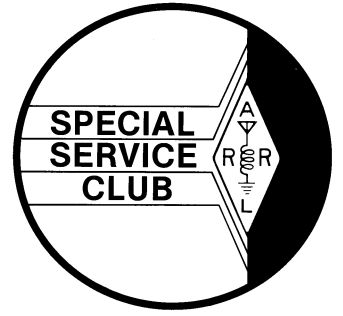




The SPARC

Volume XII, Number 2; February 2000
Newsletter of the Boston Amateur Radio Club
<http://www.barc.org/barc>



Our President Speaks

Ed Hennessy N1PBA

It appears that license restructuring has caused a lot of activity among hams, both in studying and at VE sessions. The new question pool is due out soon if its not done already and it will go into effect (along with the other changes) on April 15. The sole code requirement is now 5 WPM. You'll still need to pass a series of exams in order to work your way through to the highest classes. Details are available on the ARRL website (www.arrl.org) on the FCC ruling, the new classes, the question pool, and anything else you may want to know about license restructuring.

We've had a pretty mild winter, with no callups to date for emergency communications due to snowstorms. It's best, however, to be prepared. With that in mind, BARC and the Salvation Army Team Emergency Radio Net (SATERN) will be cosponsoring an ARES workshop on February 12. It's an all-day affair covering all aspects of ARES, and is highly recommended. The workshop is open to all hams that wish to attend. Details are elsewhere in the newsletter.

One additional way to prepare yourself to help in the case of emergencies is to act as net control station. Practice for that is as near as the next BARC net and your HT. We're always looking for BARC Net control stations, and you don't have to be a club member to act as net control. It's an easy, laid back net, making it easy to get a feel for net control operation without the pressure of an emergency situation on top of that. If you're listening to the repeater and it's more than a minute or so past 9:00 PM, go ahead and start the net. If you don't have a preamble handy, go ahead anyway. Wing it! (Ed. But the net preamble is in every copy of the SPARC) Mike Ardai, N1IST, is net

manager for the BARC net; contact Mike during the net or at any time to sign up for net control.

Also fast approaching is the public service event season. The BAA Boston Marathon is coming up, and those who have participated in years past have received details on that. There will be several other events coming up throughout the spring. Please consider helping out. Details will be forthcoming on the BARC Net and in the SPARC.

And finally, if there's something you want to see us do, please speak up, and we'll do what we can to get it going for you...

73 de Ed, N1PBA

ARES/RACES Training

Michael S. Koenemund, KB1CKF

The Boston Amateur Radio Club and the Salvation Army Team Emergency Radio Network are sponsoring a ARES/RACES Class on Saturday February 12, 2000 from 0900hrs to 1500 at The Salvation Army State Headquarters located at 147 Berkeley St Boston (at the corner of Columbus Avenue.) Parking is available off of Columbus Avenue opposite the Fire Station and this location is T accessible (Orange and Green Lines).

Topics to be covered will be Emergency Communications Kits (Go-Kits), Traffic Handling, Net Control, Incident Command and much more. Lunch will be available or there are many restaurants within walking distance. Pre-registration is not necessary, but would be nice in order to plan for ample room.

Please call KB1CKF at 617-338-4155 x513 or E-mail at satern@qsl.net or Packet at kb1ckf@ka1tuz.fn42jh.ma.usa.na to pre-register for this great event

Technician Amateur Radio License Class

Michael S. Koenemund, KB1CKF

The Boston Amateur Radio Club and the Salvation Army Team Emergency Radio Network are sponsoring a Technician license class at The Salvation Army State Headquarters 147 Berkeley Street, Boston. Parking is available off of Columbus Avenue opposite the Fire Station and this location is T accessible (Orange and Green Lines). The Class will run from March 6-27, 2000 Mondays and Wednesdays 1830hrs-2100hrs. We will be using the book Now You're Talking available at you local Radio Shack or it will be available the first night of class.

Call Mike, KB1CKF at 617-338-4155 x513 or E-mail at satern@qsl.net or Packet kb1ckf@ka1tuz.fn42jh.ma.usa.na to register for the class. Tell your friends

The 2000 Boston Marathon

Bob Salow WA1IDA

This notice is earlier than it has been in the past. Because of the millennial year (starting or ending the millennium – your choice), the Marathon field is being enlarged. It will be 50 percent larger than in recent years, but not as large as the 100th running in 1996. Our ham radio operation along the course has been asked to increment as well. There's no question that our performance has benefited the runner safety and strengthened the administration of the event.

Aside from the athletics and the competition, the Boston Athletic Association (BAA) has created one of the safest and user-friendly events of its kind in the world. It takes months of planning and over 7000 volunteers to make it so each year. More than 200 hams contribute time and skills

toward a small, but vital, part of this classic event.

The Boston Amateur Radio Club has been asked to coordinate hams for emergency communications along the 26-mile course on Monday, 17 April 2000. In recent years about 130 hams from all over New England (and beyond) have turned out, but for 2000 we have even greater responsibilities to support safety and comfort for the runners and spectators. If you have not received the registration papers by the time you are reading this, contact Bob Salow, WA1IDA **at once** (see below).

The BAA has asked for each ham serving at the Marathon to have at least minimum experience in ham radio public service or emergency communications. This experience can be gained by participating in a public service event before the Marathon on 17 April 2000. The Marathon is an exciting and intense day, so duty at other events can serve as a lower key introduction. Because of an accumulation of changes in the past few years, all ham volunteers will be asked to attend one of the briefings we will hold from mid March through early April.

Whether you have volunteered before or you're new and haven't done it before, your help is needed for the 2000 Boston Marathon course. You will have a great time. Get the registration form back to the BAA promptly.

To get your ball rolling, send Bob your name, call sign, mailing address, evening and day phone numbers, and e-mail address. To reach Bob:

walida@arrl.net

(508) 650-9440

PO Box 3773
Natick MA 01760-0030

Yes, you will have a great time, but you can help now by acting NOW.

Bring Ham Radio to 3000 Kids and Teachers

Bob Salow WA1IDA

Once again, BARC will present the service and hobby of ham radio to over 3000 students from Greater Boston. They and their teachers will attend the Aviation Expo on 11 April, filling a hangar at Logan International Airport. The Expo gives the students a chance to experience the choices and preparation for careers in aviation, communications and technology. It is sponsored by the Federal Aviation Administration (FAA), the Massachusetts Pre-Engineering Program (MassPEP) and MassPort.

BARC uses a double-size booth at which we demonstrate and explain several facets of ham radio. We have the opportunity to meet with the teachers and their students who range in age from 8 to 18. In past years we have found a significant interest in ham radio not only as a hobby, but also as career preparation and as a teaching tool.

Your help is needed to set up and staff this presentation. Our support runs from 0730 to 1230 on Tuesday, 11 April, and is followed by a lunch. Please contact Bob Salow, WA1IDA, at **walida@arrl.net** or 508.650.9440 if you can assist.

It's Time to Renew

The BARC membership year runs with the calendar year. That's why most of you will find a renewal membership form enclosed with this issue of *The SPARC*. We know it's a trying time of year (trying, that is, to get rid of the 1000 pounds of turnips you socked away for Y2K), but think of the Treasurer and his volunteer staff who need to keep the books up to date. You can help by renewing your membership promptly in the best club around. The membership form has all the information you need to act quickly. Please fill it out completely and legibly. Make an effort to determine your full 9-digit ZIP Code – it can save us money.

To avoid consternation and embarrassment, we are trying to send the form only to those who have not renewed. If your renewal has been entered by the newsletter mailing date,

you should not get another form. Please understand that there are delays in processing, so there may be an apparent error. You can use extra forms to sign up a new member.

ARRL Membership and Renewal

If your ARRL membership is coming up for renewal, please do so through BARC. Your ARRL membership dues remain the same, but the club gets a small income from your renewal. If you are joining the ARRL for the first time, sign up through BARC. In either case, **make your check out to BARC** and give it and the ARRL membership form to the BARC Treasurer. He will handle the rest, and you will get all the benefits of being a member of ARRL, The National Organization for Amateur Radio.

Club Officers Needed

BARC will elect our club officers, President, Vice President, Secretary and Treasurer, at the June 2000 meeting. It is not too early to think about running for office, or persuading others to run. We don't have officers for life here, so you have the opportunity to put your ideas for running the club into practice. Responsibility and fame (if not fortune) are there for the willing! Think about it.

BARC Looking for Field Day Coordinator

Every fourth full weekend in June, Amateur Radio operators in the United States and Canada hold Field Day. This is a combination emergency communications exercise, publicity event, contest and social event in which we set up our stations "in the field" under less than optimal conditions, and try to communicate as best we can.

BARC always has a good Field Day; we set up several tents at Larz Anderson Park in Brookline and operate the entire time. We need a volunteer to be our Field Day Coordinator for 2000. This, as the name implies, involves coordinating the activities of the other BARC Field Day volunteers in the weeks leading up to Field Day and at the event itself. If this sounds like fun to you, please step up and contact Mike Ar dai

N1IST. You won't be doing all the Field Day work yourself, but someone has to see that we're all on the same page.

BARC Monthly Breakfast

Every month, BARC has a social breakfast on the second Sunday of the month, which is February 13 next month. We'll be meeting at the Old Country Buffet at the Watertown Mall at 8:30am. They are *very* good, offering an extensive breakfast buffet, costing \$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, 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!

VE Needed for 2/14 Session

We still need one VE for the February 14 VE session. I really don't want to cancel this one since so many people are planning to shop up to upgrade.

Please let me know if you can help.

Mike Ardai N1IST
n1ist@netcom.com

Database Help Needed

With the growth of the club, the BARC membership database needs a major overhaul. If you are experienced in structuring and creating in Microsoft Access, please contact Bob Salow, WA1IDA. Phone: 508.650.9440, or email: walida@arrrl.net.

February General Meeting

This month's general meeting will be held at the Boston Back Bay Salvation Army Building, at 7:30 PM, Thursday February 17, 2000. Our president, Ed Hennessey N1PBA will speak on radio and frequency usage in today's military, and what some of the new up-and-coming stuff is that may affect spectrum usage.

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 6 of the newsletter.

Future General Meeting Dates

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

16 March 2000
27 April 2000 (**not 20 April**)
18 May 2000
15 June 2000
20 July 2000
17 August 2000



"Sorry about the noise, I tripped...anyway, the name here is Roy...I am located near downtown Chicago, and I've been a ham now for 20 years..."

Book Review

Michael S. Koenemund, KB1CKF

I recently received the cartoon book, NOUJR and his Friends, By Greg Trook, in the carton with a piece of equipment I bought off of Ebay. I began reading this cartoon book when I got it, and found a lot of the cartoons fit a lot of the people in the club (Especially *name censored by editor!*) It is a welcome dose of comedy in Ham Radio. This 112-page book will have you laughing and seeing which of your fellow hams fit each cartoon Greg has drawn. You can find the NOUJR Cartoons Web site at <http://incolor.inebraska.com/n0ujr> (Ed.: The samples Mike sent me look kinda Far Sideish to me – good stuff!)

Minutes of the Boston Amateur Radio Club Business Meeting

February 3, 2000

Recorded by Michael Ardai, N1IST, BARC Secretary

Present were:

Mike Ardai, N1IST, Secretary
Arthur Ashley, N1NHZ, Membership Services
Paul Carter, N1TMF, SPARC Editor
Bob Cassell, N1ENS, Executive Committee
Jim Clogher, N1ICN, Treasurer
Dick Doherty, KA1TUZ, Vice President
Mark Duff, KB1EKN
Joe Fratto, N1RLO
Kathy Fratto, KB1DOV
Paul Katz, N1LRT
Bill Ricker, N1VUX
Julio Roque, KB1EPK
Bob Salow, WA1IDA, Public Service

The meeting was called to order at approximately 1835

Thanks to everyone who has already renewed and to those who have added a donation to their renewal.

People who haven't renewed by the March business meeting will get a renewal letter instead of the SPARC.

The April general meeting will be postponed one week to 4/27.

There will be an all-day ARES training session in Boston on February 12th. Keep an eye on the SPARC for more info.

Hams who helped out with the Y2K effort at the Cambridge EOC received a very nice thank-you.

Mark, KB1EKN, is working on an emergency operations guide.

We need to find one more VE for the February session. All ARRL VEs in the club should let N1IST know so we can build up a resource list.

There will be some changes to the boilerplate on the last page of the SPARC so we can make the maps a bit larger.

We need to figure out what our plans are for Field Day next year - should we do it, how seriously, who can coordinate it... Come to the next business meeting if you are interested.

The Aviation Expo will be a month earlier this year - on April 11th. The MS walk will be on April 9th.

We will be running a Tech class at the Salvation Army on Mondays and Wednesdays, 3/8 - 3/27, 1830 - 2100.

Several club officers will not be running for reelection next year. We need to start finding people interested in running for office.

Marathon 2000 will be April 17th. Recruiting flyers went out on 1/6. This year, all volunteers will have to go to one of many briefing sessions. 100 people have signed up; we need 50 or so more to sign up ASAP. At this point, send sign-up forms to WA1IDA instead of the BAA.

There was some reorganization in the ARES arena due to N1QIR leaving the area.

The meeting was adjourned at approximately 2030.

The Boston Amateur Radio Club holds its monthly Business meeting on the first Thursday of each month. The next one will be on Thursday March 2, 2000 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 Monday at 6:30 p.m.)

6 April 2000

4 May 2000

1 June 2000

6 July 2000

3 August 2000

Editor's Notes

Paul Carter N1TMF

I've always seen the SPARC as the newsletter of record for BARC, and to a lesser degree as the newsletter of record for the greater Boston Ham community. This local view that I've taken as SPARC editor has had a couple of effects.

I'm always pleased and grateful to anyone who takes the time and trouble to send in anything for the SPARC. So, you might be asking, why didn't you run the piece I sent you from the East Bogusville ARC mailing list? The simple reason is that I far prefer to run material that is either written by BARC members or is of great import and interest to them. KZ7ZZZ of the EBARC may have had some interesting things to say, but the voices of BARC members are more to the point for us. There is also, of course, the matter of the editor's laziness in not asking for reprint permission in time to make the SPARC's deadline! I know that some members have plenty to say - I hear them on .23 for hours on end! So how about putting pencil to paper or fingers to keyboard and preserving your wit and wisdom for posterity.

After some discussion at the last business meeting, I've removed some nets from the SPARC Net Directory and renamed it the Greater Boston Net Directory. This has been done to free up some space on that page. Most of our members live inside 128, so removing nets on repeaters that are difficult to impossible to hit from inside 128 seemed

rational. We do not mean to slight the clubs and nets that we are no longer listing, and we intend to keep on publicizing their nets on an expanded net directory on our web site.

Too much has already been said about license restructuring, but I've got to say my piece now. I am greatly encouraged that the FCC explicitly recognized the Amateur Radio Service as a *technical* service. We've fallen behind the rest of the communications world here. While the commercial, utility and military communication services have been embracing advanced digital and spectrum saving modes, most of us hams have been stagnating in high-speed CW and simplex or half-duplex fixed frequency voice modes. Of course, we are not *just* a technical service. Those hams that specialize in emergency communications are justified in using tried and proven modes over new and experimental modes. For them, CW and simple phone is fitting and proper.

If the rest of us use the liberalized paths to HF privileges *only* as an easy path to phone chatting or DXing, then we will have thrown away another opportunity and failed Ham Radio. These are exciting times for digital radio communication - powerful computers being so cheap and easy to use. New digital modes such as Clover, PSK31 and Hellmode promise an easing of the band congestion and interference that will only increase as thousands of new HFers take to the air. It seems that most of the work on the new digital modes comes from European Hams. Good for them, but I'm sure that anything they can do, we can do better - *if* we try.

Come April 15, all of us new Generals and Extras will have to try DX phone. After having done it, I hope to hear a lot of you regularly on 30M digital rather than 20M or (gasp!) 75M phone. It's the smart thing to do.

I'm grateful to all that sent contributions and suggestions for improvement - keep those cards and letters coming in. I can be reached by email at n1tmf@pvcronics.com, snail mail at 11 Commonwealth Court Apt#15, Brighton, MA 02135, and most if not all BARC club nets and general meetings.

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.

Mark Horenstein WA1GIO
Kevin Paetzold K1KWP

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: walida@arrl.net.

Upgrades 'R' Us

Without going into details, which are covered elsewhere, the FCC restructuring is likely to result in license upgrades for some of us. If you are one of the lucky (clever?) ones, please keep our database up to date. *Regardless of whether you change call sign, an upgrade is an upgrade.* Please notify the Keeper of the Database, Bob Salow, WA1IDA.

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, February 14, 1999 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, 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)
- \$6.65 (good for all the tests you take at that session, except for retests); Novice exams are free.

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)

13 March 2000
10 April 2000
8 May 2000
12 June 2000
10 July 2000
14 August 2000

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.

Net Volunteers Needed

The Eastern Massachusetts 2M Traffic Net, the Heavy Hitters' Traffic Net, and the BARC Club Net are always in need of volunteers to act as Net Control Station. This is excellent practice for emergency communications, and also an opportunity to sharpen your operating skills among a friendly group of people. For further information please contact Mike Ardaí N1IST.

BARC will give a free prize to the club member who first quotes this paragraph via mail to the club PO Box. First postmarked letter wins the prize.

I See the Future

12 Feb	ARES/RACES Training Program
13 Feb	BARC Breakfast
19 Feb	ARES Training Program
19 Feb	Algonquin ARC Flea (Marlboro)
6 Mar	Technician Class Course starts
11 Mar	Interstate Rptr Soc (Londonderry NH)
12 Mar	BARC Breakfast
12 Mar	Mt. Tom ARA Flea (Westfield)
18 Mar	Quonapowit RA Auction (Saugus)
26 Mar	Framingham ARA Flea
9 Apr	Multiple Sclerosis Walk®
11 Apr	Aviation Expo
16 Apr	MIT Flea
17 Apr	Boston Marathon®
12-13 May	Hoss Traders Flea (Rochester NH)
20 May	RIFMRS Flea+Auc (Forestdale RI)
21 May	MIT Flea
24-25 Jun	Field Day
26-27 Aug	ARRL NE Div Conv (Boxboro)

Ⓜ = 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.

Catch us on the Internet!

The Boston Amateur Radio Club has a web page at <http://www.barc.org/barc>. 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 `n1list@netcom.com`.

New on our web page are the club articles: <http://www.barc.org/barc/articles.html> and bylaws: <http://www.barc.org/barc/bylaws.html>.

We also run an FTP site at <ftp.barc.org> under `pub/hamradio`. We've got a mirror of the ARRL infoserfer, 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. To subscribe, send a message to `majordomo@majordomo.netcom.com` with the body (the subject is ignored)

subscribe barc-list

The welcome message will list the other lists that we have over at Netcom. (Yes, I know it isn't on the radio. It is, however, an additional resource for getting in touch with other hams around the world...)

73, /mike
`n1list@netcom.com`

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

Commercial advertising in the newsletter provides important services to our members. Besides bringing income to defray the newsletter production costs, you can learn about and patronize those who support us.

We limit the ads to electronics related businesses and to professional ads from members. Advertisers can display a business card size (3.5 x 2 inches) space for \$10.00 per month or \$48.00 for the same ad for six consecutive months. If camera ready copy is not provided, there may be an additional charge.

However, you play a part. Your effort as a member is needed to present the advantages to advertisers. Businesses and professionals can reach our circulation of over 300 in Greater Boston. Show your copy of this newsletter to businesses that should be looking for our kind of readers. For more information, contact Paul Carter at `n1tmf@pvtronics.com`, or Treasurer Jim Clogher via the club PO box.

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.

Three Amateur Radio Satellites Rocket Into Space

An Air Force Minotaur rocket lifted off right on schedule January 26 from the new California Commercial Spaceport at Vandenberg Air Force Base. Three Amateur Radio satellite packages were aboard. Two of the satellites already have been deployed and are said to be working. A third amateur picosat package will be deployed over the weekend.

The primary payload is the US Air Force Academy's Falconsat. JAWSAT—Joint Air Force-Weber State University Satellite—served as a bus for several deployable payloads and the Plasma Experiment Satellite Test experiment—PEST. The

telemetry stream from JAWSAT, including data from PEST, will be transmitted on Amateur Radio frequencies. Amateur Radio operators have been invited to contribute to the program by recording the downlinked data. Data from PEST will require using either a G3RUH modem or a GMSK modem. Data rates should be as high as 38.4 kb/s. Data will be transmitted on 437.175 MHz or 2403.2 MHz. NASA says it will publish instructions for sending in data so the PEST team can use it.

Hank Heidt, N4AFL, of the StenSat team said today that both JAWSAT and ASUSat appear to be working perfectly at this time, with telemetry indicating that all systems are reporting nominal performance. StenSat, which is a satellite within another satellite—OPAL—is set to be put into space this weekend, Heidt said.

ASUSat and JAWSAT have Amateur Radio capability, but the tiny, eight-ounce StenSat is strictly a ham satellite—designed by hams, for hams. It was developed by a group of amateur enthusiasts in the Washington, DC, area as part of Stanford University's OPAL project.

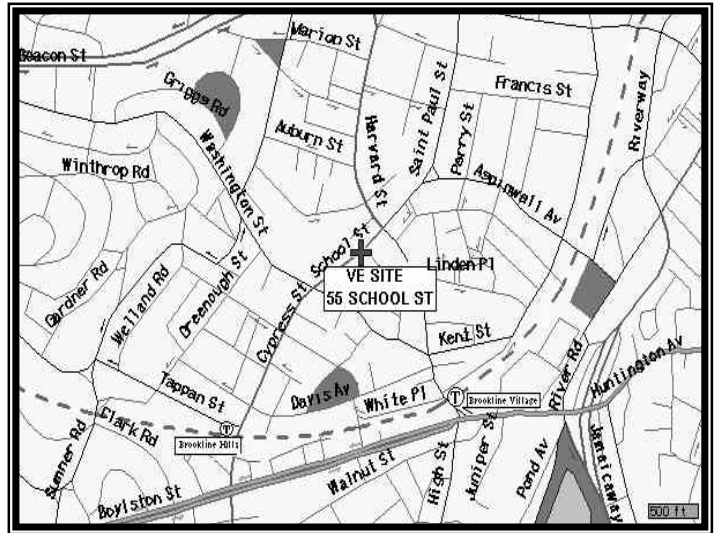
StenSat will operate as a single-channel Mode J FM voice repeater. The uplink frequency will be 145.84 MHz; the downlink will be 436.625 MHz. StenSat will periodically transmit 1200 baud AX.25 for telemetry. Additionally, amateur radio operators will be able to "ping" the satellite by transmitting a six-digit DTMF command to the receiver uplink. More information on StenSat is available at <http://users.erols.com/hheidt/>.

ASUSat will contain amateur packet hardware and a 2-meter/70-cm FM voice repeater. ASUSat1 is an ASU NASA Space Grant project and Arizona State University's first student-designed satellite. Information on ASUSat is available at <http://nasa.asu.edu/asusat/>.

From ARRL Headquarters
Newington, CT January 28, 2000



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

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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	146.67 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	SATERN 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 Newslines)	145.47