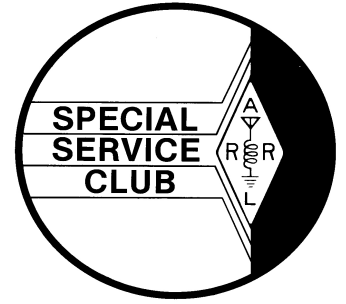




The SPARC

Volume XII, Number 12; December 2000
Newsletter of the Boston Amateur Radio Club
<http://www.barc.org/barc>
Email: w1bos@arrl.net



A Message from the President

Mark Duff KB1EKN

The BARC Nets continue to be a strong asset to the organization. I encourage everyone to check in when possible. The nets are very informative and keep the Boston Area Amateur Community up to date on what is going on both inside and outside the club.

The Boston Emergency Response Team [BERT] is in need of additional leadership and members. Although Arthur Ashley/N1NHZ (Team Leader) does a great job, he feels as I do that perhaps one or two assistant leaders should be appointed. In the event that Arthur is not available or a long-term activation is necessary, several leaders/organizers may be required. I also think it would be a good idea for the team to hold a separate meeting, perhaps in January so that members of the team can meet each other on a non-emergency basis and formulate plans for the future. The time to meet fellow members of the team and develop plans for the team is before emergencies, not during! I will work with Arthur to arrange such a meeting. If you are interested in becoming active with the response team, please contact Arthur. If you are interested in what the team does or have any suggestions please contact Arthur/N1NHZ or myself.

My compliments of the season to everyone, and I look forward to seeing you at the Christmas Party.

Mark J. Duff KB1EKN

Section Manager Election

Phil Temples, K9HI, has been elected ARRL Eastern Massachusetts Section Manager. His term is for two years, beginning 1 January 2001. Phil is a charter member of BARC. He was the first Vice President and the second President of BARC. Phil had held the SM post from 1993 through 1997. He succeeds Joel Magid, WU1F, who was appointed in June 1999, and did not seek election.

To establish his administration, Phil is seeking hams with an active interest in promoting ham radio through operating practice, traffic handling, technical assistance, club support, emergency response, public relations, youth activities, and other avenues. Contact Phil at: k9hi@arrl.org.

Congratulations To Bob

Bob Salow, WA1IDA, has been elected Chair of the Massachusetts Voluntary Organizations Active in Disaster (MA VOAD). The MA VOAD is a coordinator of not-for-profit agencies that respond before, during and after disasters and other emergencies. MA VOAD is the point of contact for the Massachusetts Emergency Management Agency (MEMA) for voluntary agency support.

MA VOAD is derived from the National VOAD (comprising about 35 agencies), as are similar organizations in every state. As a member of MA VOAD, Bob is the Massachusetts delegate for ARRL.

Bob is one of the founders of BARC and was its first President. He is a member of the Executive Committee, and is BARC's public service coordinator.

SPARC Profile: Ed Hennessy, N1PBA

By Phil Temples, K9HI

This month we spoke with Ed Hennessy, N1PBA, of Medford. Many of you will readily recognize the name and call: Ed has served BARC as a two-term Secretary and a two-term President.

Ed was born in New Haven, Connecticut, but grew up in North Haven. He attended Notre Dame High School in West Haven. After high school, Ed headed to Providence, where he attended Providence College, pulling a double major in Psychology and Humanities. Later, Ed earned a Masters Degree in Applied Psychology from Boston University.

Following some odd jobs after school, Ed landed his present position at the Natick Army Labs. "The Labs have gone through several name changes, command changes, creations and mergers," Ed explains. "Informally, we're known as Natick Army Labs, but officially we are the U.S. Army Natick Soldier Center, which is part of the U.S. Soldier Biological and Chemical Command." A twelve-year veteran of the Labs, Ed is an Engineering Psychologist. "I do human factors/ergonomics research for the product developers who design clothing and individual equipment – anything that is non-food, non-weapon."

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Ed's work is both varied and rewarding. "The thing I'm most proud of is the work I did on the Army Ranger Body Armor. I was the sole human factors person on the team." He adds, "The equipment is currently in use in the field by every Ranger in the U.S. Army." A big component of Ed's work requires travel to the field. "I recently visited the FBI Hazardous Devices School in Huntsville, Alabama. It was pretty cool to watch as the people participated in bomb disposal training. It's important for me to try and get the background on how an item is actually used."

Radio has been a part of Ed's life even as a youngster. "I've been interested in radio nearly all my life in one way, shape, or form, starting with the \$5 transistor radio I kept hidden under my pillow well past bedtime!" Ed says that he enjoyed listening to CBS' Mystery Theatre on a local AM station. "Later, I made friends with another guy in high school who was equally interested in AM broadcast band DXing." Ed recalls many of the call signs of the "big gun" broadcast stations that he listened to regularly: WKBW, CKLW, WWWE, and WLS, to name a few. His best DX accomplishments include PJB, in the Netherlands Antilles, and HCJB, Ecuador. "Unfortunately, I didn't discover the concept of QSL cards until years later. Otherwise, I would have had a very nice collection."

Radio continued to play a prominent role in Ed's life during college. He was very active with the local college FM station. "I did just about everything – from broadcast engineering to directing news to programming. I also had a classical show and a jazz show." Ed recalls his involvement in purchasing the radio station's new antenna, and calculating the gain. "I was one of the few students who was allowed access to the roof of the building – it was a women's dorm!"

While in college, Ed interned at WLKW-AM. "I ran the reel to reel tapes of 'beautiful music'." Ed's stipend for the work was a gift certificate he used to buy a scanner. "I bought a Bearcat 50XL. I took the scanner with me to grad school, and I listened to it to blow off steam. One of the things I picked up was the Waltham 146.64 repeater. I remember wondering, 'What's a traffic net?' I was interested in ham radio, but there just weren't enough hours in the day to get involved. Plus, I thought, 'I need to learn Morse code.'"

Fortunately, Ed found time after school to revisit Amateur Radio. Ed's interest was rekindled by a particular communication he saw. "I recall a message thread on the old BBS, *CityNet*. Several people

were giving words of encouragement to a woman who was working on her license." [This writer recalls the message thread in question; the woman was Sharon Gartenberg, KC1YR.] Soon after, Ed participated in the BARC Technician class taught at Wentworth by Mike Ardai, N1IST. At that class, Ed also met another active mentor and teacher, Lajos Gergely, AA1BW (also HA0DR). "I recall Lajos encouraging me to try the General written exam. I said, 'All right, what the heck?' I passed! Of course, now, I could kick myself for not studying the code."

Ed bought a used Icom IC-2AT at Ham Radio Outlet, and started checking into the traffic nets. Not long after, a certain club president named Phil Temples tapped Ed to become the club's Public Relations Chair. "You're the one who is responsible for getting me to do PR for the club," remembers Ed. "That's not a bad thing, either." Ed put his talents to good use, writing press releases for BARC VE sessions and meetings. Later he served as secretary – then, two more years – this time as president. In 1995, Ed was tapped to serve as the ARRL Eastern Massachusetts Public Information Coordinator, a position he still holds at present. As PIC, Ed planned and organized a meeting/workshop of Public Information Officers at the Mass. Emergency Management Agency "bunker" in Framingham.

In the fall of 1996, Ed's work required that he travel to Hungary to see how certain equipment from the Labs held up in the field. "We were issued standard equipment, and we were processed like any other soldier." Ed jokes, "Now I know first hand why the Warsaw Pact soldiers were so unhappy during the Cold War – we had to stay in their barracks!" Ed recalls that he nearly had an opportunity to visit HA0DR. "Unfortunately, we were on opposite ends of the country. But Lajos and I did correspond via email; he told me what to expect in terms of local conditions."

Ed is primarily interested in operating in public service activities. "I would like to get back into traffic handling, and also on HF." Ed adds that he had a great time operating the low bands during the past two Field Days. "It was great to turn the beam, and see who and what we could hit. I recall one contact I had with a station in Puerto Rico. You had to pry me away from the rig."

"People become upset about change in Amateur Radio. But things will change – change is inevitable," remarks Ed. "It's up to all of us to use our resources to the fullest extent. If we don't, someone else will." He adds, "There's something in ham radio for everyone. If we remember that, we'll be okay – regardless of what new technologies crop up."

NE Packet Radio Network Changes

Tadd C. Torborg KA2DEW

There is an Amateur Radio packet network that has existed in our area for about 13 years. It lets a ham with a 2-meter radio make a connection to another ham at a distance of hundreds of miles to exchange text messages and data. We use it for DX spotting, e-mail and bulletin traffic, national traffic system, round table chats, weather instrument messaging, and many other applications. Our

packet network is kind of like the Internet except that it is done entirely over ham radio, by hams, and it is quite a bit slower. The hardware and software that are used on packet are much simpler and we hams can go look at the network architecture and play around with it. We can even add to it. It's rather inexpensive to do so. We can also use the network from our portables or leave our home stations connected into the network 24 hours a day.

There are a couple of hundred backbone node sites in the connectable network ranging from Erie PA to Montreal to Baltimore to Boston. These sites make up the backbone of the packet network. The nodes are connected via dedicated point-to-point ham radio links on 51Mhz, 223Mhz, 420-450Mhz, and higher frequencies.

This article isn't about what exists now. It's about what is happening to it. In short, we're going to be using a new software package to run our network node sites.

Up until 3 years ago the network nodes were all running a software package called TheNET. TheNET sits in a TNC. That's the same TNC that makes up a home packet radio station. A TNC is a rather dumb device compared to the state of the art desktop computer. Heck, a TNC is a rather dumb device compared to a desktop computer of the early 1980s! TheNET suffers from the limitations imposed by the tiny amount of memory and computing power available in a TNC.

In the late 1980s a German ham Gunter Jost, DK7WJ, created FlexNet along with what is now known as "The FlexNet Group". FlexNet is much more powerful than TheNET. In the US we run FlexNet on 80386 based PCs using the TNCs as dumb modems, a task they are well suited for. FlexNet is compatible with current packet stations and will require only a minor amount of learning on the part of the users to take full advantage.

FlexNet allows many more sites to be in the network and to be visible from the other sites than TheNET. It makes connections much faster than TheNET and when a connection is not going to work, makes it much more obvious much sooner. This improves the user experience. FlexNet automatically performs routing and chooses fallback paths so the network survives outages better. Powerful features are available including Polling user ports, route tracing, searching for users cross multiple nodes, and even HTTP when used with MSWindows95. TCP/IP operation over FlexNet is much easier and takes no intervention on the part of the node operators to add users.

The important thing about this article is the change that is happening. I'm one of the principals behind the K1TR packet node in Windham. We have 8 radios providing packet network support at the site, linking to Andover MA, Concord NH, Chester MA (in the Berkshires), Kingston NH, Nashua NH, a DXCluster, the TCP/IP repeater in Marlboro MA, and a 2 meter user port. As I type this, Thanksgiving Day, only one of the sites that K1TR links to is running FlexNet. That's the node in Chester MA. Our site, K1TR in Windham, is running both FlexNet and TheNET. Since

we're in the process of changing the site, it becomes interesting (hopefully not difficult) for the users of our equipment because they have to figure out what's going on as we slowly migrate equipment to FlexNet. Since our neighbor sites in New Hampshire are not yet running FlexNet, in order to connect to or from those sites and K1TR, you will have to manually connect from one network to the other. This isn't difficult. A little poking around will lead you to the information you need. Try the I command on the FXWNDM node or on the FlexNet node to get help.

Since the K1TR site is the first node site in New Hampshire (or even in the Boston Metro Area) to use FlexNet we're sort of early adopters and are feeling our way around. Limitations of print media will make it difficult for me to keep you updated as to the current situation at the node site. I can only offer you clues and guidelines as to what we *intend* to do. There are a few things we can regard as solid.

1. We'll do our absolute best to not lose any connectivity on or through the site at all, at any time.
2. We'll try to make it easier, not harder, to use the network for all users and all services.
3. There will be a node in the TheNET network called FXWNDM:K1TR-13. From there you can reach the K1TR FlexNet node. Use the I command on FXWNDM to find out how.
4. Connecting to K1TR-1 on 145.07 will get you into K1TR node. Once K1TR-1 is converted to FlexNet, you will get a welcome text that gives clues to other late breaking info including how to connect to K1XX DxCluster.

For more information on FlexNet, packet radio networking in general, technical and user info, point your web browser at <http://www.packetnetwork.org/k1tr>
You can connect to my packet station on 145.07 or from the K1TR node. Beep wildly but not after 10pm. Thanks.

73 de Tadd/KA2DEW
Amherst NH
ka2dew@torborg.com

BERT Needs More Hams

Arthur Ashley, N1NHZ, is looking for one or more hams in the Boston area that could help him with the Boston Emergency Response Team. He is currently the director and would especially like to have a deputy director. This is a fine opportunity for those interested in emergency preparedness. If you can help, please contact Arthur at 617.661.2988, or his e-mail at n1nhz@arrl.net

BARC Monthly Breakfast

Every month, BARC has a social breakfast on the second Sunday of the month, which is January 14 next month. We'll be meeting at the Old Country Buffet at the Watertown Mall at 8:30am.

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Details at

WWW.SOLDER-IT.COM

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QSLs On The Web Contest
Box 20100 Cleveland, OH 44120

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!

December General Meeting (Not!)

The BARC Holiday Party replaces this month's general meeting on Thursday, December 21 at Tin-Tin's in Brighton. See you there!

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.

Future General Meeting Dates

(Third Thursdays at 7:30 p.m.)

18 January 2001
15 February 2001
15 March 2001
19 April 2001
17 May 2001
21 June 2001

BARC Runs Friday Night Nets

The Boston Amateur Radio Club runs special interest nets every Friday evening at 9p.m. on the 145.23 machine. The net will switch to a new format in October. Each Friday of the month, the net will be devoted to a specific activity/interest.

1st Friday - SATERN (Salvation Army Team Emergency Response Net);

2nd Friday - Weather Net;

3rd Friday - ARES net;

4th Friday - Tech Net;

5th Friday - All or some of the above.

All BARC members and other members of the Boston area Amateur Radio community are welcome to check in and participate.

Boston Amateur Radio Club Business Meeting

7 December 2000

Recorded by Guy Bzibziak, KB1CRY, BARC Secretary

Present were:

Mike Ardai, N1IST

Arthur Ashley, N1NHZ, Membership Services, ERT Leader

Leo Burke, KA1LN

Guy Bzibziak, KB1CRY, Secretary

Paul Carter, N1TMF, SPARC Editor

Bob Cassell, N1ENS

Jim Clogher, N1ICN, Treasurer

Mike Coffey, KB1EZZ

Dick Doherty, KA1TUZ, Vice-President

Mark Duff, KB1EKN, President

Ed Hennessy, N1PBA

Dan Malloy, KA1RDX

Paul Olivieri, N1ZKR

Bill Ricker, N1VUX

The meeting was called to order at approximately 1832hrs.

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

It was decided to start the general meeting on 18 January 2001 at 7:00pm, instead of 7:30pm, in order to allow people a chance to socialize after the meeting.

There is a possibility of having the Business meetings being held at a different location starting in February.

The club is looking for presentation and display materials to be used in setting up an informational display about BARC and Ham

Radio when the club has a booth at events (e.g. Field Day, Airport Expo, WGBH Ice Cream Fun Fest, and so forth). Donations of surplus equipment are welcome. Contact Mark Duff, for further details.

The 2001 membership applications have been printed, and will be sent out in the next SPARC.

It was noted that Field Day is coming, and that it would be good for the club to have a ``HF Day or Night" event that was separate from Field Day. Further details to follow.

Bill Ricker, N1VUX, reported on the success of the November 4th SET (Simulated Emergency Test), insofar as the participants were concerned.

The Friday night ``SWAT" [SATERN, Weather, ARES & Technical] net continues to be a success, with the ``Tech" portion comprising a major segment each Friday

The BARC Holiday Dinner will be held on 21 December, in place of the December general meeting. It will be at the TinTin Buffet (located at 200 North Beacon St. Brighton MA). Just \$8.95 (plus tax) per person. All are welcome - no need to reserve a space (but it would be good to let Mike Ar dai (n1list@arrl.net) know if you are coming.

Also, it was suggested that if you *are* attending, bring your membership badge! Hams may recognize the voice, but not the Ham ``in the flesh".

There are now *two* Boston Amateur Radio Club Repeaters:

2m	145.230 (-)	PL 88.5	W1BOS
70cm	447.175 (-)	PL 110.9	WN9T

In case of inclement conditions, announcements concerning the delay or cancellation of BARC events will be transmitted primarily on the '23 machine, then on the 70cm machine.

The meeting adjourned at 2000hrs.

The Boston Amateur Radio Club holds its monthly Business meeting on the first Thursday of each month. The next one will be on Thursday, January 4, 2001 in the food court of the Cambridge Galleria Mall in Cambridge. We meet at 6:30pm in the lower level, down by the windows facing the lagoon.

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.)

4 January 2001
1 February 2001
1 March 2001
5 April 2001
3 May 2001
7 June 2001

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 long lost members who rejoin, so greet them, too.

Dave Ladd

In addition, we would like to note here any call sign changes you have made, and honor all members who upgrade. 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.

ARRL Likely To Increase VE Fee

Following FCC rules changes, Volunteer Examination Coordinators (VECs) are permitted to raise exam fees to more closely track expenses. The ARRL is likely to raise the exam fee to \$10.00 starting 1 January 2001. Confirming details will be published as soon as they are available.

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, January 8, 2001 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 (Novice 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).

The needed FCC forms will be provided.

For further information, contact
 Bob Wondolowski N1KDA
 (508) 865 5822
wondobob@juno.com

Future Exam Dates

(Second Mondays at 7:00 pm)

12 February 2001 (*possible change*)
 12 March 2001
 9 April 2001
 14 May 2001
 11 June 2001

I See the Future

21 Dec	BARC Holiday Party
1 Jan 2001	Real Millennium Begins
4 Jan 2001	BARC Business Meeting
8 Jan 2001	BARC VE Session
14 Jan 2001	BARC Breakfast
18 Jan 2001	BARC General Meeting
25 Mar 2001	Framingham ARA Flea
15 Apr 2001	MIT Flea
16 Apr 2001	Boston Marathon

(Rp) = Repeater 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.

Emergency Communications Course Site Moved

From *ARRL Letter*, 15 Sep 2000

The Emergency Communication (EmCom) Certification pilot project outline and related materials have been moved. The new URL is <http://home.earthlink.net/~w0ipl/emcom-rd.htm>. If you experience any problems with the new URL or have any other questions or concerns, contact ARRL Certification Specialist Dan Miller, K3UFG, k3ufg@arrl.org; or call 860-594-0340. Miller

says the program is proceeding on target, and Part 1 of Level I is expected to debut in late October.

New Emergency Communications Web Page

From *ARRL Letter*, 8 Sep 2000

An "Emergency Communications" web site now is available at <http://www.arrl.org/field/emergency/>. The page provides a ready-reference web site with links to the latest ARRL bulletins, the *ARRL Letter*, and weather reports as well as to other Amateur Radio organizations active in emergency operations, such as the Hurricane Watch Net, the Salvation Army Team Emergency Net (SATERN), and SKYWARN. There's also an Emergency Communications "Q&A" section, and a link to contact various ARRL Headquarters personnel during an emergency. Other linked resources include the *Net Directory*, IARU member societies, ARRL field leadership and a club-search.

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@pvetronics.com or 617.232.6982; or Bob Salow at walida@arrl.net or 508.650.9440.

Monday is an awful way to spend 1/7th of your life.

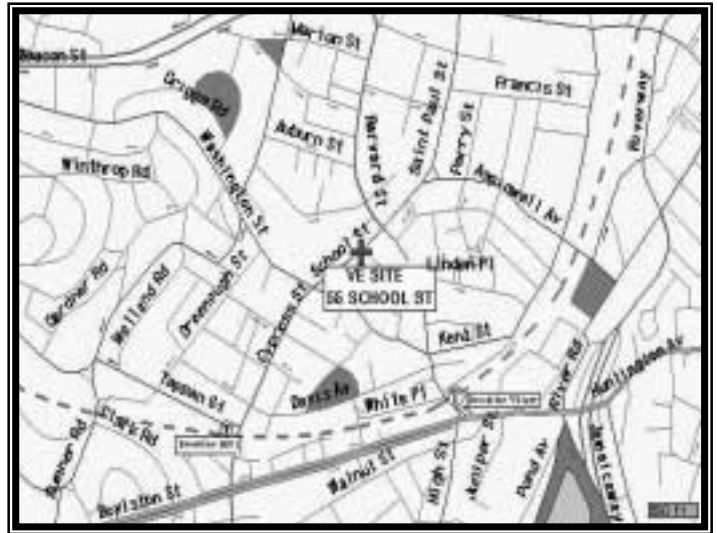
It may be that your sole purpose in life is simply to serve as a warning to others.

Eagles may soar, but weasels don't get sucked into jet engines.

There are two theories to arguing with women. Neither one works.



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; emgmgt@mediaone.net
Vice President: Dick Doherty; KA1TUZ	617.969.4880; ka1tuz@gis.net
Secretary: Guy Bzibziak, KB1CRY;	781.321.1104; kb1cry@arrl.net
Treasurer: Jim Clogher, N1ICN,	617.364.4658; n1icn@gis.net
Vol Exams: Bob Wondolowski, N1KDA;	508.865.5822, wondobob@juno.com
Mike Ar dai, N1IST	n1ist@arrl.net
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@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 W1ME (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
F 9pm	SWAT (SATERN, Weather, ARES &Tech) Net	145.23 (PL 88.5)
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 Newline)	145.47
Su 9:30pm	EMA Section ARES Net	146.61 and all MMRA links
(4 th Sun. of Month)		