NVARC Nashoba Valley Amateur Radio Club

SIGNAL

de N1NC

November 2009 Volume 18 Number 11

This Month's Meeting

This month's meeting program will be "CW' by Greg WA1JXR. Greg will talk about the many aspects of operating CW from signal advantages to the equipment such as straight keys, mechanical keyers, paddles and electronic keyers. Greg hails from the Central Mass Amateur Radio Association (CMARA).

Remember the December meeting program is Homebrew Nite so think about all those homebrew projects you can share with the rest of us. The more participants there are the more interesting it will be.

January is Members Short Subjects so we are looking for three or four 5-15 minute presentations to fill the program.

Wear your badge to the meeting so new members can tell your name and you can introduce yourself to them. It may be worth your while.

In-Club Recognition Program

The Club Recognition Program is still in effect. Submissions are due by year end. See Skip K1NKR for more information or help.

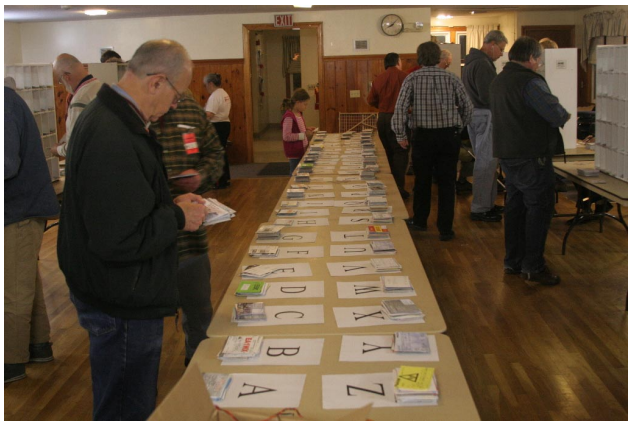
Follow the membership link on the club homepage for more information.

Last Month's Meeting

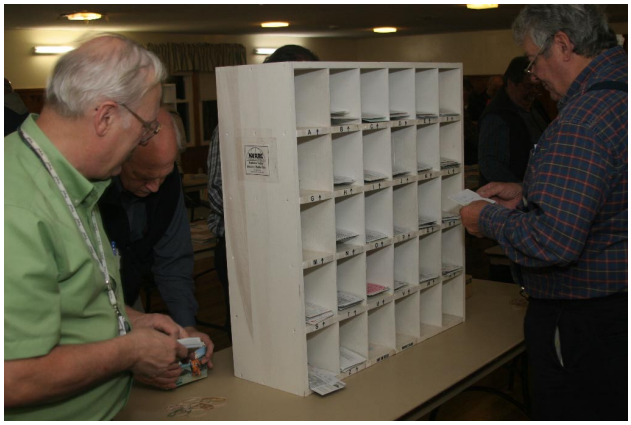
Last month's meeting program was our annual QSL Card Sort for W1 QSL Bureau. We sorted about 20,000 cards. This is a popular meeting and besides great NVCARC attendance we had participants from PART in Westford and MARA from Lunenburg.

Over the years we have become more and more efficient at the sort and now having had a QSL Sort for more than 10 years.

Since there was a threat of rain Stan KD1LE brought the sorting boxes and miscellaneous equipment to the Community Center in the afternoon. This allowed us to set up the eight sorting boxes and collection tables quickly at 7 PM when the hall was open.



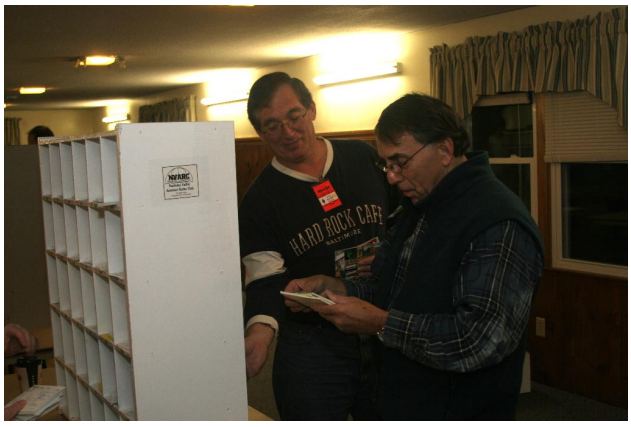
In the center of the room the tables had the letters A-Z and Z-A. These tables were primarily used to accumulate the cards once the sorting boxes started to fill up. A few people used them to sort.



Most people sorted at a sorting box. Two people on each side can sort effectively. The only drawback is that on one side of the box the alphabet is backwards. Most people adjust quickly though.

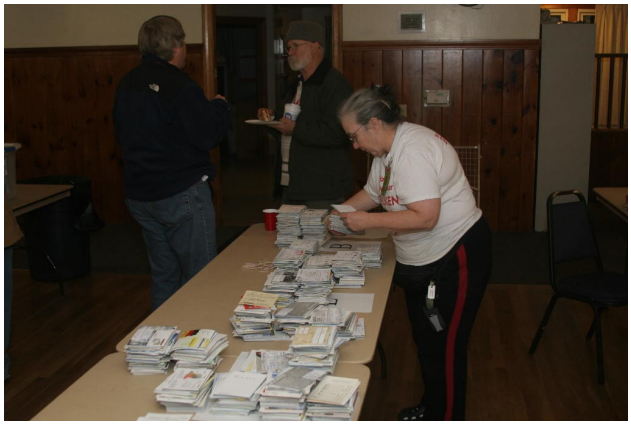
When the unsorted cards were almost exhausted we ordered pizza. By the time it arrived the sorting was done and everyone was picking up cards by the letters from the sorting boxes and putting them at the appropriate letter on the A-Z tables.

After the cards were sorted and collected from the sorting boxes participants were able to sort through the cards for their call sign letter for their incoming cards.

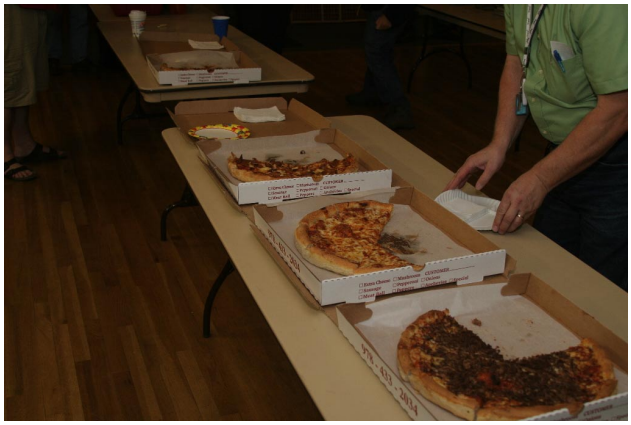


Above Bruce K1BG and Dennis K1LGQ share one side of a box.

We finished sorting by 8:30 and had most of the cards accumulated from the sorting boxes to the central tables by 8:45 when the pizza arrived.



Nancy KB1KEF scanning completed piles for correctness and banding them up.



After having pizza and drinks the final cards were collected, banded, and boxed.

During previous sort several cards were seen with contact dates more than 10 years old. This probably has more to do with the sender finally sending a card than delay in the bureau system but is still interesting. This year most of the cards were from 2008 and 2009 with some as recent at June 2009. The oldest card seen was October 2002.

Over the course of the meeting Stan and Ralph passed out the batteries, final instructions, and a small parts kit to those participating in the NVARC Lantern Battery Challenge.

Recorded as participating:

Bruce K1BG, Ken K1JKR, Dennis K1LGQ, Leo K1LK, Skip K1NKR, Tom K1NNJ, Gary K1YTS, Larry KB1ESR, Nancy KB1KEF, Stan KD1LE, Ralph KD1SM, John KK1X, Tony KX1G, Les N1SV, Peter N1ZRG, Peter W1LLB, Roland W1RLG, Erik W1ZBT, Bob WA1SMI, Rod WA1TAC, Earl WR1Y

Visitors:
Bob KB1JZU, Ray KB1LRL, Joe KB1RLC, Al W1AHM, Barry W1HFN, Samantha Hirsch.

Card Sort Wrap Up

After the cards were sent off to the person who manages distribution to the letter sorters I received two emails from our Bureau contacts. The first was asking to know if our sorting boxes were available to other clubs sorting for the Bureau as there was interest by another club on doing a sort. I replied that the boxes were available (as they had always been) to a club sorting for the Bureau. The second email was a request for more detailed information about how we sort and what we do to set up, sort, and anything we do to reduce errors.
I responded with how we run a sort. I am confident we run one of the most efficient and accurate sorts.

Stan KD1LE

PSLIST

Every event needs communications volunteers

October
11 Boston BAA Half Marathon, Bob WA1IDA

See www.n1nc.org/Events for the latest

Board Meeting

Reimbursements for the drinks and pizza for the QSL Card Sort meeting have been taken care of.

Discussion of upcoming meeting presentations. The Novembers meeting speaker is set. December meeting will be Homebrew and January will be Members Short Subjects so we need member participation.

Ralph Ralph was not present but submitted the Treasurers report for the newsletter.

The bid information was received from John for the auction items. Bids closed at the end of the October meeting. The Board reviewed the list and after establishing the criteria for a successful bid approved many of the submissions. The list was returned to John to arrange payment and transfer of the items.

Some award possibilities discussed.

In attendance were Stan KD1LE, Skip K1NKR, Peter N1ZRG, Bob W1XP.Larry KB1ESR, Stan KD1LE.

Adopt A Highway

Our October road cleanup was completed18th.

We need to have eight participants so we can do a complete job. With that number to make quick work of the entire section we do.

We are starting at 8:00 AM. The next road clean up will be Sunday November 18th.

Treasurers Report

Income for October was $50 in membership renewals, $36 in donations, $17 from ARRL new memberships and membership renewals, $22.38 in bank interest, $45 for Lantern Battery Challenge batteries, and $15 from PowerPole connector sales. Expenses were $17.60 for newsletter postage, $75.90 for the October QSL card sort refreshments, and $120.51 for the Lantern Battery Challenge leaving a net expense of $28.63 for the month.

Current balances:

General fund	$4,114.25
Community fund	$2,849.41

As of 11 November we have 44 members who are current with their dues and 21 renewals outstanding. Pleasef check your renewal status on the roster circulated at the monthly meeting or ask Ralph.

If your ARRL membership is ready for renewal, you can let Ralph mail it in for you and the Club will get a commission. If you're interested in joining the ARRL and do so through Ralph the Club will get a bigger commission. ARRL membership checks should be made payable to NVARC so that our commission can be deducted before we forward your membership to Newington.

Ralph KD1SM

ARRL Letter

Public Service: Ham Radio Operators Assist in Catalina Island Rescue

Around 9:45 on the night of October 23, while attending an overnight event at the Boy Scouts' Camp Emerald Bay on Santa Catalina Island, Karl Tso, KI6PCW, and his wife, Deborah Ava, KJ6CRZ, of

Topanga, California, decided to climb a hill to check out the view -- and to see if they could get into the repeater on the island with their handheld transceivers. As they climbed the hill, the two radio amateurs heard a sound; Tso turned his high-powered flashlight on the source, only to discover a man who had fallen 48 feet to the rocks below, bleeding and severely injured. Read here.

ARRL Recognizes: George E. Smith, AA2EJ, Wins Nobel Prize

Nobel Laureate George E. Smith, AA2EJ. Smith received the 2009 Nobel Prize in Physics for his invention of the charged-couple device (CCD).

Around 5:30 on the morning of October 6, George E. Smith, AA2EJ, of Barnegat, New Jersey, got a phone call that changed his life: He had just found out he had won the Nobel Prize in Physics for 2009 "for the invention of an imaging semiconductor circuit -- the CCD sensor." Smith will share the prize money with two other recipients: Charles K. Kao, of Standard Telecommunication Laboratories in the United Kingdom and Chinese University of Hong Kong, and Willard S. Boyle, of Bell Laboratories. Each recipient will receive a diploma, a medal and a document confirming their share of SEK 10 million (about $1.4 million); Kao will receive 50 percent, while Smith and Boyle will each receive 25 percent of the monetary award.

Kao was recognized by the prize committee for his "groundbreaking achievements concerning the transmission of light in fibers for optical communication." His discoveries paved the way for optical fiber technology, used for almost all telephony and data communication today. Boyle and Smith invented a digital image sensor -- the CCD -- that has become an electronic eye in almost all areas of photography.

"My wife Janet, AA2EI, and I sailed around the world for 17 years," Smith told the ARRL. "While we were on our boat, we used Amateur Radio, especially in the South Pacific. Janet was the principal radio operator. With our radio, we could keep track of other boats in the area. Over in the Southwest Pacific, there are shore stations there that provide weather forecasts every day on the ham radio. We would listen for these, as it was such a tremendous help for us as sailors."

This very first CCD prototype was pieced together months after Smith and Boyle laid out its working principles.

The CCD -- invented in about an hour over lunch when Smith and Boyle worked at New Jersey's Bell Labs -- was, according to Wired Magazine, the first practical way to let a light-sensitive silicon chip store an image and then digitize it. In short, it is the basis of today's digital camera. According to Wired, the "most amazing thing about the invention" is that Boyle and Smith came up with the design so quickly. With Bell Labs threatening to take the funds from their department and transfer the money to other research, Boyle had to come up with a competing semiconductor design. He got together with Smith, and within an hour, they came up with the idea and sketched it all out on a blackboard.

"One morning in October, 1969," Boyle wrote on his Web site, "I was challenged to create a new kind of computer memory. That afternoon, I got together with George Smith and brainstormed for an hour or so on a new kind of semiconductor device, drawing a few sketches and equations on a blackboard. We called it a charge-coupled device: A 'CCD.' When we had the shops at Bell Labs make up the device, it worked exactly as expected, much to the surprise of our colleagues."

When asked by the ARRL how he felt about winning the Nobel Prize, he exclaimed, "I feel great! Even though there's a lot of nonsense to go through with it, it's worth it and winning it does wonders for your ego. Aside from the initial shock and having to go through piles of mail, e-mail and returning telephone calls, I know that will calm down. As for the long-range future, I'm getting many invitations to give talks. Next year, I've been invited to speak at a major conference in Seoul, South Korea, another in Portland Oregon and another in Switzerland. I've been invited to France to give a talk, China, too. We need to sit down with a calendar and figure it all out. Having a Nobel makes a big dent in your lifestyle."

Smith told the ARRL that he knew the CCD was under consideration for the Nobel Prize, "but we didn't know exactly if, or when, it would happen. Research that wins the Nobel is often done many years beforehand. In my case, this was 40 year old research. The Prize Committee wants to make sure the research has stood the test of time.

Without CCDs, this image -- taken by the Hubble Space Telescope in 2002 showing "light echos" illuminating the dust around supergiant star V838 Monocerotis (V838 Mon) -- would not be possible. V838 Mon is located 20,000 light-years away on the periphery of our Galaxy. In early 2002, it increased in brightness temporarily to become 600,000 times brighter than our Sun.

"Amateur Radio has always attracted individuals who want to understand and exploit nature's laws," fellow Nobel Laureate Joe Taylor, K1JT, told the ARRL.

"These are essential characteristics for first-rate scientists, as well. The 2009 Nobel Prize in Physics honors the invention of an imaging semiconductor circuit -- the CCD sensor used in digital cameras, the Hubble Space Telescope and many other scientific and consumer devices. It was no great surprise to learn that one of the Laureates, George Smith, is also a radio amateur." Taylor was awarded the Nobel Prize in Physics in 1993 "for the discovery of a new type of pulsar, a discovery that has opened up new possibilities for the study of gravitation."

Next month, Smith will travel to Stockholm, Sweden for the award ceremony on December 10. It is certain that his picture will be taken scores of times by the international media, made possible through the technology that he and Boyle pioneered. Click here for more information, including how a CCD works.
+ Operating: Fall Frequency Measuring Test This Month

The W1AW Frequency Measuring Test (FMT) has taken several different formats over the past few years. This year, we return to the "classic" FMT -- measuring the frequency of an unmodulated carrier. Accurate frequency measurement is required of all hams for both regulatory compliance -- "stay in the band!" -- and operating convenience, particularly on the new digital modes. The W1AW FMT will run on November 12, 2009 at 0245 UTC (this is Wednesday evening, November 11, 2009 at 9:45 PM EST). It will replace any W1AW bulletin normally scheduled for that time. It is recommended that participants listen to W1AW's transmissions prior to the event to get an idea of conditions to see which band (or bands) will be best for measurement purposes. Read more here.

Advocacy: More Cosponsors for HR 2160

Earlier this week, two more Congressional Representatives -- Andre Carson (D-IN-7), and C.W. Bill Young (R-FL-10) -- pledged their support for HR 2160, The Amateur Radio Emergency Communications Enhancement Act of 2009, bringing the total number of cosponsors to 31, including original sponsor Sheila Jackson-Lee (D-TX-18). HR 2160 is also sponsored by W. Todd Akin (R-MO-2), Michael Arcuri (D-NY-24), Roscoe Bartlett (R-MD-6), John Boozman (R-AR-3), Madeleine Bordallo (D-Guam), Geoff Davis (R-KY-4), Bob Filner (D-CA-51), Scott Garrett (R-NJ-5), Bart Gordon (D-TN-6), Brett Guthrie (R-KY-02), Maurice Hinchey (D-NY-22), Michael Honda (D-CA-15), Mary Jo Kilroy (D-OH-15), Tom Latham (R-IA-4), Zoe Lofgren (D-CA-16), Blaine Luetkemeyer (R-MO-9), Thaddeus McCotter (R-MI-11), Charlie Melancon (D-LA-3), Candice Miller (R-MI-10), Dennis Moore (D-KS-3), John Olver (D-MA-1), Bill Posey (R-FL-15), Dana Rohrabacher (R-CA-46), Bennie Thompson (D-MS-2), Michael Turner (R-OH-3), Peter Welch (D-VT), David Wu (D-OR-1) and Don Young (R-AK). On the Senate side of Capitol Hill, S 1755 -- also called The Amateur Radio Emergency Communications Enhancement Act of 2009 -- cleared the Senate Homeland Security and Governmental Affairs Committee with a favorable recommendation by voice vote. It now proceeds to committee staff to prepare the report for the full Senate. Click here for information on how to encourage your Congressional representative to sponsor HR 2160.

ARRL Recognizes: Three Amateurs Inducted into Consumer Electronics Hall of Fame

Earlier this year, the Consumer Electronics Association (CEA) named 13 men -- including three radio amateurs -- to the Consumer Electronics Hall of Fame. The honorees were inducted last month at CEA's Industry Forum in Phoenix, Arizona. Former ARRL Rocky Mountain Division Director Walt Stinson, W0CP, of Englewood, Colorado; Former ARRL Vice President and Central Division Director R.H.G. Mathews, W9ZN (ex-9ZN) (SK), and Karl Hassel, W9PXW (ex-8AKG) (SK). Read more here.

ARRL in Action: What Have We Been Up to Lately?

Compiled by ARRL News Editor S. Khrystyne Keane, K1SFA

This feature -- including convenient Web links to useful information -- is a concise monthly update of some of the things ARRL is doing on behalf of its members, such as a recent webinar concerning Amateur Radio and pecuniary interests, the Fourth Annual ARRL On-Line Auction, orientation for newly elected Section Managers and more. This installment covers the month of October. Read more here.

MARS: MARS Cuts Ribbon on New Pentagon Station

A military institution designed to provide emergency communications has moved to new quarters in the Pentagon. On October 21, John G. Grimes, the former Assistant Secretary of Defense for Networks and Information Integration, cut the ribbon on the new Military Affiliate Radio System (MARS) station, now located on the fifth floor of the Pentagon. The facility -- manned by the Pentagon Amateur Radio Club (PARC) -- is packed with amateur radios, radiotelephone patches, computers and data links. "This is a great facility, manned totally by volunteers," Grimes told the crowd who came to see the new sta-

tion. "It's a crucial capability for our country." Read more here.

Now You Know!: Hiram Percy Maxim and the W1AW Station

More than 1000 visitors come to see ARRL and operate W1AW each year. Each visitor has a chance to tour ARRL HQ and meet and talk with staff, and see all that the League does to promote the Amateur Radio Service. When they go over to W1AW, some guests want to know if the station was once the home of Hiram Percy Maxim, cofounder and first President of the ARRL.

The July 1920 edition of QST featured Maxim's house on its cover.

In February 1936, when Maxim died of pneumonia on his way back from visiting Lick Observatory on Mt Hamilton in San Jose, California, the ARRL HQ station -- W1MK -- was located at Brainard Field in Hartford. In March 1936, the Connecticut River flooded and the building where the station was housed was destroyed by the flood waters. The League's Board of Directors decided that a new station be built on a more suitable site in memory of Maxim. In December 1936, the FCC -- in the first action of its kind -- assigned the call W1AW to ARRL in memoriam. The ARRL purchased a 7 acre site in Newington, about 5 miles southwest of Brainard Field. From the flood until September 1938, W1MK operated from ARRL Headquarters, then on LaSalle Road in West Hartford. On September 2, 1938 -- what would have been Maxim's 69th birthday -- W1AW, the Hiram Percy Maxim Memorial Station, was dedicated, with the ceremony broadcast across the country by CBS Radio. So, no, the building where W1AW is located was never home to Hiram Percy Maxim; in fact, he never saw it. But even so, we know that his spirit lives on every time we sit down at a radio. Now you know!

Do You Know?: A Trivia Answer for Our Readers

Last week, ARRL News Editor S. Khrystyne Keane, K1SFA, told ARRL Letter readers about the long and proud history of the ARRL Sweepstakes, mentioning that at one point, The Philippines was a multiplier in the Sweepstakes, as was Cuba (as part of the West Indies Section). We wondered what years that The Philippines and the West Indies Sections ceased to be multipliers in Sweepstakes. Unfortunately, we didn't receive any correct answers. The Philippines was no longer a Section as of 1946 and in August 1988, two new Sections -- Puerto Rico and US Virgin Islands -- replaced the West Indies Section (Cuba disappeared from the West Indies Section in 1940). Thanks to everyone who sent in answers. Look for another trivia question in a future edition of The ARRL Letter.

Operating: Changes for the 2009 November Sweepstakes

Next month, amateurs throughout the US and Canada will take part in the longest-running domestic contest, the 76th ARRL November Sweepstakes. Since 1930, this tradition in Amateur Radio has brought out all kinds of amateurs -- from seasoned contest veterans to neophytes, from long-time traffic handlers to operators new to HF. The CW running of Sweepstakes takes place next weekend, November 7-9, while the SSB weekend is November 21-23. Each event runs from 2100 UTC Saturday until 0300 UTC Monday. All entrants may operate 24 out of the 30 hours. Click here for more information, including changes to the log submission deadline.

Public Service: FCC Issues First Waiver for Government-Sponsored Disaster Drill

On October 27, the FCC's Wireless Telecommunications Bureau (WTB) granted the first waiver that allows amateurs who participate in a government-sponsored emergency preparedness and disaster drill to communicate on behalf of their employers during the drill. The waiver request was made on behalf of the Commonwealth of Kentucky. That state conducted a full-scale exercise on Wednesday, October 28, 2009 from 8 AM-5 PM (EDT) to test their emergency response to the possible release of chemical agents at Blue Grass Army Depot, located near Richmond, Kentucky. Click here for more information.

Public Service: Santa Cruz County Hams Called to Assist During Wildfires

Almost 20 years to the day since the Loma Prieta Earthquake shook California's Bay Area, a wildfire was burning through Santa Cruz County (approximately 75 miles south of San Francisco) just miles from the epicenter of the quake that caused part of the Bay Bridge to collapse. Just as Amateur Radio operators responded to calls for assistance for the earthquake, 20 years later on October 25, they responded when needed for a 485 acre wildfire.

The Doctor Is IN: Antennas for Domestic Contests

By ARRL News Editor S. Khrystyne Keane, K1SFA

Just the other day, the Doctor and I got to talking about ARRL Sweepstakes. I showed him my crystal mug and whisk broom from last year's Sweepstakes running (the W1AW team did quite well), and he showed me what kind of antennas I should look into for domestic contests. Being more of a DX RTTY contester, I really don't know much about the domestic side of things. I dabbled in the February NAQP RTTY Contest last year from K1TTT -- and will do so again in 2010 -- so I made sure to listen attentively. Here is what the good Doctor had to say:

Figure 1: Azimuth pattern of a half-wave dipole at a height of half a wavelength has a -3 dB beamwidth of of 87 degrees on each side -- a close match to the coverage needed by W1ZR to reach US and Canadian stations. Click the picture to enlarge.

Each contest brings its own special requirements to the antenna designer. While many popular contests focus on communications outside North America and require the ability to send signals to all points of the compass, Sweepstakes is different, with a need to cover just the US and Canada. That means generally shorter range contacts and contacts in a limited range of directions, depending on station location.

In addition, points are gathered based on individual contacts multiplied by ARRL Sections. Thus, it is desirable to have the capability to reach all 80 sections on at least one band that will have propagation available. ARRL Contest Manager Sean Kutzko, KX9X, notes that many a contest superstation's secret weapon for Sweepstakes is a 40 meter dipole up between 25-30 feet. He says 40 meters is the Sweepstakes "money band" -- you can get close-in contacts during daylight and rake in the distant Sections when the band goes long in the evening hours. He said he had never put in a serious effort at Sweepstakes without a low dipole for 40, no matter how much aluminum he had up in the air.

Figure 2: By adding a 5 percent longer than the dipole and 6 feet behind it, I reduce -- but don't eliminate -- rearward radiation and provide some gain to the front where distances are longer. Click the picture to enlarge.

Another great solution is a multiband Yagi that can be pointed towards the areas with the best propagation. If possible, have it relatively low -- perhaps at a half-wave length above ground -- to be able to cover the close-in stations, as well as those at the continent's far edge. Obviously, from the Central US or Canada, distances tend to be shorter than they are from the coasts with stations near the edges better able to make use of higher antennas. If you have the ability to try different heights, by all means try lowering your antenna from the optimum height for transcontinental contacts and see what works best for you.

If you're like me and don't have rotatable HF arrays available, all is not lost. First you need to figure out what azimuths you need to cover and then try to match those to fit your location. From my Connecticut location, I would want to cover from the direction toward old friend Don, WT1I, in Ocala, Florida (bearing 214?) up to Mark, KL7TQ, my old Army buddy in Eagle River, Alaska (322?).

There are many ways to compute the bearing to a station. The easy way out is to just use www.qrz.com. If your listing includes your latitude and longitude, bringing up another station and "looking at the details" will provide you with the bearing to their station. If you don't know anyone at the edges of the desired coverage area, just put a city name in the "Name Search" function and pick one that comes up. It doesn't get much easier -- or, if you must, you can use spherical trigonometry.

Figure 3: If I have no need for coverage to the rear, I can optimize the reflector length to achieve more gain by focusing almost all of my signal to the front. Click the picture to enlarge.

Using my station as an example, the range of bearings I want to cover requires a beamwidth of 322? minus 214?, or 108?. A half-wave dipole at a height of half a wave length has a -3 dB beamwidth of 87? (see Figure 1). At a width of 108? it's only down to -4.6 dB from the peak. That's pretty close, and might be good if I had a lot of distant stations behind me, as in Central US or Canada, but I don't.

If I were to put a wire reflector, 5 percent longer than the original dipole, 6 feet behind it (for 20 meters), I would have an easy to deploy 2-element Yagi with the pattern shown in Figure 2. To make it resonate in mid band, I need to trim about 4 inches from each end of the now driven element and I'm good to go. Note what I have -- a bit more gain in front, a lot less in the back, but still plenty of signal toward northern New England. My signal at the edges of my coverage area is now stronger than the dipole's -3 dB points.

If I don't have many stations to my rear, an additional 1 dB of forward gain can be achieved at the expense of rearward signals (see Figure 3) and a higher SWR by shortening the reflector a few inches -- about 2.5 percent over the driven element should do the trick. This may be worthwhile if you are right at a corner of the country. For more bands, just use parallel elements and multiple reflectors. See the article by

Marcus Hansen, VE7CA, to get the idea. Azimuth plots represented in Figures 1, 2 and 3 represent the output from the EZNEC antenna modeling software by Roy Lewallen, W7EL.

Thanks Doctor! Do you have a question or a problem? Send your questions via e-mail or to "The Doctor," ARRL, 225 Main St, Newington, CT 06111 (no phone calls, please). Look for "The Doctor Is IN" every month in QST, the official journal of the ARRL.

Did You Know?: ARRL Sweepstakes

The ARRL November Sweepstakes was once called "The January Contest." First held in 1930, the first running of what we know of today as ARRL Sweepstakes, last two weeks. J. F. Feely, W1ADW, of Danbury, Connecticut, came in first place with 153 contacts in 43 Sections, giving him a score of 13,158 points. Click here for more information on this event, now in its 76th running.

Product Review: A "Sneak Peek" at December QST

Click here to see ARRL Test Engineer Bob Allison, WB1GCM, preview the two items featured in the December 2009 QST Product Review column.

ARRL Test Engineer Bob Allison, WB1GCM, offers ARRL Letter readers a "sneak peek" at the two items featured in the Product Review column of the December 2009 issue of QST. Get up close and personal with the ICOM IC-80AD dual band handheld transceiver, reviewed by QST Editor Steve Ford, WB8IMY, and the Ten-Tec 715 RF speech processor, reviewed by Allison. Check it out!
Ad

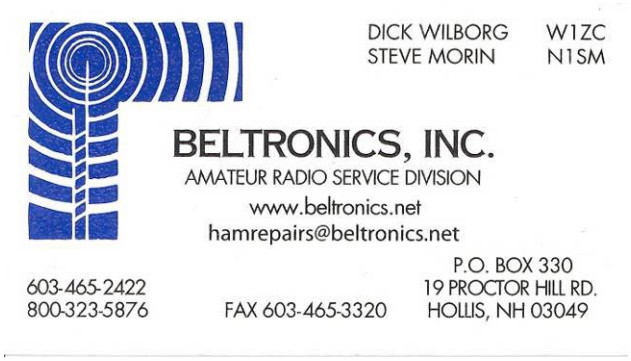
Organizational: ARRL President Joel Harrison, W5ZN, Not to Seek Reelection

ARRL President Joel Harrison, W5ZN After serving two terms as ARRL President, Joel Harrison, W5ZN, has decided not to seek reelection when his current term expires January 16, 2010. Harrison began his ARRL career as a volunteer ARRL elected official in 1983 when he became the Section Manager in the League's Arkansas Section. Subsequently, he has served as Delta Division Director and Vice President. In 2000, he was elected First Vice President; he was elected President in 2006.

2009 Flea Markets/Conventions

November
FARAFest Falmouth ARA, Bourne MA

Advertisements



Tell them you saw it in the Signal. Advertisers should contact the NVARC Treasurer for information.

Upcoming Contests

November:

ARRL Sweepstakes CW 2100z 11/7 – 0300z 11/9, KY QSO Party 1400z 11/14 – 0200z 11/15, ARRL Sweepstakes SSB 2100z 11/21 – 0300z 11/23, CQWW International DX CW 0000z 11/28 – 2400z 11/29.

December:

ARRL 160m 2200z 112/4 – 1600z 12/6, ARRL 10m 0000z 12/12 – 2400z 12/13, Stew Perry Topband Challenge 1500z 12/26 – 1500z 12/27.

For further info on these and other contests refer to; http://www.hornucopia.com/contestcal/index.html.

Nashoba Valley Amateur Radio Club

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http://www.n1nc.org/

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Vice President: Peter Nordberg N1ZRG
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Treasurer: Ralph Swick KD1SM
Board Members:
Bob Reif: W1XP 2007-2010
Skip Youngberg K1NKR 2008-2011
Joel Magid W1JMM 2009-2012

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Meetings are held on the 3rd Thursday of the month
7:30 p.m. - Pepperell Community Ctr.
Talk-in 146.490 simplex
442.900 + 100Hz Repeater battery power
147.345 + 100 Hz Repeater
53.890 – 100Hz Repeater battery power
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 OK.

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