



The SPARC

Amateur Radio - Communicating Worldwide for A Century

Newsletter of the Boston Amateur Radio Club

Serving Hams in the Greater Boston Area

April 2018 - VOLUME 30, NUMBER 4

www.barc.org - w1bos@arrl.net



President's Message – Joe Harris, N1QD



When I first moved north of the Charles River in 2010, it took me almost six months to figure out a new HF antenna system. Previously, I had been an apartment dweller in the third floor of a wooden three-family house. My indoor wires three floors up were more than enough for me to get 48 states and the lion share of DXCC with low power, primarily on the digital modes. The new digs were on the first floor, so there was no way those wires were going to be as effective only five feet above the ground. The following spring I spent a long time at the Buddipole booth at Dayton, and a few weeks later a large package arrived at the apartment with a new Buddipole Deluxe and a few accessories. I had just enough room for the setup in the postage stamp of a backyard, and my landlord was supportive of me putting it up on the weekends. That setup helped me finish up WAS and DXCC, and even get on several contests (not competitively, of course). Life was good.

Fast forward a few years, and to a new apartment. After several months getting settled in, I dug out the setup and prepared for an afternoon on 15 meters (obviously, this was a few years ago). I was greeted with a wall of noise that ranged between S7 to S9++, clear across the entire band. When I re-tuned for 20, there was more of the same. In fact, I could hardly find a frequency that wasn't being blasted with noise. Discouraged, I packed up the antenna and wrote off HF at the new QTH.

A few months later, I repeated the experiment, but I took a more structured look at things. I had been using a new wall-wart for my rig / computer interface box, and this time I replaced it with a traditional power supply. The noise was almost totally gone! The wall wart went into the junk drawer for use with other (less noise-sensitive) projects.

Sometimes noise is easily identifiable, like this, but other times the source can be trickier to find. I hope that many of you will join us for this month's club meeting for W1HIS's RFI presentation, where Chuck will discuss ways to identify and eliminate noise sources.

Joe Harris, N1QD

BARC General Meeting · Thursday, April 19, 7:30 p.m.

The next BARC General Meeting will be on Thursday, April 19, 2018, at 7:30 p.m. at the Clay Center Observatory in Brookline. The speaker will be Chuck Counselman, W1HIS, who will talk about radio frequency interference (RFI). Directions to this location can be found on the web at <http://www.dextersouthfield.org/about/dexter-southfield-directions.cfm>.

Repeaters: 145.230 (-) CTCSS 88.5 in/100.0 out

Simplex: 147.420

449.175 (-) DMR CC1

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BARC's Online Discussion Group – Joe Harris, N1QD



BARC has an online forum at Yahoo groups. The Yahoo group serves as a sounding board for members to post their suggestions and comments, and is intended to foster discussion. The group can also be used to share photographs from club events! Come visit us at: <http://groups.yahoo.com/bostonARC>.

Member News – Joe Chapman, NV1W

Last month was a quiet one! Send contributions for this column to Joe Chapman, NV1W.

Chatham Radio – Harris Pitnof, WA1GXC

In 1914 Marconi Wireless of America, Ltd. commissioned the J. G. White Engineering company to construct a campus of brick buildings and a massive steel tower-and-mast array in North Chatham for transatlantic low- and medium-frequency radio reception.

The Great War intervened with completion of outfitting the receiving and transmitting sites. Under post-war U. S. Government pressure, American Marconi divested its interest in the business, and a new entity with American stockholders was formed—Radio Corporation of America. RCA completed Chatham and the Marion, Mass. transmit installations and in 1920 commenced point-to-point radio circuits to Europe (mostly business and press traffic). In 1921 RCA management presciently saw dollar-signs in the future of maritime communications and dedicated Chatham Radio WCC to sea-going radio traffic. Advertising WCC as “The World’s Greatest Coastal Station”, WCC remained in operation thru the mid 1990’s with superior equipment and hot-shot radio operators.

All original buildings at the North Chatham station site are still standing and the operating building, listed on the National Historic Register, is a fine radio museum. This season, hams from the WCC ARA are presenting one of the actual 1970-era 20kW HF transmitters, mostly restored to its operating condition. Please check out the Chatham Marconi Maritime Center website <https://www.chathammarconi.org/> for Spring-Fall opening info, and you may Google, “WA1WCC – Facebook” (need not sign-in to Facebook) to view dozens of photos of exhibit preparation.

20 Years Ago in *The SPARC* – Joe Chapman, NV1W

The April, 1998, general meeting was New Ham Night, welcoming recent graduates of BARC’s Technician class to the hobby — The National Weather Service announced an open house in Taunton at the end of May — Thanks were extended to fifteen hams who helped at the Multiple Sclerosis Walk — Waltham ARA needed an amplifier to use at the Marathon to replace one that *keeps melting* — BARC had 138 members, 35 on packet, 94 on email, and 31 on both — The FCC reeduced the vanity callsign fee from \$50 to \$12.90 — *And elsewhere, the Good Friday agreement on Northern Ireland was signed by the British and Irish governments.*

New England QSO Party, May 5 and 6 – Tom Frenaye, K1KI

This year’s New England QSO Party (NEQP) will be on May 5 and 6.

The NEQP is a great time to check out antenna systems and offers a moderately paced opportunity to work new states and countries. You’ll find a wide variety of participants, from newcomers to experienced contesters, all interested in making contacts with New England stations.

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We're working to make sure that all of the New England counties are active again this year and would appreciate your help. Get on for at least an hour or two and join in on the fun. Please let me know if you can put in any time at all so we can work on activity from the rarest counties. **Will you be QRV? Let us know which county you'll be on from with a message to info@neqp.org**

Oh yes, the NEQP is also *lots* of fun when mobile. Every time you cross a county line the action starts over again. It's amazing what a 100 watt radio and mobile whip can do.

The QSO Party is 20 hours long overall, in two sections with a civilized break for sleep Saturday night. It goes from 4pm Saturday until 1 am Sunday, then 9 am Sunday until 8 pm Sunday. Operate on CW, SSB and digital modes on 80-40-20-15-10 meters. For each QSO you'll give your callsign, a signal report and your county/state. Top scorers can earn a plaque and everyone who makes 25 QSOs and sends in a log will get a certificate.

Last year we had logs from 177 New England stations and 460 more from around the country and world.

The full NEQP rules are here: <http://www.neqp.org/rules.html>.

The 2017 results are posted and the results since 2002 are also available at <http://www.neqp.org/results.html>.

It's just about a month until the 2018 NEQP. Please make some QSOs even if you don't want to send in a log.

Membership Renewals for 2018 – Joe Chapman, NV1W

BARC memberships work on a calendar year basis, so most people will need to renew on January 1 for the coming year. The grace period for renewals ended on March 31, 2018. The regular tariff is \$25.00, \$12.50 for seniors 65 and over, and \$12.50 for additional family members living in the same house. Additional donations for the Repeater Fund are welcome and greatly appreciated.

Renewals may be made using PayPal on the club website, <http://www.barc.org>, via postal mail to Boston Amateur Radio Club, P. O. Box 15585, Boston, MA 02215, or by giving a check to any club officer.

Help Out at the Run of the Charles April 29 – Brett Smith, AB1RL

The [Run of the Charles](#) is one of the most unique public service events for hams each year. It's a series of canoe and kayak races for all different group sizes and course lengths. The variety draws all kinds of participants, and they all rely on us to help keep the event running safely and smoothly.

This year's Run of the Charles is on Sunday, April 29. The full 26-mile course runs from Riverdale Park in Dedham down to Artesani Park in Brighton. Assignment check-in times vary by location, from 7:00 am at far start points to 10:00 am at portages near the finish. Since the CRWA relies on hams for all kinds of logistics, from on-site check-ins to rules infractions, there's a position for volunteers at any experience level.

Volunteers for this event must have a dual-band (2m and 70cm) handheld radio and an antenna with improved gain over the stock rubber duck. These are necessary because many volunteer sites are low-lying areas where it can be a challenge to reach repeaters. If you can help, please write back with the following information:

- Your name and call sign
- Phone numbers where you can be reached (cell, home, office)

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- Details of the equipment you're willing to bring. Start sites that accept new registrations could benefit from a small field setup—think 10W+ and an antenna like a magmount or better. If you can bring that, please let me know.
- Your shirt size
- Do you have any needs or requests we should consider when making your assignment?

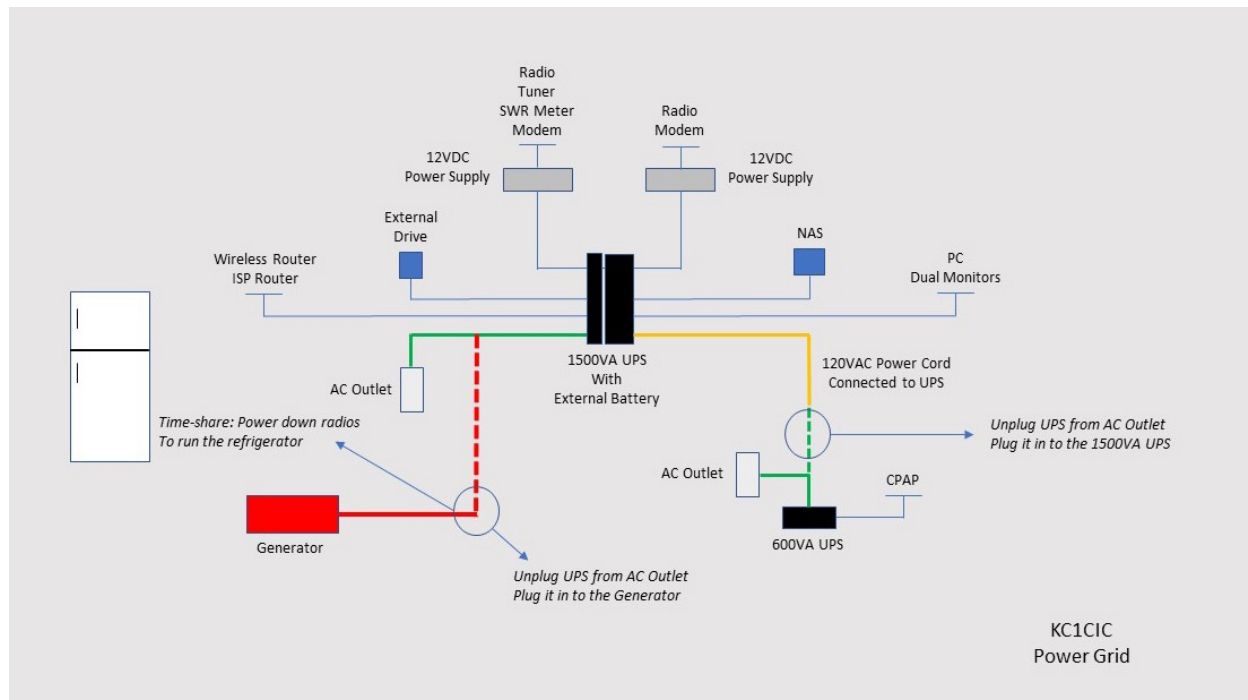
If you have questions about the event, please [get in touch by e-mail](#) or phone (859) 466 5915.

Gaining Experience and Confidence Through a Storm – Greg Bennett, KC1CIC

As I write this article we are going through our third storm in just a couple of weeks. Hull is again without power and I am running on the Honda 2000EUi generator that I purchased a few months ago for events like this.

The main focus of getting back in to radio has been learning and preparing to be ready for emergencies. That includes either hitting the road with a go-kit or getting my home station set up to handle relay operation from home. While we have not had a real-life ARES callup in many years, these past couple of weeks to me have been a real-life test of the training and preparation I have put in to emergency communications over the past several years.

I've written about the go-boxes I have built for on the road work but I have also put in a great deal of work in to my home station. My home station has evolved over the years with the goal of having multiple redundancies built in. For power my station can be run off of a beefed-up UPS, or a deep-cycle marine battery, or a generator, or a combination of these. These redundancies have now been storm tested and have worked out very well. Hull was without power for 51 hours last week not including the current power outage. The generator I bought has already paid for itself. I have not missed a single traffic net during this period.



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Anyone who knows me knows I am a huge fan of the National Traffic System (NTS). It always cracks me up when people say it is outdated. Nothing could be further from the truth! I operate daily using a variety of modes on different nets. Participating in the NTS directed nets has been one of the best ways for me to train and gain valuable experience that can be applied to net operations in an emergency. In any given day I may pass traffic via VHF voice or VHF digital packet, HF voice, CW, or Pactor digital communications. There are often times when I use all of these modes in a single day! Whatever it takes to get the message through.

One of the reasons working with NTS is important to me is because I work and learn from some very talented people. Working within a directed net (controlled by the NCS) and passing traffic effectively and efficiently takes practice, practice, practice. As NTS operates daily throughout the year the opportunity for practice is always there.

Taking the step up to become an NCS on a directed traffic net is an experience. You learn, fail, learn, fail, and over time get better at it. People on the NTS nets are always there to support you and tell you how to do it right or better. Over time I've learned to deal with a lot of unexpected issues in the various modes used to pass traffic. The easiest example to give to you is when repeaters and stations have problems communicating because of storms.

We run the 8:00 pm traffic net on the BARC repeater. As a result of the recent storms, home stations and repeaters have had issues. On the BARC repeater the other night it was very difficult to pass traffic because of the bad signals. As the NCS I sent two stations to the Sharon repeater because I knew they could both communicate on it (that comes from experience). When they were done they came back to the BARC repeater. I sent another two stations to the Whitman repeater for the same reason. In the meantime, traffic was being passed on the BARC repeater as well. These are the kind of situations that take place on emergency nets and situations that you would be expected to be capable of handling.

In CW (Morse Code) traffic nets the same thing happens. The NCS may send you up or down a few KHz to pass traffic and then come back. In all modes you deal with interference that requires skill and knowledge to get the message through.

As an NCS I am skilled, trained, and experienced in a lot of traffic handling situations. However, the nets could not be as flexible and successful as they are if the individual stations themselves were also not practiced at directed net operations. It's a team effort by all involved that makes it work because we all have the experience as a result of how often we operate. During the recent storms we passed many dozen pieces of traffic as a result of the training and practice. Had this been an emergency net life would have been pretty good!

Today was an example of VHF digital packet not working well, which it normally does. It was also an example of working the "problem" to get a message through. Scott KO4W was trying to relay packet traffic via the Brockton digipeater to the KW1U BBS. Due to the storm Brockton and KW1U could not "hear" each other well enough to pass traffic. To get around that, Scott who was in Scituate sent his messages via VHF packet directly to my BBS in Hull. Because I too could not connect to the KW1U BBS, I used HF Pactor to relay his messages to the KW1U BBS. When it came time for the reply, we did the same thing in reverse. We did this as a team, in the middle of the storm, on generator power, in under 30 minutes.

It wasn't a big deal for us because it was a situation we had tried out before. What if I try this, what if I try that? Having the opportunity to gain experience and knowledge ahead of an emergency is priceless. This was all done during the power outage as well.

My point here is not to push NTS on anyone but rather to push training and especially experience on you. While none of the traffic passed during these three storms was of any critical importance, it was a chance to test personal training, experience and capabilities in less than ideal conditions. Because NTS operates daily, the opportunity to hone your net skills is always available.

Reading books and being an ARES member is great. Being experienced with net operations greatly benefits your service to ARES and other organizations. Are you experienced and ready if the call comes? There is a lot you can do to be ready, and many opportunities to gain experience for the times when you really need it.

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Well, power just came back on! Time to switch power. I do love electricity!

April General Meeting: How To Reduce Your Received Noise Level – Joe Harris, N1QD

The level of background noise heard by an HF receiver in a residential neighborhood is much higher now than it was 20 years ago, because of the proliferation of switching power supplies in lamps, household appliances, battery chargers.

However, within the last 20 years Chuck Counselman, W1HIS, has reduced(!) his HF noise level by 30 dB. In this talk he'll show you how to do likewise.

He'll show you first how to find the sources of the noise you hear, and then how to silence them with ferrite and/or L-C filters.

The Boston Amateur Radio Club's April general meeting will be held on Thursday, April 19 at 7:30 pm. Note that the meeting will be held at the Clay Center in Brookline (see <http://www.dextersouthfield.org/about/dexter-southfield-directions.cfm> for directions),

Hams Needed for the IEEE Symposium, July 8–12 – Kayla Creamer, W2IRY

The Eastern MA ARRL field organization has been requested to provide an Amateur Radio presence at the [IEEE AP-S/URSI Symposium in Boston](#), July 8–12, 2018 at the Westin Boston Waterfront, adjacent to the Boston Convention and Exhibition Center in Boston's Seaport District.

- Address: 425 Summer St, Boston, MA 02210
- Phone: (617) 532-4600
- Website: <http://westinbostonwaterfront.com>

Amateurs will outfit and staff a booth in the trade show area of the conference, where "conference attendees can ask questions about how to get involved in ham radio, either as a hobby or as a vehicle for student learning," according to David Michelson, VE7TSX, Associate Professor of Electrical and Computer Engineering at the University of British Columbia in Vancouver, BC. Michelson chairs the IEEE's AP-S/URSI Joint Meetings Committee.

In addition to a booth, the IEEE leaders have requested Volunteer Exam sessions be conducted on the Conference site for attendees interested in obtaining their licenses. "The chances of conflicting with Committee meetings, technical sessions, etc. are very high, so we're suggesting two exam sessions on different days might overcome that problem," Michelson adds.

Last year's IEEE conference was held in San Diego, California. It was a great success. The ham effort was coordinated by Michelle Thompson, W5NYV and ARRL San Diego Section Manager Dave Kaltenborn, N8KBC.

The 2018 preliminary Exhibitor Schedule is as follows:

- Exhibitor Move-in: 13:00 – 18:00 Monday, July 9
- Exhibit Floor Opens: 09:00 – 18:00 Tuesday, July 10
- Exhibits: 09:00 – 18:00 Wednesday, July 11
- Exhibits: 09:00 – 18:00 Thursday, July 12
- Exhibitor Move-out: 18:00 – 21:00 Thursday, July 12

Although the conference site is well-served by public transportation, event coordinators are exploring the possibility of complementary (or reduced) parking rates for volunteers. In addition, a pre-conference breakfast is also possible.

We are seeking amateurs to help with:

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- coordination
- publicity
- booth setup
- staffing booths
- volunteer exams
- booth tear down

If you, your radio club, or VE team would like to be involved in this high-profile event, please register to [volunteer for HamRadio @ IEEE AP-S 2018](#) or contact Phil Temples, K9HI, at k9hi@arrl.org.

We thank you for any publicity you might be able to offer. Please feel free to reach out to myself or Phil if you have any questions.

Thank you,

Kayla Creamer

w2iry@arrl.net

Public Information Coordinator

Eastern MA ARRL Section

www.ema.arrl.org

www.fb.com/easternmaarrl/

BARC Meeting Calendar for 2018

Unless otherwise noted, all meetings will take place at the Brookline Police Headquarters.

General Meetings

April 19	2018	Thu	7:30 pm — RFI with Chuck, W1HIS; at Clay Center Observatory, Brookline
May 17	2018	Thu	7:30 pm — Maritime Morse with Harry, WA1GXC
June 21	2018	Thu	7:30 pm — Elections and Field Day
September 20	2018	Thu	7:30 pm
October 18	2018	Thu	7:30 pm
November 15	2018	Thu	7:30 pm

Business Meetings

June 7	2018	Thu	7:30 pm
September 6	2018	Thu	7:30 pm
December 6	2018	Thu	7:30 pm

VE Sessions

April 9	2018	Mon	7:30 pm
July 9	2018	Mon	7:30 pm
October 8	2018	Mon	7:30 pm



The banner features a teal background with two numbered steps. Step 1 shows a red mobile phone icon with the text 'Hands-Only™ CPR' and 'Call 911'. Step 2 shows a red hand icon with the text 'Push hard and fast in the center of the chest.' and 'Learn more at handsonlycpr.org'. The American Heart Association logo and 'Learn and Live' slogan are on the right.

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Quarterly Business Meetings – Bob Salow, WA1IDA

As the Bylaws require, BARC has Business meetings quarterly. Unless circumstances warrant, BARC Business meetings will be held on the first Thursdays of December, March, June, and September. The next such meeting will be on **June 7, 2018** at Brookline Police Headquarters in Brookline. All members are urged to attend and participate in club affairs. This is where club functions are discussed and decided, and your help is needed to guide us.

A short opening period of each General meeting will continue to be used to bring any immediate business matters to everyone's attention.

To provide continuity of club business between meetings we also have a virtual business meeting via an email list. Any member interested in the affairs of the club can ask to be on this virtual meeting list—just give your name, call and your email address to President Joe Harris, N1QD.

See Yourself in Print! (well, PDF) – Joe Chapman, NV1W

We are always looking for articles for the newsletter. I have reserved this space for your articles, reviews, tips, how-tos, hints, kinks, photos, schematics, or other ham related information. Photos of you operating or your shack are especially welcome. Send your submissions to the Editor, Joe, NV1W, at nv1w@arrl.net. Articles for the May issue must be received by May 5.

Thanks to everyone who contributed articles to this month's issue, and to J. P., KB1TIC, for photos.

BARC Net Preamble

The control operator for the BARC Net is Joe, W1JJF. He rarely misses a net, but when he does any ham can take up the position and run the net. To assist you in opening and closing the net The BARC Net Preamble is printed below. Do not be afraid to step up and take the challenge.

Is there 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 145.230 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 check-in's for the Boston Amateur Radio Club Net please call now.

[Compile the list of the check-ins and proceed with the net.]

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.

I See the Future

15 April	ARRL Rookie Roundup, SSB
15 April	Flea at MIT, Cambridge
19 April	BARC General Meeting, Clay Center, Brookline, 7:30 p.m. ▲
5 May	Deadline for articles for the May SPARC

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5–6 May New England QSO Party
17 May BARC General Meeting, Brookline Police Headquarters, Brookline, 7:30 p.m.
20 May Flea at MIT, Cambridge
26–27 May CQ WW WPX Contest, CW

▲ **Note change from usual date and/or location**
(Rp) = BARC Repeater likely to 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 much of the Northeast, the “Ham - Electronic Flea Market” and the “PSLIST” lists tell the story. Of course, if you know of an event that would be of interest to the readers, please let the Editor know.

For an up-to-date calendar of events, including web links, visit <http://www.barc.org/calendar>.

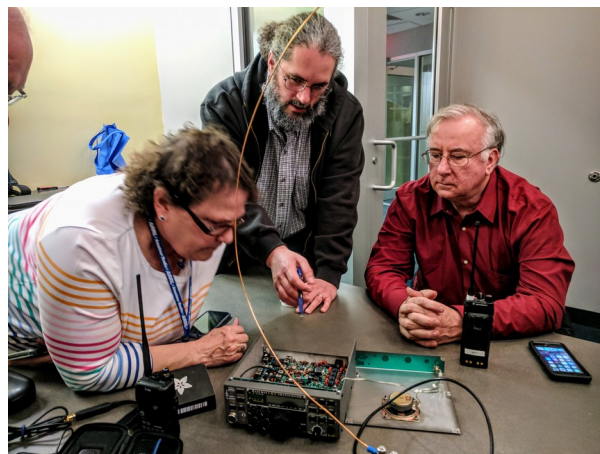


**The Clay Center Observatory
Welcomes BARC members**

www.claycenter.org

Public Astronomy Nights, Astronomy Day Events,
Amateur Radio Classes, Amateur Radio Youth Club,
Community and Adult Education, Weather Festival,
Science Lecture Series, Educational Outreach

20 Newton St., Brookline, near Larz Anderson Park



Businesses Can Advertise Here

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

The rates for display advertising are:

1 col × 2 in. (business card)	\$15 per issue
1 col × 2 in. (business card)	\$75 per 6 consecutive months
1 col × 2 in. (business card)	\$125 per 12 consecutive months
1 col × 4 in. (½ column)	\$30 per issue
1 col × 9.5 in. (full column)	\$60 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 Joe Chapman, NV1W, at 617.267.6349 or nv1w@arrl.net.

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BARC Volunteer Exam Sessions

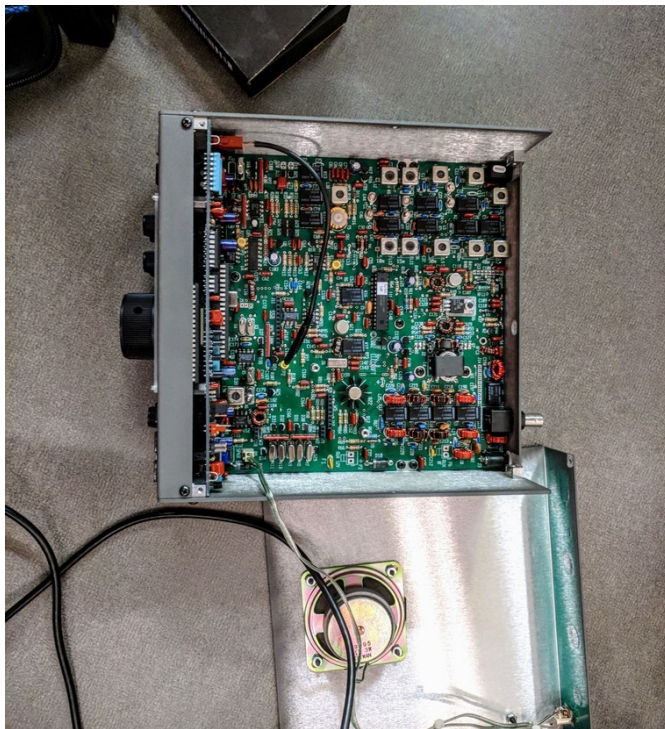
The Boston Amateur Radio Club schedule has been revised to suit the needs and interests of the applicants and examiners. **The next exam session will be on Monday, July 9, 2018.** Generally, sessions are held at Brookline Police Headquarters, 350 Washington St. in the Community Room (across from the information desk).

We give all exams (Technician, General, and Extra). *Testing is by reservation only.* Please bring the following with you:

- Your current license and a photocopy for the ARRL, if you are upgrading
- Any CSEs you are claiming, and a photocopy of them
- Valid picture ID or two valid non-picture IDs
- A pen and a calculator (if you want to)
- **\$15.00** (good for all the tests you take at that session, except for retests)

Note: Written tests can be taken sequentially at the same session for the same \$15 fee. The needed FCC forms will be provided.

To reserve a seat or for further information, contact: Jim Clogher, N1ICN, n1icn@arrl.net, or Linda Blair, NA1I, na1i@arrl.net.



N1QD's Elecraft K2 build



KB1TIC's complete QRP CW station

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Newsletter Editor: Joe Chapman, NV1W

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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.

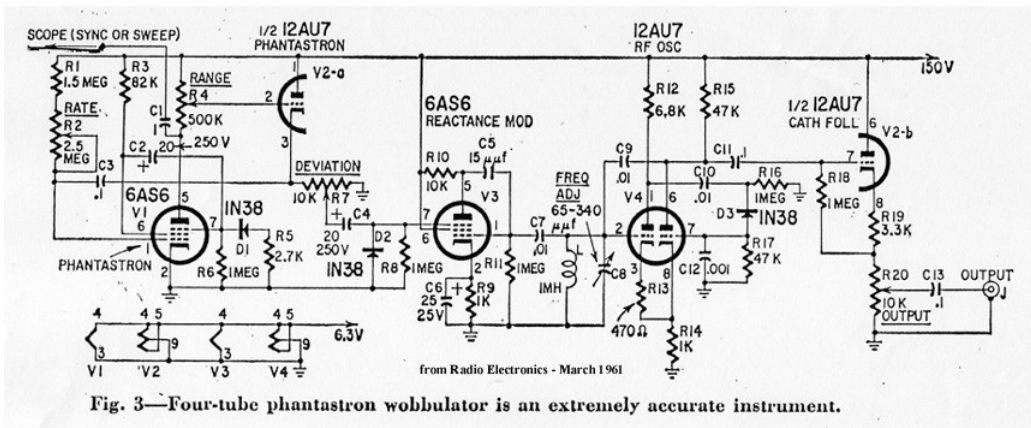
The Club is an ARRL-affiliated club, and is a member of the Council of Eastern Massachusetts Amateur Radio Clubs (CEMARC) and the New England Spectrum Management Council (NESMC). The Club is also an associate member of the Courage HandiHams system.

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Greater Boston Net Directory

Daily 7 pm	MARI (Mass/Rhode Island CW Net) (NTS)	3.565
Daily 8 pm	Eastern Mass 2M Traffic Net (NTS)	145.230 (PL 88.5 in/100.0 out)
Daily 8 pm	Slow Speed CW Net	28.160
First Mon 8:30 pm	EMA Section ARES Net	146.610 and all MMRA links
Mon 8 pm	New England DMR Net	DMR New England Talk Group (TG 3181)
Mon 9 pm	BARC Club Net	145.230 (PL 88.5 in/100.0 out)
Sun Mon Wed Fri 10 pm	Heavy Hitters Traffic Net (NTS)	MMRA-linked repeaters: 146.610, 146.670, 146.715, 146.820, and all 222 and 440 repeaters
Tue Thu Sat 6 pm	MA RI Phone Net (NTS)	3.978
Tue 7:30 pm	Clay Center ARC Net	446.325 (PL 146.2)
Tue 8 pm	MMRA Club Net	146.610 and all MMRA links
Wed 8 pm	Wellesley Amateur Radio Society Net	147.030; 444.600 (PL 88.5)
Wed 9 pm	Waltham Wranglers Swap Net	146.640 (PL 136.5)
Sat 9 am	Northeast SATERN Net	7.265
Sun 9:30 am	Yankee SSB Net	50.275
Sun 8 pm	Algonquin Amateur Radio Club Net	446.675 (PL 88.5)
Sun 8:30 pm	NSRA Net (with Newslines)	145.470 (PL 136.5)
Sun 9 pm	CAARAnet	145.130 (PL 107.2)



145.230 (-) CTCSS 88.5/100.0

Simplex: 147.420

449.175 (-) DMR CC1