



The SPARC

Newsletter of the Boston Amateur Radio Club

Volume XX, Number 10; October 2008

<http://www.barc.org>

w1bos@arrl.net



Paul Olivieri, N1ZKR; SK



Sadly, we must report the unexpected death of Paul Olivieri, N1ZKR, one of the earliest members of BARC. Paul was the Secretary and a past President. He was an active participant in club activities, including many public service and emergency events.

Formerly from Warwick RI, he had lived in Brighton for many years. Paul was a commercial printer for Fenway Printing since 2001 and had been a Director of Volunteer Services for the American Red Cross of Mass Bay. Paul died at home, but the cause has not yet been determined. He was 51.

BAA Half Marathon Needs A Few More Hams

-- Bob Salow, WA1IDA

After seven years of successful events, the Boston Athletic Association Half Marathon now takes its place as a "Boston Tradition." We have been asked again to support safety and administrative communications. The Race Director has asked for even more ham help (that's what happens when we are appreciated).

If you are new to ham public service (or don't have much familiarity with it), this is the way to become familiar without much pressure. For hams, this is an easy introduction and an appreciated community service.

The course starts and finishes at Clemente Park in the Fenway. It proceeds along the Riverway, Jamaica Way and Arborway to the Franklin Park Zoo and return. This is the "Emerald Necklace" and is one of the most beautiful locations in Boston.

Date: **Sunday, 12 October 2008**

Ham start: 0600

Ham finish: 0930 to 1130 (depending on location)

The upside is it starts early and ends early, leaving plenty of time to enjoy the long weekend. Your help is greatly needed to uphold our reputation for dependable support. A hand-held with a good battery and an antenna better than a "rubber duck" is the way to go.

If you can help, please contact me as soon as possible. Contact me if you have any questions at w1ida@arrl.net or 508.650.9440.

See the South Seas at the October Meeting

Wanna see where you've never been? How's about Swain's Island in American Samoa? Most hams might go to places like this tropical dot in the Pacific by radio. But in 2007 a group of hams went on a DXpedition setting foot (and radios) on Swain's Island.

At our October meeting we have a video of these lucky hams who got all the permits, went there, set up several stations (call sign N8S) and made more contacts than any other DXpedition ever. It's exciting to hear of their exploits and to enjoy some of the scenery. Come see on Thursday, 16 October.

The BARC General meetings are held starting at 7:00 pm on the third Thursday of each month at the Salvation Army third floor auditorium. The address is 147 Berkeley St, but the entrance is on Columbus Ave. The nearest T stations are Back Bay on the Orange line or Commuter Rail (exit the rear of the station) and Arlington on the Green line. Free parking is available in the adjacent lot. The entrance to the parking lot is from Columbus Ave. (across the street from the firehouse). A map appears on page 7 of the newsletter.

With our meeting structure changes, the first 30 to 45 minutes will be pending business, followed by the main topic of the month. Both portions of this particular meeting are important.

If you have any ideas about topics that you would like to see presented at future meetings, please feel free to contact one of your officers. Remember – this is *your* club and we are here to help *you* have fun and get the most out of ham radio.

Have Breakfast With BARC

BARC holds a social breakfast on the second Sunday of each month at the Old Country Buffet in the Watertown Mall. Breakfast is served from 0800 to 1130 (although we rarely stay beyond 1000).

We just get together, socialize and eat, without any formal club events or business. Family and friends are welcome. The extensive buffet breakfast is *very* good. The cost is reasonable (seniors get a discount).

The Old Country Buffet is in the Watertown Mall, 550 Arsenal St. in Watertown. There is plenty of parking. From Memorial Dr, continue on Greenough Blvd to the Watertown exit, turn right on Arsenal St. The #70 T bus from Central Square Cambridge to Watertown Square to Waltham stops right at the Watertown Mall. We hope to see all of you there – and bring your appetite!

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

Simplex: 147.42

Looking Ahead At Public Service

-- Bob Salow, WA1IDA

When hams engage in public service as mandated by the FCC Rules, the benefits go well beyond just following the rules. We can enjoy our hobby - have fun! We protect the health and safety of event participants. We support worthy charities. We learn to work within an organized effort. We experience the technical aspects of operating under adverse conditions. We practice communicating under emergency conditions. We can demonstrate these qualities to the communities we serve and thus promote our service for their acceptance.

Throughout the year BARC coordinates numerous public service events. Most of these are open to hams who are new to helping at such events as well as experienced hams. Here is a general look ahead for the rest of 2008 that we will be asked to support. Contact Bob Salow, WA1IDA, if you have any questions - wa1ida@arrl.net or 508.650.9440.

- **BAA Half Marathon - 12 October 2008** - Boston
- **SKYWARN Recognition Day - 6 December 2008** - Blue Hill Observatory (Milton)

Other events may jump in on short notice. Join our team and join in the fun and learning.

New Hams Need Help

-- Eric Falkof, K1NUN

As we all know, getting a call sign is only the beginning of becoming a ham. Think of what you knew the day your license arrived compared to what you know today. These new licensees will now be BARC members who need your help in moving from license holders to real hams. You can assist them and benefit yourself. Contact Tom, KB1OKP, at thbe125@yahoo.com or 781.395.5538 to lend a hand.

Join or Renew ARRL and BARC Gets Benefits

-- ARRL Club Newsletter, 27 September 2008

The ARRL club commission program allows ARRL Affiliated Clubs to retain a portion of the ARRL dues from each new member or renewal that the club submits.

Under the ARRL Club Commission Membership Recruitment Program, clubs retain \$15 for each NEW membership and \$2 for each renewal submitted (regular and senior memberships only). A *new member* is defined as any individual who has never been a member of ARRL or any individual who has not retained a membership for two or more calendar years prior to the application submission.

The details and forms can be found on the web at the ARRL Club Companion page:

www.arrl.org/FandES/field/club/benefits.html#commission

I went for a walk last night and my kids asked me how long I'd be gone. I said, "The whole time."

QST Archives Now Available to Members

-- ©ARRL Web page, 9 September 2008

With just a mouse click or two, ARRL members can now access the online *QST* magazine archive. This new benefit - a service of the ARRL Technical Information Service - provides PDF copies of all *QST* articles from December 1915 through December 2004, enabling members to view and print their favorite article, project and more. For many years, the TIS has provided members with assistance researching ARRL periodicals and publications, as well as providing members and non-members with article reprints for a small fee. Access to the new online digital *QST* archive is free for ARRL members.

"Having access to every issue of *QST* through 2004 is absolutely incredible!" said ARRL Lab Manager Ed Hare, W1RFI. "The best of the best of *QST* from every era is now at the fingertips of every ARRL member with a keyboard and an Internet connection. Members can research articles on any subject that interests them, or just browse the past issues. This will be a popular membership benefit that will be of special value to new and long-time hams alike. This valuable content will help radio amateurs who use *QST* as a technical resource - for projects, equipment 'hints and kinks' - and for other research contributing to the advancement of the radio art. We know many hams will simply enjoy perusing these pages of history, too."

The *ARRL Periodicals Archive and Search* lists every article for *QST* from 1915 to the present, *QEX* from 1981 to the present, *Ham Radio* from 1968 to 1990, and *NCJ* from 1973 to the present (please note that beginning in 1998, each issue of *QEX* covers two months). Only ARRL members will be able to download and print copies of the *QST* articles.

QST magazine is the official journal of ARRL, the national association for Amateur Radio. An interest in Amateur Radio is the only essential qualification of membership. ARRL membership is \$39 per year in the US. For a complete list of membership benefits and dues, please visit the ARRL Membership site, www.arrl.org/join.

BARC Growth

It's a rare month when we fail to add a few new members. Periodically we publish their names so that you can give them a special welcome. There may also be some upgrades and long lost members who rejoin, so greet them, too.

Linda Blair	KB1RBP
Cal Calvitto	WA1WOK
Brian Draves	KB1MYP
Dave Gifford	KB1KNO
Jack Hamm, III	WA1CFS (call correction)
Nathaniel Vishner	KB1QHX

Make it a point to introduce yourself when you see them at a meeting. In addition, we would like to note here all call sign changes. If you fit any of these categories, please promptly notify the Keeper of the Database, Bob Salow, WA1IDA at: 508.650.9440 or email: wa1ida@arrl.net.

I See the Future

10-11 Oct	NEAR-Fest (Deerfield NH)
12 Oct	BAA Half Marathon (Rp)
12 Oct	BARC Breakfast
18 Oct	NE Antique RC (Manchester NH)
16 Oct	BARC Meeting
19 Oct	MIT Flea (Cambridge)
1 Nov	Interstate RS Flea (Londonderry NH)
9 Nov	BARC Breakfast
10 Nov	BARC VE Exams
20 Nov	BARC Meeting
8 Dec	BARC VE Exams
14 Dec	BARC Breakfast
~18 Dec	BARC Holiday Party (no BARC meeting)

(Rp) = BARC repeater(s) may be used

As you might expect, there are many more events (public service, hamfests, flea markets, etc.) taking place - some only peripheral to ham radio. For information on these, covering New England and some of New York, the "Ham - Electronic Flea Market" and the "PSLIST" lists tell the story. They are posted by email to barc-list and on PBBs regularly. If needed, contact any club member who has access to these.

ARRL Again Participating in the "Combined Federal Campaign"

For the seventh year running, the US Office of Personnel Management has designated the ARRL to participate in the 2008 Combined Federal Campaign (CFC). In the past, this campaign for federal civilian and military employees and Postal Service workers has generated more than \$120,000 for ARRL programs. The CFC provides an easy way to support ARRL.

Similar to the United Way, the CFC encourages Federal employees to pledge by payroll deduction to non-profit organizations of their choice. The ARRL encourages eligible hams to consider the League when designating campaign recipients. Such contributions support programs that are not funded by member dues, enriching ARRL's ability to serve its members and all of Amateur Radio.

One important note: Since the CFC does not provide the ARRL with the names of individual donors, the ARRL Development Office, k1mmh@arrl.org, would appreciate a copy of the donor form to ensure that each contribution is applied according to the donor's wishes and the contribution or pledge can be properly acknowledged. Note that a direct contribution from an IRA to a qualified organization is excluded from income. The 2008 CFC ends 15 December.

Future BARC Meeting Dates

(Third Thursdays at 7:00 pm)

16 October 2008
20 November 2008
~18 December 2008 **(Holiday Party)**
15 January 2009

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

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Holiday Party 2008

It's time to start thinking about the 2008 BARC Holiday Party! For many years we have had successful, fun filled parties at a number of restaurants (the food has been good, too) with family and friends. For the past two years we have had excellent events at The Stockyard in Brighton, but we are open to suggestions for other possible venues. Scheduling should be at or near the usual date for our December meeting.

Joe Harris, N1QD, has volunteered to organize the party this year. Please send him suggestions at n1qd@coe.neu.edu by 31 October. Guidelines for venues include:

- In the Greater Boston area
- Parking at the restaurant or reasonably close
- Accessible via public transportation
- Able to handle a group of 25-40 people
- Cost of less than \$30 per person

Because reservations become scarce as we get closer to the holidays, your suggestions should be sent to Joe as soon as possible.

BARC Business Notes – 18 September

Some business was discussed at the opening of the General meeting on 18 September. Notes were taken by Joe Harris, N1QD, Acting Secretary.

- ♦ 25 members and guests were in attendance.
- ♦ Tom, KB1OKP, called the meeting to order at 1910.
- ♦ Jim, N1ICN, Treasurer, reported an account balance of \$4000.69, as of 18 September 2008.
- ♦ As there were several new members in attendance, WA1IDA gave a short background of the club.

Repeaters:

- ♦ W1ZFI reported that the 447.175 repeater is unusable in its current state. Other recent tests confirm this.
- ♦ WA1IDA reported that a separate 70 cm frequency pair may be available for the club as a possible alternate for 447.175.
- ♦ WA1IDA reported that 145.230 will soon receive a hardware upgrade.

Membership:

Simplex: 147.42

- ◆ WA1IDA estimated the club membership is currently at 120.

Membership Services:

- ◆ N1NHZ is looking to retire from the Membership Services position. Anyone interested in taking the role over should contact him directly.

Public Service:

The next event is the BAA Half Marathon on 12 October; more hams are needed.

End of Summer BBQ/Picnic:

- ◆ KB1EKN reported that 18 attended the picnic at the Bare Cove Fire Museum in Hingham.
- ◆ An HF station was set up on site; 7 QSO's with European stations were made during the afternoon – many by new hams with no experience on HF.
- ◆ A motion was made by N1ICN and seconded by N1QD to make a \$75 donation to the Fire Museum as thanks for hosting the cookout. Passed.

Holiday Party:

- ◆ KB1EKN suggested that the club start looking at options for the Holiday Party. He raised concerns about parking availability at last year's party.
- ◆ WA1IDA pointed out that if the Stockyard lot were full, space could usually be found on Guest St.
- ◆ N1QD volunteered to collect suggestions and make arrangements for the party.
- ◆ There being no further business, the business meeting portion adjourned at 1940 followed by an excellent presentation by WA1WOK on D-Star digital communications.

Special Business Meeting – 2 October

Since our decision to omit monthly Business meetings last April, a Special Business meeting was called for 2 October 2008 to review club matters. Joe Harris, N1QD, took notes as Acting Secretary.

Members in attendance:

Mike Ardai	N1IST	
Arthur Ashley	N1NHZ	
Tom Bertolino	KB1OKP	Vice President
Jim Clogher	N1ICN	Treasurer
Joe Harris	N1QD	Acting Secretary
Frank Murphy	N1DHW	
Bob Salow	WA1IDA	Acting President

- ◆ WA1IDA attended the memorial for Paul Olivieri, N1ZKR.
- ◆ The club is waiting for a family recommendation to make a charitable contribution in Paul's memory.
- ◆ The club has obtained a new key for its PO Box; a spare key is on order from the post office.

Treasurer's Report

- ◆ N1ICN reports a balance of \$3577.04 as of 2 October 2008

Repeaters

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

- ◆ N1IST reports that the problems on 447.175 were caused by a nearby lightning strike that knocked out the transmitter.
- ◆ 447.175 may move to a new frequency pair to avoid issues with PavePaws.

Public Service

- ◆ The BAA Half Marathon will take place on October 12. WA1IDA is still looking for more volunteers.
- ◆ SKYWARN Recognition Day (SRD) will take place on the weekend of 6 December. There is a possibility of operating on Friday the 5th also. Details will be released soon.

General Meeting

- ◆ The November general meeting will be an introduction to the hobby for new hams.

Officers

- ◆ N1QD will be filling in as secretary temporarily until a permanent replacement can be found.

Field Day

- ◆ Anyone with pictures from Field Day 2008 should email them to N1IST at n1ist@arrl.net

VE Sessions

- ◆ KB1OKP reports five applicants at the September VE session. The end result was one Extra, one upgrade to General, and three Technicians.
- ◆ There will be no VE session in October due to the Columbus Day holiday.

Badges

- KB1OKP will be taking over the badge assembly and distribution.

BARC Volunteer Exam Sessions

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

If the Brookline Public Schools (or the Pierce School itself) is closed due to inclement weather or other problems, the exam session for that month will be canceled.

There is a free parking garage at the circular driveway. If driving, enter School St from the Washington St side (opposite 394 Washington), rather than from Harvard St. Check: www.barc.org/barc/school_map.gif : for more info.

For those traveling via the T, take the "D" branch of the Green Line to the Brookline Village station. Walk north along Harvard St 0.2 miles to School St, then turn left. The Pierce School is on the left. The #66 bus runs on Harvard St, crossing School St.

Talk in on 145.230 MHz (-), PL 88.5 Hz.

We give all exams (Technician, General, and Extra). 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

Simplex: 147.42

- Any CSCEs you are claiming, and a photocopy of them
- Valid ID (picture ID preferred)
- A pen and a calculator (if you want to)
- **\$14.00** (good for all the tests you take at that session, except for retests)
- Written tests can be taken sequentially at the same session for the same \$14 fee.

The needed FCC forms will be provided.

For further information, contact:

Jim Clogher, N1ICN, 617.364.4658 n1icn@arrl.net

Tom Bertolino, KB1OKP, 781.395.5538 hbe125@yahoo.com

Future Exam Dates

(Second Mondays at 7:00 pm)

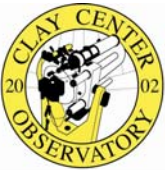
(No October session due to Columbus Day holiday)

10 November 2008

8 December 2008

12 January 2009

9 February 2009



**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

Have You Wondered How the ARRL Reaches Out To the Field?

The ARRL has organized the country into 15 divisions, and then into 71 sections. Each division contains several sections. The New England Division, the division in which this club is located, consists of the one section in each of the New England states, except for Massachusetts which is split into Eastern and Western Sections.

Each section has a Section Manager, who is responsible for directing the Section's field organization. The field organization includes the state's emergency communications organization, official observers, and traffic networks. The Section Manager is elected by the members in a Section and is responsible only to the section's members.

Likewise, each Division elects a Director and a Vice Director to serve on the ARRL's Board of Directors. These folks are responsible for setting the policy of the ARRL. The Director is the one who actually gets to vote. The Vice Director may stand in for the Director, should he or she be unable to make a board meeting, or to serve as Director, should the Director become incapacitated or resign for any reason. Directors and Vice

Directors have no authority over Section Managers, although they usually work closely on matters affecting the Sections.

Each Division holds an election every three years, and the elections are staggered so that every year there is an election in five of the Divisions. The term of the Section Managers is two years, and these are also staggered.

In the Eastern Massachusetts Section – where most of us reside – we have just begun the election process for Section Manager. ARRL members here should have received their ballots. Read the candidate's statements, and vote for the one that you think will do the best job. Make your voice heard!

You 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. **Note that these rates are expected to change effective 1 January 2009.**

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 column)	\$20 per issue
1 col x 9.5 in. (full column)	\$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@pvctronics.com or 617.232.6982; or Bob Salow at wa1ida@arrl.net or 508.650.9440.

The Easy Way By John M. Haerle, WB5IIR

Reviewed by Tom Bertolino, KB1OKP

As a new ham with limited electrical knowledge and money, I started to research inexpensive HF antennas. My search led me to homebrewed dipole antennas and John M. Haerle's book, *The Easy Way*. The book seemed to have some the information I needed to the build to build a 20 meter dipole. As it turned out it was the best \$12.00 I spent on the hobby. Not only did I learn antenna fundamentals, but I also received some interesting explanations and history on other antennas.

John M. Haerle was born in 1914. Although he lived to age 70, he, like many people of his generation, led a very active life. He studied music at Ol' Miss and LSU, and during the 30s and 40s he played in a number of swing bands. John served in the Navy during WWII where he studied and taught radio. After the war he held several different positions, some were: Chief Engineer of a radio station in his home town; head of Broadcasting Division, and then Vice President Public Relations and Advertising with Collins Radio. After his retirement he spent most of his time, until his tragic death in 1984 at the hands of a drunk driver, giving lectures and seminars on HF antennas.

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

Simplex: 147.42

The Easy Way is organized into a Forward, five sections, and Conclusion. The titles of the five sections are: Fundamentals, Basic Antennas, Some Special Antennas, Beam Antennas, and The 160 Meter Story. My review will be from the viewpoint of a new ham; therefore, I will give my opinion on only the first two sections as they apply to my need to build a 20 meter dipole. I will also give some comments on the other sections of this book.

The first section, Fundamentals, is in my opinion is the most important section in the book, and should be read by all hams new or experienced. While it is only 24 pages long, it contains information that every ham should know. Haerle sets forth his principles in the first sub-section, *The Easy Way*. He does so by discussing myths, erroneous information and distorted concepts that he states have become gospel. They are:

1. Always requiring a perfect antenna/feed line match.
2. Evaluating antenna performance only on the basis of feed line SWR.
3. Pruning a dipole to exact resonance and feeding it with an exact multiple of half-wave coax.
4. Adjusting the height or lowering the ends of an inverted vee to make the resistive components equal to the line impedance.
5. Subtracting the percent reflective power from 100 to determine the usable percentage of transmitted power.

The author dispels myths using four concepts:

1. Antennas of non-resonant length
2. Line attenuation
3. The transmatch
4. The balun

He uses quotes and examples from various experts to help the reader follow his logic and lead the reader to a sound and practical understanding of SWR, reflective power, transmission line loss, SWR ratio.

His conclusion to this sub-section is: an antenna does not to be resonant at a particular frequency as long as the SWR ratio at the transmitter is reasonable say 10:1 or less. Do it the easy way, use a transmatch (antenna tuner) at the transmitter.

The second, third, and fourth sub-sections of The Fundamentals section are: *Antenna Terminology Revisited*, *Feedline Terminology Revisited*, and *Baluns*. In the *Antenna Terminology* sub-section, Haerle explains the difference between radiation resistance, feedpoint impedance, and radiation efficiency at the antenna. He explains how radiation resistance and feed point impedance can be equal if the feed point is at the center of a dipole, and not equal if the feedpoint is at any other location than the center of a dipole. He also explains how radiation efficiency is calculated using radiation resistance plus ohmic resistance, plus ground resistance. In his example he calculates the radiation efficiency of two antennas, a quarter-wave vertical and a dipole. The dipole had an efficiency of 95%, and the quarter-wave vertical had an efficiency of 23%.

In the *Feedline* sub-section he discusses how current, charge, power, energy, and reflected power cause forward and reflective waves and how these wave interact to form an infinite SWR. I found this sub-section hard to follow. It took me a couple times

to read and reread this section to understand it. In this section I wish the author had strayed from his tone and format of on-the-air talks, which was stated in the forward. There are no illustrations here.

I found the sub-section on baluns every informative. Haerle explained what a balun is, why it is used, and how to use it. He also explained that the misuse of a balun can lead to the faulty interpretation of data and possible damage to your equipment. This is another section I wish the author had strayed from his format of no illustrations. I could have used a picture or two when he started to explain how three currents move in the coax.

The other sub-sections of the Fundamentals section are: *Ground Systems for Vertical Antennas*, *Lightning Protection*, *From BC To Coax*, *Towers*, and *Keeping Your Tower Vertical*. Each sub-section is one to three pages long and covers the basics of each topic. The *Lightning Protection* sub-section covers how to ground your tower to protect it from lightning strikes. The sub-section *From BC to Coax* gives the properties for bare wire, ladder line (both 300Ω and 450Ω), and various coax cables. There is a table on page 34 that lists the properties of different coax cables to include velocity factor and RMS volts.

There are two sections on antennas. The Basic Antennas section covers dipole, zepp, G5RV, Windom antennas, and Coax. The other section includes some special antennas, sloper, DDDR, folded unipole, vacation antennas, and mobile antennas. In these two sections, Haerle gives a short history, description, and major bands for each antenna. I found these sections very interesting because of the background information he gives on each antenna. I could easily picture each of these antennas from his description of them. He did not give references for every antenna, but where he did the references were dated in the 70s. If you wanted more information on any of these antennas you would be better off doing an internet search then try to find some of his references.

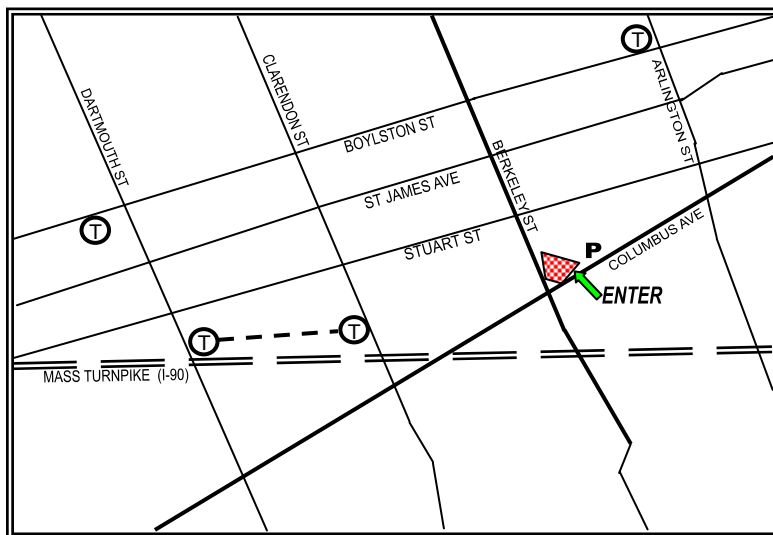
I did not read the sections entitled Beam Antennas and The 160 Meter Story, but a quick glance at each section looks as if he followed the same outline as the other sections - a quick history, a description, and uses. In the case of the 160 Meter Story he suggested times when the band would be active and how to use split frequencies to get DX stations.

Even though references in this book are dated, I recommend this book as a must read for all hams, new and experienced, just for the section on fundamentals. This section alone will leave the reader a with sound understanding of the basic principles used in designing an antenna system, and help make educated decisions as to what type of HF antenna best suits the needs of the situation. This is a book every ham should have in the reference library.

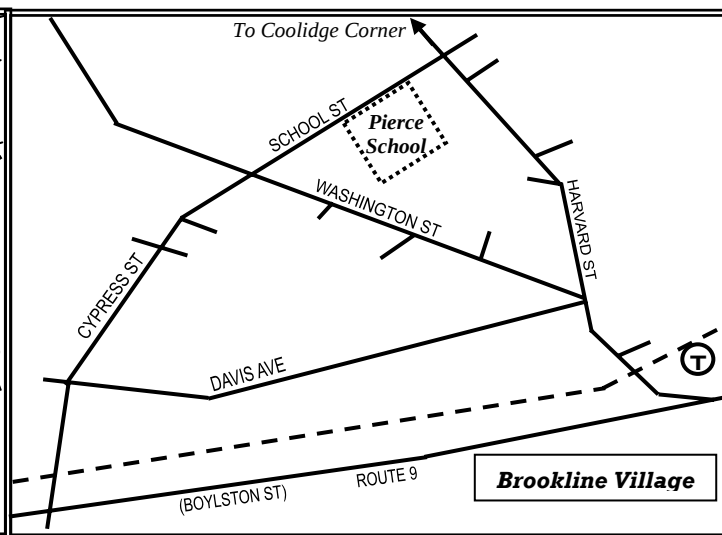
Published by: World Radio Books, 2120 28th Street, Sacramento CA 95818, Second Edition, 2004

If you have a bad cough, take a large dose of laxatives; then you'll be afraid to cough.

Why do psychics have to ask you for your name?



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	(Vacant)		
Acting President	Bob Salow, WA1IDA	508.650.9440	walida@arrl.net
Vice President	Tom Bertolino, KB1OKP	781.395.5538	thbe125@yahoo.com
Secretary	(Vacant)		
Acting Secretary	Joe Harris, N1QD	781.844.8684	joseph.harris@comcast.net
Treasurer	Jim Clogher, N1ICN	617.364.4658	n1icn@arrl.net
Volunteer Exams	Jim Clogher, N1ICN	617.364.4658	n1icn@arrl.net
	Tom Bertolino, KB1OKP	781.395.5538	thbe125@yahoo.com
Public Service	Bob Salow, WA1IDA	508.650.9440	walida@arrl.net
Newsletter Editor	Paul Carter, N1TMF	617.232.6982	n1tmf@pvctronics.com
Programs & Activities	Phil Temples, K9HI	617.331.0183	phil@temples.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 5:30 pm	Eastern Mass/Rhode Island Phone Net (NTS)	3.915
Daily 7 and 10 pm	Eastern Mass/Rhode Island CW Net (NTS)	3.658
Daily 8 pm	Eastern Mass 2M Traffic Net (NTS)	145.230 (PL 88.5)
Daily 8 pm	Slow Speed CW Net	28.160
Daily 10:00 pm	Heavy Hitters Traffic Net (NTS)	MMRA-linked repeaters:
		146.610, 146.670, 146.715, 146.820, and all 222 and 440 repeaters
First Mon 8:30 pm	EMA Section ARES Net	146.610 and all MMRA links
Mon 9 pm	BARC Club Net	145.230 (PL 88.5)
Tue 8 pm	MMRA Club Net	146.610 and all MMRA links
Wed 8 pm	Wellesley Amateur Radio Society Net	147.030; 444.600 (PL 88.5)
Wed 9 pm	HHTN Swap Net	146.640
Thu 8:30 pm	AMSAT Net	146.640
Sat 9 am	Northeast SATERN Net	7.265
Sun 9:30 am	Yankee SSB Net	50.275
Sun 8 pm	Algonquin Amateur Radio Club Net	446.675 (PL 88.5)
Sun 8:30 pm	NSRA Net (with Newsline)	145.470

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

Simplex: 147.42

THE SOUTH SEA ISLANDS BROUGHT TO BOSTON

...and you don't even have to turn on your radio to be there. A DXpedition that you wish you were on but now you can see what and how it was done. Be transported to Swain's Island using the call sign N8S. Make more contacts than any DXpedition before. In your dreams!

Come to the October BARC meeting and find out.

The next Meeting is:
16 October 2008 at 7:00 pm
at the Salvation Army Headquarters building
Columbus Avenue at Berkeley Street
Boston
Parking in the adjacent lot on Columbus Avenue
Talk-in on 145.230 MHz (CTCSS 88.5 Hz)

Help eradicate blank space!

Get your news, views, stories and other contributions for the November issue of *The SPARC* to Editor, Paul Carter, N1TMF, no later than November 8, 2008.

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