



# The *SPARC*

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

Volume XXII, Number 01; January 2010

<http://www.barc.org>

[w1bos@arrl.net](mailto:w1bos@arrl.net)



## Address to the Membership

Tom Bertolino, KB1P, President

The holidays are over and it is the start of a New Year and a New Decade. Where has the time gone? It seems, as I get older the years get shorter. There never is enough time to do things anymore. That is why the club's focus for this month is on finding a location to hold our club's meetings and VE testing. As you know this month's meeting and VE test have been cancelled.

In a perfect world our new meeting place would be centrally located and easy to drive to, offer plenty of free parking, be close to the "T" and handy-capped acceptable, be able to seat 30 or more members, have a projector screen, be available on the first Thursday of every month for General Meetings and the second Monday of each month for VE testing, be free, and be available for our Business Meetings. But, this is not a perfect world so we might have to forgo one or more of the items on our wish list. We might have to change the week night we hold meetings and tests. We might have to hold our meeting during the day on the weekend. We might have to change the frequency of our meetings. We might have to pay a fee for a meeting place. Having said all this we will try to find a location that meets all our needs. While this may not be possible we will try.

Some of our members have made recommendations on locations and the Salvation Army has been looking for a site that will work for the club and them. We'll take all the recommendations and evaluate them, and in some cases we'll schedule a site visit. When we are done with the evaluations, we'll present our findings at this month's special Business meeting. Hopefully we will have a place to meet next month which meets all or most of our requirements.

On a less serious note, the club's Holiday Party was a success. We had about 25 members at the party. Members had a chance to catch-up with old friend and meet new friends. During the party the BARC's Ham of the Year for 2009 was awarded to Hank, K1QK.

Congratulations Hank

## January General Meeting Omitted

The BARC General meeting for January 2010 has been canceled due to inadequate facilities available. As soon as satisfactory arrangements are made for future meetings, notice will be posted on our website, [www.barc.org](http://www.barc.org), on the Monday night net, and in the next newsletter.

## I See the Future

- |              |  |
|--------------|--|
| 11 Jan       | BARC VE Session ( <b>Canceled</b> )  |
| 16 Jan       | Special Business Meeting ( <b>Bare Cove Fire Museum</b> )                  |
| 17 Jan       | BARC Breakfast   |
| 21 Jan       | BARC General Meeting (No Meeting this Month as we look for a new Location) |
| 13 Feb       | AARC Flea (Marlboro)   |
| 18 Feb       | General Meeting (Location TBD)   |
| 21 Feb       | BARC Breakfast   |
| 27 Feb       | HAM-CON (Colchester VT)  |
| 4 Mar        | Business Meeting (Location TBD)  |
| 6 Mar        | MtARA Flea (Feeding Hills)   |
| 21 Mar       | BARC Breakfast   |
| 11 Apr       | MS Boston Walk ( <b>Rp</b> )   |
| 11 Apr       | FARA Flea (Framingham)   |
| 18 Apr       | BAA Boston 5K & 1 Mile Races   |
| 18 Apr       | BARC Breakfast   |
| 18 Apr       | MIT Flea (Cambridge)   |
| 19 Apr       | Boston Marathon  |
| 25 Apr       | Run of the Charles ( <b>Rp</b> )   |
| 30 Apr-1 May | NEAR-Fest (Deerfield NH)   |
| 16 May       | BARC Breakfast   |
| 22 May       | MS Journey of Hope Walk ( <b>Rp</b> )                                      |
| 16 May       | MIT Flea (Cambridge)   |
| 27-29 Aug    | NE Div Convention (Boxboro)  |

(Rp) = 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.

## BARC VE Sessions Suspended

Effective immediately, BARC Volunteer Examiner sessions are suspended pending the location of an alternate venue. When suitable space is found to hold the sessions, notice will be distributed on-air and online.

When the VE sessions resume, applicants will be required to request an advance registration. Walk-ins can no longer be accommodated. To register or for information, contact:

Jim Clogher, N1ICN, 617.364.4658 [n1icn@arrl.net](mailto:n1icn@arrl.net)  
Tom Bertolino, KB1P, 781.608.6186 [kb1p@arrl.net](mailto:kb1p@arrl.net)

## BARC Officers and Staff

President: Tom Bertolino, KB1P; 781-608-6186; kb1p@arrl.net

Vice President: Mark Duff, KB1EKN;  
781.749.7664; emgmt@comcast.net

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Newsletter Editor: Jim Bradley, KB1JKJ

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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 a participant in Partnerships Advancing Technical Hobbies Which Attract Youth to Science (PATHWAYS). The Club is also an associate member of the Courage Handi-Hams system.

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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 Tom Bertolino, KB1P, at [kb1p@arrl.net](mailto:kb1p@arrl.net).

## 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.

Robert Freed

W1RJF (new call)

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: [walida@arrl.net](mailto:walida@arrl.net).

## Small Dues Increase for 2010

At the September BARC Business meeting it was decided to make a small increase in the dues structure because of current and anticipated economic realities. The basic full year membership fee for regular members will be \$25.00. Junior, senior and family memberships are set accordingly. There is also an adjustment for the latter half of the year.

If you have not renewed your membership for 2010, a Membership Information form is included with this issue of the newsletter. To assist the Treasurer with his burden, please return it promptly with your check.

## It's Membership Renewal Time

-- Bob Salow, WA1IDA



The BARC fiscal year is the calendar year, so our membership renewal process begins again. If you have not yet renewed for 2010, the Membership Information form for 2010 is included with this issue of the newsletter. We need your support to help you get the most out of ham radio. Our club is one of the strongest and best around; your help is needed to keep it growing.

Please help the Treasurer by renewing promptly. Also, please consider receiving the newsletter electronically to save BARC significant money on postage. You can complete the form online (at our website) and use PayPal or your mailed check. Or you can fill out the enclosed hard copy and mail it with your check to the address shown, or bring it to a club meeting. Of course, we would love to see you at the meeting(s).

## “It’s Time of the Year Again”

It may be difficult to believe with the temperature 20 degrees outside, but the Boston Marathon is just around the corner. Ham Radio Volunteer registration is now open.

Please be sure to start the registration process from our website.

<http://www.mmra.org/marc>

Please do not go directly to the BAA site as was directed by an email from BAA a little earlier today. Their process misses critical information that we need to put you in the right place.

If you've already registered with them, you can still go to our website and complete our form as well - this should only take 1 or 2 minutes.

73,  
Bob DeMattia,  
K1IW

## Framingham Flea Market

The Framingham Flea Market will be held on Sunday, April 11, 2010 at the Keefe Tech School, this is a new location. The hours will be from 9:00 am to 1:00 pm, the cost for Buyers is \$5 – Kids under 12 free with adult!

Ham Radio, Computer and Electronics  
Door Prizes - Grand Prize: NEW 2M HT!

Directions: KEEFE TECH SCHOOL ([keefetech.org](http://keefetech.org))  
750 WINTER ST Framingham, MA

Take the Framingham Centre/State College exit off Route 9, then South on Main Street (0.2 mile) to the circle with the statue. Turn right on Maple Street (first exit from circle). Follow Maple Street (0.7 mile) to the end and turn left onto Winter Street. The School parking lot is 1.2 miles on the left. Keefe is also accessible from Route 135. Take the bridge over the R R tracks at Winter Street. Cross Fountain Street and continue on Winter Street. The School Parking lot is on the right (0.1 mile).

Talk-in 147.15/448.025 PL 88.5

For more info, check our web site: [www.fara.org/flea](http://www.fara.org/flea)

## Videos on How to Install PL-259

The most common connector for mating the radio to the antenna cable is the PL-259 type. Short videos are available showing how to install a PL-259 on coax cable.

For RG-8X coax, go to:

❖ [www.youtube.com/watch?v=pzxxjzma-ie](http://www.youtube.com/watch?v=pzxxjzma-ie)

For RG-213 coax, go to:

❖ [www.youtube.com/watch?v=n1naba6ymoi](http://www.youtube.com/watch?v=n1naba6ymoi)

Don't forget to change the batteries in your smoke detectors and other battery-operated devices.

## Special BARC Business Meeting

A Special BARC Business Meeting will be held at the Bare Cove Fire Museum on Saturday January 16, 9:00 AM,

Bare Cove Fire Museum, 19 Fort Hill Street, Hingham MA 02043  
Tel. 781-749-0028

Public Transportation: Greenbush Commuter Rail Train #1071  
Leave South Station at 8:05 AM

Arrive West Hingham Station at 8:37 AM

Regular Fare \$5.25, Senior/Disabled Fare \$2.60

It is approximately 15 minute walk to the Museum

Tom KB1P will be at the West Hingham Station on the 16th at about 0820. He will wait for the 0837 train to arrive to pick-up anyone who needs a ride.

Please visit their Web site for additional information about the Museum; it is a very interesting place.

<http://barecovefiremuseum.org/>

## K1QK Named 2009 BARC Ham of the Year



Hank Buccigross, K1QK, was named BARC Ham of the Year for 2009 by membership vote. The presentation of a plaque was made at the BARC Holiday Party on 10 December. The award was made in the presence of all attending prior recipients of this honor.

In the years Hank has been a member of the club, he has risen to the occasion when help was needed, including the presidency, and he then did any task with excellence. In this past year, Hank has attended to much of the behind the scene needs of the club, resulting in a smoother running of our activities. Hearty congratulations and our thanks to Hank.

## Got a Question? We May Have an Answer



A new (occasional) entry in this newsletter will be a Q&A for you. We will rely on you to ask the questions and we believe another reader will come to your aid with an answer.

When you pose a question, include a means for a direct answer. If you wish to remain anonymous, any answer will appear on these pages. Anyone with a valid answer is asked to provide the Editor with a copy of the answer, including the question code. Send your questions and answers to the Editor, KB1JKJ, at [james.bradle4@comcast.net](mailto:james.bradle4@comcast.net).

## Got a Story? Why not share It!

We are always looking for articles for the newsletter. Got an article or story you want to share. Send your submissions to the Editor, KB1JKJ, at [james.bradle4@comcast.net](mailto:james.bradle4@comcast.net).

## BARC-Net Net Control Ops Needed



Joe, W1JF, has been doing a spectacular job as Net Control for our Monday evening net. But sometimes even Joe gets hit with work (ugh) interfering with his ham radio fun. Worse, he doesn't find out about the imposition until the afternoon – only hours

before the net. We need a short notice Net Control from among those who usually check into the net.

You may be reluctant to jump into unfamiliar territory, but it's not a burdensome job. Pencil, paper and the steps to follow are all you need. The opening and closing statements are below. Beyond that, just keep track of those who check in, review the week ahead as shown in the newsletter and go around the group asking for comments or announcements. Remember – they are your friends and they would make the same mistakes you might make. They wouldn't dare criticize your errors.

Joe rarely misses a net, but you can take up the slack and your fellow hams will appreciate it.

## BARC Net Preamble

Is there any further business for the repeater before we begin the Boston Amateur Radio Club Net? This is <<YOUR CALL>>.

Calling the Boston Amateur Radio Club Net. This is <<YOUR CALL>>, my name is <<YOUR NAME>> and I am located in <<YOUR TOWN>>. This net meets each Monday evening at 9 pm Eastern Time on the 145.230 Boston repeater, PL 88.5. This net is an informal round table discussion concerning matters of interest to the members of the Boston Amateur Radio Club and the Boston Amateur Radio community in general.

When checking into the net, please say, "this is" and drop your carrier to check on doubling. Then give your call sign, name and location. All amateurs are welcome to join the net. Any checkins for the Boston Amateur Radio Club Net please call now.

[Compile the list of the checkins and proceed with the net.]

Is there any further business for the net before I close?

Hearing nothing, this is <<YOUR CALL>> closing tonight's session of the Boston Amateur Radio Club Net. I would like to thank everyone who participated in the net and those who stood by while I ran the net. The Boston Amateur Radio Club Net will return next Monday evening at 9 pm Eastern Time. This is <<YOUR CALL>> returning the repeater to general amateur use. 73.

## Winter Projects

-- Jim Bradley, KB1JKJ

During the winter when we don't have many public service events, we have time to look at what worked and what did not work at last year's public service events. As I prepare of next year's events, here is a winter project that worked for me this past year.

How do I quickly set up a 2 meter antenna? The system I came up with starts with antenna mount. This antenna mount is made using a 1" to 1/2" Schedule 40 PVC adapter, a Feed-thru adapter with PL259 connector on both ends and a 5/8" flat washer.



I use the 5 foot length of pipe and end caps to store and transport the antenna, a Comet SB14. To hold the end caps in place during transportation of the antenna I use a 1/4 -inch pin. Once

I get to the event I can use 5 foot length of pipe as the mast. By adding a 1-inch coupler to the 5 foot length of pipe allows the antenna mount to be inserted into the other end of the coupler. This can then be tie wrapped to a fence or railing to support the antenna.



Using these basic parts as a starting point you can expand your antenna system by adding a couple of other items.

The first is a table tripod stand for the antenna. This is made from a 4-inch long piece of 1-1/4-inch of PVC pipe, three 45 degree 1/2-inch angles, three 1 foot pieces of 1/2-inch PVC pipe, a 1-1/4-inch coupling and a 1-1/4 x 1-inch adapter. After assembling the tripod you need to drill a 3/4-inch hole to allow the antenna cable ends to pass through the center of the tripod.

For outside use I purchased an On Stage Tripod Speaker Stand on eBay (You can get two stands with a storage bag for about \$70.00). The 1-3/8-inch shaft on these stands is the same as the inner diameter of a piece of 1-1/4-inch PCV pipe. To adapt these stands for my use I pressed a 4-inch long piece 1-1/4-inch PCV pipe onto the 1-3/8-inch shaft. To this I added a 1-1/4-inch coupling and a 1-1/4 x 1-inch adapter. This allows either the antenna mount or the 1-inch pipe to be installed to the end of the shaft.



I looking for ways expand on these building blocks, E-mail your ideas to [kb1jkj@arrl.net](mailto:kb1jkj@arrl.net). What's your winter project? Want to share it with us? E-mail me you ideas.

## Newsletters Need Folding... Help!

When this newsletter has an insert it takes a little more effort to publish. What do we do? We have a party! The February issue will contain the Membership Information form for 2010, so we will party and get the job done easily and quickly. Actually, the process is to eat, fold, staple, label and stamp.

Here's the deal – (usually) on the Wednesday after the first Thursday of the month, we meet at the CambridgeSide Galleria in the Food Court lower level. If you want to eat, get there at 1800; if you don't, you can arrive at 1830. If you can help, send an email to Tom at [kb1p@arrl.net](mailto:kb1p@arrl.net) and you will then be notified as the date approaches.



**The Clay Center Observatory  
welcomes BARC members**

[www.claycenter.org](http://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*

## Business Can Advertise Here

The SPARC accepts commercial advertisements. We encourage promotion of products and services which would be of interest to our members. Members are urged to seek prospective advertisers who are appropriate to our readers.

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 Tom Bertolino, KB1P, at 781.608.6186 or [kb1p@arrl.net](mailto:kb1p@arrl.net); or Bob Salow at [walida@arrl.net](mailto:walida@arrl.net) or 508.650.9440..

## What Should Every Ham Know How to Do

-- Dan Romanchik, KB6NU

On the HamRadioHelpGroup mailing list, there was recently a discussion about using modulated CW on 2M. One fellow pointed out that MFJ sold a unit that would do this. When I pointed out that this box cost \$100 and that they could do exactly the same thing with the \$18 PicoKeyer from [hamgadgets.com](http://hamgadgets.com), I got some flack that the PicoKeyer was a kit, and that some people might not be able to build it.

I pointed out that a couple of years ago our club held a construction night, and that several people who had never soldered before successfully completed the kit. I also pointed out that even if the ham didn't have the proper tools, he or she could purchase a soldering iron, needle-nose pliers, and diagonal cutters, in addition to the kit, for less than \$100.

I don't know if that convinced him, but it got me thinking about what a ham should be able to do. This is the list I've come up with so far:

- ★ **Solder.** Every ham should know how to solder a connection, and by extension, build small kits and cables. Over the course of one's ham career, this skill will save you a ton of time and money.
- ★ **Build a dipole antenna.** The dipole is the simplest and most versatile antenna. Knowing how to build one and use one is an essential skill.
- ★ **Check into a net.** Net operation is one of the most basic operating skills.
- ★ **Use a multimeter.** Measure voltage, current, and resistance and know what those measurements mean. This is the most basic skill used in troubleshooting, and at some point or another, you're going to have to troubleshoot something.

This list does, of course, imply that a ham is physically capable of doing them. I would not expect hams that are physically disabled to be able to do everything on this list.

After I posted this to my blog [www.kb6nu.com](http://www.kb6nu.com), I got several good responses. Jeff said, "I believe hams should know how to install RF connectors, particularly the three most used in our hobby, the PL-259, the BNC, and the N connector." Blair, WB3AWI, added, "Another thing that hams should know how to do is to measure the SWR of an antenna."

So, I ask you, - What do you think every ham should know how to do? Feel free to post a comment to my blog or email me at [cwgeek@kb6nu.com](mailto:cwgeek@kb6nu.com).

When not analyzing the abilities of amateurs, KB6NU pounds brass on nearly all the HF bands and teaches various ham radio classes in Ann Arbor, MI. You can read his other musings on our fine hobby at [www.kb6nu.com](http://www.kb6nu.com).

## 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 2010, we have already been tasked with several events, and more are expected. Feel free to contact Tom Bertolino, KB1P, at 781.608.6186 or [kb1p@arrl.net](mailto:kb1p@arrl.net).

- *Multiple Sclerosis Boston Walk* – **11 April 2010** – (Boston and Cambridge)
- *BAA Boston 5K Race & 1 Mile Races* – **19 April 2009** – (Boston)
- *Run of the Charles* – **25 April 2010** – (Charles River – Needham to Boston)
- *Multiple Sclerosis Journey of Hope* – **22 May 2010** – (Natick)
- *Bikes-Not-Bombs Bike-A-Thon* – **6 June 2010** – (Boston and suburbs)

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.



## Amateur Radio Bill Passes Senate, Moves to the House

-- ARRL Bulletin 037, 16 December 2009

On December 14, S-1755 - The Amateur Radio Emergency Communications Enhancement Act of 2009 - passed the Senate by unanimous consent; the bill now goes to the House of Representatives for consideration. If passed, it would direct the Department of Homeland Security (DHS) to undertake a study on emergency communications.

S-1755 points out that "There is a strong Federal interest in the effective performance of Amateur Radio Service stations, and that performance must be given - (A) support at all levels of government; and (B) protection against unreasonable regulation and impediments to the provision of the valuable communications provided by such stations."

Similar in language to HR-2160 (also called The Amateur Radio Emergency Communications Enhancement Act of 2009, S-1755 calls on DHS to undertake a study on the uses and capabilities of Amateur Radio Service communications in emergencies and disaster relief and then to submit a report to Congress no more than 180 days after the bill becomes law. The study shall:

Include a review of the importance of Amateur Radio emergency communications in furtherance of homeland security missions relating to disasters, severe weather and other threats to lives and property in the United States, as well as recommendations for enhancements in the voluntary deployment of Amateur Radio licensees in disaster and emergency communications and disaster relief efforts and improved integration of Amateur Radio operators in planning and furtherance of the Department of Homeland Security initiatives.

Identify impediments to enhanced Amateur Radio Service communications, such as the effects of unreasonable or unnecessary private land use regulations on residential antenna installations; and make recommendations regarding such impediments for consideration by other federal departments, agencies and Congress.

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# The SPARC

## PowerPole Questions and Answers

<http://www.powerwerx.com/helpcenter.asp>

### Are the 15, 30 & 45 amp Powerpoles interchangeable?

Yes. The 15, 30 & 45 amp contacts all use the same housing. Therefore, they all plug into each other. The only difference between the 15, 30 & 45 amp contacts is the size of the receiving barrel that holds the wire.

### Crimping vs. Soldering

One of the many questions we receive is it best to solder or crimp the connectors? Either is OK, but each method should be done properly. If you are going to crimp use a crimper that will not destroy the round shape of the contact. Some brands of crimpers deform the barrel of the contact into an oval. The oval will not allow easy insertion into the housing and therefore requires re-crimping to make sure the contact is still a rounded shape.

Soldering is also acceptable, but you have to make sure that not too much solder is applied and that it does not run down onto the tongue (tip of the contact). Solder flux and solder on the contact add to the resistance of the connection.

In either case if you are using a wire size that may be too small for the contact you may have to fold the wire over (doubling) and then insert it into the contact to properly fill the hole to be able to make a proper crimp/solder connection.

## PowerPole Connectors and Tool Available

Anderson® PowerPole® connectors are the standard for ARES and most other ham uses. They allow reliable, interchangeable power connections. BARC has the special tool to make the crimped connections. We have a supply of the connector bodies and contacts to enable each member to have two full sets free. Additional connector pairs are \$1/pair.

**Tools and connectors can be available at any meeting for installation, instruction, and assistance.**

## Have Breakfast With BARC

We hold a social breakfast on the third Sunday of each month at the Old Country Buffet in the Watertown Mall. Breakfast is served from 0800 to 1130 (although we rarely stay beyond 1000). We just get together, socialize and eat, without any formal club events or business. Family and friends are welcome. The extensive buffet breakfast is *very* good. The cost is reasonable (seniors get a discount).

The Old Country Buffet is in the Watertown Mall, 550 Arsenal St. in Watertown. There is plenty of parking. From Memorial Dr, continue on Greenough Blvd to the Watertown exit, turn right on Arsenal St. By **T**, the #70 bus from Central Square Cambridge to Watertown Square to Waltham stops right at the Watertown Mall. We hope to see all of you there – and bring your appetite!

## 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 Newslines)	145.470

Repeaters: 145.23 (-) PL 88.5 444.050 MHz (+) 110.9 Hz

Simplex: 147.42

Boston Amateur Radio Club  
PO Box 15585  
Boston MA 02215-0011



### January General Meeting Omitted

The BARC General meeting for January 2010 has been canceled due to inadequate facilities available. As soon as satisfactory arrangements are made for future meetings, notice will be posted on our website, [www.barc.org](http://www.barc.org), on the Monday night net, and in the next newsletter issues.

A teal-colored banner with white and red text and icons. On the left is the American Heart Association logo. The main text is in white. There are two numbered steps: '1' with a red phone icon and '2' with a red hand icon. The text includes 'Hands-Only™ CPR', 'Call 911', 'Push hard and fast in the center of the chest.', and 'Learn more at [handsonlycpr.org](http://handsonlycpr.org)'. On the right is the American Heart Association logo with the tagline 'Learn and Live'.

Hands-Only™  
CPR

1 Call 911

2 Push hard and fast in the center of the chest.  
Learn more at [handsonlycpr.org](http://handsonlycpr.org)

American Heart Association  
Learn and Live