

de NINC

August 2006 Volume 15 Number 8

### Next Month's Meeting

Next regular meeting September 21th.

At the meeting we will ask for participants for Bob's connector course that is a follow up to the presentation he did at the April meeting.

Another question to be asked is whether there is any interest in a basic electronics course.

Field Day pins will be passed out at the meeting.

Club Cookout August 12<sup>th</sup> at KD1LE QTH.

The next Road Cleanup is Saturday August 22<sup>nd</sup>.

### Last Month's Meeting

No meeting last month.

### Field Day 2006

Impressions of a Novice 2006 Field Day Co-Director 2006

First of all we will sing the praises to the cooks! Lynda P. She understood the value of a good sandwich on the run. Peg and Karen turned out a kick butt supper arriving at a much-needed break point. Debbie and Anthony arrived after sunup with eggs and a smile - Bob J. must have a connection with the fluid Gods. Without their help we would dissolve in to a disgruntled mess,  
Thank You, from all.

Field Day 2006 was much cooler than last year and by design a little less ambitious, but as in all field operation the uncertainties and optimisms at some point give way to reality of work with what you got and "OK just wait until next year!"

Being a new co-director is sort of like learning to drive your Grandfather's tractor! You get to set at the wheel and push some levers, but the real drivers are never very far away -- people that care that the event goes well don't just stand around. And we have the Filter Police, the Network Police, and the Computer Police all there to make sure that standards were kept. We are a safe group if anything -- antenna erection can hurt if not done correctly. We seem to be a close working group that can be proud of our field day event.

And as for Next Year:

A no crash network

A falling off the log simple digital setup -- I will personally tally the contacts on my Wang calculator

No tin tent (too costly to run); any takers?

Great for single-handed QRP

Dale will smoke 'em out on twenty meters

Stronger chairs

Recruit younger operators

A ban on large butcher knives on site (see Peg)

Have as much fun as you can at your age

Pete and I are very pleased to have been a part of Field Day 2006

KB1ESR

N1ZRG

We had a great turn out for Field Day this year. Participants included the following members and friends.

Lynda N1PBL, Peg Griswold, Karen KA1JVU, Debby Vardaro KA1LEQ, Tony Vardaro WB1CUF, Stan KD1LE, John KK1X, Larry KB1ESR, Peter N1ZRG, Ralph KD1SM, John WW1Z, Dave N1MNX, Joel W1JMM, Erik W1ZBT, Bob AB1CV, Bruce K1BG, Leo K1LK, Wolf KA1VOU, Bob W1XP, Den KD2S, Jim N8VIM, Steve WA4LDL, Skip K1NKR, Dale AB1GA, Cindy Kollarics.



Courtesy KB1ESR



Courtesy KB1ESR

W1XP working to get the CW station set up. On the left is the preassembled antenna switch, bandpass filters, and antenna matches. This reduced on site setup time.



John WW1Z kept the U/VHF station for many hours. Since Field Day John and others have been planning and working on putting together a better six meter antenna system.



John KK1X at the SSB station controls. The black box on the table is the antenna switching and filters. Since we built and implemented the Bandpass filters we have had no inter station interference.

### Board Meeting

Board meeting discussions.

We received our first Worked Massachusetts Counties Certificate request and verified checked out.

Club cookout will be August 12<sup>th</sup> mid afternoon till whenever. Bring your own grub. There will be drinks and condiments available.

Board approved the cookout budget.

Ralph gave the financials which are in his full report elsewhere.

Discussed making a grant to the Pepperell Conservation Commission in consideration of our use of the orchard for many years. This will be brought to the September meeting for discussion.

September meeting program options

In attendance Stan KD1LE, Ralph KD1SM, Peter N1ZRG, Larry KB1ESR, John KK1X, Bob W1XP.

### Fitchburg Longsjo Bike Race

Radio operators from NVARC and the Montachusett Amateur Radio Association were busy over two days of the Independence Day weekend with the annual Fitchburg Longsjo Classic bicycle race.

About 800 very competitive cyclists including two hundred men and women professional-level racers were once again in north central Massachusetts for

this major event in the cycling year. Racers come from all over the world to participate in this race.

Operators Bob Johnson AB1CV, Tom Duffy K1JHC, Gary Busler K1YTS, Warren Tuiskula KA1JL, Larry Swezey KB1ESR, Ray Lajoie KB1LRL, Stan Pozerski KD1LE, Ralph Swick KD1SM, John Griswold KK1X, Charlie Cayen KT1I, Bill Leger N1UZ, Ben Tuiskula N1XYT, and Steve Schwarm W3EVE contributed 170 person-hours of volunteer time to help with health and safety communication as well as course logistics for the US Cycling Federation officials.

More than a few racers approached us after the races to thank us for our participation in the event. Several commented that this is one of the best-run races in the world thanks to the volunteers.

Bill Chiarchiaro of the Fitchburg Cycling Association was responsible for all the course communications this year and had his hands full with last-minute vendor changes for the radios supplied to the race officials, the referees, and the race caravan drivers. Bill is also a licensed Amateur so he understands well what we Hams can do and is very dependent on our support.



Bill N1UZ, Ralph KD1SM, and Tom K1JHC getting their assignments for the downtown Fitchburg day of the Longsjö bike race.

USCF official Kinnin Payson has worked the Longsjö for many years. Kinnin beams when she sees the Hams arrive on Saturday morning for the Wachusett Circuit, as she knows we can be depended upon to communicate necessary information in any circumstance. Kinnin says she does not see how the Longsjö could work without the Hams helping.

More information about the Fitchburg Longsjö Classic may be found at <http://www.longsjö.com>.

## Repeater Repairs

After breakfast July 15<sup>th</sup> members performed a variety of maintenance to the repeaters.



Above Ralph working to replace the antenna for the six meter repeater. The antenna is a wire type designed by W1XP. The original had been in place on the tower for four years.

General maintenance included checking guys, coax cables, and connections.

The three deep cycle batteries that power the six meter and 440 repeaters were replaced. The replacements were provided by Pepperell Emergency Management.

There are additional items to be done this fall such as painting the building, solving a power problem and trimming brush. So if you can help on any of these let Dave know.

## Advertisements



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FAX 603-465-3320

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

## Treasurers Report

Income for July was \$2 from ARRL member renewals and \$10 from PowerPole connector distribution. Expenses were \$144.00 for Field Day pins and one additional food reimbursement, and \$15.60 for newsletter postage, leaving a net expense of \$147.60 for the month.

Current balances:

General fund	\$4137.05
Community fund	\$2071.83

As of 10 August we have 55 members who are current with their dues and 6 renewals outstanding. Please check the member roster that is circulated at the monthly meeting if you do not remember your renewal date. Your membership date also appears on your newsletter mailing label.

If your ARRL membership renewal is coming up, leave your renewal with me at a Club meeting and the Club will pay the postage. As a Special Service Club, the ARRL lets us retain a small portion of the dues that we forward to them.

Ralph KD1SM

## PSLIST April 11

Date	Location	Event	Contact	Tel/Email
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Aug 19	Conway NH	Mt. Wash Auto Road Hillclimb	Cliff N1RCQ	603-522-3943 n1rcq@cnharc.org
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Aug 20 Conway NH Mt. Wash Auto Road Hillclimb  
Cliff N1RCQ 603-522-3943 n1rcq@cnharc.org

Aug 27 Lakeville MA Cranberry Country Triathlon  
Tony N1XRS 508-889-1174 [tdduarte@comcast.net](mailto:tdduarte@comcast.net)

Sep 3 Boston MA Boston Triathlon  
Bob WA1IDA 508-650-9440 [wa1ida@arrl.net](mailto:wa1ida@arrl.net)

Sep 8 Hyannis-Brewster MA MS Challenge Walk  
John N1PYN 508-588-3250 n1pyn@arrl.net

Sep 9 Brewster-Eastham MA MS Challenge Walk  
Clayton KB1IBB [arcywick@comcast.net](mailto:arcywick@comcast.net)

Sep 10 Brewster-Dennis MA MS Challenge Walk  
John N1PYN 508-588-3250 n1pyn@arrl.net

Sep 17 Hopkinton-Boston MA Jimmy Fund Walk  
Steve W3EVE 508-922-9688 w3eve@arrl.net

Sep 30 Hollis NH Applefest Half Marathon  
Fletch N1MEO 603-673-3036 n1meo@arrl.net

Oct 8 Boston MA BAA Half Marathon  
Bob WA1IDA 508-650-9440 wa1ida@arrl.net

Oct 8 Westford MA Tour de Westford Bike Ride  
Dave W11R 978-692-7797 wi1r@arrl.net

Oct 8 Monroe MA Monroe Trail Races  
Richard KD1XP kd1xp@kd1xp.org

Oct 20 Cambridge MA Head of the Charles Regatta  
Jeff K1EMS 978-536-2842 RWJeffA@comcast.net

Oct 21 Cambridge MA Head of the Charles Regatta  
Jeff K1EMS 978-536-2842 RWJeffA@comcast.net

Oct 22 Cambridge MA Head of the Charles Regatta  
Jeff K1EMS 978-536-2842 RWJeffA@comcast.net

Nov 11 Lowell MA Lowell Youth Soccer Tourn  
Ron KB1KRG 781-752-5885 kb1krq@arrl.net

Nov 12 Lowell MA Lowell Youth Soccer Tourn.  
Ron KB1KRG 781-752-5885 kb1krq@arrl.net

## Training Courses

As we have been discussing for a while more and more training requirements are showing up for those involved in emergency responses including RACES, ARES, and MARS. The minimum requirements today seem to be IS-100 and NIMS-700. All of the

courses are available on line from FEMA and are free. Some have continuing education credits but that depends on how you take the course whether on line or in a class setting. On the Monday night NVARC net it was suggested listing the sites to make it easier for people to find and get started. So below are the links that will get you to all the self Study courses.

This link is the complete list.

<http://www.training.fema.gov/EMIWeb/IS/crslist.asp>

The following links will get you to each course.

IS-100

<http://www.training.fema.gov/EMIWEB/is/is100.asp>

IS-200

<http://www.training.fema.gov/EMIWeb/IS/is200.asp>

NIMS-700

<http://www.training.fema.gov/EMIWeb/IS/is700.asp>

NIMS-800

<http://www.training.fema.gov/EMIWeb/IS/is800.asp>

A suggested method to pursue these courses is to download the course text and the test. Work through the text answering the questions. After completing the course and answering all the questions go back to the specific course link. One of the bottom links is to take the test. When you select that link you will get a blank answer sheet for the specific course. Fill in the answer sheet from the test you completed. When you finish and select the next or continue button at the bottom you will get a screen to fill in your name, address, phone number, and some other information. It takes several days for the test to be graded after which you get an email response with the outcome. Several weeks later you will receive a certificate in the mail.

### **NVARC Club Net**

The club net meets on the 442.900 repeater. Recent participants include Dave N1MNX, Bob W1XP, Bob AB1CV, Joel W1JMM, John KK1X, Larry KB1ESR, Skip K1NKR, Gary K1YTS, Ralph KD1SM, Stan KD1LE, Don AB1DS, Les N1SV, Richard KB1MBR, Ken K1JKR, Erik W1ZBT, Dan N1LLG and Peter KB1LZH.

Recent discussions were on Field Day and how things went, repeater work, meeting information, tools needed.

The net is a good place to bring information for the club and questions or discussions. The net meets at 8:00 PM Monday evenings on the 442.900 N1MNX repeater.

### **Adopt-A-Highway**

The next road cleanup is Saturday August 19th after breakfast.

Thanks to the following members for their participation in last months cleanup Ralph KD1SM, Bob W1XP, Stan KD1LE, Larry KB1ESR, and Gary K1YTS. We picked up 16 bags of trash.

We meet at the Nashua River common at 9:00 AM.

### **ARRL Letter**

#### **ARRL BOARD DESIGNATES AWARD WINNERS**

A 13-year-old ARRL member and Amateur Extra class licensee, Jimmy Carter, G4SGP, of Burke, Virginia, is the winner of the 2005 Hiram Percy Maxim Memorial Award. Jimmy is a student at Lake Braddock Secondary School, where he organized the Lake Braddock Secondary School Amateur Radio Club, which he serves as president. He says he got interested in ham radio from his parents, both of whom are licensed. He envisions an engineering career.

"I don't know if it's ham radio becoming my career or my career becoming ham radio," said Jimmy, reflecting how his interest in electronics has prompted him toward further self-study as well as trying to enjoy as many different facets of ham radio as he can. "I just get interested in a lot of different things in ham radio," he said. That included a recent foray into 6 meters as well as improving his Morse code speed, chasing DX and even building some of his own gear.

"I just really like everything about ham radio," he said.

The HPM Memorial Award goes each year to a radio amateur under the age of 21 whose accomplishments and contributions are of the most exemplary nature within the framework of Amateur Radio activities. The award was established in 1936, and formal nominations come from ARRL section managers.

After organizing his schools ham radio club, Jimmy found a teacher to sponsor it and several classmates to join. The club now boasts 15 members, 6 of whom are licensed. Jimmy also was instrumental in his

school's successful application for an ARRL Education and Technology Program grant.

Aside from his club activities, Jimmy participates in weekly nets of the Alexandria Radio Club and is a volunteer responder for disaster relief. He is in several honor classes and is a varsity athlete. Jimmy recently took third place in the Virginia regional science fair with his project, "How Q Affects Bandwidth and Signal Strength."

The winner of the Hiram Percy Maxim Memorial Award receives a cash award of \$1500, an engraved plaque, and travel and accommodations to the site of a formal presentation.

Roger Hayward, KA7EXM, of Beaverton, Oregon, is the recipient of the 2005 Doug DeMaw, W1FB, Technical Excellence Award. Created to honor the late Doug DeMaw, W1FB -- one of the most widely published technical authors in Amateur Radio history -- the award is bestowed upon the author or authors of the best QST or QEX technical article during the prior year, as judged by the ARRL Technical Advisor group. DeMaw served as ARRL Technical Department Manager and Senior Technical Editor from 1970 to 1983. Hayward's article, "A PIC-Based HF/VHF Power Meter," appeared in the May/June 2005 issue of QEX. Hayward says he's honored to have his work recognized through the DeMaw Award.

"What excites me further is to see so many hams continuing to design, build and experiment on their own workbenches at home," he said. "It has been great to correspond with so many hams using the meter for SA construction, QRP projects and receiver design. The project was just as much fun to write about as it was to design."

An ARRL Life Member, Hayward was first licensed in 1979. He is active in portable VHF hilltopping as well as experimenting in the shack. His first QST article, "The 'Ugly Weekender,'" appeared in the August 1981 issue.

The DeMaw Award consists of an engraved nine-inch pewter cup.

### **NEW EMERGENCY COMMUNICATIONS BILL INCLUDES ROLE FOR HAMS**

A bill to enhance emergency communication at the Department of Homeland Security (DHS) includes Amateur Radio operators as part of an overall effort to provide interoperability among responders. The 21st Century Emergency Communications Act of 2006 (HR 5852), an amendment to the Homeland

Security Act of 2002, passed the US House this week on a 414-2 vote and has gone to the Senate. Its sponsor, Rep David G. Reichert (R-WA) -- who chairs the Subcommittee on Emergency Preparedness, Science and Technology -- says his legislation is designed "to improve the ability of emergency responders to communicate with each other" -- interoperability.

"Until the events of September 11, 2001, many people in this nation believed and assumed that first responders from different disciplines and jurisdictions could actually talk to each other," Reichert -- a former police officer -- told the House in support of his bill. "It wasn't happening. It is still not happening today. Unfortunately, that was not the case then, and, as demonstrated by the inadequate responses to Hurricane Katrina, that is not the case today."

Reichert told his colleagues that the inability of first responders to communicate with each another effectively led to the loss of many lives along the US Gulf Coast last year. "This is simply unacceptable," he said.

His measure also would require the DHS to strengthen its efforts to improve emergency communications. HR 5852 calls for Amateur Radio operators to be part of a "Regional Emergency Communications Coordination Working Group" (RECC Working Group) that would be attached to each regional Department of Homeland Security office. The RECC Working Groups would advise federal and state homeland security officials.

In addition to radio amateurs, membership in the RECC Working Groups would include state and local officials; law enforcement, first responders such as fire departments; 911 centers; hospitals; ambulance services; communications equipment vendors, telephone, wireless satellite, broadband and cable service providers; public utilities; broadcasters; emergency evacuation transit services; state emergency managers, homeland security directors or representatives of state administrative agencies; local emergency managers or homeland security directors, and "other emergency response providers or emergency support providers as deemed appropriate."

Federal government representatives to the RECC Working Groups would include representatives from the DHS "and other federal departments and agencies with responsibility for coordinating interoperable emergency communications" with state, local, and tribal governments.

According to the bill, the RECC Working Groups would function to assess the survivability, sustain-

ability, and interoperability of local emergency communications systems to meet the goals of the National Emergency Communications Report. That report would recommend how the US could "accelerate the deployment of interoperable emergency communications nationwide."

The RECC Working Groups also would be tasked with ensuring a process to coordinate the establishment of "effective multi-jurisdictional, multi-agency emergency communications networks" that could be brought into play following acts of terrorism, natural disasters and other emergencies.

HR 5852 has been referred to the Senate Committee on Homeland Security and Governmental Affairs.

### **MASSIVE CUBESAT LAUNCH FAILS**

A much-heralded attempt to launch 15 CubeSats built by 11 universities and one private company failed this week. Fourteen of the tiny spacecraft carried Amateur Radio transmit-only payloads.

The Dnepr-1LV rocket lifted off from Russia's Baikonur Cosmodrome in Kazakhstan at 1943 UTC on July 26. Various accounts indicate that the mission went awry less than two minutes after liftoff when the first stage failed to separate on time, causing an emergency shutdown of the rocket's main engine. Reports vary on how far downrange -- and just where -- the vehicle fell. One said the Dnepr dropped to Earth some 15 km from the launch site, while another put the distance at 190 km. A third account said the Dnepr dropped into the Indian Ocean.

Originally set for June 28, the launch had been postponed until July 26. The CubeSat project was a collaboration between California Polytechnic State University-San Luis Obispo and Stanford University's Space Systems Development Laboratory. All of the CubeSats were designed and built by students at various universities in the US and elsewhere in the world. The CubeSat roster included AeroCube-1, CP-1, CP-2, ICE Cube-1, ICE Cube-2, ION, HAUSAT-1, KUTESat, MEROPE, nCube-1, RINCON, SACRED, SEEDS, PiCPoT and Voyager.

Thirteen of the satellites were to have downlinks in the Amateur Radio satellite allocation between 435 and 438 MHz, and one was to operate on 145.980 MHz. None of the spacecraft carried a transponder. Transmitter power outputs ranged from 10 mW to 2 W.

The Dnepr was the second to launch this month from Baikonur's Area 109. Other payloads included BelKA, the first Belarusian satellite, and three other

microsatellites. According to Satellite Launch Report, the original Dnepr launcher was replaced by a different one in June after a problem was detected in the original vehicle's digital flight control system.

The Dnepr launch failure was said to be the first in seven orbital launch attempts. The Dnepr vehicle is a repurposed SS-18 "Satan" three-stage intercontinental ballistic missile, originally designed in the 1980s to compete with the US Peacekeeper missile. The START 2 treaty allowed up to 150 of the missiles to be converted for use as space launchers.

The Russian space agency has convened a special commission to look into the cause of the malfunction.

### **FBI'S "INFRAGARD" PROGRAM COURTS AMATEUR RADIO AS ALLY**

Amateur Radio's value as one component in a cooperative effort to protect critical national infrastructure was the focus of an InfraGard "Communications Interoperability and Ham Radios" summit this week in New York City. An FBI program, InfraGard is dedicated to promoting dialogue between the private sector and the federal investigative agency "concerning critical infrastructure protection issues." ARRL Chief Development Officer Mary Hobart, K1MMH, and Affiliated Clubs/Mentor Program Manager Norm Fusaro, W3IZ, represented League Headquarters at the gathering, which featured a range of speakers.

"This is the key to opening the door to a valuable model partnership," Hobart commented afterward. "They were very receptive. I think it was a good beginning."

Hobart says Amateur Radio came up on InfraGard's radar earlier this year and got the nonprofit organization thinking of Amateur Radio as a possible partner, ally and service provider in emergencies. New York Metro InfraGard put together the one-day session July 17 at Cisco Systems' New York office as a way to get more familiar with Amateur Radio.

"They understand that ham radio has 'been there' in terms of emergencies and disasters and is working to improve its ability to respond," Hobart said. She said New York Metro InfraGard President Joe Concannon "expressed his deep interest in Amateur Radio as a partner and a desire to learn more about our capabilities."

Keynote speaker for the day-long session was Broadcasting & Cable Hall of Famer and New York Public Television CEO William Baker, W1BKR. Jeff Pulver, WA2BOT, chairman and founder of pulver-

media.com and cofounder of Vonage, also addressed the gathering.

"This InfraGard meeting brought together a group of people who care about post-disaster communication preparedness, and a majority of the people in attendance were active members of the Amateur Radio community," Pulver observed later in a blog entry. "This was my first time in the post-VoIP era that I had a chance to talk to hams about my early experiences with VoIP and how my ham radio background has had a positive effect on the past 12 years of my life."

Pulver said the InfraGard meeting provided "a great audience to speak to, since we shared a common passion for communications and common ground on a number of topics." He said that includes the need for coordination between the ham radio community and fellow communication enthusiasts "who want to volunteer their time the next time disaster strikes."

In a presentation called "Radio Communications 101," New York City District Emergency Coordinator Mike Lisenco, N2YBB, spoke about the Amateur Radio Emergency Service (ARES) and the League's role in emergency and public service communication and training.

Allan Manuel, an attorney in the FCC Public Safety and Homeland Security Branch, indicated the Commission is willing to be more flexible in accommodating Amateur Radio during emergencies and disasters. The FCC wants to hear from the public by August 7 in response to an FCC Notice of Proposed Rule Making (NPRM) regarding recommendations of the independent panel that reviewed Hurricane Katrina's impact on communication systems (EB Docket 06-119). Some of the wide-ranging proposals in the NPRM include possibly amending the rules to permit automatic grants of certain types of waivers or special temporary authority (STA) in declared disaster areas.

For their part, Hobart and Fusaro demonstrated the League's "Ham Aid" go kits of Amateur Radio gear that can be rapidly deployed to disaster areas where the Amateur Radio infrastructure has been lost or compromised. They also provided attendees with copies of the ARRL's Community Education Program brochures and materials.

Hobart says Concannon envisions a model in New York City that other InfraGard chapters across the country could emulate. "I think it's an opportunity for Amateur Radio to align itself with a high-profile group with key federal connections," she said.

## FCC INVITES COMMENTS ON KATRINA PANEL RECOMMENDATIONS

Comments are due Monday, August 7, in response to an FCC Notice of Proposed Rule Making (NPRM) regarding recommendations of the independent panel that reviewed Hurricane Katrina's impact on communication systems (EB Docket 06-119). Reply comments are due by Monday, August 21.

"The Commission, in this proceeding, is to take the lessons learned from this disaster and build upon them to promote more effective, efficient response and recovery efforts as well as heightened readiness and preparedness in the future," the FCC said.

Some of the wide-ranging proposals in the NPRM, released in June, could affect the Part 97 Amateur Service rules. The FCC asked if it should explore amending its rules to permit automatic grants of certain types of waivers or special temporary authority (STA) in declared disaster areas. After last year's devastating hurricanes, the FCC issued a handful of STAs to permit licensees lacking HF privileges to operate on HF for emergency purposes.

The NPRM further offered three specific areas for consideration: Waiver of Amateur Radio and license-exempt rules, permitting transmissions necessary to meet essential communications needs; waiver of application filing deadlines, something the FCC did last fall for amateurs living in hurricane-stricken states; and a streamlined STA process.

Interested parties may file comments and view the comments of others via the Electronic Comment Filing System (ECFS) <<http://www.fcc.gov/cgb/ecfs/>>. In either case, enter "06-119" in the "Proceeding" field (without quotation marks but including the hyphen). A copy of the NPRM is on the FCC Web site <[http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/FCC-06-83A1.pdf](http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-83A1.pdf)>.

### Flea Markets

#### Aug

19 STARC Tail-Gate Hamfest St Albans VT  
20 NoBARC Fleamarket Northern Berkshire ARC  
20 MIT  
25-27 NE Division Convention Boxboro

#### September

10 SEMARA Dartmouth MA  
16 RI Amateur FM Repeater Service Flea Market  
North Smithfield RI  
17 MIT  
17 Candlewood ARA Newtown CT



October  
6-7 Hoss Traders, Hopkinton NH

**Contest, DXpeditions and Special Events**

The information for a DXpedition can be quite detailed and may include bands, dates, number of stations, and times of day they plan to work certain continents so I can not list it all here. But if a country or prefix is of interest you can get more information at [www.425dxn.org](http://www.425dxn.org).

**Special Event Stations**

- Aug
- 12 Popcorn Festiva, IN
- 12 Science Camp Watonka, Hawley PA
- 17 200<sup>th</sup> Birthday of Richmond VA
- 18-28 Philo T. Farnsworth electronic pioneer, UT
- 19-20 International Lighthouse Weekend

**Contests**

- Aug
- 19-20 ARRL 10 GHz and up Contest

**DXpeditions**

Call	Location	Until
9V1CW	Singapore	2008
T68G	Afghanistan	March 2007

See [www.425dxn.org](http://www.425dxn.org) for more listings

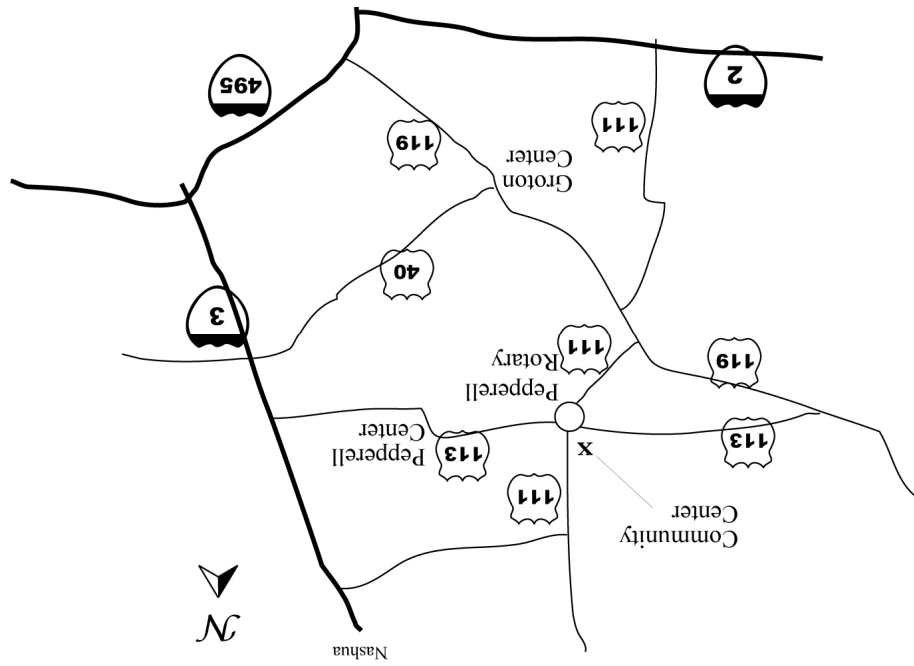


**Nashoba Valley  
Amateur Radio Club**

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<http://www.n1nc.org/>

- President: Stan Pozerski KD1LE
  - Vice President: Peter Nordberg N1ZRG
  - Secretary: John Griswold KK1X
  - Treasurer: Ralph Swick KD1SM
  - Board Members:
    - Bob Reif: W1XP 2004-2007
    - Les Peters: N1SV 2005-2008
    - Joel Magid W1JMM 2006-2009
    - Editor: Stan Pozerski KD1LE
  - Emergency Coordinator: Den Connors KD2S
  - Photographer: Ralph Swick KD1SM
  - PIO: Dave Peabody N1MNX
  - Librarian: Peter Nordberg N1ZRG
  - Property Master: John Griswold KK1X
  - N1NC Trustee: Bruce Blain K1BG
- Meetings are held on the 3rd Thursday of the month  
7:30 p.m. - Pepperell Community Ctr.  
Talk-in 146.490 simplex  
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