marathon – 7 October – (Boston)*

Other events may jump in on short notice. Among our skills is the ability to apply our technical, organizational and staffing quickly and proficiently. Join our team and join in the fun and learning.



The SPARC

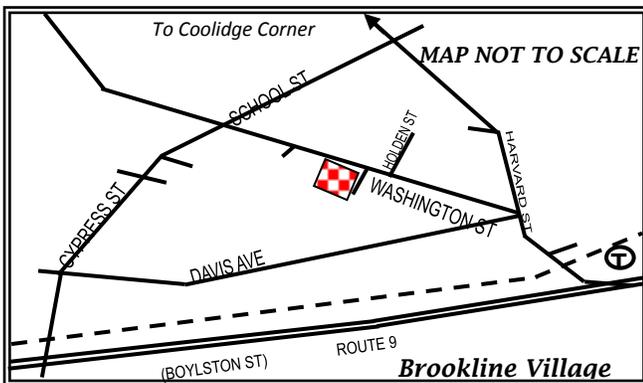
Quarterly Business Meetings -- Bob Salow, WA1IDA

We have Business meetings quarterly. Unless circumstances warrant, BARC Business meetings will be held on the first Thursdays of December, March, June, and September. The next such meeting will be on **1 March 2012** at the Cambridge Side Galleria. All members are urged to attend and participate in club affairs. This is where club functions are discussed and decided, and your help is needed to guide us.

A short opening period of each General meeting will continue to be used to bring any immediate business matters to everyone's attention.

To provide continuity of club business between meetings we also have a virtual business meeting via an email list. Any member interested in the affairs of the club can ask to be on this virtual meeting list – just give your name, call and your email address to President Linda Blair, NA1I.

Directions to the Brookline Police Headquarters, 350 Washington Street, Brookline MA





The Clay Center Observatory
Welcomes BARC members

www.claycenter.org

Public Astronomy Nights, Astronomy Day Events,
Amateur Radio Classes, Amateur Radio Youth Club,
Community and Adult Education, Weather Festival,
Science Lecture Series, Educational Outreach

20 Newton St., Brookline, near Larz Anderson Park

BARC Volunteer Exam Sessions

The Boston Amateur Radio Club holds monthly VE sessions on the second Monday of each month. Sessions are held at 7:00 pm at Brookline Police Headquarters, 350 Washington St in the Community Room across from information desk. A map is shown below

We give all exams (Technician, General, and Extra). Testing is by reservation only. Please bring the following with you:

- Your current license and a photocopy for the ARRL, if you are upgrading
- Any CSEs you are claiming, and a photocopy of them
- Valid ID (picture ID preferred)
- A pen and a calculator (if you want to)
- **\$15.00** (good for all the tests you take at that session, except for retests)

Note: Written tests can be taken sequentially at the same session for the same \$15 fee. The needed FCC forms will be provided.

To reserve a seat or for further information, contact:
Jim Clogher, N1ICN, 617.364.4658 n1icn@arrl.net
Linda Blair, NA1I, 617.500.4406 na1i@arrl.net

WORLDWIDE DISTRIBUTION



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SALEM, NH • SAN DIEGO, CA • SUNNYVALE, CA • WOODBRIDGE, VA

Repeaters: 145.230 (-) CTCSS 88.5

Simplex: 147.420

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Your Personal Ad Could Have Been Here

Are you a depressed BARC member because you have a treasure you must turn to cash? Cheer up, Bunky! *The SPARC* will run your (non-business) ad for free. Of course, a 10% donation if you sell it will be cheerfully accepted. Just send your ad to Linda Blair, NA1I, at <na1i@arrl.net>.

BARC Officers and Staff

President: Linda Blair, NA1I

617.500.4406; na1i@arrl.net

Vice President: Jim Bradley, KB1JKJ;

978.663.7114; kb1jkj@arrl.net

Secretary: Jim Bradley, KB1JKJ;

978.663.7114; kb1jkj@arrl.net

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508.650.9440; wa1ida@arrl.net

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978.663.7114; kb1jkj@arrl.net

Programs & Activities: Phil Temples, K9HI;

617.744.9780; phil@temples.com

The Boston Amateur Radio Club is a non-commercial association of persons interested in the Amateur Radio Service. The Club is organized for the promotion of interest in Amateur Radio communication and education, for the establishment of emergency communications in the event of disasters or other emergencies, for the advancement of the radio art and the public welfare, for the representation of the radio amateur in legislative and regulatory matters, and for the maintenance of collegiality and a high standard of conduct.

The Club is open to all persons interested in Amateur Radio without regard to race, color, religion, creed, national origin, gender, disability, or sexual preference. Our General and Business meeting locations are handicap accessible. Other meeting and activity locations may be handicap accessible by arrangement.

The Club is an ARRL-affiliated Special Service Club, and is a member of the Council of Eastern Massachusetts Amateur Radio Clubs (CEMARC) and the New England Spectrum Management Council (NESMC). The Club is also an associate member of the Courage HandiHams system.

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Greater Boston Net Directory

Daily 5:30 pm	Eastern Mass/Rhode Island Phone Net (NTS)	3.915
Daily 7 and 10 pm	Eastern Mass/Rhode Island CW Net (NTS)	3.658
Daily 8 pm	Eastern Mass 2M Traffic Net (NTS)	145.230 (PL 88.5)
Daily 8 pm	Slow Speed CW Net	28.160
Daily 10:00 pm	Heavy Hitters Traffic Net (NTS)	MMRA-linked repeaters: 146.610, 146.670, 146.715, 146.820, and all 222 and 440 repeaters
First Mon 8:30 pm	EMA Section ARES Net	146.610 and all MMRA links
Mon 9 pm	BARC Club Net	145.230 (PL 88.5)
Tue 8 pm	MMRA Club Net	146.610 and all MMRA links
Wed 8 pm	Wellesley Amateur Radio Society Net	147.030; 444.600 (PL 88.5)
Wed 9 pm	HHTN Swap Net	146.640
Thu 8:30 pm	AMSAT Net	146.640
Sat 9 am	Northeast SATERN Net	7.265
Sun 9:30 am	Yankee SSB Net	50.275
Sun 8 pm	Algonquin Amateur Radio Club Net	446.675 (PL 88.5)
Sun 8:30 pm	NSRA Net (with Newsline)	145.470

Repeaters: 145.230 (-) CTCSS 88.5

Simplex: 147.420



Boston Amateur Radio Club

MEMBERSHIP INFORMATION - 2012

Members: if you have already renewed for this year, please use this form to sign up a friend.

Please do not omit any items below

New

Renewal



Full name _____ Call sign _____

Name used on the air _____ Evening phone(_____) _____

Address _____ Daytime phone(_____) _____

_____ Cell phone (_____) _____

City/Town _____ State _____ ZIP (9 digits) _____

E-mail address _____

LICENSE CLASS ___ Novice ___ Technician ___ General ___ Advanced ___ Extra ___ Former ham ___ Not yet a ham	ARRL MEMBERSHIP ___ Life ___ Annual ___ Not a member	The BARC membership list is for club use only , including publishing the roster to our members only . Do you wish to restrict such limited distribution: <input type="checkbox"/> OMIT ADDRESS <input type="checkbox"/> OMIT EVENING PHONE	IMPORTANT: To save the club significant costs and effort, the club now publishes its newsletter only online. You will be notified monthly by email to link to a web page where the earliest posting will be available. Our newsletter, <i>The SPARC</i> , is the source of local and general ham radio news and official club information. It is therefore essential that for this fast and cost saving plan, that you indicate above your best email address .
	EMCOMM? 1 2 3		
Are you an ARRL certified VE? YES NO	Have you taken ICS-700? YES NO		

Membership Category	Full year 2012 if paid between Nov 11 to 31 July 12	Half year 2012 if paid between 1 Aug 12 to 31 Oct 12
REGULAR MEMBER: Not otherwise qualified below	\$25.00	\$12.50
JUNIOR MEMBER: Are you under age 18?	\$12.50	\$ 6.50
SENIOR MEMBER: Are you over age 64?	\$12.50	\$ 6.50
FAMILY MEMBER: [Regular member I live with _____] I am the family member to receive club mailings YES NO Note: Each member in the family must complete a separate form.	\$12.50	\$ 6.50

If you are able, please help support the club's activities and repeaters: ■ ■ ■ ■ ▶ \$

Total \$

Signature _____ Date _____

©BARC

<ul style="list-style-type: none"> × Welcome to the Boston Amateur Radio Club! Join in the fun of being a ham! × Your cancelled check is your receipt; membership acknowledgement is for the year shown on the newsletter address label. × Make checks payable to: BOSTON AMATEUR RADIO CLUB × Please write your call sign on your check. 	Give to any officer or mail to: BOSTON AMATEUR RADIO CLUB PO Box 15585 Boston MA 02215-0011
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------

Dues \$ _____ Addl \$ _____ Recd by _____ Date _____

DB by _____ Memb Nr _____ Date _____ Loc _____

Gratuitus est per