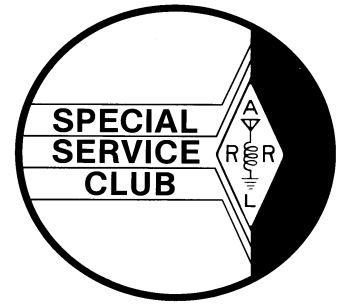




The SPARC

Volume XIV, Number 4; April 2002
Newsletter of the Boston Amateur Radio Club
<http://www.barc.org/barc>
w1bos@arrl.net



From the Office of the President

A month doesn't go by that, as President I don't commend or thank someone for supporting our club or amateur radio. This month is no exception. Several events occurred in March that requires recognition. We start out at a Science Fair in Brookline. Joseph Recht/KB1EIP, one of our youngest members, used Ham Radio as his science project. Several hundred people were introduced to the wonders and joys of our hobby. Several other members of BARC assisted including Joseph's mother Martha/KB1FMT, Bert/N1MXO, Ed/KA1KHK, Dave/WX1G and Tom/KB1EVZ. Later, that same day, Ham Radio was introduced to a group of Cub Scouts in Everett. A round of applause goes to Frank/N1DHW and James/AA1XS. And thanks to the several members who stood by on the 23 machine and provided the contacts for both events.

Another great success was the SET Drill. Rick/NG1L and his crew did a great job. Much was learned and I am sure improvements will be made so that the next drill will be even better. Special thanks goes to Bill Mc Ininch/KA1MOM who arraigned for the excellent press coverage we received in the Boston Globe! If you are interested in getting involved with our emergency response team, please contact Rick DiSisto/NG1L.

I have appointed Dick Doherty, Frank Murphy and Paul Katz as this years-nominating committee. The committee will make its recommendation at the May General Meeting with the Election to take place in June. At the May Business Meeting, consideration will be given to the elimination of the July and August General Meetings. This has been under consideration for several months and will require a by-law change. If you have any feeling on this issue, please come to the meeting and express them. Your opinion is important to the future of our organization.

Our guest speaker for April will be Eric Falkof/K1NUN who will speak on QRP. Eric will speak about operating QRP and also building a rig. As part of the meeting, Eric has requested that any member who has QRP equipment to bring it for display. If anyone could bring a Yaesu FT817, or any easily handled QRP equipment that would be appreciated. In addition to Eric's presentation we will hold a Mini-QRP Show & Tell. This promises to be a very informative talk and I look forward to seeing you there.

By order of the President
Mark J. Duff/KB1EKN

Nominating Committee Formed Club Officers Needed

BARC will elect our club officers, President, Vice President, Secretary and Treasurer, at the June 2001 meeting. This year's nominations committee is Dick Doherty KA1TUZ, Hank Buccigross K1QK, and Paul Katz N1LRT. All nominations for all club officers can be given to him, either at meetings or via email, and members can nominate themselves.

New England QSO Party

Object: To contact as many New England stations in as many New England counties as possible. (New England Stations work anyone)

Date: First full weekend of May (May 4-5, 2002)

More information: Web URL <http://www.neqp.org>

Questions can be addressed to: info@neqp.org

or by US Mail:

New England QSO Party
P. O. Box 3005
Framingham MA 01705-3005

Hams Wanted For The Multiple Sclerosis Walk

The Boston Multiple Sclerosis Walk will be held on **Sunday, 21 April** from mid-morning to mid-afternoon. We have supported this event for many years, protecting the safety of thousands of walkers, and earning the gratitude of the sponsors. Note the shift in the schedule. This event had been held on the first Sunday in April, but the weather was too cold. Placing it a few weeks later should add to everyone's comfort.

About 20 hams staff the checkpoints, the hazardous locations and shadow the key people. The present plan (like last year) is for the route to start at the Hatch Shell on the Esplanade, proceed east along the Boston side of the Charles River to the McGrath/O'Brien Highway. Cross into Cambridge, proceed west along Memorial Drive, and cross back to the Boston side on the River Street Bridge. Continue east along the river, finishing at the Esplanade. There is also a short route crossing at the Mass. Ave Bridge.

Lunch is provided for all volunteers. Contact the Coordinator, Bob Salow, WA1IDA, to sign up or for more information. You can reach Bob by email at walida@arrl.net or by phone at 508.650.9440.

You Say You Have Free Time?

Frank Murphy N1DHW

The Salvation Army Emergency Disaster Services (EDS) is looking for new members. They are seeking both drivers for the EDS trucks (canteens), and those who can respond to multiple alarm fires direct from home to assist the canteens at the fire/disaster scene. Hams are the perfect choice for this volunteer work. Not only are you there to refresh those hardworking firemen, but also in times of disaster, you're available and trained to assist with radio communications.

Contact Bill Foley, kb1glf, EDS Coordinator, 617-338-4155 x513, or Frank Murphy, n1dhw@arrl.net for more info.

BARC Email List Moves

QTH.net, the people who provide the mailing list server that **barc-list** runs on, has upgraded their system to a new mailing list manager called Mailman. To post to **barc-list**, send a message to barc-list@mailman.qth.net from the address that you are subscribed from. Only subscribers can post to the list. This is to reduce spam.

You can subscribe, unsubscribe, or manage your **qth.net** subscriptions at <http://www.qth.net>. This change applies to all mailing lists previously on **qth.net** directly.

Orange Caps For Emergency And Public Service Events

BARC has a new 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.

Hello AT&T Broadband

Are you among those who got changed from **mediaone.net** or **attbroadband.com** to **attbi.com**? Please let the BARC Keeper of the Database know your new email address. Just send an email with your name and call to walida@arrl.net. As you may have found out, you can no longer receive mail at **mediaone.net**.

You are not off the hook yet, however. As you may know, AT&T is in the process of selling its broadband business to Comcast. Standby for another change.

Insulate yourself. Since the vast majority of BARC members belong to ARRL, this probably pertains to you. We recommend that ARRL members sign up for the alias service. Your email address becomes **<callsign>@arrl.net**. You tell the service your actual Internet Service Provider (ISP), and your email is forwarded. Your ISP can jump all around, but the address you give to your correspondents stays the same. If there are changes, you just make one notification to the alias server that you have a new ISP. Check it out at the ARRL (members) web site: www.arrl.net.

Ups and Downs -- Why Some Repeaters Shift Up and...

Eric Falkof, K1NUN

145.23 down.

147.36 up.

Why up? Why down?

Until about the mid 1980s, Technician class Hams could only use two-meter band frequencies up to 147.00! Only Generals, Advanceds, and Extras could go above 147.00. So, if a repeater used a frequency below 147.00, the repeater could only shift downward in frequency; those above 147.00 shifted up. (Some Hams called them 'exclusive' because those ops would not talk to Techs! The concept of exclusivity was disparaged by some and lauded by the rest.)

After the FCC rules changed allowing Technicians to use the whole band, the exclusivity was lost and we now simply refer to the shift as up or down, positive or negative. In fact, we only have to know the repeater's output frequency to know whether the input is up or down in frequency, and by how much. For example, if a repeater uses an output of 146.70 (once a popular frequency for RTTY repeaters), we know that the input is 146.10. (146.70 is below 147.00, so the input is lower in frequency. Furthermore, it is 600 kHz lower. The same logic applies to repeaters operating in the 145 MHz range -- 145 is below 147.0 MHz and is, therefore, a downward shift. There is no need to indicate the shift or its direction unless the repeater does not follow convention.

As a historical footnote, this was not always the case. In an effort to squeeze more repeaters into the available space of a given Megahertz, there was a plan in effect in some areas of the country to use so-called interstitial splits. This meant that in an area where repeaters were spaced 30 kHz apart (146.64, 146.67, 146.70, and so forth) and used a downward shift, there would be room to insert repeaters on the intermediate frequencies and use an UPWARD shift (146.655, 146.865, 146.715 and so forth). Why? Because Ham receivers were not sufficiently selective to separate signals as close as 146.64 and 146.655. Therefore, the plan called for the intermediate frequencies and inverted split directions. Thankfully, this idea did not gain widespread acceptance!

But why 600 kHz? That is a story for another time!

Learn About The Incident Command System

An introductory course in ICS is available from the Federal Emergency Management Agency web site. You can study at home at your own pace. ICS is an organizational structure, which is just the application of good management practice, but flexible enough to adapt to any incident. It can be used to manage a small project, Field Day or a huge forest fire.

Most of the ICS is of little interest to hams, but as communicators we may find ourselves working with those who are using it, like MEMA and local agencies. This course gives you an overview of the structure.

Basic Incident Command System, IS-195 - The Incident Command System (ICS) is recognized as an effective system for managing emergencies. Several States (including Massachusetts) have adopted ICS as their standard for emergency management, and others are considering adopting it. As ICS gains wider use, there is a need to provide training for those who are not first responders, but who may be called upon to function in an ICS environment. This Basic Incident Command System Course will begin to meet that need.

The course, ICS-195, has been developed as self-instruction. The course includes a large number of scenarios, examples, and opportunities for students to apply what they have learned. If you plan to use the course materials which are available on-line, you do not need to enroll until you are ready to take the final exam.

Please note: The security FEMA provides on the Independent Study Courses requires Netscape 4.75 or above, or Microsoft Internet Explorer 5.0 or above.

To take this self-study course, go to the FEMA web site at www.fema.gov/emi/is195.htm and dig in.

BARC Monthly Breakfast

Every month, BARC has a social breakfast on the second Sunday of the month, which will be April 14 this 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 \$6.35 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!

April General Meeting

This month's BARC General meeting is on Thursday, April 18 at 7p.m. Our guest speaker will be Eric Falkof K1NUN who will speak about operating QRP and homebrewing QRP rigs.

BARC General meetings are held at the Boston Back Bay Salvation Army Building, corner of Berkeley St. and Columbus Ave. near Copley Square, in the second floor auditorium.

Parking is available; the entrance to the parking lot is from Columbus Ave. (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 down Columbus) and Copley or Arlington on the Green line (use the Berkeley Street exit). A map appears on page 7 of the newsletter.

People arriving after 7:15 p.m. need to 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.)

16 May 2002
20 June 2002
18 July 2002
15 August 2002
19 September 2002
17 October 2002

Minutes of the Boston Amateur Radio Club Business Meeting

April 4, 2002

Recorded by Michael Ar dai, N1IST

Present were:

Mike Ar dai	N1IST	Vice President
Arthur Ashley	N1NHZ	Membership Services
Hank Buccigross	K1QK	
Jim Clogher	N1ICN	Treasurer
Rick DeSisto	NG1L	BERT coordinator
Dick Doherty	KA1TUZ	
Mark Duff	KB1EKN	President
Ed Hennessy	N1PBA	
Paul Katz	N1LRT	
Dan Malloy	KA1RDZ	
Frank Murphy	N1DHW	
Paul Olivieri	N1ZKR	
Joe Scully	K1SQT	

The meeting started at approximately 1900 hrs.

Committee reports were read and accepted.

The next VE session will be 4/8. We will also work on the club display there.

We will send out letters to people who haven't yet renewed.

N1DHW reports that the JOTA Scout station this year will be at Thompson's Island, they are not interested in using BARC this year. BARC will set up W1BOS as a receiving station for making contacts.

NG1L discussed the statewide RACES/ARES SET. 8 Club members were at the Salvation Army, 7 in surrounding cities and towns

N1IST and N1ZKR are proceeding with Field Day plans. Volunteers are needed!

We will purchase a temporary garage tent for field day – about 10x20 feet - good for 2 or 3 stations with very good public access

There will be a field day meeting coming up soon. Keep an eye on barc-list or the club net for more info. Most likely on a Saturday morning.

BERT will be standing by as requested by EMA ARES on 4/15

Upcoming events - MS walk on 4/21 (contact WA1IDA), Run of the Charles (contact N1VJ) and the triathlon on 9/1 (contact WA1IDA)

The Salvation Army is looking for some more approved drivers for the canteen truck

The Nominating Committee is KA1TUZ, K1QK, and N1LRT. Elections will be at the June general meeting

We will look into getting a club table at Boxboro - most likely out in the flea market area.

MIT Flea on 4/21 - we will have a club table there once again

April speaker will be Eric, K1NUN, talking about QRP, possibly with some interesting show-and-tell

There will be a special meeting called at the May business meeting to look into a proposed Bylaws change to allow us to skip general meetings in the summer - right now we are required to have monthly general meetings

Thanks to everyone who has sent in donations with your renewal – they come in very handy when we have special expenses, like the new antenna we put on .23 - that was \$500

The meeting adjourned at 2030 hrs.

The next Boston Amateur Radio Club business meeting will be held Thursday, May 2 (1st Thursday of the month), 7:00pm, at the Parlin Memorial Library [410 Broadway, Everett, MA] (off rt. 99) in 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

(First Thursday at 6:30 p.m.)

6 June 2002

4 July 2002 (subject to change for the holiday)

1 August 2002

5 September 2002

3 October 2002

BARC VE Session

The Boston Amateur Radio Club holds its monthly VE session on the second Monday of each month. The next session will be at 7pm on Monday, May 13, 2002 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

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 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 145.23(-), PL 88.5.

We give all exams (Technician thru Extra, CW and written), and 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 CSCE's you are claiming, and a photocopy of them
- Valid ID (picture ID preferred)
- A pen and a calculator (if you want to)
- **\$10.00** (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 \$10 fee. Code and written tests can be taken together at the same session for a single \$10 fee.

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

Simplex: 147.42

The needed FCC forms will be provided.
For further information, contact
Mike Ardai, N1IST
781.321.7939
nlist@arrrl.net

or

Dick Doherty, KA1TUZ
617.969.4880
ka1tuz@arrrl.net

Future Exam Dates

(Second Mondays at 7:00 pm)

10 June 2002
8 July 2002
12 August 2002
9 September 2002
14 October 2002 (subject to adjustment)

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.

Pam Mallory-Ricker KB1FQE
Jacques Patry WD1I

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: walida@arrrl.net.

I See the Future

14 Apr BARC Breakfast
18 Apr BARC General Meeting
21 Apr MIT Flea
21 Apr Multiple Sclerosis Walk **(Rp)**
27 Apr NE Antique RC (Nashua NH)
28 Apr Run of the Charles Canoe Race **(Rp)**
2 May BARC Business Meeting
3,4 May HossTraders (Hopkinton NH)
11 May RIFMRS Flea (Forestdale RI)
12 May BARC Breakfast
13 May BARC VE Exam Session
16 May BARC General Meeting
19 May MIT Flea
16 June MIT Flea
24-25 Aug ARRL NE Div Conv (Boxboro)
1 Sept International Triathlon **(Rp)**

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

6 Oct BAA Half Marathon **(Rp)**

(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.

BARC Net NCS stations needed

Mike Ardai N1IST

We are constantly looking for people to help run the BARC Net each Monday night. This is a great way to get your feet wet in running a net and a nice way to help out the club. If you can help, please let me know when I ask for volunteers during the net or drop me an email at nlist@arrrl.net.

Special thanks to KB1EZZ, N1NHZ, N1GIE, and all the other regulars who help out by running the nets.

If it is a few minutes after 9 PM and nobody is running the net, please jump in and pick it up. The preamble is in the SPARC and on the BARC web page. If you don't have it with you, just wing it.

BARC Net Preamble

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 145.23 Boston repeater, PL 88.5. This net is an informal round table discussion concerning matters of interest to the members of the Boston Amateur Radio Club and the Boston Amateur radio community in general. When checking into the net, please say, "this is" and drop your carrier to check on doubling. Then give your call sign, name and location. All amateurs are welcome to join the net. Any checkins for the Boston Amateur Radio Club net please call now.

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.

Simplex: 147.42

Catch us on the Internet!

The Boston Amateur Radio Club has a web page at <http://www.barc.org>. Here you can find some of the latest BARC news, sample exams, maps to our meetings and VE sessions, links to other radio clubs, and a club roster (only names, callsigns, and e-mail addresses are on-line). If you have any suggestions, please let me know at nlist@arrrl.net.

New on our web page are the club articles:

<http://www.barc.org/articles.html>

and bylaws:

<http://www.barc.org/bylaws.html>.

We also run an FTP site at <ftp.barc.org> under <pub/hamradio>. We've got a mirror of the ARRL infoservert, BARC documents, ham radio software, and a huge mods archive. Cheyenne Greatorex, n1qzs@magrathea.com, maintains the FTP site. Contact him if you have any comments.

We also run a club e-mail list via [qth.net](http://www.qth.net). You can subscribe, unsubscribe, or manage your [qth.net](http://www.qth.net) subscriptions at <http://www.qth.net>. This change applies to all mailing lists previously on [qth.net](http://www.qth.net) directly.

73, /mike
nlist@arrrl.net

Several Hundred Boston Area Hams Could Be Reading Your Ad Right Now

The SPARC accepts commercial advertisements. BARC encourages monthly promotion of your products and services which would be of interest to our hundreds of members and others interested in the Amateur Radio Service.

Rates for display advertising are:

1 col x 2 in. (business card)	\$10 per issue
1 col x 2 in. (business card)	\$50 per 6 consecutive months
1 col x 2 in. (business card)	\$90 per 12 consecutive months
1 col x 4 in. (1/2 col)	\$20 per issue
1 col x 9.5 in. (full col)	\$40 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 Paul Carter at n1tmf@pvcronics.com or 617.232.6982; or Bob Salow at walida@arrrl.net or 508.650.9440.

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-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.

FCC Proceeding Puts New Pressure On Amateur Microwave Band

The FCC has again targeted Amateur Radio's primary allocation at 2390 to 2400 MHz for possible sharing or use by other radio services. A Notice of Proposed Rulemaking (WT Docket 02-55)--released in mid-March but not yet available for public comment--invites comments on either sharing the band with public safety services being displaced from 800 MHz or moving amateurs elsewhere. The ARRL plans to file comments in the proceeding.

The FCC says increasing incidents of harmful interference to public safety systems in the 800-MHz band prompted the proceeding, "Improving Public Safety Communications in the 800 MHz Band." To alleviate the problem, the Commission now is looking into restructuring the 800 MHz band and moving some occupants elsewhere.

"In this proceeding, if commenting parties believe that incumbent amateur services cannot co-exist with relocated 800 MHz services," the FCC said, "we seek comment on whether incumbent amateur services could be relocated, what spectrum could be used for their relocation, and what procedures would apply to such relocation." The FCC NPRM identifies 2390-2400 MHz as an "Unlicensed PCS Band." Unlicensed, asynchronous PCS devices were authorized there in 1995, but Amateur Radio remains primary.

The FCC also will seek comments on whether existing UPCS operations could continue in the band or be forced to cease. It also wants input on "the suitability of the 2390-2400 MHz band as replacement spectrum and whether there are other band segments with which this band could be paired." The FCC noted that the adjacent 2385-2390 MHz segment already is slated for auction.

The FCC said its discussion of 2390-2400 MHz and other segments in terms of replacement spectrum was intended to be "illustrative rather than exclusive" and that other bands "may also merit consideration."

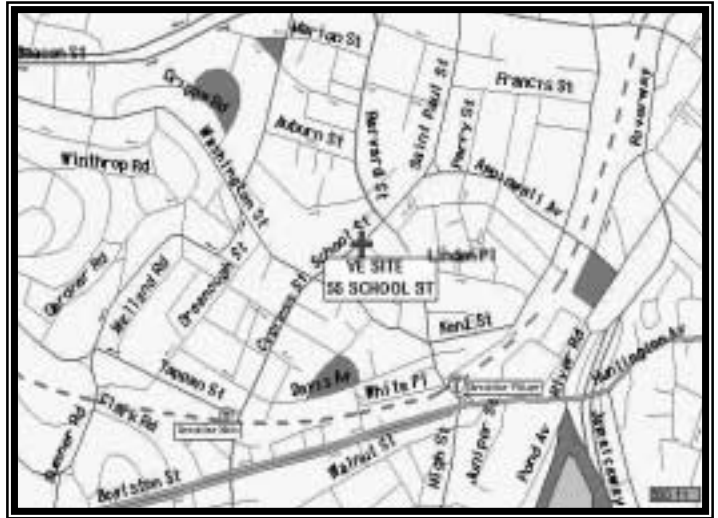
Just last summer, the FCC invited comments on its proposals to reallocate some spectrum in the 2390 to 2400 MHz amateur segment--as well as in the non-amateur 1.9 and 2.1 GHz bands--for possible use by unspecified mobile and fixed services. The Commission has proposed 2390 to 2400 MHz and other bands to support the introduction of advanced wireless systems, including so-called third-generation (3G) mobile systems. The FCC also has asked for comments on whether amateurs could share the band with government users.

The complete NPRM is available via the FCC Web site: http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-02-81A1.doc. The FCC will officially invite comments for 30 days after the NPRM is published in the Federal Register. Reply comments will be due 60 days following publication in the Federal Register.

From the ARRL Letter
Vol. 21, No. 14 April 5, 2002



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: Mark Duff, KB1EKN	781.749.7664; emgmt@attbi.net
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Newsletter Editor: Paul Carter, N1TMF;	617.232.6982; n1tmf@pvctronics.com

The Boston Amateur Radio Club is a non-commercial association of persons interested in the Amateur Radio Service. The Club is organized for the promotion of interest in Amateur Radio communication and education, for the establishment of emergency communications in the event of disasters or other emergencies, for the advancement of the radio art and the public welfare, for the representation of the radio amateur in legislative and regulatory matters, and for the maintenance of collegiality and a high standard of conduct.

The Club is open to all persons interested in Amateur Radio without regard to race, color, religion, creed, national origin, gender, disability, or sexual preference. Our General and Business meeting locations are handicap accessible. Other meeting and activity locations may be handicap accessible by arrangement.

The Club is an ARRL-affiliated Special Service Club, and is a member of the Council of Eastern Massachusetts Amateur Radio Clubs (CEMARC) and the New England Spectrum Management Council (NESMC). The Club is a participant in Partnerships Advancing Technical Hobbies Which Attract Youth to Science (PATHWAYS). The Club is also an associate member of the Courage Handi-Hams system.

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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)	145.23 (PL 88.5)
daily 8pm	Slow Speed CW Net	28.160
daily 10:30pm	Heavy Hitters' Traffic Net (NTS)	146.64
M 9pm	BARC Club Net	145.23 (PL 88.5)
Tu 8pm	MMRA Club Net	146.61 and all MMRA links
Tu 9pm	EMA Public Safety Net	145.23 (PL 88.5)
Tu 9pm	NETARC Satellite Net WIME (ex K1MON)/NCS	446.575 (PL 88.5)
W 8pm	Wellesley Amateur Radio Society Net	147.03
W 9pm	HHTN Swap Net	146.64
Th 8:30pm	Amsat Net N1OHJ/NCS	146.64
Su 9:30am	Yankee SSB Net (6M)	50.275
Su 3:30pm	Youth Net	3.970
Su 7pm	Algonquin Amateur Radio Club Net	53.470 (PL 100.0/71.9), 223.860 (PL 241.8), 446.675 (PL 88.5)
Su 8:30pm	NSRA Net (with Newslines)	145.47
Su 9:30pm (4 th Sun. of Month)	EMA Section ARES Net	146.61 and all MMRA links

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

Simplex: 147.42