



# The *SPARC*

Newsletter of the Boston Amateur Radio Club

Volume XVIII, Number 7; July 2006

<http://www.barc.org>

w1bos@arrl.net



## President's Column

-- Blake T. Haskell, K1BTH

The Fourth of July has come and gone, the firework wrappers are still being found on the beaches here in Hull and summer is here. I'll be brief this month.

Field Day 2006 was a success with a new venue this year. About 15 BARC members gathered at the Emergency Operating Center of the Salvation Army's Boston Headquarters and enjoyed fine food, companionship and on-air contacts. Our hosts, Bill Foley, KB1GLF, and Frank Murphy, N1DHW, did an outstanding job and everyone had a good time. The statistics are still being analyzed and will be announced shortly.

The July Business meeting was a lively event. Considerable discussion ensued about the future direction of the Club and its management structure. This discussion will continue at the August Business meeting.

The First Annual BARC Mini-Golf Tournament is scheduled for Sunday July 30, 2006 at Golf on the Village Green, Route 9, Natick, MA. Please join us and have a fun afternoon with your peers from other Eastern Massachusetts Amateur Radio clubs. A flyer is included with this newsletter for posting on your 'fridge door.

The ARRL New England Division Convention, better known as "Boxboro" is coming on August 25-27. BARC plans to have a table there and will be looking for help staffing it. Further details will follow shortly.

Enjoy the summer!

## SKYWARN Training Schedule

The last 2006 training session for SKYWARN spotters in Greater Boston has been announced:

15 July Saturday 1030 to 1330  
MIT Tang Center, E51-345  
70 Memorial Dr (Enter from Amherst St)  
Cambridge MA

SKYWARN is a program sponsored by the National Weather Service (NWS) to increase surface weather information during critical events. Instruction is provided to spotters to identify and report ground weather information to NWS. SKYWARN is supported by a well-organized ham radio activity. It is not necessary to be a ham operator to take this valuable training.

## The July and August General Meetings Are Omitted – But Don't Despair

There are other activities yet to come. As you can see in the enclosed flyer, the First Annual BARC Mini-Golf Tournament is **Sunday, 30 July**. We have not lost one yet, so help us defend our title!

Our General meetings are usually held on the third Thursday of each month at the Salvation Army Headquarters, 147 Columbus Ave, at the corner of Berkeley St, in the **third floor auditorium**.

The meetings are convenient to public transportation. The nearest **T** stations are Back Bay on the Orange and Purple lines (exit at the rear of the station and walk down Columbus), and Copley or Arlington stations on the Green line.

Free parking is available in the lot adjacent to the Salvation Army building. The entrance to the lot is from Columbus Ave (across the street from the firehouse). A map appears on page 7.

Talk-in is available on 145.230 MHz ( - ), CTCSS 88.5 Hz. If you arrive after 7:15 pm, ring the bell at the door to be admitted, as the door is locked at that time.

If you have any ideas about topics that you would like to see presented, please feel free to contact one of your officers and we will see what we can do to make it happen for you. Remember, this is *your club* and we are here to serve you.

## Future General Meeting Dates

(Third Thursdays at 7:00 pm)

*(No meeting in July and August – watch for other activities!)*

21 September 2006

19 October 2006

16 November 2006

21 December 2006 (*Holiday Party*)

## August Business Meeting – Note Time and Place

The BARC Business meeting for August will be at the Salvation Army building, in the second floor cafeteria. Enter the building through the door closest to the parking lot. **Note that the meeting time has been changed to 7:00 pm.**

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It's easier to get older than it is to get wiser.

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Simplex: 147.42

## Bikes Not Bombs Rides Again

-- Bob Salow, WA1IDA

No, it's not a curse, but a job well done leads to a hunger for more. The Bikes Not Bombs organization appreciated our support at the past couple of years' events and asked us to repeat this year. Their appreciation was again profound.

We monitored the three routes (15-, 25-, and 62-mile courses) with both stationary and mobile assignments on Sunday, 11 June. The event manager stated several times that we had given him all had asked for, and more.

This is another case where over the years the event staff has come to realize that cell phones, CB radio and commercial radios do not meet their needs or budget. Our team, our equipment and our skills were just what they wanted. Here's who helped:

Arthu r	N1NHZ
Andy	N1OSG
Jim	KB1MZE
Ralph	N1LAH
Dick	KA1TUZ
Jeff	KB1NGX
Dave	KB1EGW
Bob	WA1IDA
Larry	KB1NCQ

## 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. Here is a general look ahead at some of the events in 2006 that we will be asked to support. Formal recruiting will not take place until closer to each event. Feel free to contact Bob Salow, WA1IDA, if you have any questions - wa1ida@arrl.net or 508.650.9440.

*Boston Triathlon* - **3 September** - Swim, Bike, Run race; in Boston and Cambridge.

*WGBH Ice Cream FunFest* - **16 September** - Logistics management; ham radio public awareness in Boston.

*BAA Half Marathon* - **8 October** - 13.1 miles; 98% in Boston, 2% in Brookline.

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.

## NIMS/ICS Training Essential for Volunteers

The Department of Homeland Security is requiring all first responders, including volunteers, to complete at least introductory training in the National Incident Management System (NIMS) by 2007. Most, if not all, non-governmental agencies will soon require the ICS-700 course for volunteers (including hams) to participate in their activities.

This sounds formidable, but in reality there is an Independent Study course available from FEMA, designated IS-700. Go to [www.training.fema.gov/emiweb/is/crslist.asp](http://www.training.fema.gov/emiweb/is/crslist.asp) to find the course list. Follow directions and you will get to IS-700. You can take the course on line or download the material and do it at your own pace. It shouldn't take more than three hours. There's a final exam on line, but it isn't going to cause much sweat (or cost any money - the courses are all free). After passing the final, the student will get notification by e-mail or regular mail.

NIMS incorporates the Incident Command System (ICS), and adds the component "Multiagency Coordination Systems," a combination of facilities, equipment, personnel, procedures, and communications integrated into a common framework for coordinating and supporting incident management.

Also, look at the rest of the course offerings on the FEMA training Web site. They represent a wealth of knowledge, organized so that we can get through them and actually learn something. They aren't rocket science, just good stuff we need to know! See also courses IS-100, and IS-200.

The ARRL and BARC strongly recommend that hams take these courses. Even if you do not anticipate participating in emergency or public service activities, you will have a better understanding of what is going on when a disaster hits.

## Have Breakfast With BARC

BARC holds a social breakfast on the second Sunday of each month at the Old Country Buffet in the Watertown Mall at 0830.

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 at \$7.23; less for seniors.

The Old Country Buffet is in the Watertown Mall, on 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. The #70 T bus from Central Square Cambridge to Watertown Square stops right at the Watertown Mall. We hope to see all of you there - and bring your appetite!

## Your Ad Could Have Been Here

Are you a depressed BARC member because you have a treasure you must turn to cash and you couldn't make it to the last flea market? Well, cheer up, Bunky! The SPARC will run your (non-

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business) ad for free. Of course, a 10% donation if you sell it (and of course you will) will be cheerfully accepted. Just send your ad to Editor Paul Carter, N1TMF.

## Minutes of the BARC Business Meeting

July 6, 2006; Recorded by Paul Olivieri, N1ZKR, Secretary

The meeting was called to order at 1942.

Those attending:

Mike Ardai	N1IST	
Arthur Ashley	N1NHZ	
Hank Buccigross	K1QK	
Jim Clogher	N1ICN	Treasurer
Mark Duff	KB1EKN	
Bill Foley	KB1GLF	
Joe Harris	KB1IXK	
Blake Haskell	K1BTH	President
Dan Malloy	KA1RDZ	Vice president
Paul Olivieri	N1ZKR	Secretary
Bob Salow	WA1IDA	

*Committee reports:*

Treasurer Jim reported a balance of \$3083.97 in our account.

VE: Exams are suspended for the summer as the school is closed.

Public Service: The next public service event is the Boston Triathlon on Sunday September 3, 2006 in the Boston area, starting and ending at the World Trade Center on Seaport Blvd.

*Old business:*

The Mini-Golf Tournament will be on July 30, 2006 in Natick, MA. Greens fees are \$10 which includes lunch. Notices have been sent to clubs in the Eastern MA Section with only one response. It was decided that if we get ten or more people we will hold the event, but we will have to cancel for less than ten people.

Arthur raised the question of scheduling a special meeting in September to amend the club bylaws to change the terms of club officers.

Hank said that it is a little premature to be amending the bylaws until we settle some more basic questions about the club's future and the management team.

It was agreed that we should wait a while before we start amending the bylaws in this regard.

There were several reports about our successful Field Day at The Salvation Army EOC. Arthur had a list of fifteen club hams and four guests who visited. Several operators made contacts and Mike, N1IST, will compile the results for an entry to the ARRL.

*New business:*

Blake appointed Bob, WA1IDA, to be the club representative to the ARRL New England Division Director's cabinet meeting to be held in Portland ME. Bob solicited questions or concerns that should be brought to this meeting.

Blake opened a discussion about the possible future of the club.

Bob pointed out that we have a "Management Team" and that group should meet to discuss responsibilities.

Hank stated that we should still look into the possibility of merging with another club(s) while we continue to forge ahead with the Management Team running the club.

Mark, KB1EKN, reminded us of the suggested goals and objectives that he had handed out months ago. He said that we need to think about what we want our focus to be.

It was suggested that we might have a "Chairman of the Board" separate from the President to preside at business meetings.

There was agreement that we need to revive attendance at General meetings to rev up the club. Along with that concept, it was mentioned that we should seek a new meeting place, perhaps outside of Boston.

It was noted that many of our meetings have been somewhat repetitive. It was felt that we should seek speakers on a variety of topics on a general communications theme, not limited only to ham radio.

It was noted that a majority of the news in *The SPARC* has to do with public service and that we should encourage members to write articles about other topics and submit them.

Mark said that we have a responsibility to take at least a year to work on revitalizing the club before we act on alternatives. It was generally agreed that we should stay the course as the club proceeds with the Management Team in place, working to re-energize the club for more participation.

Bill KB1GLF suggested that we should find an alternate meeting place for the August meeting, as he will be on vacation.

There being no further business, the meeting adjourned at 2050.

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The Business meeting 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 attend these meetings.**

The next BARC Business meeting will be held Thursday, August 3 (first Thursday of the month), starting at **7:00 pm**. **Meetings are held at the Salvation Army Headquarters building**, 147 Columbus Ave, at the corner of Berkeley St, in the **second floor cafeteria**. Enter the door nearest the parking lot.

Our meetings are convenient to public transportation. The nearest **T** stations are Back Bay on the Orange and Purple lines (exit at the rear of the station and walk down Columbus), and Copley or Arlington stations on the Green line.

Free parking is available in the lot adjacent to the Salvation Army building. The entrance to the lot is from Columbus Ave (across the street from the firehouse). A map appears on page 7.

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I don't mind the rat race, but I could do with a little more cheese.

There is always one more imbecile than you counted on.

## Future Business Meeting Dates

(First Thursday at 7:00 pm)

3 August 2006  
7 September 2006  
5 October 2006  
2 November 2006  
7 December 2006

## BARC VE Session

The Boston Amateur Radio Club usually holds monthly VE sessions on the second Monday of each month. Sessions are held at 7:00 pm at the Pierce School, 50 School St in Brookline, Room 110, next to the cafeteria. A map is shown on page 7.

*Please note that VE Exams will not be held in July and August.*

For further information, contact  
Mike Ardai, N1IST 781.321.7939 [n1ist@arrrl.net](mailto:n1ist@arrrl.net)  
Dick Doherty, KA1TUZ 617.527.2968 [ka1tuz@arrrl.net](mailto:ka1tuz@arrrl.net)

## Future Exam Dates

(Second Mondays at 7:00 pm)

11 September 2006  
2 October 2006 (*note changed date*)  
13 November 2006  
11 December 2006

If Brookline schools are closed, the VE exams will be canceled.

## 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.

Tim Nau W1NAU

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@arrrl.net](mailto:wa1ida@arrrl.net).



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

## I See the Future

16 Jul	MIT Flea
22 Jul	NE Antique RC Flea (Nashua NH)
30 Jul	BARC Mini-Golf Tournament
3 Aug	BARC Business Meeting
13 Aug	BARC Breakfast
20 Aug	MIT Flea
25-27 Aug	ARRL NE Div Conv/Flea (Boxboro)
3 Sep	Boston Triathlon <b>(Rp)</b>
7 Sep	BARC Business Meeting
10 Sep	BARC Breakfast
10 Sep	SEMARA Flea (Dartmouth)
16 Sep	WGBH Ice Cream FunFest
17 Sep	MIT Flea
21 Sep	BARC General Meeting
6-7 Oct	Hoss Traders Flea (Hopkinton NH)
8 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](mailto:barc-list) and on PBBSs regularly. If needed, contact any club member who has access to these.

## Are You Vacationing in the Wilderness this Summer?

The Wilderness protocol (see *QST*, August 1995, page 101) calls for wilderness hams to announce their presence on, and to monitor, the national calling frequencies for five minutes beginning at the top of the hour, every three hours from 0700 to 1900 while in the back country.

A ham in a remote location may be able to relay emergency information through another wilderness ham who has better access to a repeater. The calling frequencies are: 52.525, 146.520, 223.500, 446.000, 1294.500 MHz.

## Hurricane Season Is Here and Serious

The National Weather Service has issued the following Public Information Statement:

For Southern New England, this season marks the 52nd anniversary of one of the most destructive hurricane seasons in our history - the summer of 1954. The 1954 season brought New England major hurricanes Carol and Edna. These powerful category 3 hurricanes struck just 11 days apart, with Carol arriving on August 31, followed by Edna on September 11. These two storms combined to produce millions of dollars worth of damage to homes, businesses and the boating industry, as well as claiming dozens of lives due to storm surge and river related flooding.

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Carol and Edna were the last major hurricanes to have struck our region. As the 2006 season begins, now is an excellent time to begin your own preparations. Your National Weather Service would like to suggest these helpful measures. Taking a few moments now will save much needed time should a tropical storm or hurricane take aim at Southern New England later this season.

#### *Coastal residents*

\* Never plan your actions on the anticipated time of landfall. Typically in Southern New England, heavy rains and winds to tropical storm force will make any travel or outdoor preparation work dangerous as much as 15 hours in advance of the eye of the storm.

\* Remember that most tropical systems approaching our region will accelerate dramatically. This will greatly reduce the time you have to prepare. Build extra time into your plan of action.

\* Never step outside during the passage of the eye. The often calm conditions will be rapidly replaced by a dramatic shift in wind direction and a return to hurricane force winds.

\* Know your evacuation routes and the proper shelters for your area. Check with your local town hall to see if you are in an evacuation zone.

\* Most shelters will not allow pets. Make arrangements ahead of time for a place for your pets to stay. Some animal hospitals offer to keep pets until you are able to return home.

\* Know where your gas and water shutoffs are. It is essential that you turn off both your gas and water before you leave your home.

\* If you choose not to head to a shelter, make arrangements now with relatives or friends if you wish to stay with them should you need to evacuate.

#### *Inland residents*

\* Be sure to have plenty of batteries on hand for flashlights AM/FM radios, and your NOAA weather radio. More often than not power will be disrupted during the storm and may be disrupted for several days.

\* Be sure to have canned food and other items on hand that do not need refrigeration. As stated above, it is almost a certainty that electrical and telephone systems will be disrupted if a hurricane strikes our region.

\* If you own a portable generator be sure it is properly hooked into the power supply. If it is not properly installed, it may do damage to the main power supply.

\* Store plywood and plenty of nails so that you can quickly board up windows on open facing sides of your home. Do not use masking tape to tape windows, it will not help.

\* Those living along flood prone rivers and streams should be ready to head to higher ground should flooding occur.

\* In case of the unlikely event that you must evacuate, know where your nearest storm shelter is located, and the quickest route to it.

## **Lightning Safety Preparedness**

-- Glenn Field, KBIGHX, National Weather Service

Each year, about 400 children and adults in the United States are struck by lightning while working outside, at sports events, on the beach, mountain climbing, mowing the lawn, or during other outdoor activities. About 80 people are killed and several hundred more are left to cope with permanent disabilities. Many of these tragedies can be avoided. Finishing the game, getting a tan, or completing a work shift are not worth death or crippling injury.

Lightning often strikes as much as 20 miles away from any rainfall. There has even been a documented case of lightning striking 34 miles away from the rain in the thunderstorm. At least 10% of lightning occurs without any visible clouds in the sky, just blue sky. Many of lightning fatalities occur ahead of the storm because people try and wait until the last minute before seeking shelter. You are in danger if you can hear thunder. That means lightning is close enough that it could strike your location at any moment.

On average, 20% of lightning strike victims die, 80% survive, but 70% of them suffer serious long-term effects.

Here are some lightning safety rules:

1. Postpone activities promptly and do not wait for the rain. Go quickly inside a completely enclosed building, not a carport, open garage, or covered patio. If no enclosed building is available, get inside a hard-topped metal vehicle. The steel frame of the vehicle provides protection if you are not touching metal.

2. Be the lowest point. Lightning likes to strike the tallest objects. If hiking in the mountains and above the tree line, you are the tallest object. Quickly get below tree line and get into a grove of small trees. Aside from this situation however, you should avoid trees. If you are in an open field, like a farm or a baseball or soccer field, you are the tallest object. Dugouts or gazebos afford little protection. If you cannot get to an enclosed building or vehicle, crouch down on the balls of your feet.

3. Keep an eye to the sky for darkening clouds and listen for thunder. If you can hear it, go to a safe shelter immediately.

4. Get off of bicycles and motorcycles. Do not lean on vehicles.

5. Water is a great conductor of electricity. Get out of the water if boating or swimming. Get off the beach. Do not stand in puddles, even if wearing rubber boots.

6. Avoid metal. Do not hold golf clubs, fishing rods, tennis racquets, or tools. Large metal objects can conduct lightning. Small metal objects, such as belt buckles, can cause burns.

7. Stay several yards away from other people. Do not share a bleacher or bench or huddle in a group.

8. Listen to NOAA weather radio. Find out if thunderstorms are in the forecast. Next, listen to hear any short term forecasts about thunderstorm activity. Also, listen for the warning alarm tone if

activated for severe thunderstorms in your area, which produce damaging winds and large hail in addition to lightning strikes.

*The science of a lightning strike:* At any given moment there are 1800 thunderstorms in progress somewhere on the earth, which amounts to 16 million thunderstorms each year! Lightning researchers have a better understanding today of the process that produces lightning, but there is still much to learn about the role of solar flares in the upper atmosphere, the earth's electromagnetic field, and ice in storms. We know the cloud conditions needed to produce lightning but cannot forecast the location or time of the next stroke of lightning.

Lightning occurs in volcanic eruptions, intense forest fires, surface nuclear detonations, heavy snowstorms, and large hurricanes, but it is most often seen in thunderstorms. Thunderstorms form in air that is moist, unstable, and has a trigger that causes the air to rise, such as a cold front. Rising motions in the storm build the cloud to as high as 6 to 10 miles above sea level. Ice forms in the higher parts of the cloud.

The ice particles vary from small ice crystals to large hailstones. There are a lot of collisions between the particles which causes a separation of electrical charges. Positively charged ice crystals rise to the top of the storm and negatively charged particles and hailstones drop to the middle and lower parts of the storm. Enormous charge differences develop.

A moving thunderstorm gathers another pool of positively charged particles along the ground that travel with the storm. Positively charged particles rise up taller objects such as trees, houses, and utility poles. The particles can even move up you - have you ever been under a thunderstorm and had your hair stand up? If so, *you* may be the lightning target.

The negatively charged area in the storm sends out a charge toward the ground called a stepped leader. It is invisible to the human eye. When it gets close to the ground, it is attracted by all of these positively charged objects and a channel develops. You see the electrical transfer in this channel as lightning. There may be several return strokes of electricity within the established channel that you will see as flickering lightning. The lightning channel heats rapidly to 30,000 degrees or more and the rapid expansion of heated air causes the thunder. Since light travels faster than sound in the atmosphere, the sound is heard after the lightning. If you see lightning and hear thunder at almost the same time, the lightning is in your neighborhood!

Not all lightning forms in the negatively charged area low in the thunderstorm cloud. Some originates in the cirrus anvil at the top of the storm where there is a large positive charge. A strike originating in this area is called a positive flash. It is particularly dangerous for several reasons. It frequently strikes ahead of or behind a thunderstorm, away from the rain area, thus catching people by surprise, like a bolt from the blue. Positive strikes typically last longer, so fires are more easily ignited. Also, they usually carry a high peak electrical current which increases the lightning risk to an individual.

*The medical aspects of lightning:* The United States averages 73 reported lightning deaths per year, which makes it the second

largest storm related killer, exceeded only by flash floods. A lightning strike can result in cardiac arrest at the time of the injury, but some deaths can occur a few days later if the person is resuscitated but suffered irreversible brain damage. Because this may occur days later, the news story may not make the newspaper or other media outlets. Thus, there is an under reporting of injuries and deaths from lightning. The figures more realistically are about 100 deaths per year nationwide.

How do lightning injuries affect people? Lightning tends to be a nervous system injury and may affect the brain and both autonomic and peripheral nervous systems. When the brain is affected, the person often has difficulty with short-term memory, multi-tasking, and can be irritable, easily distracted, and have a personality change. Survivors initially may complain of intense headaches, ringing in the ears, dizziness, nausea, vomiting, or other post-concussion types of symptoms. Irregular sleep patterns may occur. Seizure-like activity may occur weeks to months after the injury.

People who wake up after the injury often do not have the ability to express what is wrong with them and may become embarrassed when they cannot carry on a conversation. As a result they may isolate themselves and become easy to anger. Depression becomes a big problem. Survivors often become exhausted after only a few hours of work and may not be able to complete all required job tasks.

Another common, often delayed, problem for some survivors is intense pain. The pain may not be from headaches but in the back, perhaps from compression and disc injury from the intense muscle contractions which may throw a person several yards at the time of the injury. The pain may also occur in an extremity, as nerves begin to slowly regenerate. Decreased libido and impotence often are reported.

Anatomic testing, such as an x-ray, CT scan, MRI, or blood tests often show up as normal. Sometimes functional tests ordered are testing the wrong thing. An electromyogram, or EMG, measures only the motor fibers, which are seldom affected by lightning injury. Smaller pain carrying nerve fibers are not tested by EMG. Thus a normal EMG result can mean little for someone with pain. Likewise, the standard EEG primarily measures surface readings of the brain and misses seizure activity in several deeper regions.

More useful is a functional test of how a person's brain is working, neurocognitive or neuropsychological testing. These tests are administered by a neuropsychologist familiar with literature in this area, not by a psychiatrist. These are pen and paper tests lasting 6 to 8 hours and test memory, IQ, organizational ability, etc. Lightning strike survivors usually have a characteristic pattern of deficits.

Help does exist for lightning strike survivors and physicians alike. For more information, go to [www.lightning-strike.org](http://www.lightning-strike.org) or call 910.346.4708. More detailed information is also available at [www.lightningsafety.noaa.gov](http://www.lightningsafety.noaa.gov).

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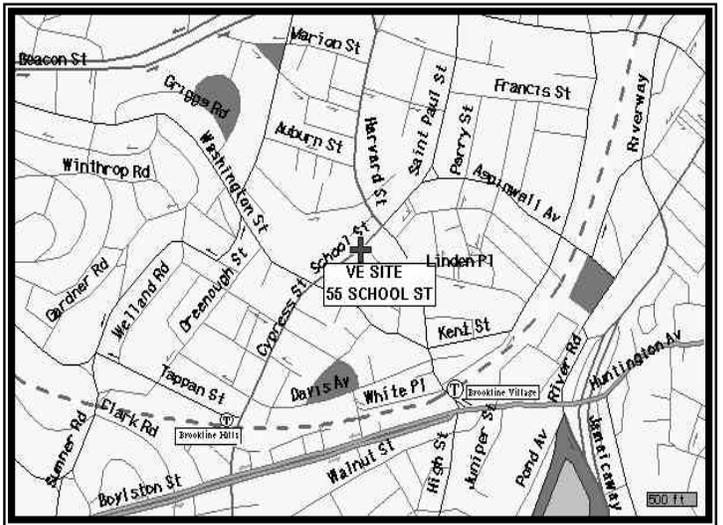
Those who live by the sword get shot by those who don't.

**Simplex: 147.42**

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



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	Blake Haskell, K1BTH	781.925.9900	k1bth@arrl.net
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Secretary	Paul Olivieri, N1ZKR	617.782.4005	n1zkr@juno.com
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Membership	Arthur Ashley, N1NHZ	617.661.2988	n1nhz@arrl.net
Public Service	Bob Salow, WA1IDA	508.650.9440	walida@arrl.net
Newsletter Editor	Paul Carter, N1TMF	617.232.6982	n1tmf@pvcronics.com
Programs & Activities	Dan Malloy, KA1RDZ	617.387.6025	djmalloy@mwisp.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 5:30 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
Tue 9 pm	EMA Public Safety Net	145.230 (PL 88.5)
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 7 pm	Youth Net	146.610 and all MMRA links
Sun 8 pm	Algonquin Amateur Radio Club Net	446.675 (PL 88.5)
Sun 8:30 pm	NSRA Net (with Newsline)	145.470

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

Simplex: 147.42

# ***WHAT? NO GENERAL MEETING?***

## **It's the BARC Mini-Golf Tournament instead!**

Our first annual Mini-Golf Tournament will be held on *Sunday, 30 July*. You gotta be there to defend our title – BARC has never lost a Mini-Golf tournament yet! Family and friends (if you have any) are invited. Lunch is part of the deal. Details inside.

*The next General Meeting is:*  
**21 September 2006 at 7:00 pm**  
**at the Salvation Army Headquarters building**  
**Third Floor Auditorium**  
**Columbus Avenue at Berkeley Street**  
**Boston**  
*(Parking in the adjacent lot on Columbus Avenue)*  
**Talk-in on 145.230 MHz (PL 88.5 Hz)**

**Help eradicate blank space!**

Get your news, views, stories and other contributions for the July issue of *The SPARC* to Editor, Paul Carter, N1TMF, no later than August 4, 2006.

***First CLASS Mail***  
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THE *BOSTON AMATEUR RADIO CLUB*  
CORDIALLY INVITES YOU TO THE  
**FIRST ANNUAL BARC**  
**“MINI-GOLF**  
**TOURNAMENT”**

SUNDAY JULY 30, 2006

12:00 PM – 2:00 PM

AT

**GOLF ON THE  
VILLAGE GREEN**

315 WORCESTER ROAD (RT. 9)  
NATICK, MA

(ABOUT 5.5 MILES FROM RT 128)  
508 653-4671

TALK-IN ON 147.150 MHZ [+]  
(THANKS, FARA!)



**GREENS FEES: \$10.00/PER PERSON**  
*(INCLUDES COLD BUFFET LUNCHEON)*

THE BOSTON AMATEUR RADIO CLUB IS HOSTING ITS FIRST ANNUAL MINI-GOLF TOURNAMENT AND WELCOMES ALL AMATEUR RADIO OPERATORS, THEIR FAMILIES AND EASTERN MASSACHUSETTS AMATEUR RADIO CLUBS TO JOIN US FOR AN AFTERNOON OF COMPETITION AND COMRADESHIP.

EACH TEAM WILL BE MADE UP OF DIFFERENT CLUB MEMBERS TO BALANCE THE FIELD. THERE MAY BE PLAYOFF GAMES FOR EACH CLUB. WHO KNOWS – JUST COME HAVE FUN!!!

*NIFTY PRIZES WILL BE AWARDED!*

PLEASE RSVP TO BLAKE T. HASKELL, K1BTH, AT [k1bth@arrl.net](mailto:k1bth@arrl.net) BY JULY 20, 2006 WITH THE NUMBER OF MEMBERS OF YOUR FAMILY OR CLUB PLANNING TO ATTEND.

*BE ADVISED, BARC HAS NEVER LOST A MINI-GOLF TOURNAMENT SO BE VERY AFRAID!*