



# The SPARC

Volume XV, Number 6; June 2003  
Newsletter of the Boston Amateur Radio Club  
<http://www.barc.org>  
[w1bos@arrl.net](mailto:w1bos@arrl.net)



## The President's Word

Paul Olivieri, N1ZKR

Greetings. Field Day is finally *almost* here. What are you doing for Field Day? Whatever it is, I hope that you will take some time to visit the BARC Field Day site at Larz Anderson Park in Brookline. Remember last year when the usual spot was freshly seeded grass and we had to put a BIG tarp over the pergola for shelter? Well, with all the rain that we have had the grass has grown nicely and we will be back in our usual spot at the very top of the hill this year. We will have a large "wedding" tent which has been arranged by Blake K1BTH in addition to the club's large canopy and "easy ups" to use for shelter. The committee has put in a lot of "behind the scenes" work this year to make this event happen so please show your support. All current club members are welcome for dinner on site at about 6 pm on Saturday evening, June 28<sup>th</sup>.

Don't forget the General meeting on June 19<sup>th</sup> when we will have the election for club officers for the next term. In addition, we will have a very interesting speaker this month concerning digital modes and Internet linking. Also we will discuss the possibility of a BARC cookout to take place this summer. So please attend this important meeting to vote and let us know your interest in summer activity. Field day pins will also be available to purchase for \$5 at this meeting as well as at Field Day.

As we did last year, the plan is to hold *only* Business meetings in July and August with the General meetings to resume in September. Please note that the July Business meeting will be held one week later on July 10<sup>th</sup> so that folks can feel free to enjoy any plans for the holiday on the Fourth.

See you at Field Day and have a great summer.

## Field Day June 28-29, 2003

Mark Duff, KB1EKN

Field Day planning is going great! You can expect a fun time and rewarding experience at the top of Larz Anderson Park in Brookline. Our primary goal is to enjoy Ham Radio and operate in a safe and efficient manner. Many people have stepped forward to do their share, however, more help is still needed. Set up and tear down continues to be a labor intensive operation. If you could stop by for a couple of hours on Saturday morning and help set-up it would be very much appreciated. As a whole, the club asks very

little of the general membership. This is one area where we do need your assistance.

Operations will be somewhat simpler as we will be utilizing two larger tents instead of many small ones. The grounds have been reconfigured allowing for a much larger operating area. Our hope is to run 3A or 4A instead of 8A as was done in the past. This will allow us more time to enjoy the event. All members of the Amateur Radio community as well as anyone interested in getting involved with our noble cause are welcome. Stay as long as you like. There is plenty of room to camp over night and your family is welcome as well. This is also an opportunity to see and operate our new Yaesu 897.

With the current situation in the world, the ARRL has now affiliated with the Department of Homeland Security. We have the ability to provide interagency operability as no one else can. Field Day 2003 may be the most important Field Day ever.

Please feel free to call Paul Olivieri, N1ZKR, or me if you can help us in any way or you have any further questions. We look forward to your participation. I may be reached at 781.749.7664 or at [emgmgt@attbi.com](mailto:emgmgt@attbi.com).

## Third Time Triathlon

Bob Salow, WA1IDA

The triathlon, which was run for the second time in Boston last year, continues to be an international success. We have been asked again this year to coordinate emergency and safety communications support. The formal name for the event is the *Monster Challenge Tri-Boston*. It is sponsored by Monster.com for the benefit of the AIDS Action Committee.

Anywhere in the world a triathlon is an exciting and very demanding race. In urban Boston it is a further test of strength and determination. Designed to professional standards, the swim-bike-run will be held on **Sunday, 31 August**. The Olympic-class triathletes will swim one mile, bike 25 miles, and run 6.2 miles. The course is laid out in Boston harbor, downtown Boston and Cambridge, and in the Boston seaport. There are a number of hazardous and confusing locations that we are assigned to monitor.

The problem for us is that this is Labor Day weekend, so extra effort must go into getting enough hams - we need your help. A bit of relief is provided by the schedule, which expects the entire

event to go from **0630 to 1100**, so the rest of your day is free. If you can support this event, contact Mark Duff, KB1EKN, at 781.749.7664 or email to [emgmt@attbi.com](mailto:emgmt@attbi.com), or Bob Salow, WA1IDA, at 508.650.9440 or email to [wa1ida@arri.net](mailto:wa1ida@arri.net). Feel free to call if you would like more information.

## All You Can Eat and Public Service, Too

Bob Salow, WA1IDA

Here's a ham public service event where the reward might be better than the job. WGBH, the public TV channels 2 and 44, and FM radio, will hold their annual Ice Cream FunFest on both **Saturday and Sunday, 13 and 14 September**, at and around the WGBH station on Western Avenue in Brighton.

As in past years, thousands of people are expected. We have been asked to provide communications for the safety and management of the crowd and their vehicles. It's a compact area, so 2-meter simplex HTs can be used. About 14 to 16 hams are needed each day for communications and/or meeting the public.

A great advantage for us is that BARC is given free booth space to promote public awareness of ham radio. In past years our booth has introduced many people to our service and also stirred interest in several inactive hams.

Although such a good cause (and good publicity for us) doesn't need it, here's the good part: all volunteers get to eat all the ice cream you can consume (urp!). The ice cream is provided by 6-7 producers, so you can make comparative tests (urp, urp!).

If you can help either or both days (**from 1000 to 1500**), get more information by calling Bob Salow, WA1IDA, at 508.650.9440, or email to [wa1ida@arri.net](mailto:wa1ida@arri.net).

## June General Meeting

Blake T. Haskell, K1BTH

The June General meeting of the Boston Amateur Radio Club will be held on June 19, 7:30 pm. In June we'll be having a discussion on the Internet and ham radio presented by BARC member Ramon Kolb, KX1T. With increasing numbers of ham operators looking to include the Echolink and IRLP in their stations, Ramon should be able to shed some light on this process.

The General meetings are held on the third Thursday of each month at the Salvation Army third floor auditorium, 147 Columbus Avenue, at the corner of Berkeley St and Columbus Ave. Our meetings are convenient to public transportation. Nearest **T** stations are Back Bay on the Orange line (exit the rear of the station) and Arlington on the Green line (use the Berkeley Street exit).

Parking is available; the entrance to the parking lot is from Columbus Ave. (directly across the street from the firehouse). It is also **T** accessible; the nearest **T** stations are Back Bay on the Orange and Purple lines (exit the rear of the station by the busway

and walk one block east on Columbus Ave) and Copley or Arlington on the Green line. A map appears on page 7 of this newsletter.

If you arrive after 7:15 pm, you should ring the bell at the door to be admitted, as the door is locked then.

## Future General Meeting Dates

(Third Thursdays at 7 p.m.)

*(No General meetings in July and August)*

18 September 2003

16 October 2003

20 November 2003

18 December 2003 (Holiday Party)

## Minutes of the Boston Amateur Radio Club Business Meeting, June 5, 2003

Recorded by Mike Ardai, N1IST, Secretary

Present were:

Mike Ardai	N1IST	Secretary
Hank Buccigross	K1QK	
Jim Clogher	N1ICN	Treasurer
Dick Doherty	KA1TUZ	
Mark Duff	KB1EKN	
Joseph Harris	KB1IXK	
Blake Haskell	K1BTH	
Ed Hennessy	N1PBA	
Bill McIninch	KA1MOM	
Dan Malloy	KA1RDZ	
Paul Olivieri	N1ZKR	President
Bob Salow	WA1IDA	Public Service
Joe Scully	K1SQT	

The meeting started at approximately 1900 hrs.

Reports were received from the various committees regarding various ongoing concerns of the club, such as emergency response, repeaters and public service.

The Triathlon will be on 8/31 - we need 25 or so hams to help out. The WGBH Ice Cream FunFest will be 9/13 and 9/14 - we need people to work the event and staff the BARC booth. The BAA Half Marathon will be 10/12. Contact Bob at [wa1ida@arri.net](mailto:wa1ida@arri.net) to volunteer.

The nominating committee presented their suggested slate of officers for the upcoming election:

President	Paul Olivieri	N1ZKR
Vice President	Blake Haskell	K1BTH
Secretary	Mike Ardai	N1IST
Treasurer	Jim Clogher	N1ICN

**Repeaters: 145.23 (-) PL 88.5 447.175 (-) PL 110.9**

**Simplex: 147.42**

Nominations from the floor will be open until just prior to each election for each office. Elections will be held at the June General meeting.

There will be a Field Day planning meeting after the BARC breakfast this week. FD plans are proceeding well.

The radios have arrived for the SATERN communications van.

There is a SATERN net on Saturdays at 11 AM local time on 7270.

The new Technician Class question pool will go into effect July 1.

A proposal was made to establish a process for dealing with repeater etiquette issues and with welcoming new repeater users into BARC.

We are looking into running a hybrid EMCOMM 1 class in the fall - probably over one weekend.

We may want to look into a new location to hold the Business meeting so we don't run out of time like we have done the past few months. Alternatively, we may want to start the meeting earlier.

The July Business meeting has been rescheduled for 7/10 to avoid conflict with the 4th of July holiday. Keep an eye on **barc-list** and the club net for more information.

Speakers:

**June:** Ramon Kolb, KX1T, talking about linking ham radio with the Internet

**No General meeting in July or August**

**September:** Representatives from ICOM showing off their newest radios

**October:** Bob Hess, W1RH, talking about advances in digital radio

**November:** Mike Ardai, N1IST, talking about standardized power connectors, with demos and construction

**December:** Holiday Dinner

The meeting adjourned at 2038 hrs.

The next Boston Amateur Radio Club Business meeting will be held Thursday, **July 10, 2003 (changed from July 3)** 7:00 pm, at the Parlin Memorial Library, 410 Broadway (Rt 99), Everett, MA. Check the Web page and/or listen to the repeater for directions.

This is where the real business of BARC is conducted. If you have any suggestions, questions or comments, this is where to bring them. All members are welcome (and encouraged) to join us at this meeting.

## Future Business Meeting Dates

Repeaters: 145.23 (-) PL 88.5 447.175 (-) PL 110.9

(First Thursday at 7:00 p.m.)

### 10 July 2003 (note schedule change)

7 August 2003

4 September 2003

2 October 2003

6 November 2003

4 December 2003

## Tell the Public About Field Day

Bob Salow, WA1IDA

Enclosed with this issue of the newsletter is a copy of our Field Day flyer. We need your help and enjoyment at Field Day, but the times shown on the flyer are for the public to observe what we do under field conditions.

More copies of the flyer will be available at club meetings for you to post and distribute where you think interested persons will see them. Hand them out to friends and relatives to come see what is so interesting about our service and hobby.

## Here We Go Again

Bob Salow, WA1IDA

MediaOne, AT&T, and now Comcast. If your Internet Service Provider (ISP) has gone this route, you are in for an email address change. Follow the new Comcast instructions. Then, if you do not have an alias address which takes care of this, notify the BARC Keeper of the Database of your new email address.

If you find you are now forced to notify everyone who sends you email of your new address, consider using the alias service from ARRL or AMSAT, among others. This way, you have one constant address for your correspondents, and you need change only the one forwarding address with the alias service.

## BARC Growth

It's a rare month when we fail to add a few new 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 Flaherty W1JF

Please welcome the 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](mailto:wa1ida@arrl.net).

## Severe Weather Is Coming -- Are You Ready?

The National Weather Service in Taunton, in conjunction with state emergency management agencies, proclaimed the week of 12 May Severe Weather Preparedness Week. This is a good time to review your severe weather emergency plans at your home, at the office, at hospitals, day care centers, places of worship, etc.

### *Squall Line Storms Produce Downburst Winds and Occasionally a Tornado*

The squall line is the most common producer of severe weather in New England. A squall line is an organized line of thunderstorms, with gusty winds on the leading edge, followed by rain and occasionally hail. When stronger winds in the upper atmosphere work down to the ground, a portion of the line juts out. This signature is easily detected on radar and is termed a bow echo. Straight line winds can exceed the severe threshold of 58 mph, and are termed downbursts.

Less frequently, but still worthy of mention, tornadoes can form on the leading edge of a squall line. They form when the sudden rush of wind causing the bowing induces circulations on both the north and south side of the bow axes - termed bookend vortices.

Another place that weak tornadoes form is at the apex of the bow on the leading edge of the storm, before any rain occurs. Oddly enough, these weak tornadoes tend to form near the ground and then develop upward, as opposed to stronger tornadoes with well-developed rotation aloft that works down to the ground.

The National Weather Service issues severe thunderstorm warnings for expected wind gusts of 58 mph or more, or hail 0.75 inch in diameter or larger. Also, tornado warnings are issued if a tornado is likely to occur from a particular severe storm.

### *Large Hail Does Occur*

Hail forms in a thunderstorm and as it begins to fall and melt, the strong updraft blows it back up into the storm. It refreezes and gets larger. This process repeats until it gets large enough to fall through the updraft and reach the ground. Thus, the size of the hail is directly related to the strength of the updraft. Hail that is 0.5 inches in diameter, just shy of the National Weather Service severe threshold of 0.75 inches, is associated with an updraft strength of 37 mph. Compare this with hail that reaches 3.0 inches in diameter. Hail that size is associated with a updraft - straight upward through the storm - of 100 mph. Any storm that can produce golf ball size hail or larger, has a well organized updraft and may be capable of producing a tornado.

### *Are You Prepared For a Tornado? Is Your Town Prepared?*

Here in New England, is your town prepared? If the National Weather Service issues a tornado warning, immediate action should be taken to protect life and property. Tornadoes are less frequent and we tend to think they cannot happen here. But on

average, three tornadoes strike somewhere in Southern New England each year. Their radar signatures are not as prominent in New England, so a lead time of only a few minutes of warning before the tornado strikes is common. This makes it even more important to have a plan and to be able to act quickly.

First, you should be able to receive the warning. A great way is via NOAA weather radio, which can be purchased from your favorite electronics outlet. It has an alarm feature which can wake you up at 0300 if that is when a tornado or severe thunderstorm warning is issued.

Here are some safety rules. If you are in a building, you should move to the basement - underneath the staircase. If no basement, seek shelter in a small interior room or hallway on the lowest floor. Stay away from windows and exterior doors. In schools, avoid the cafeteria, gymnasium, or auditorium because of the wide-span roofs that can collapse. You should go to an interior hallway, outside the classrooms.

Abandon mobile homes or cars immediately. If no sturdy structure is nearby, go to a ditch and take the protective position on your elbows and knees with your hands covering your head. Do not seek shelter under an overpass.

### *River and Small Stream Flooding and Flash Flooding*

Flood and flash flood events can occur anytime of the year in southern New England. Weather systems ranging from a late summer hurricane to wintertime noreasters can drop large amounts of rainfall in a short period of time.

Flash flooding refers to flooding which follows within a few hours of excessive rainfall. Flash flooding can also develop due to a dam failure or ice jam. The inundation occurs rapidly and requires immediate action to protect life and property.

Flooding refers to the inundation of normally dry areas associated with heavy rainfall over a longer period of time. Flooding develops as a result of increased water levels along rivers and streams, or from ponding of water at or near the point at which the rain fell. Many of the widespread flood events have occurred during the late winter and spring. The combination of heavy rains and melting snows results in a dramatic increase in runoff into the river channels.

Summertime thunderstorms have caused considerable flash flooding. One must never ignore the threat of an approaching hurricane or tropical storm. New Englanders tend to associate hurricanes with widespread coastal damage due to the storm surge or inland damage from high winds. In fact, nearly half of the tropical systems that have impacted New England in the past 100 years have produced significant river and small stream flooding.

Few places experience the variety of weather systems throughout the year as in southern New England. Your understanding of the

threat and your state of readiness is what will save your life in the midst of a flood or flash flood event.

### *Downburst Winds From Severe Thunderstorms Can Be Powerful*

While not as notorious, or perhaps as spectacular to witness as a tornado, straight-line winds are responsible for most thunderstorm wind damage, especially across southern New England.

A downburst is a strong and relatively small area of rapidly descending air beneath a thunderstorm. It can result from stronger jet stream winds being transported downward to the surface. Or it can result as air within the downburst is cooled significantly as rain evaporates in initially drier air. This cool, thus dense, air sinks rapidly to the surface. A downburst is differentiated from a common thunderstorm downdraft because the winds it produces have the potential to cause damage on or near the ground. Surface damage patterns have shown that whether the winds are straight or a little bit curved, they tend to spread out or diverge considerably as they reach the surface. Conversely, damage patterns resulting from a tornado generally converge toward a narrow central track. Intense downbursts can be phenomenal.

Speeds have been clocked as high as 175 mph. Strong downbursts will definitely cause roaring sounds and people may often refer to a sound like a freight train - terms typically associated with tornadoes. Although downbursts are not tornadoes, they can cause damage equivalent to that of a small to medium tornado. After all, wind is wind.

Downbursts are classified as either macrobursts or microbursts, depending on the area extent of the damaging wind swath. The damage of a macroburst extends horizontally for more than 2.5 miles. A microburst is a small downburst with its damaging winds extending 2.5 miles or less. The small horizontal scale and short time span of a microburst makes it particularly hazardous to aviation.

The National Weather Service issues severe thunderstorm warnings for thunderstorms that are expected to produce damaging wind gusts of 58 mph or greater, or hail that is 0.75 inches or greater in diameter.

## **Calling a Cell Phone?**

The FCC has now authorized wireline phone companies to charge for calls from their customers to wireless phone companies if the wireless exchange is out of the calling area. This cost had been absorbed by the wireline companies.

Wireline customers may now have a problem since phone directories generally do not show exchanges used by the wireless companies. There is a website to the rescue! To identify the community of the wireless exchange you are calling, log on to: [www.members.dandy.net/~czg/search.html](http://www.members.dandy.net/~czg/search.html). Enter the area code and the three-letter exchange. You can then tell if that number is within your local calling area, or is a toll call.

This website has loads of related information if you are interested. If you are a wireless phone owner, and your frequent callers may be paying a toll to reach you, you can ask your carrier to give you an exchange in another community to make it more convenient for your callers.

## **BERT Needs YOU**

Blake Haskell, K1BTH, the leader of the BARC Emergency Response Team (BERT) is building a strong emergency communications response. You should be part of BERT.

BERT members respond to emergency communication needs from the communities and agencies in Greater Boston and beyond. It is a vital part of BARC activities and our contribution to the community. Training and drills prepare the team for critical needs. New members, with or without experience are welcome.

For more information, contact Blake at [k1bth@arrl.net](mailto:k1bth@arrl.net) or at 781.925.9900.

## **Orange Caps For Emergency and Public Service Events**

BARC has a supply of the bright orange caps for use at emergency or public service events. They are adjustable to fit all but the very largest heads, and proclaim, "Emergency Communications."

The price is \$5.00, and they are available at club meetings, or contact Dick, KA1TUZ or Bob, WA1IDA.

## **Try the New 60-Meter Band**

-- ARRL Bulletin 038

On 3 July, the new five-channel 60-meter domestic secondary amateur allocation becomes available to US Amateur Radio operators at midnight local time.

The FCC has granted amateurs use of five 2.8 kHz-wide channels with center frequencies of 5332, 5348, 5368, 5373 and 5405 kHz. The channels will be available to General and higher class licensees. The only permitted mode will be upper-sideband phone. Fifty watts ERP is the maximum power allowed.

Users of the 60-meter channels should set their carrier frequency 1.5 kHz lower than the channel center frequency. ARRL suggests restricting transmitted audio bandwidth to 200 Hz on the low end and 2800 Hz on the high end for a total bandwidth of 2.6 kHz. ARRL recommends that amateurs considering modifying existing amateur equipment for operation on 60 meters contact the equipment's manufacturer for advice.

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God put me on earth to accomplish a certain number of things. Right now I am so far behind, I will live forever.

## BARC VE Sessions

The Boston Amateur Radio Club holds its monthly VE session on the second Monday of each month. The next session will be at 7 pm on Monday, July 14, 2003 at the Pierce School at 50 School Street in Brookline, Room 110, next to the cafeteria.

There is a free parking garage at the circular driveway. If driving, enter School Street from the Washington Street side (opposite 394 Washington,) rather than from Harvard Street. Check:

[http://www.barc.org/barc/school\\_map.gif](http://www.barc.org/barc/school_map.gif)

for more info. This map also appears on page 7 of this newsletter.

For those traveling via public transportation, take the D branch of the **T** Green Line to the Brookline Village station. Walk north along Harvard Street 0.2 miles to School Street, then turn left. The Pierce School is on the left. The #66 bus runs on Harvard Street, crossing School Street.

Talk in on 145.230 (-), PL: 88.5 .

We give all exams (Technician thru Extra, CW and written). You don't need to pre-register. Please bring the following with you:

- Your current license *and a photocopy for the ARRL*, if you are upgrading
- Any CSCEs you are claiming, and a photocopy of them
- Valid ID (picture ID preferred)
- A pen and a calculator (if you want to)
- **\$12.00** (good for all the tests you take at that session, except for retests).
- Note that code tests are no longer free. Those taking the code test only will also have to pay the \$12 fee. Code and written tests can be taken together at the same session for a single \$12 fee.

The needed FCC forms will be provided.

For further information, contact

Mike Ardai, N1IST 781.321.7939 [n1ist@arrrl.net](mailto:n1ist@arrrl.net)

Dick Doherty, KA1TUZ 617.969.4880 [ka1tuz@arrrl.net](mailto:ka1tuz@arrrl.net)

## Future Exam Dates

(Second Mondays at 7:00 pm)

11 August 2003

8 September 2003

**6 October 2003 - note date change due to holiday**

10 November 2003

8 December 2003

## BARC Monthly Breakfast

Every month, BARC has a social breakfast on the second Sunday of the month, which will be July 13 next month. We'll be meeting at the Old Country Buffet at the Watertown Mall at 8:30am.

They are *very* good, offering an extensive breakfast buffet, costing \$7.02 (including taxes) per person.

We just intend to get together, socialize and eat, without having any formal club events or business. Family and friends of club members are welcome also. If you are not a BARC member, you too are invited to meet with us and see what we're all about.

The Old Country Buffet is in the Watertown Mall, on Arsenal St. in Watertown. From Memorial Drive continue on Greenough Boulevard to the Watertown exit, and then turn right onto Arsenal St. There is plenty of mall parking. The #70 T bus from Central Square Cambridge to Watertown Square stops right at the Watertown Mall. Hope to see all of you there – and bring your appetite!

## I See the Future

15 June	MIT Flea
19 June	BARC General Meeting
10 July	BARC Business Meeting
13 July	BARC Breakfast
14 July	BARC VE Exams
20 July	MIT Flea
26 July	FRARC Flea (Swansea)
26 July	NE Antiques RC (Nashua NH)
17 Aug	MIT Flea
24 Aug	East V-UHF Conf (Enfield CT)
31 Aug	Monster Triathlon <b>(Rp)</b>
13-14 Sept	WGBH Ice Cream FunFest
14 Sept	SEMARA Flea (S Dartmouth)
3-4 Oct	Hoss Traders (Hopkinton NH)
12 Oct	BAA Half Marathon <b>(Rp)</b>

**(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. They are posted by e-mail to barc-list and on PBBSs regularly. If needed, contact any club member who has access to these.

## One of My QRP Rigs Needs a New Home.

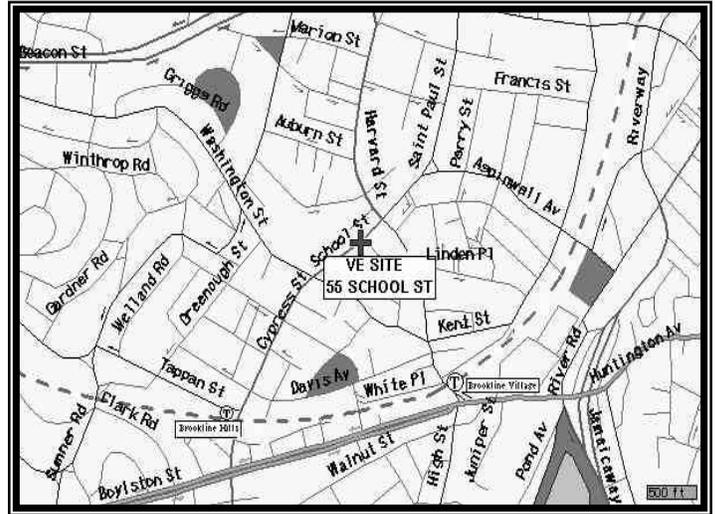
Eric Falkof, K1NUN

Tiny Tornado QRP CW transceiver (300 mw), bandswitching on 80, 60, 40, 30, and 20 meters. With crystals for common QRP frequencies: 3.579, 7.040, 10.116, and 14.060 MHz. Mounted in small case with all switches and jacks. Needs someone to finish the wiring. Very few components. No alignment necessary. With all documentation. \$80.

Eric -- [eric.falkof@hp.com](mailto:eric.falkof@hp.com)



General Meeting – Boston Salvation Army  
 Corner of Berkeley St. and Columbus Ave.



VE Session – Pierce School  
 50 School Street, Brookline, Room 110 next to the cafeteria

### BARC Officers and Staff

President	Paul Olivieri, N1ZKR	617.782.4005	n1zkr@juno.com
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Programs & Activities	Blake Haskell, K1BTH	781.925.9900	k1bth@arrl.net

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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### Greater Boston Net Directory

daily 5:30pm	Eastern Mass/Rhode Island Phone Net (NTS)	3.915
daily 7 and 10pm	Eastern Mass/Rhode Island CW Net (NTS)	3.658
daily 8pm	Eastern Mass 2M Traffic Net (NTS)	145.230 (PL 88.5)
daily 8pm	Slow Speed CW Net	28.160
daily 10:30pm	Heavy Hitters Traffic Net (NTS)	146.640
Mon 9pm	BARC Club Net	145.230 (PL 88.5)
Tue 8pm	MMRA Club Net	146.610 and all MMRA links
Tue 9pm	EMA Public Safety Net	145.230 (PL 88.5)
Tue 9pm	NETARC Satellite Net W1ME, NCS	446.575 (PL 88.5)
Wed 8pm	Wellesley Amateur Radio Society Net	147.030
Wed 9pm	HHTN Swap Net	146.640
Thu 8:30pm	Amsat Net N1OHJ, NCS	146.640
Fri 9pm	SWAT Net and Net Control 101	145.230 (PL 88.5)
Sat 11am	Northeast SATERN Net	7.270
Sun 9:30am	Yankee SSB Net (6M)	50.275
Sun 7pm	Youth Net	146.610 and all MMRA links
Sun 7pm	Algonquin Amateur Radio Club Net	53.470 (PL 100.0/71.9), 223.860 (PL 241.8), 446.675 (PL 88.5)
Sun 8:30pm	NSRA Net (with Newsline)	145.470
4th Sundays 9:30pm	EMA Section ARES Net	146.610 and all MMRA links

Repeaters: 145.23 (-) PL 88.5 447.175 (-) PL 110.9

Simplex: 147.42