



SIGNAL

January 1995 Volume 4 Number 1

From The President's Desk

The Holidays are wrapping up so there's more time to enjoy our hobbies now. The winter can be a time to recharge and take it easy. I got to spend time on the air during the Christmas to New Years break.



This month we need a nominating committee to find some volunteers to guide the club for 1995. Most of the present staff has held their positions for two of the three years the club has existed.

So we're entitled to a break. If your thinking about a position don't worry too much...none of us are leaving town or anything like that. Some may choose to take another position. The point is that you won't be left hanging. There's help available. The Board is there to provide continuity and support. That's why they have three year terms and are elected on a rotating basis.

I was sorting through some of the old club stuff and consolidating the files. It was interesting looking at the old newsletters. We have come a long nicely in a couple of years.

We were talking about Field Day recently and I asked Bruce if we showed up in the QST list. He said yes, but I know I had looked over that fine print several times without success. Well I guess that explains why my new glasses are bifocals. There we were near the top of the fifth column of 2A stations. Good job to Bruce and all the participants. Stan

At The Last Meeting

The December meeting was "Home-brew Night". Each homebrewer spoke explaining his entry. The entries were:

Bob W1XP built an 80-160M receiving loop antenna. Portable size.

Ralph KD1SM built a talking voltmeter to monitor emergency battery voltage for a blind Ham in Leominster

Earl WR1Y displayed a home made key and a soldering iron safety timer and standby voltage system.

Erik KD1RV brought his CCD camera system that will be used for astronomy.

Craig brought pictures and related the story of moving his tower from Connecticut to is new location in Pepperell.

Stan KD1LE displayed a packable four element Yagi for two meters. Stan

This Months Speaker & Beyond

This month Kevin Keller WB9MUP will talk about FOX hunting. Kevin has given hidden transmitter hunting presentations at past ARRL Conventions and run the Fox Hunts there. I know, that's where I participated in my first hunt. Kevin has built a lot of the hunting equipment as well as the Foxes.

Stan

The FCC Doings

ARRL Bulletin 100 ARLB100
December 21, 1994

Penalties in VE fraud

Two former volunteer examiners in southern California have surrendered their amateur station and operator licenses in an examination fraud case, and a third has agreed to a settlement.

Amateur Extra Class licensees Robert L. Flores, N6WPQ, and Rose Marie Flores, N6WPR, both of Santa Monica, California, faced an FCC order to show cause and suspension order from September 1994, in a case involving examinations conducted in August 1993. The FCC alleged that the VEs willfully signed VE certificates and Certificates of Successful

Completion for persons who did not actually take exams.

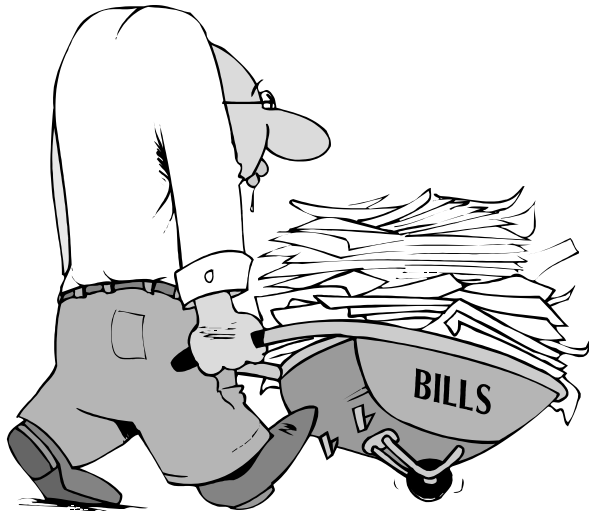
The FCC also said that the VEs misrepresented material facts to the Commission.

The third volunteer examiner, Amateur Extra Class licensee James B. Williams, AA6TC, of Wilmington, California, agreed to a one-year suspension of his operator license and a "voluntary contribution" of 500 dollar(s) to the US Treasury. Williams also agreed to cooperate fully with the FCC's Private Radio Bureau's investigation of possible additional fraud in amateur license exams.

The licenses of Robert L. and Rose Marie Flores have been canceled.

Stan KD1LE

\$The Treasurer's Report\$



In December we had income of \$42.00 and expenses of \$139.21. The large expense was a purchase of books for the new classes and of course we expect to fully recoup this from the class attendees. We had several members join the ARRL through NVARC-- which we (and ARRL!) certainly appreciate.

The current fund balances are:

General fund \$377.44

Education fund \$240.00

73 de Ralph KD1SM

Nashua VE Session

The December Nashua VE session had 27 candidates. They took 27 written elements and 9 CW elements. The resulting licenses/upgrades were 6 Tech, 1 Tech with HF, 1 Advanced and 1 Extra.

Stan

Other Club News

Subj: Novice/Tech course in Wellesley

A free eight-week course leading to the Novice or Technician class license will be given by the Wellesley Amateur Radio Society beginning January

28, 1995. The course will meet on Saturdays from 9 to 11 am on the campus of Babson College in Wellesley.

The course will cover the material required to pass elements 2 and 3a; code instruction is optional. The course guide will be the ARRL "Now You're Talking" book, available locally at Radio Shack stores and at "You Do It" Electronics in Needham.

If you know of someone who has been thinking about getting a ham license, this is a great opportunity to learn the material in a low-pressure, friendly environment. To register for the class or to find out more, contact Jerry Driscoll NV1T at 617 444-2686.

Wire antennas talk - 1/19 in Wellesley

The Wellesley Amateur Radio Society announces our speaker for January is Tom Lacouture WV1T. He will be speaking on "Wire Antennas". For many people in amateur radio, designing and building transceivers or complex station accessories is beyond their technical abilities, yet they still want to build some part of their stations. Antenna construction has always been one outlet for home brewing that most everyone can do and not end up spending a lot of money, either! Building wire antennas is an especially low cost way to get your feet wet in home brewing. Tom will talk about several different kind of wire antennas besides the ordinary dipole. This is sure to be a educational and practical talk. Of course, the talk is open to everyone.

Tom's talk will be at 7:30 p.m. on Thursday, January 19, in Gerber Hall on the Babson College campus. Babson College is on Forest Street in Wellesley. From routes 9 or 128, take route 16 west. Turn left onto Abbott Road at the Bay Bank and Bank of Boston buildings. At the end of Abbott Road, turn left, go straight through the four-way stop, then turn right into the campus at the main entrance. Parking is available down the second road on the left and Gerber Hall is on the left just after that road. Talk-in is on 147.03+. 73, Scott WO1G, Vice President Wellesley ARS

Board Meeting Notes

The January meeting was held at the mansion on the 12th. As usual we approved the expenditure of more money than we took in. Either more people are going to have to come to these meetings to control spending or you're going to have to find ways to make more money. HIHI



Although we haven't used all the books purchased for the class, the payment from Pepperell Parks and Recreation Commission for those sold will cover our entire cost. We did have to order additional instructors manuals because of two concurrent classes.

We discussed the initiation of a Public Service letter. It would be a compilation of known events needing additional radio operators. It would be sent out to area BBS.

The nominating committee for the new slate of officers was discussed. We will be looking for committee volunteers at the January meeting. The openings are for the four officer slots and two board members (one which has been vacant).

Home made ginger snaps and spiced cider topped off the evening.

Stan KD1LE

ARRL EMA

Excerpts from Phils notes....

[From the N.E. Division Director Bulletin 95-1]

MORE NEW ENGLAND AUTHORS TO BE IN QST-

We're starting 1995 off right with two local Hams being notified that their articles will soon be in QST. Mike Ardai N1IST of Brighton, MA will see his article, "Build a Digital Voice Keyer for Under \$15," in the April issue. And Frank Witt AI1H of Andover, MA will be published with his article entitled "Evaluating Your Antenna Tuner and Balun, Parts 1 and 2," in 1995.

Thanks to both authors for supporting our Amateur Radio journal and adding to our base of knowledge. Congrats, Mike and Frank de Phil

Subj: EMA ARRL Staff Roster

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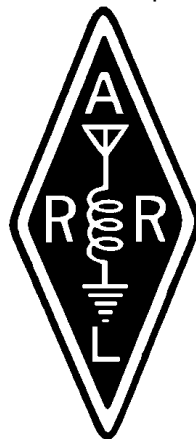
Technical Coordinator (open)

ASM/Internetworking

Terry Stader, KA8SCP 8 Christopher Rd., Westford MA 01886-3228 H: 508 692-2069

W: 617 270-0074 x354 Email: tstader@aol.com

Packet: ka8scp@wa1phy



ASM/Operating Activities

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Packet: >k1ea (packet cluster)

ASM/Educational Activities

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Email:

leo@banzai.ultranet.com

ASM/Youth Activities

Adam Shapiro, KB2RYU 66 Cross St., Ashland MA 01721 H: 508 881-3775

Email: shapiro@news.ci.net

ASM/VE, ASM/Regional (open)

NVARC Novice Classes

Over the last couple of years we have gotten pretty serious about teaching regular Ham classes. This year we have two in process at the same time. The Groton class which started in the fall has now resumed for the Technician portion. The scope is expanding beyond a license class to "How To" do this or that. How to set up an HF rig. How to set up a station. The reason being that we seem to lose some people that need help there and don't know who to ask or maybe are reluctant to ask. The Pepperell class has just started and has 11 students enrolled and a few more that should start next week. All of this activity has taxed our regular resources

and people. Earl WR1Y is coordinating the Groton class and I (Stan KD1LE) am coordinating the Pepperell class. Since we have so much going on right now I am looking for your help. We need the following items and support:

1. If you can help out by teaching a class please let me know. There are opportunities in both programs. We have been scheduling a person for just one class at a time, so you can have time to prepare and not have a burdensome commitment.

2. If you would rather do "How To", Earl could use the help over the next two months or so. That aspect may include sitting down with the new licensee and working through the hook up of their rig, or the first QSO. If that works out well I may add it to the Pepperell agenda.

3. Because of the number of instructors we may have preparing at any one time, I am looking for more copies of the "Now Your Talking" text book we use in the class. If anyone has one that they don't need anymore (why buy them?) we could use it (the send your books back to school program). We are buying several more instructors manuals. That way each instructor can get the set of manuals two weeks before the class to prepare.

4. The last item I'm looking for is code practice tape sets. I know there are a few around the club. I've given away a couple myself. If anyone has a set they have graduated beyond we could use them. Particularly the 5 and 13 WPM sets. We have been using the computer programs to help in the code learning, but not everyone has a computer. So if you have one of the tape sets you can give up it would be appreciated. In a related matter, we have Super Morse for the IBM compatibles and I have located some shareware Mac programs. But I have found nothing to compare with Super Morse for the Macs. If you know of a particularly good Mac code program let me know.

Stan

Novice Roundup (the last?)

The ARRL novice roundup (NR) is fast approaching, and as many of you may not know, this one will probably be the last. The NR was established as an on the air operating event (some would say contest) to help introduce novices (and technicians) to operating on the high frequency (HF) bands, and do it in a non intense, friendly way. Over the last few years, there has been diminished interest in the NR, due to the fact that newer hams are entering the hobby via the no-code tech license and the VHF (very high frequency) bands. The league will replace the NR with

an activity that, hopefully, will be of more interest to these newcomers.



Many new hams and old timers alike still aspire to use the HF bands (also called the shortwave bands). They are called the HF (high frequency) bands because in the very old days of radio, the short waves were considered high frequency!

Dave Sumner, K1ZZ, tells of his first NR (as KN1ZND), in the January QST editorial pages. My first experience in NR was much different. Having been on the air for only two weeks, I was (WN1KBG) 15 years old, and practically scared to death of having anything to do with a contest. No one told me how much fun it might be, or how it would improve my operating skills, or how easy it was once it was all explained to me. Since then, HF operating and contesting have become two of the more interesting facets of Amateur Radio to me (as anyone who has seen me at field day knows).

As a club, I would like us to encourage our novices, technicians, and recent graduates of the radio classes to jump into the NR. I challenge our more experienced members to also take part. We can use the NR as an opportunity to help our newer hams, by helping them get their stations on the air, answering their questions, advising them on operating techniques, and lending them helping hand. Best of all, we can give them (and other participants) contacts on the air.

Perhaps we should sponsor some friendly competition amongst our own club members?

January QST has the complete rules (on page 126), which are quite easy. I will bring copies for anyone interested.

NR is casual. To give everyone a chance, it begins at 0000Z Saturday, January 28, and ends 2400Z Sunday, February 5, and you can operate up to 30 hours. (For you locals, that's 7 PM Friday, January 27 until 7 PM Sunday, February 5.) Exchange signal report and ARRL section (or country for DX). 2 points for CW contacts, 1 for phone. Novices give their call /N, technicians /T. It's that Simple. Listen for (or call) CQ NR in the novice bands. And remember to report your scores to QST magazine!

I will have more information at the club meeting. If we don't meet there, please feel free to call me at home, (508) 772-4138.

CQ NR DE K1BG !!!

ARRL NOTES

DX Bulletin 75 ARLD075
From ARRL Headquarters
December 15, 1994



The items in this week's bulletin are courtesy of Tedd, KB8NW, the OPDX Bulletin, Rolf, DL7VEE, the DX News Letter, DJ8WL, Mike, OM2DX, and the 160M Bulletin. Thanks.

TUNISIA. Club station 3V8BB continues to be active and has recently added 160 meter capability. QSL via JF2EZA. No documentation for this operation has been received by the DXCC Desk.

KUWAIT. 9K2MU, with pile up assistance by DJ9LJ, has been working 3792 kHz around 0100z. QSL via WA4JTK.

MINAMI TORISHIMA. Ishi, JI7BCD, has been busy as JI7BCD/JD1. Check 7010 kHz at 1030z and 2345z. JD1BIE has also been spotted on 40 meter CW.

RWANDA. Alex, PA3DZN, who is active as 9X5EE on 40 through 10 meters, plans to be up and running on both 160 and 80 soon.

SOUTH SHETLANDS. Henry, SP3FYM, should be on the air in mid December, probably with the call sign HF0POL. His assignment should last through the end of 1995. Henry prefers RTTY and 160 meters. Rhombic antennas should provide many 160 meter operators with South Shetlands. DJ8WL reports Henry made nearly 25,000 QSOs during his 1990/1991 stay. SP2JYV may be active from King George base sometime in December. Listen for him on all bands with CW, SSB and RTTY.

FALKLAND ISLANDS. Dave, VP8BKT, has been very active. Try 14184 kHz between 0000 and 0300z, 18153 kHz at 1830z, and on 21290 kHz starting at about 1700z. VP8CMP has been on 21290 kHz between 1300 and 1500z.

ANTARCTICA. Gavin, VP8GAV, is now at Fossil Bluff, a British base. He has had a good signal on 14024 kHz after 2300z. QSL via GM0LVI. Eddie, V10ANT, has been active on RTTY from one of the Australian bases. Try 14083 kHz between the time slots of 0100 and 0200z, and 1300 and 1500z. If weather permits, Eddie will be sporting some sort of

Yagi. QSL via VK4EET, Eddie DeYoung, 131 Plan-tain Road, Shailer Park Q 4128, Australia.

PALESTINE. A very weak signal from a station signing ZC6B was heard on 14243 kHz at 1430z, Sunday, December 11. OE6EEG, who was on frequency maintaining the list, stated he would run the list operation for ZC6B every Saturday and Sunday. The DXCC Desk emphasizes that ZC6 was deleted from the DXCC Countries List as of July 1, 1968, and that the ZC6 prefix is currently assigned by the ITU to the United Kingdom. The DX News Letter of December 6 states that ZC6B was a joint venture DXpedition from the Ghaza Strip by Israeli and Jordan amateurs.

Merrimack Spring Sprint

Rules, IRS / Merrimack Valley First Anniversary Sprint

1) Object: For amateurs to exchange QSO information with as many stations as possible on the permitted bands. Work stations once each band and mode.

2) Contest Period: Sunday January 29, 1994. Starts at 0000Z (7 PM) and ends at 0200Z (10 PM).

3) Bands: 28 MHz, 50 MHz, 144 MHz, 222 MHz, 440 MHz



4) Categories:

(A) Single Op: One person performs all operating and logging functions. Use of spotting nets

is not permitted. Three power categories: QRP - 5 watt output or less; low power - 150 watts output or less; high power - more than 150 watts output.

- (1) All band or single band entries
- (2) Mixed mode (phone and CW)
- (3) Phone only
- (4) CW only

(B) Multioperator: Single transmitter mixed mode only. All band or single band entries. Those obtaining any form of assistance, such as relief operators, loggers or use of spotting nets.

5) Contest Exchange:

(A) 28 MHz only: W/VE stations send signal report and state (or province). DX stations send signal report and DXCC country. Novice stations sign /N; Technician stations sign /T.

(B) 50 MHz and up: W/VE stations exchange signal report and Grid Square.

6) Scoring:

(A) QSO points: Count 2 points for each complete two-way phone QSO. Count 4 points for each two-way CW QSO. Count 8 points for CW QSO's with US Novice or Technician stations signing /N or /T (28.1 to 28.3 MHz only).

(B) Multipliers: 28 Mhz: 50 US states, Canadian provinces, DXCC countries (except the US and Canada). 50 MHz & up: Same as 28 MHz plus Maidenhead Grid squares

(C) Final Score: Multiply QSO points by total multipliers (sum of states, VE provinces, DXCC countries and grid squares).

Example:

On 28 MHz, WB1HBB works 75 stations including 50 phone QSO's, 20 non-Novice CW QSO's, 5 Novice CW QSO's.

On VHF/UHF he has 80 phone QSO's and 20 CW QSO's covering 10 grid squares. In total, he worked 14 states, 2 Canadian provinces and 8 DXCC countries and 10 grid squares for a total multiplier of 34.

28 Mhz Points

50 phone QSO's: 100

20 non-Novice CW QSO's: 80

5 Novice/Tech CW QSO's: 40

VHF/UHF Points

80 phone QSO's 160

20 CW QSO's 80

Total QSO points: 460

F Score: 460×34 (mults) = 15,640

7) Miscellaneous:

(A) Call signs and exchange information must be received by each station for a complete QSO.

(B) No crossmode contacts. CW contacts must be made in the designated CW sub-band for each band worked.

(C) FM/AM/SSB counts as phone.

CW/RTTY/PACKET/AMTOR etc. Count as CW.

(D) One operator may not use more than one call sign from any given location during the contest period.

(E) All entrants may transmit only one signal on the air at any given time.

(F) Use of repeaters - phone or packet (except satellite) is prohibited.

(G) The use of non-Amateur Radio means of communication (e.g., telephone) for the purpose of soliciting a contact (or contacts) during the contest period is inconsistent with the spirit and intent of this announcement.

8) Reporting:

(A) Paper logs are required for contest qualification. All logs must be submitted no later than 30 days after the end of the contest (February 28, 1995). No late entries can be accepted. ARRL Contest forms must be used and are available from WB1HBB for an

SASE with one unit of first-class postage (\$0.32 in the US).

(B) Logs must indicate band, mode, date, time in UTC, call signs and complete exchanges (sent and received), multipliers and QSO points. Multipliers should be marked clearly in the log the first time they are worked. Entries with more than 500 QSO's total must include Dupe Sheets for each band and mode submitted. Send entries to: IRS/MV Sprint, 35 Drew Road, Derry, NH 03038.

9) Awards: A certificate will be awarded to the highest scoring station in each entrance category as listed in 3(A) & 3(B) above. The top scoring Novice and Technician in each category will also be awarded certificates. Additional certificates will be awarded as participation warrants.

10) Condition of Entry:

(A) Each entrant agrees to be bound by the provisions and the intent of this announcement, the regulations of the Federal Communications Commission and the decision of the Sprint Chair.

11) Disqualification:

Excess duplicates and call sign/exchange errors.

NEW NVARC MEMBER

Welcome to new member James Western N1TVD. Jim is a "graduate" of the most recent Groton license class. He passed the Technician test and jumped right in at 13 WPM on the code test.

NVARC QSL Bureau

The NVARC Bureau shipped in a pound of cards during the last week in December. There has been a steady stream of cards. Not quite enough to do monthly shipments yet. Stan

INTERNATIONAL HOST EXCHANGE

FROM: Phil Temples, K9HI
Section Manager, Eastern Massachusetts

Many of you may be unaware of a unique program that the League has in place. The International Travel Host Exchange listing is distributed to foreign hams who plan to visit the United States. The listing gives names, addresses, and other information about hams and their families who are willing to meet, and optionally, accommodate visitors.

In scanning the latest list, I am shocked to see only three entries for all of Eastern Massachusetts! I can speak from first-hand experience--this is a TREMENDOUS opportunity to interact with visitors

and see what it's like to be a ham radio "ambassador."

Just two weeks ago, I met Juan, CX6BAU and his wife Ines, CX9BAG. Even though we are not fluent in Spanish, Barb and I were able to arrange for another couple who *are* fluent to join us for a very entertaining social evening. And another local amateur, Myrton, N1GKE, also played a "coambassador" by providing Juan and Ines with a ride up to Ham Radio Outlet.

If you've ever thought it would be interesting to meet real people face-to-face from other parts of the world, I strongly encourage you to get signed up for the League's International Travel Host Exchange list. Drop me a note, or contact Nao Akiyama, NX1L, ARRL International Programs at (203) 666-1541 or e-mail to: nakiyama@arrl.org.

Let's put Eastern Massachusetts on the international "map"!

Contest University

The Yankee Clipper Contest Club will be holding a "Contest University" on Monday night in Andover. The purpose of this special meeting is to help anyone interested in contesting to improve their score, by answering questions and providing hot tips.

It is an excellent for new contesters to find out more about the thrill and fun of operating in a radio contest.

Let me know if you are interested in going. I will be there!

73 de Bruce, K1BG 508-772-4138

10 Ghz Record Claimed

Special Bulletin 1 ARLX001
From ARRL Headquarters January 13, 1995

10-GHz record claimed

Roger Bowman, VK5NY, and Walter Howse, VK6KZ, have claimed a new world distance record on the amateur 10-GHz band.

On December 30, 1994, the two worked over a path of 1911 kilometers. Both VK5NY and VK6KZ were portable, the former near his home in Adelaide and the latter portable near Perth. VK5NY used 180 milliwatts to a 400-mm dish while VK6KZ ran 100 mW to a similar antenna. The 2-way contact was on SSB.

The previous 10 GHz record of 1018 km was held by WA6CGR and XE/N6XQ. N6CA and KH6HME continue their efforts to span the 3973-km path between California and Hawaii on 10 GHz.

Howse said there was a typical high pressure cell in the Great Australian Bight, a large inlet body of water, and that good signals were present over the

1900-km, nearly all-water path on 144, 432, and 1296 MHz. On the second night, VK5NY drove 250 km to another location in an attempt to once again increase the record distance, but no contact was made.

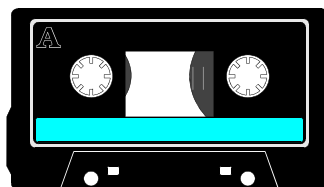
VK6KZ reports hearing, and being heard by, David Minchin, VK5KK, a few km farther than VK5NY, but no 10-GHz 2-way contact resulted. VK6KZ lives about 1000 km (some 600 miles) from his portable location near Perth, and must drive there to make these attempts at UHF records. "I have to choose the right time." he said.

RS-15

Space Bulletin 002 ARLS002
From ARRL Headquarters January 13, 1995

The recently launched RS-15 Russian satellite was sent aloft on the first successful test flight of a new launch vehicle. RS-15 was the only passenger on the new "ROKOT" rocket, a joint commercial venture between Germany and Russia. ROKOT is described as a low cost launcher for small satellites into low-earth and sun-synchronous orbits and will be available for commercial launches by the end of 1996, according to Peter Guelzow, of AMSAT-DL. ROKOT may also offer economical launch opportunities for Amateur Radio satellites and experiments, Guelzow said, and the "user's manual" for ROKOT will be made available to AMSAT-DL, he said. RS-15 is now operational; Keplerian data is available on W1AW.

From the Video Library



The Video Library now has seven titles available to loan.

- **The Last Voice From Kuwait**
- **The all China DF Competition**
- **Your League at Work**
- **Signal to Noise Story**
- **Gonzaga Prep HS Radio Club Satellite Communications**
- **The New World of Amateur Radio**

You can get them anytime you can catch me at home, and I will bring the available tapes to each meeting. Stan

ARRL NE Div Cabinet Meeting

Subject: NE Div. Cabinet Meeting
On Saturday, January 14 thirty-nine ARRL New England Division field appointees and club presidents

met in Manchester, New Hampshire to discuss ARRL activities in the Division. Division Director Bill Burden WB1BRE and Vice Director Warren Rothberg WB1HBB presided. Following introductions and a moment of silence for silent keys W1TMO and W1HAD, Bill opened the meeting with a brief report on the ARRL strategic planning process. Among other things, the new strategic plan recognizes that ARRL's "core membership" should no longer be strictly male! ARRL views its primary mission is to be an advocacy organization for hams, protecting spectrum access.

Warren gave a status update on the vanity callsign program. The authorization for the program itself is now circulating among the FCC commissioners for final signatures. That's the good news. The bad news is that the legislation in Congress to allow the FCC to collect a one-time fee for a vanity call passed the House but did not make it onto the Senate's agenda. The ARRL had supported a one-time fee only, so as not to set a precedent for possible future annual renewal fees for all amateur licenses. Unfortunately, without the Congressional approval the only option the FCC has to recover the additional costs of this program is to use its existing authority to collect up to \$7.00 per year. So, the ARRL expects that initially the vanity callsign program will have a \$70 charge for a 10-year license with the hope that the new legislation can be approved before the 10-year expiration date. A straw poll was taken of the attendees and the overwhelming opinion was that the program should not be started until we were guaranteed that at most a one-time fee would be charged, so as not to run the risk of opening the door to renewal fees for all amateur licenses. As a secondary matter, the ARRL is supporting efforts in Congress to permit the FCC to retain the fees from the vanity callsign program for use in enforcement activities.

Reports were presented by the New England Division representatives to various ARRL advisory committees: W1PH; Contest Advisory Committee, WB1CMG; Spectrum Management Committee, K1MEM; DX Advisory Committee, and WA1IDA; Public Service Advisory Committee. W1PH reported that unfortunately some contesters seem to be spending time looking for loopholes in the rules rather than sticking to the spirit. This forced changes to the Rover rules but the new rules were also found to be flawed, and will be revised again. iWB1CMG reports that with commercial activity now starting on 220-222MHz, those frequencies are now irrevocably lost to the amateur service. There is still hope that 219-220 may be allocated to us. 900 MHz is in jeopardy due to automatic vehicle location systems, which will be coming to the Boston area in the next year or two. Dave urges everyone to move up in frequency; especially fixed links.

Al Shuman N1FIK announced that commercial booth sales for the ARRL Convention in July are

well ahead of expectations. The number of booth spaces has been expanded from two years ago and already more booths are committed than were there the first year.

For me, even though it meant I missed enjoying the record 60 degree temperatures outdoors, it was an interesting way to spend the day. Many ideas were discussed for improving ARRL's service to its members and attracting new members. Some of these I may bring up at club meetings for you to consider and offer your comments to your league officials. 73 de Ralph, KD1SM

Resource List

Construction	Earl Russell	448-5822
DX	Bruce Blain	448-9438
NTS, MARS	Stan Pozerski	433-5090
RACES	Ben Akins	433-9227
TCP/IP	Ralph Swick	582-7351



Nashoba Valley Amateur Radio Club

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V Pres.: Scott Pyles, WX1J
Secretary: Duane Long, KD1JY
Treasurer: Ralph Swick, KD1SM
Editor: Stan Pozerski KD1LE
PIO: Earl Russell WR1Y

Meetings are held on the 3rd Thursday of the month -
7:30 p.m. - Pepperell VFW hall. Talk-in 146.490
simplex

This newsletter is published monthly. Submissions, corrections and inquiries should be directed to the newsletter editor. Articles and graphics in most IBM-PC formats are acceptable.

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