



The SPARC

Amateur Radio - Communicating Worldwide for A Century
Newsletter of the Boston Amateur Radio Club

“Serving Hams in the Greater Boston Area”

October 2011 - VOLUME 23, NUMBER 10

www.barc.org - w1bos@arrl.net



Message from the President - Linda M. Blair, NA1I

Life happens... Just when things seem stable they get turned upside down and all plans change. Last month you read Tom's letter of resignation. This month I want to take a moment to reflect a bit on Tom's (KB1P) Presidency. Some of the policy improvements he is responsible for will certainly help our Club long term. Among the most prominent of these are the fiscal revisions. For example The SPARC is now sent only electronically which saves the Club a substantial amount of monthly postage. The cost of producing the paper copy and mailing it had increased exponentially over the past several years and we could no longer afford to do it the "old" way. These savings are now used for more substantial member benefits, such as the "End of Summer Cookout" held on August 27th, and the necessary replacement of radio equipment. With the new VHF/UHF transceiver, we now have Echolink capability that allows more members, and others, to take part in our Monday night BARC Net on two meters.

Tom's leadership has established a new and higher standard for the Club's participation in the various public service events. He has brought knowledgeable guest speakers to the monthly meetings. These speakers have been interesting to listen to, and for those of us who have heard them, our radio knowledge has been enhanced. The SPARC has also changed. The layout is now a single, wide column that is much easier to read on a computer screen. When the Salvation Army sold their building, we could no longer hold our meetings there. Tom took the leadership role and through his efforts and contacts was able to secure the Brookline Police Headquarters Community Room for our meetings and VE sessions.

For these and Tom's other contributions to the Club we owe him our thanks and extend our appreciation. We also extend our gratitude to Marie for her indulgence and support of Tom that contributed to his being able to do the Club's work. We wish Tom and Marie all of the best in their new QTH.

Now we are in a state of transition. That transition has been made much easier for me by Tom's willingness to help in it. He has been providing me with information and materials necessary to keep moving forward. Thus the question becomes what will be the nature of that forward movement. The answer to that seems to be twofold. The first part consists of maintaining the high standards the Club is known for in public service, membership services, and overall support of the Amateur Radio hobby.

The second part is that the Club must become "younger." More emphasis needs to be centered on attracting younger members. But to simply gain a greater number of younger members is not sufficient. They must also be encouraged to become part of the Club's leadership, and to learn the mechanisms of the operation of the Club and its many facets. After all, they are the future of the Club and of Amateur Radio in general. To be sure, we are certainly not the only Club experiencing the "aging" problem. It is a systemic problem. The cellphone has not by any means helped our cause, but neither does it signal the end of Amateur Radio for the two are very different modes with very different possibilities.

Those possibilities become vividly enhanced with the advancement of knowledge about the two modes. Contrary to perception, they are not interchangeable. The cellphone may be easier to handle, but then where is the challenge that excites the human spirit? Such challenges are particularly applicable to the younger generations and must be the primary selling point for Amateur Radio. To take the Club in this direction will be the goal of my tenure as President.

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BARC October Meeting To Make the Club Better

Our speaker for this month is Bo Budinger, WA1QYM, an experienced ham club founder and manager. He will present "Growing Your Club" to help us gain insight into how to make the club more successful and how to recruit new members. One of the major keys to growing a club is to meet the needs of the local ham radio community. Another key is to recognize that hams are social individuals and not always focused on the technical aspect of our hobby.

Bo had been president of the Police Amateur Radio Club (PART) in Westford for five years. In this period his club membership grew from 15 to 75 members. He is presently the Affiliated Club Coordinator (ACC) for the ARRL Eastern Massachusetts Section.

Our next meeting is Thursday, 20 October, at 7:00 pm. All are welcome to join us at the Brookline Police Station, 350 Washington St. A map is later in this newsletter.

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, Jim, N1ICN or Hank, K1QK.

Get Ready for the 6th Annual ARRL On-Line Auction



The Sixth Annual [ARRL On-Line Auction](#) will be open for preview at 10 AM (EDT) on Friday, October 14, and will open for bidding at 10 AM (EDT) on Wednesday, October 19. According to Advertising Manager and ARRL On-Line Auction Coordinator Deb Jahnke, K1DAJ, there is a large assortment of ARRL Product Review items, including a Yaesu FT-DX5000D HF and 6 meter transceiver, an Ameritron ALS-1300 HF power amplifier, a Ten-Tec 599AT Eagle HF and 6 meter transceiver, a Kenwood TS-590S HF and 6 meter transceiver and an Elecraft P3 panadapter, as well as a wide assortment of books, including *ARRL Handbooks* from the 1920s and 1930s. "If you are interested in some great bargains and some great fun, you really need to check this out," she said. Jahnke also encouraged visitors to visit the site to pre-register and scope out those "must-have" items. The 2011 ARRL On-Line Auction runs through 11:59 PM (EDT) October 26.

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US Amateurs Now 700,000 Strong! - The ARRL E Letter, October 13, 2011

As the third quarter of 2011 came to a close, ARRL VEC Manager Maria Somma, AB1FM, began calculating the number of licensed Amateur Radio operators in the US, as well as the number of new licensees. “At the end of September, I saw that the number of hams in the US was high,” she said. “When I started comparing that number with other years, I found that it was an all-time high.” For the first time, there are more than 700,000 radio amateurs in the US.

“When looking at the three current license classes -- Technician, General and Amateur Extra -- these numbers are impressive,” Somma explained. “The number of Technicians peaked in March 2011 at 342,572, while in September 2011, we saw both Generals and Extras peak at 159,861 and 125,661, respectively. As new Technicians earn their Amateur Radio licenses, and current Technician licensees move on to General and Generals upgrade to Extra, this can cause up-and-down fluctuations for these totals.”

Somma said these high numbers mean that hams are upgrading and renewing in larger numbers and staying interested in hobby: “These are compelling statistics and I am thrilled to see the highest number of amateur radio licensees ever! When I began working at the ARRL back in the mid 1980s, there were approximately 450,000 amateurs in the US. Our VEC program conducted an average of 55 sessions a week. Today, we administer approximately 150 exam sessions each week, and our total number of licensees across all three license classes continues to grow each year.”

In the past 40 years, the number of Amateur Radio operators in the US has grown at a remarkable rate:

- December 1971: 285,000
- December 1981: 433,000
- December 1991: 494,000
- December 2001: 683,000
- September 2011: 700,221

Source: 1971, 1981, 1991: print editions of [Radio Amateur Callbook](#). 2001, 2011: www.ah0a.org/FCC/Graphs.html. **Please note:** While the number of licensees has grown considerably over the years, we realize that these numbers include some who are no longer active in Amateur Radio. A recent survey of ARRL members, however, indicates that more than 80 percent of those responding are active.

“As technology changes and advances, it is especially vital to keep up or be at the forefront,” Somma said. “I believe that Amateur Radio has done just that! The measurable results are our indisputable license numbers. It amazes me after all these years how important and relevant Amateur Radio remains. I am proud to be one of the 700,221 licensees and to see this historic and important milestone.”

FCC LICENSEES BY LICENSE CLASS							
Year	Ending Month	Extra	Advanced	General	Tech*	Novice	Total
2011	Sep	125,661	58,224	159,861	341,658	14,817	700,221
2010	Dec	122,951	59,387	155,781	342,191	15,731	696,041
2009	Dec	119,403	60,795	150,970	334,245	17,084	682,497
2008	Dec	115,625	62,104	144,832	322,660	18,343	663,564
2007	Dec	112,022	65,368	142,680	315,314	20,458	655,842
2006	Dec	108,223	69,915	131,224	323,073	23,633	656,068
2005	Dec	107,440	74,221	135,067	319,125	26,747	662,600
2004	Dec	106,090	77,948	138,292	319,742	29,765	671,837
2003	Dec	104,894	82,034	141,498	322,821	32,812	684,059
2002	Dec	103,257	84,326	139,848	321,805	36,072	685,308
2001	Dec	97,977	86,545	138,625	319,735	40,155	683,037
2000	Dec	93,807	88,783	134,144	319,874	45,632	682,240
1999	Dec	75,392	103,471	110,386	335,768	52,375	677,392

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It's Back to School Time... for Ham Radio, Too! -- Dan Romanchik, KB6NU

As I write this, it's about 85 degrees, and I'm sitting on the patio of a cottage overlooking Elk Lake in northern Michigan. This idyllic spot is about as far away from school as you can get. And yet, in less than a month, kids will be back in school, and if kids are going to be back in school, why not ham radio operators?

The fall is a good time to begin teaching a new group of Technicians. I favor the "Tech in a Day" or "Ham Cram" type of class. This type of class focuses on teaching students the answers to questions on the test rather than the material itself.

There's a lot of controversy about this, and many decry this method of teaching, but I think the best way to learn about ham radio is by actually doing it, and you can't do if you don't have a license. Besides, how much more instruction will students actually get in a more traditional eight-week or ten-week course, maybe 16 hours? Will those 16 hours make that much of a difference?

For the sake of argument, let's say that you've decided to offer a one-day Tech class. Now what? Well, the first thing you have to do is to find a place to teach it. Possible sites include your local public library, a town hall, a community college, perhaps even your church.

Now that you have the place, you need to find some students. Your local emergency-management group (CERT) would be a good place to start. Also, make sure a notice gets published in your club's newsletter. Chances are most of the subscribers already have licenses, but they may have friends or relatives who would be interested. Also, make sure the class gets listed in the upcoming events section of local newspapers or magazines.

Once people start signing up, you should suggest that they either purchase the ARRL license manual or download my free study guide (www.kb6nu.com/tech-manual). Because I use my study guide when teaching the class, I always advise them to get a copy, but if you'll be using other materials, then your advice may differ.

I counsel the students to read through my study guide a few times and take some online practice tests before coming to class. That will make them familiar with the material, especially areas they may be weak in or have questions about. By bringing those questions to class, we can address those areas in a little more depth, which will, hopefully, give them the help they need to pass the test.

The class itself is six hours long, running from 9am to 3pm, at which time we give them the test. This is not a lot of time for the amount of material I have to cover, so I move along at a pretty brisk pace. I concentrate on giving them the answers, but with enough context to that it all makes sense.

OK, let's say your class was wildly successful, and you now have a group of newly-minted Techs. What do you do now?

Well, you might consider offering some short sessions on what ham radio operators do – sort of a Ham Radio 101. The topics could include how to choose your first radio, the basics of FM repeater and net operation, and building your first antenna (say a 2m ground plane, or a J-Pole). They'll be more enthusiastic about these classes now that they actually have a license.

It might also be a good idea to schedule a General Class license course for some time shortly after the Tech class. This will encourage them to upgrade while they are enthusiastic about the hobby.

I hope that this has encouraged you to offer some ham radio courses of your own. If you have any questions, feel free to email me at cwgeek@kb6nu.com or phone me at 734.930.6564. Good luck, and let me know how your classes turn out.

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

We are always looking for articles for the newsletter. So 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>](mailto:james.bradley4@comcast.net).

Articles for the November issue need to be received by 31 October.

Seasonal Operating Tip

Winter propagation can be quite different than in the summer, and as the northern hemisphere enters the winter months, the southern hemisphere contesters are entering summer. Don't forget to listen for them in ways you hope they listen for you in our summer!

Repeaters: 145.230 (-) CTCSS 88.5

Simplex: 147.420

443.550 (+) CTCSS 110.9

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Field Classes & Exams for Introduction to Emergency Communication Are Ready to Go

-- *ARES E-Letter, August 17, 2011*

The ARRL has re-launched the infrastructure for the new Emergency Communications (EC-001) training program. Field classes and exams for the new course have been developed and are available from the ARRL Continuing Education Program office. You can also review requirements for registering as a Field Examiner and find the information you'll need to perform those responsibilities, including instructions for ordering exams, at:

www.arrl.org/emergency-communications-field-examiners .

The printed course transcript is now available in the ARRL store:

www.arrl.org/shop/The-ARRL-Introduction-to-Emergency-Communication-Course/

You can find authorized ARRL Field Instructors and Field Examiners by conducting a search of the databases at:

www.arrl.org/find-a-fi and www.arrl.org/find-a-fe.

ARRL has also launched a new searchable database for Field Instructors and Field Examiners to register their classes and/or exam sessions at: www.arrl.org/find-an-emcomm-class-exam.

Links to FEMA Training Courses

FEMA has a wealth of free training courses of critical interest to hams interested in being prepared for emergency operations.

Here are links to FEMA courses of:

[ICS-100.b Introduction to Incident Command System](#)

[ICS-200.b ICS for Single Incidents and Initial Action Incidents](#)

[IS-700 NIMS: An Introduction](#)

[IS-800 National Response Framework](#)

[IS-240.a Leadership & Influence](#)

[IS-241.a Decision Making & Problem Solving](#)

[IS-250 Emergency Support Function 15 \(ESF-15\) External Affairs](#)

[IS-1 Emergency Manager, An Orientation to the Position](#)

[IS-288 The Role of Voluntary Agencies in Emergency Management](#)

[IS-244.a Developing and Managing Volunteers](#)

[IS-120.a An Introduction to Exercises](#)

[IS-130 Exercise Evaluation and Improvement Planning](#)

[IS-139 Exercise Design](#)

Many of these courses are requirements for ARES operators registering with local emergency management/public safety agencies, and increasing numbers of ARES programs across the country. Along with the basic ARRL EmComm course, they form the foundation for an educated, certified, trained corps of ARES volunteers prepared to serve as assets and not liabilities to their communities during disaster situations.

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

There's an intriguing link on the Kansas Section website, <http://ksarrl.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.

Catch the Space Station With Your Smartphone -- AMSAT Bulletin ANS-191

You can turn your iPhone or Android smartphone into an ISS visible pass predictor using <http://simpleflybys.com>. Web based predictions are also available using the Simple Satellite Tracker on the [Spaceweather](http://spaceweather.com/flybys) web site, <http://spaceweather.com/flybys>.

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How Much Is Your Volunteering Time Worth? -- Wayne Barringer, KB6UJW

Recently I attended a meeting where an agency volunteer coordinator was somewhat surprised at the number of communications volunteer positions. The main focus was staffing the EOC, without a lot of thought that if radio room positions within the EOC were being staffed, they must be communicating with radio operators in the field, unless all positions were simply conducting EOC-to-EOC communications (highly unlikely).

One premise of this is for volunteers to collect and then to report to their agency or organization:

- The number of volunteers participating
- How many hours were donated
- How many miles were driven
- How much money was expended (if any) by volunteers in direct support of the incident, event or operation.

Volunteer hours donated have a dollar value. Donated time is valuable to most jurisdictions and agencies because it clearly demonstrates how much time is donated to it. How many miles are driven (donated) each year in your local community? In most communities, that is not known because miles driven are not documented or calculated. That's unfortunate. If in the course of your ham support of public service you do spend hours and miles, you should document these and report the data to the ham coordinator of the event.

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.

Joe Chapman	NV1W	Upgrade to Extra
Mark Dymek	KB1WAG	
Shaun McKenna		
Bob Weinberg		

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 .

A New Ham Radio Auction Site -- Steve Miller, K2HQ

I have launched a new site for the auctioning of ham radio equipment. Give it a try at www.hamradiohq.com. The more users, the better the selections and bargains.

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@arrl.net>; or Bob Salow at <wa1ida@arrl.net> or 508.650.9440.

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I See the Future

- 14,15 Oct NEAR Fest (Deerfield NH)
- 16 Oct MIT Flea (Cambridge)
- 20 Oct BARC General Meeting
- 4 Nov HCRA Auction (Feeding Hills)
- 5 Nov IRS Flea (Londonderry NH)
- 12 Nov Falmouth ARA Flea (Bourne)
- 14 Nov BARC VE Session (by reservation)
- 3 Dec SKYWARN Recognition Day at Blue Hill Observatory

(Rp) = BARC Repeater(s) 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 New England and some of New York, 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.

E-Book Format Conversion

-- **ARRL Contest Update, June 8, 2011**

Do you have a Kindle and want to read e-books in other formats such as .PDF? Several freeware programs such as MobiPocket and Calibre, will convert most e-book formats to work well in the Kindle. Many free e-books are available on the Web, legally, from The Gutenberg Project and others and Amazon also provides many free books to Kindle users. Having an engineering dictionary on the Kindle helpful. We live in a sea of jargon with more being generated every day. The online jargon dictionary. For example, you'll be able to make use of the term "bogosity."

Print Out Your License

-- **ARRL Contest Update, June 8, 2011**

Try this online certificate service, www.ae7q.net/generate.php, if you'd like to print out a spiffy version of your hard-won Amateur Radio license. It's not official, but good enough to show your family certainly! Or to show all those other hams in your Zip Code.

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 are already tasked with events, and more are expected. Feel free to contact Bob Salow, WA1IDA, at 508.650.9440 or <wa1ida@arrl.net>.

➤ **SKYWARN Recognition Day – 3 December** – (Blue Hill Observatory, Milton)

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.



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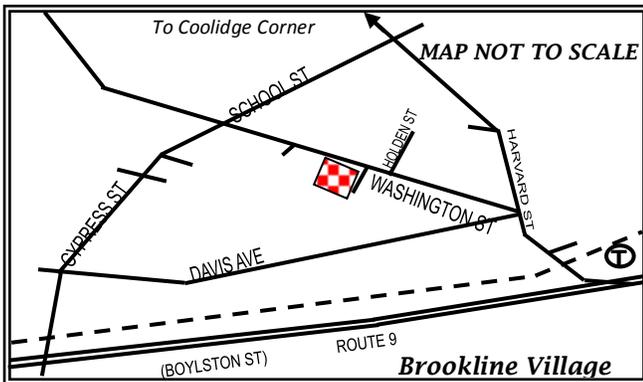
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Vanity Call Sign Fee Goes Up -- ARRL Bulletin 019, August 11, 2011

The FCC has announced that the cost of an Amateur Radio vanity call sign has increased 90 cents, from \$13.30 to \$14.20, effective September 9, 2011.

The fees that are collected from Vanity call signs are used to offset the cost of monitoring and researching new call sign requests to prevent the issuance of duplicate call signs." The vanity call sign regulatory fee is payable not only when applying for a new vanity call sign, but also upon renewing a vanity call sign for a new term.

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.

For further information, contact:

Jim Clogher, N1ICN, 617.364.4658 n1icn@arrrl.net
Linda Blair, NA1I, 617.500.4406 na1i@arrrl.net

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

We are always looking for articles for the newsletter. So 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 November issue need to be received by 28 October.

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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

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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

443.550 (+) CTCSS 110.9