



# The SPARC

Amateur Radio - Communicating Worldwide for A Century

Newsletter of the Boston Amateur Radio Club

April 2011 - VOLUME 23, NUMBER 4

[www.barc.org](http://www.barc.org) - [w1bos@arrl.net](mailto:w1bos@arrl.net)



## Message from the President -- Tom Bertolino, KB1P, President

April is here finally and the snow is gone. Now I can put my snow shovel away until ????. As some of you know, I had a falling out with my snow shovel several weeks ago. I guess we were spending too much time together and we started to get on each other's nerves. I was shoveling my driveway after one of the many storms we had in January when it happened. I was repeatedly trying to throw shovels of snow over over a six-foot snow bank next to my driveway. After a number of failed attempts to get the snow over the snow bank I became frustrated, and I started to blame the shovel. Being the even-tempered man that I am I had some choice words to say to my shovel which ended with me threatening to buy a snow blower. Needless to say that was the last straw; I decided I needed a separation from my snow shovel. I soon left Massachusetts and headed South for about 10 days. That was all we needed. My snow shovel and I made up when I came back, and we have been on speaking terms since (but probably only until he finds out that I am buying a snow blower for next winter).

That's all the complaining. Spring is here and so are our Public Service Events. BARC is supporting three events this month: The MS Boston Walk on April 10th, The BAA's 5K and 1 mile Races on Sunday the 17th, and The Run of the Charles Canoe and Kayak Races on Saturday the 30th. We are still looking for ham volunteers for these races. If you want to volunteer for one or more of these events please send me an email at [kb1p@arrl.net](mailto:kb1p@arrl.net) stating the event that you want to volunteer for.

At this month's General meeting Ed Parish, K1EP, will give a presentation on "Contesting". Ed, the holder of many contesting awards, will give us the benefit of his experience to introduce you to one of the most popular ham activities. Whether or not you want to be a serious contester, or, like me, you just spend a couple hours contesting during a weekend, you should not miss this presentation. I am looking forward to it and hope to see you all at this month's General Meeting on the 21st.

The June club elections are not far away. It is time to think about how the club leadership has been performing. What did you like [or dislike] about the club's actions in the last year. In what direction you would like the club to go. If you have some ideas about club operations the best way to implement those ideas is to run for the appropriate office. If you want to run for a club office or you want to nominate a club member for a club office now is the time to contact the club's nominating committee. Points of contact for the nominating committee are: Hank, K1QK, email at [hbuccigross@rcn.com](mailto:hbuccigross@rcn.com), and Joe, N1QD, email at [joseph.harris@comcast.net](mailto:joseph.harris@comcast.net).

I'll remind everyone that I am not running for any club office this year. I would like to use a quote from Gen William Tecumseh Sherman, "I will not accept if nominated and will not serve if elected."

There are many club members who volunteer their time and effort to support club activities. This club like any other club cannot function without their support and I thank you all. I do not make a habit of singling out club members who donate their time, but I will make an exception this time. On behalf of the BARC, I would like to thank Joe Flaherty, W1JF, for his role as net control for BARC's weekly Monday night net. For as long as I have been a member of BARC, Joe has been Mr. Net Control for this net. Joe has done an outstanding job as net control operator over the years. He makes being a net control operator look easy. For our appreciation and his dedication to the club over the years BARC has awarded him a free BARC membership for 2011. Keep up the great job Joe. 73

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## **The SPARC**

### **The BARC NET**



The Boston Amateur Radio Club holds its net every Monday evening at 9:00 pm on our 2-meter repeater. The frequency is 145.230, with a CTCSS of 88.5 (W1BOS). The net informs its members and others on club matters, upcoming club events, and matters of interest to the general amateur community. This is followed by an informal round table discussion. We invite all hams to join in the discussion. You do not have to be a member of BARC to join in the net.

### **BARC Net Preamble**

The control operator for the BARC Net is Joe, W1JF. He rarely misses a net, but when he does any ham can take up the position and run the net. To assist you in opening and closing the net The BARC Net Preamble is printed below. Do not be afraid to step up and take the challenge.

*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 check-in's for the Boston Amateur Radio Club Net please call now. [Compile the list of the check-in's 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.*

### **It's Time for Membership Renewal**

If you have not yet renewed your membership for 2011, a Membership Information form follows this 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 on-line, just go to <http://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@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.

Bob Isaacs                      WA1SMI  
PJ Schott

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>.

### **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. Contact Tom, KB1P so he can have them brought to the meeting.**

**Repeaters: 145.230 (-) CTCSS 88.5**

**Simplex: 147.420**

**443.550 (+) CTCSS 110.9**

## ***The SPARC***

### **Morse Code and the Man Behind It -- Tom Bertolino, KB1P**

During my quest to learn Morse code I began to wonder what logic was used to assign the dits and dahs to letters and numbers. As my ears started to recognize the code patterns, and I started to learn the characters, I began to wonder about other code related things. Who was Samuel Morse? Where did he come from? What was his background? What made him develop the telegraph and the code that went with it? Finally my curiosity got to me; I started to research Morse code and the man behind it, Samuel Morse. What I found surprised me.

My first surprise was that Samuel F. B. Morse was from Massachusetts. Wow! Old Sam was from Massachusetts. He was a Townie. My second surprise was that he was an accomplished artist, who studied at the Royal Academe in London and who has several paintings in art museums around the country. What also surprised me was that Morse did not invent the telegraph. (The first telegraph was invented in Germany by Wilhelm Weber and Carl Gauß.) Another surprise was that ~~he~~ Morse was bitterly anti-Catholic and anti-migration, and strongly supported slavery.

Morse was born in Charlestown on April 27, 1791, (just 8 years after the end of the Revolutionary War), and died on April 2, 1872. (The year of the great Boston fire, and the year in which President Grant was elected). Samuel's father, Jedidiah, was a Calvinist pastor in Charlestown and is considered the "Father of American Geography". Morse's father was strong supporter of the federalist movement in early America and a staunch Calvinist. His moral values and strong political beliefs influenced Samuel throughout his life.

Hoping Samuel would follow in his footsteps, Jedidiah wanted him to attend Yale, his alma mater. To help prepare his son for Yale, the senior Morse sent Samuel to Phillips Academy in Andover, MA. His decision paid off and when young Samuel, at age 14, applied to Yale, he was accepted. While attending Yale, Samuel studied Religious Philosophy, Mathematics, and Science of Horse (the training and breeding of horses). He also attended lectures on electricity by Benjamin Sillian (one of the first professors of science in America). He graduated in 1810 with Phi Beta Kappa honors.

After graduating from Yale Morse went against his father's wishes and pursued his interest in painting. He finally convinced his father to send him to England to study painting. Morse went to England in 1811, and was there during the War of 1812. It was during this time in England that he earned a reputation as a defender of American rights and became a strong anti-federalist. Morse left England in 1815, and headed back home. After a short stay in Connecticut as portrait artist, he moved to Charleston, South Carolina in hopes of furthering his career as an artist. This is where Morse came into his own as a painter.

To further his career as an artist, Morse toured Europe during the 1830s. It was during a return voyage to the states in 1832 that Morse met Charles Thomas Jackson, an expert in electromagnetism. It was while Morse was witnessing some of Jackson's experiments with an electromagnet that Morse started to developed his concept of a single wire (ground return) telegraph.

It was shortly after this in 1833, that Americans William Cooke and Charles Wheatstone learned about the multiple wire telegraph invented by Germans Weber and Gauß. They decided to launch a commercial version of the telegraph in the United States. Cooke and Wheatstone soon began a series of experiments the results of which improved on the German's telegraph, and they received a US patent for their multiple wire electrical telegraph in 1837. That same year they built a 13 mile telegraph line for the Great Western Railway.

At about the same time Morse began experimenting with his single wire telegraph system. With the help of Leonard Gale and Alfred Vail, Morse improved his single wire system to the point where it was performing better than Weber's and Wheatstone's multiple wire system. Despite the fact that Morse had a better product he could not get funding for his telegraph system. Finally after demonstrating his single wire system to Congress in 1843, Morse received a Congressional appropriation of \$30,000 for construction of an experimental 38-mile telegraph line between Washington, D.C., and Baltimore, Maryland. On May 24, 1844 Morse officially opened the line when he sent his now famous message "What hath God wrought" from Mount Clare Station, Baltimore to the Capital Building in Washington. The experiment was a success. Morse's single wire telegraph system soon overtook, and, replaced Weber's and Wheatstone's multiple wire telegraph system.

Now to answer the question that started me on this information pursuit: how were the dits and dahs assigned letters and numbers? The Morse code system as we know it evolved from a basic system designed by Morse. His first code was based on numbers and a special dictionary that assigned words to those numbers. If you wanted to use this code you would send a series of numbers to the receiving station. The receiving station would copy the numbers sent. Then someone would

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have to go the special dictionary, look up the number, then copy the assigned word. Wait - I am not through, it gets better. The way the numbers were sent was unique. The receiving station printed on a ticker tape roll of paper a series Vs. Yes, Vs. The amount and how the Vs were sent represented numbers. So for example VVVVVV represented the number 6, and VV VVV the number 23. Obviously, this system had its limitations. After experimenting with different ways of sending numbers with long and short electrical pulses, Morse [or Vail, depending upon who is writing about it] came up with the idea getting rid of the special dictionary and replacing it with a system that used a series of short and long pulses assigned to each letter and number. The concept was the most used letters would get the shortest sending time. Vail was given the task of assigning combinations of short and long pulses to each letter and number. To determine which letters got which pluses, Vail used local newspapers to determine the frequency that each letter was used. After compiling his data he assigned the most used letters the shortest send times. The resulting code standardized the way messages were sent in the States and lead to the adoption of the American Morse Code as a standard in this country.

Morse code began to evolve as soon as it was created. In 1848 Friedrich Clemens Gerke, created the Continental Code used in Europe. It was Gerke's code (which changed nearly half of Vail's alphabet and all the numerals) that was used as a model to create the code we use today. After some minor changes to Gerke's code, the International Telegraphy Congress of 1865 adopted it as the standard code. Thus, the code we use today, International Morse Code, was born in 1865.

(So If I tweaked your curiosity, and you want to compare Morse's American Morse Code to Gerke's Continental Code, and the code we use today, you can go to this link: [http://en.wikipedia.org/wiki/File:Morse\\_comparison.svg](http://en.wikipedia.org/wiki/File:Morse_comparison.svg).)

Now that I answered my questions about Samuel Finley Breese Morse, and the code that is named after him, all I have to do is meet my personal goal of mastering Morse code before Field Day.

## **Radiation and Radio**

***ARRL Contest Update, March 30, 2011***

***-- Ward Silver, NØAX***

With so much concern over the damaged nuclear reactors in Japan, sensitivity to the word "radiation" is very much higher than usual. In general, the public is not aware of the many meanings of the word nor are they sensitive to the differences in types of radiation. Since hams use electromagnetic radiation to communicate, it behooves us to be able to coherently explain why "our" radiation is OK and not a threat to others.

Radio waves are *non-ionizing* radiation that does not contain sufficient energy to separate electrons from atoms and create ions. That effect occurs only at frequencies orders of magnitude higher than for radio signals. As you learned during your licensing studies, radio frequency energy results in only thermal (heating) effects to the body. The amount of heating depends on the frequency and power levels involved. Radio waves have not been shown to cause biological effects, such as genetic damage or cancer. Radiation from nuclear sources, such as radioactive substances, can cause biological effects because it is *ionizing* radiation.

Furthering the confusion, the word "hot" is used to refer to both thermally hot and radioactive materials. Radioactivity can heat up materials (the inside of the Earth is kept hot from radioactive decay) but not vice versa. Only ionizing radiation from radioactive materials has enough energy to cause significant health hazards.

Exposure to ionizing radiation is measured in **sieverts** - a term unfamiliar to most people. Because it is an unfamiliar measurement, we find it difficult to assess the importance of numeric values. Normal background levels of ionizing radiation are so low that even a small release of radioactivity can cause a change that sounds alarmingly high.

An explanation of permitted versus recommended levels of ionizing radiation was also discussed in an NPR interview on Mar 21 with Dr. Harold Swartz, professor of radiology and medicine, Dartmouth College. A transcript of that interview is available online and may be of interest in explaining the relative numbers we are encountering.

Risk from exposure to radiation is not an easy thing to quantify in a single, brief statement. There are many factors involved and it is rare that we have all of the data or the expertise to evaluate that risk. Nevertheless, since we hams work with "radiation" every time we get on the air, it's important to be able to help our families and neighbors distinguish between what does and does not constitute a risk.

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### **Public Service Go-Kit -- Jim Bradley, KB1JKJ**

With the winter almost over and our public service events starting next month, I decided to use the time to check out my equipment and put together a go bag for supporting public service events.

My kit starts with a Yaesu VX-7R, with the following accessories: an extra battery, mini speaker/ microphone, earpiece/microphone, microphone adapter, DC cable charger and Comet HT-224 antenna. I keep all these items in a canvas bag that I bought at a local hardware store; there were three bags in the set.

In one of the other canvas bags I keep a pad of paper, some post-it-notes flashlight, a whistle, index cards, pens and pencils.



I carry these bags in a fanny pack, which I purchased from Campmor.com. The bag has two water bottle pockets on either side of the main compartment.

Also, in this pack I carry a personal first aid kit with sunscreen, a multi-purpose tool, and a copy of the radio manual in a plastic bag, my BARC badge and some snacks for long days.

Just before the event I recharge the batteries, add two water bottles, route maps and event specific details which I keep in plastic document protector sheets.

This is my public service event go-kit. Come to the MS Boston Walk on April 10th where you can see my "go-kit". We like to hear about how you plan for events. Can't make this event? Email me ([kb1jkj@arrl.net](mailto:kb1jkj@arrl.net)) your tips or go-bag ideas and we will include them in a future issue of *The SPARC*

### **Ham Radio Volunteer Opportunity in New Hampshire -- Robert Freed, W1RJF**

The Museum of Science is looking to recruit trained Ham radio operators to volunteer for the annual Washburn Climb of Mount Washington on Monday, July 11, 2011. In addition to their radio skills, volunteers for this event are required to have mountain first-aid training, solid hiking experience, and leadership skills, as they will need to hike to designated spots along the trail and may be responsible for guiding and assisting other climbers.

Ham radio volunteers will be strategically placed at various check-in points on the mountain including but not limited to: Ammonoosuc Ravine trailhead, Lake of the Clouds Hut, Mt Washington summit, Tuckerman's Junction, Hermit Lake Hut, and Pinkham Notch Visitors Center. Radio operators will be responsible for checking in each climber and relaying all information to both the Climb Organizer and the next check point volunteer via Net Control. All volunteers must attend a pre-climb briefing on Wednesday, July 6, 2011. The "hiking hams" are supported by the AMC Boston Chapter and the White Mountain Amateur Radio Club.

Volunteers will receive a free Washburn Climb t-shirt, lodging in NH for July 10 and July 11, and are invited to the post-climb celebration dinner on July 11.

#### **Interested in volunteering?**

Go to [www.mos.org/washburnclimb](http://www.mos.org/washburnclimb) to learn more and to print out the registration form. All applicants are required to fill out the registration form and mail or fax it using the information provided. A Museum of Science staff member will be in contact upon receipt. All applications will be carefully vetted. Questions: 617-589-4208

## I See the Future

10 Apr	Multiple Sclerosis Boston Walk <b>(Rp)</b>
11 Apr	BARC VE Session (by reservation)
16 Apr	Zola Center Ham Reinvention
17 Apr	BAA 5K/1 Mile Races <b>(Rp)</b>
17 Apr	MIT Flea (Cambridge)
21 Apr	BARC General Meeting
29-30 Apr	Near-Fest (Deerfield NH)
30 Apr	Run of the Charles Canoe & Kayak Races <b>(Rp)</b>
7 May	Multiple Sclerosis Journey of Hope Walk <b>(Rp)</b>
9 May	BARC VE Session (by reservation)
14 May	Cape Ann ARA Flea (Gloucester)
15 May	Brain Tumor Assn Rides <b>(Rp)</b>
15 May	MIT Flea (Cambridge)
19 May	BARC General Meeting
20-22 May	Dayton Hamvention (Trotwood OH)
2 Jun	BARC Business Meeting
12 Jun	Bikes Not Bombs Bike-A-Thon <b>(Rp)</b>
13 Jun	BARC VE Session (by reservation)
16 Jun	BARC General Meeting
19 Jun	MIT Flea (Cambridge)
25 Jun	Field Day
26 Jun	BAA 10K Race <b>(Rp)</b>
17 Jul	MIT Flea (Cambridge)

**(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.

## BARC Newsletter Is Green & Saves Money

This newsletter, the official source of BARC news (and other interesting tidbits), is distributed exclusively online. This is a significant saving of costs, effort and trees. Readers are notified monthly by email to link to a web page where the earliest posting of *The SPARC* can be read. Of course, this makes it necessary for all who will receive *The SPARC* to provide their best email address on the 2011 Membership Information form. We thank you for your cooperation.

## A Visit to the Zola Center for Persons with Disabilities and for BARC

-- Eric Falkof, K1NUN

The Zola Center, <[www.zolacenter.org](http://www.zolacenter.org)>, with which BARC has had a relationship for three years will celebrate a "Ham Radio Reinvention" session on **Saturday, April 16**, from 1330 to 1500 at the Zola Center in Newton Highlands.

About a year ago, almost as though in anticipation of an operational station, BARC members installed HF and V/UHF antennas at the site, since then, the Center has been the recipient of a graciously donated, complete HF station and V/UHF FM radios. The Center is fully operational and on the air! The Reinvention program will be an orientation and instruction session to familiarize the Zola and BARC members with operation and operating technique.

In short, this Ham Radio Reinvention will be like a grand re-opening. We will be showing off the station and showing the members how to use the equipment, and maybe some of the Zola members will acquire equipment on their own so they can get on the air at home.

Remember, it is now two years since the Zola hams were licensed and, for the most part, very few have been on the air. Yet they still come to learn and to do! This station is their community station and the Zola Center is their gathering place. BARC is still a special friend to the Zola Center, and the station can be available to BARC members, too. We hope you can come to join the fun and meet this enthusiastic group of new hams and help get them on the air.

## 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 May issue need to be received by 30 April.

**Hands-Only™ CPR**  
Call 911  
Push hard and fast in the center of the chest.  
Learn more at [handsonlycpr.org](http://handsonlycpr.org)  
American Heart Association  
Learn and Live

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### **Your Testing Is Needed for the New 70cm Repeater Frequency -- Bob Salow, WA1IDA**

As you may know, BARC has been assigned a new frequency pair for our 70cm repeater. Your help is needed to verify the coverage and signal quality. At several times of the day, please try to make contacts and get signal reports. Make notes of your location, the type of radio, the power used, and the reported signal quality. Send this information to Tom Bertolino, KB1P, at <[kb1p@arrl.net](mailto:kb1p@arrl.net)> or call him at 781.608.6186.

**The new frequency is: 443.550 MHz ( + ), PL 110.9 Hz. Check it out.**

Based on these reports and other measurements, further tuning and other improvements are in progress. Please continue checking and reporting to help make this repeater fully operational.

### **Looking Ahead At Public Service -- Bob Salow, WA1IDA**

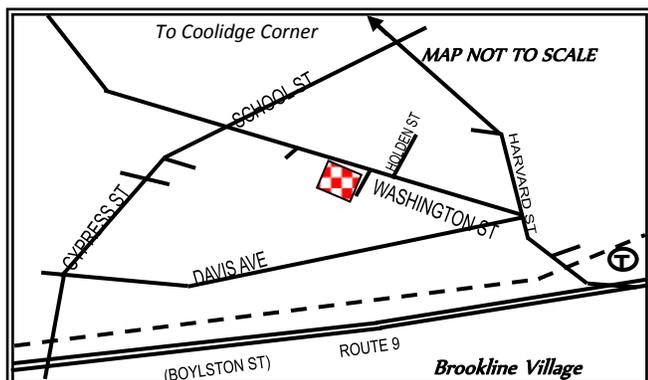
When hams engage in public service as mandated by the FCC Rules, the benefits go well beyond just following the rules. We can enjoy our hobby - have fun! We protect the health and safety of event participants. We support worthy charities. We learn to work within an organized effort. We experience the 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.

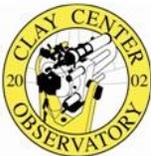
Throughout the year BARC coordinates numerous public service events. Most of these are open to hams that are new to helping at such events as well as experienced hams. For 2011, we have already been tasked with several events, and more are expected. Feel free to contact Tom Bertolino, KB1P, at 781.608.6186 or <[kb1p@arrl.net](mailto:kb1p@arrl.net)>.

- *MS Walk – 10 April* – (Boston/Cambridge)
- *BAA 5K/1 mile – 17 April* – (Boston)
- *Run of the Charles – 30 April* – (Charles River, Needham to Boston)
- *MS Journey of Hope – 7 May* – (Natick)
- *Brain Tumor Rides – 15 May* – (Waltham to Acton)
- *BNB Bike-A-Thon – 12 June* – (Boston, suburbs)
- *BAA 10K Race – 26 June* – (Boston)
- *BAA Half Marathon – 9 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.

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





**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*

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### **BARC Volunteer Exam Sessions**

The Boston Amateur Radio Club holds monthly VE sessions on the second Monday of each month. ***The July, August and October exams are omitted.*** 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](mailto:n1icn@arrrl.net)  
Tom Bertolino, KB1P, 781.395.5538 [kb1p@arrrl.net](mailto:kb1p@arrrl.net)

**WORLDWIDE DISTRIBUTION**

**HAM RADIO OUTLET**

224 N. Broadway - Ste. D12  
Salem, NH 03079  
(603) 898-3750 • 800-444-0047  
(603) 898-1041 Fax

ANAHEIM, CA • ATLANTA, GA • BURBANK, CA • DENVER, CO  
NEW CASTLE, DE • OAKLAND, CA • PHOENIX, AZ • PORTLAND, OR  
SALEM, NH • SAN DIEGO, CA • SUNNYVALE, CA • WOODBRIDGE, VA

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

### ***Public Service Spotlight***

#### ***The Run of the Charles Canoe and Kayak Race***

***Charles River Watershed Association*** (CRWA) mission is to use science, advocacy and the law to protect, preserve and enhance the Charles River and its watershed.

To increase public attention to river conditions over the past 28 years, a series of canoe and kayak races have been staged on the river between Needham and Allston. Hams have supported the event almost since the beginning. On Saturday, 30 April, for the 29<sup>th</sup> running, BARC will coordinate hams for safety communications.

Because of added requests for support, more hams are needed; contact Tom, KB1P, if you can assist this exciting event.

**Repeaters: 145.230 (-) CTCSS 88.5**

**Simplex: 147.420**

**443.550 (+) CTCSS 110.9**

# The SPARC

## 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>.

### BARC Officers and Staff

President: Tom Bertolino, KB1P;  
781.608.6186; kb1p@arrl.net

Vice President: Linda Blair, NA1I  
617.500.4406; na1i@arrl.net

Secretary: Jim Bradley, KB1JKJ;  
978.663.7114; kb1jkj@arrl.net

Treasurer: Jim Clogher, N1ICN,  
617.364.4658; n1icn@arrl.net

Volunteer Exams:  
Jim Clogher, N1ICN,  
617.364.4658; n1icn@arrl.net  
Tom Bertolino, KB1P;  
781.608.6186; kb1p@arrl.net

Membership Services: Linda Blair, NA1I  
617.500.4406; na1i@arrl.net

Public Service: Tom Bertolino, KB1P;  
781.608.6186; kb1p@arrl.net

Newsletter Editor: Jim Bradley, KB1JKJ  
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

443.550 ( - ) CTCSS 110.9



# Boston Amateur Radio Club

## MEMBERSHIP INFORMATION - 2011

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 \_\_\_\_\_

<b>LICENSE CLASS</b> ___ Novice ___ Technician ___ General ___ Advanced ___ Extra  ___ Former ham ___ Not yet a ham	<b>ARRL MEMBERSHIP</b> ___ Life ___ Annual ___ Not a member	The BARC membership list is for club use <b>only</b> , including publishing the roster to our members <b>only</b> . Do you wish to <b>restrict</b> such limited distribution:  <input type="checkbox"/> <b>OMIT ADDRESS</b>  <input type="checkbox"/> <b>OMIT EVENING PHONE</b>	<div style="border: 2px dotted red; padding: 5px;"> <p><b>IMPORTANT:</b></p> <p>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.</p> <p>Our newsletter, <i>The SPARC</i>, is the source of local and general ham radio news and official club information.</p> <p>It is therefore essential that for this fast and cost saving plan, that you indicate above <b>your best email address</b>.</p> </div>
	<b>EMCOMM?</b> 1    2    3		
Are you an ARRL certified VE? YES    NO	Have you taken ICS-700? YES    NO		

<b>Membership Category</b>	<i>Full year 2011 if paid between Nov 10 to 31 July 11</i>	<i>Half year 2011 if paid between 1 Aug 11 to 31 Oct 11</i>
<b>REGULAR MEMBER:</b> Not otherwise qualified below <input type="checkbox"/>	<b>\$25.00</b>	<b>\$12.50</b>
<b>JUNIOR MEMBER:</b> Are you under age 18? <input type="checkbox"/>	<b>\$12.50</b>	<b>\$ 6.50</b>
<b>SENIOR MEMBER:</b> Are you over age 64? <input type="checkbox"/>	<b>\$12.50</b>	<b>\$ 6.50</b>
<b>FAMILY MEMBER:</b> [Regular member I live with _____] I am the family member to receive club mailings <b>YES</b> <b>NO</b> <i>Note: Each member in the family <b>must</b> complete a separate form.</i>	<b>\$12.50</b>	<b>\$ 6.50</b>

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

Total \$

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

©BARC

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

DB by \_\_\_\_\_ Memb Nr \_\_\_\_\_ Date \_\_\_\_\_ Loc \_\_\_\_\_

*Gratuitus est per*