



# SIGNAL



de NINC

April 2008 Volume 17 Number 4

## This Month's Meeting

Remember this month's meeting includes elections. Members who wish to run for a position should contact the Board although candidates may submit their names at the meeting. There is one vacated position as a board member.

This month's meeting is Thursday April 20<sup>th</sup> at 7:30 PM. Tom Kinahan N1CPE will give this month's presentation on Winlink 2000. Tom Kinahan is also the Massachusetts RACES Radio Officer.

Meeting site info and maps on the back page and the NVARC Website.

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

## Last Month's Meeting

Last month's speaker was Rick Hampton WD8KEL who discussed RF (Wireless and RFID's) in Hospitals. Rick is the Wireless manager for Partners Health Care System.



Rick addresses the assembled masses



Rick receives the NVARC mug for speaking.

March meeting attendance:

Bruce K1BG, Dennis K1LGQ, Skip K1NKR, Tom K1NNJ, Gary K1YTS, George KA1TTZ, Larry KB1ESR, Phil KB1JKL, Stan KD1LE, Ralph KD1SM, KG4GMJ Beth Hampton, John KK1X, KX1G Tony, Les N1SV, Jim N8VIM, Joel W1JMM, Peter W1LLB,

Dick W1LTN, Bob W1XP, Erik W1ZBT, Rod WA1TAC, Rick Hampton WD8KEL, Earl WR1Y

Guests Dave Wright, Roland

### NVARC Birthday

NVARC turned sweet sixteen this month.

### Need a Ride?

Do you need a ride to the club meetings? Do you know someone who does? If you do please contact Bob W1XP 978-448-6559 and leave a message. We'll see that you get to the meeting.

### From The Editor

I want to encourage members to write up activities or projects for the newsletter. Articles don't have to be long or complex. They can be about operating in a contest, building a kit or your own project. Local content is always better.

Please update your contact information with Ralph so it will be correct in the Yearbook update.

### PSLIST

\*\*\*\* Every event listed is looking for communications volunteers \*\*\*\*

Date	Location	Event	Contact
Apr			
20	Boston, MA	Women's Olympic Marathon Trial	Bob WA1IDA 508.650.9440 <a href="mailto:wa1ida@arrl.net">wa1ida@arrl.net</a>
21	Hopkinton, MA	Boston Marathon Start	Bob K1IW 508.393.4148 <a href="http://marc.amateur-radio.net">http://marc.amateur-radio.net</a>
21	Hopkinton, MA	Boston Marathon Route/1st Aid	Steve W3EVE 508.384.7697 <a href="http://marc.amateur-radio.net">http://marc.amateur-radio.net</a>
21	Boston, MA	Boston Marathon Finish	Paul W1SEX 978.632.9432 <a href="http://marc.amateur-radio.net">http://marc.amateur-radio.net</a>
27	Needham, MA	Run of the Charles Canoe Race	Bob WA1IDA 508.650.9440 <a href="mailto:wa1ida@arrl.net">wa1ida@arrl.net</a>

July

### Board Meeting

The monthly Board meeting was held April 13th

Ralph submitted the Treasurer's report. Recommended the purchase of new stock of Powerpole connectors. Board approved. Renewal of Website hosting, approved fee payment. MARA share of payment has been received.

Townsend Canoe Race coming up Gary K1YTS the Contact. Groton Road Race at 31 volunteers need 10 more Ralph KD1SM the contact. The Alzheimer's Memory Ride July 26 Ralph KD1SM contact.

Field Day at risk no coordinator at this time.

Need ideas for new items for the raffle.

Present at the meeting KD1SM, N1SV, KB1ESR, KD1LE, KK1X, N1ZRG.

## Adopt A Highway

Next road cleanup is Sunday, April 20, 2008

## Treasurers Report

Income for March was \$90 in membership dues, \$4 from ARRL renewals, \$6.03 in bank interest, and \$25 from PowerPole connector sales. The only expenditure was \$16.40 for newsletter postage leaving a net income of \$108.63 for the month.

Current balances:

General fund	\$4,364.08
Community fund	\$2,386.83

As of 10 March we have 50 members who are current with their dues and 16 renewals outstanding. Many of the first Club members renew in April; 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. You can always ask me if you are in doubt.

If you are not yet an ARRL member please consider joining and showing your support for the programs developed by our national organization. If you let me send in your membership then the Club pays for the stamp and receives a portion of your ARRL dues. Bring your check to a Club meeting or to Saturday breakfast payable to NVARC in the amount of your ARRL renewal and I'll do the rest.

Ralph KD1SM

## ARRL Letter

### GET READY FOR WORLD AMATEUR RADIO DAY ON APRIL 18

Each year on the anniversary of its founding, April 18, the International Amateur Radio Union (IARU) marks World Amateur Radio Day. On this 83rd anniversary of its inaugural meeting in Paris, the IARU dedicates World Amateur Radio Day to the future of Amateur Radio with its theme, "Amateur Radio: A Foundation for Technical Knowledge."

It is no secret that many professionals in the field of radio, TV, communications and electronics have started their technical education as young radio amateurs. Although Amateur Radio has a different face nowadays -- Digital Communications, Voice over

Internet Protocol, Satellite up- and downlinks and more -- it is even of greater value as a foundation for technical knowledge for youngsters. And much more -- it is and should be used as a unique attraction for future young radio amateurs.

World Amateur Radio Day provides an occasion to promote and publicize Amateur Radio. Amateur Radio clubs are encouraged to find suitable ways of celebrating World Amateur Radio Day. Many ways can be considered -- inviting youngsters to visit radio clubs, showing up on the air with a special call sign, organizing a station in a public area with media coverage or publicly honoring amateurs who have made significant contributions. Whatever method is chosen, clubs should think about publishing a press release for the media, giving the background to World Amateur Radio Day and promoting the value of Amateur Radio as a foundation for a technical career.

The ARRL will be very pleased to hear how Amateur Radio clubs chose to celebrate World Amateur Radio Day. Share your stories and photos with us, so that they may be shared with the Amateur Radio community. E-mail your submissions to ARRL Affiliated Club/Mentor Program Supervisor Norm Fusaro, W3IZ <clubs@arrl.org>. Please be sure to put "World Amateur Radio Day" in the subject line. -- Information provided by IARU

### ARRL COMPILES COMPLETE WORKS OF LARSON E. RAPP, W1OU

Thanks to the efforts of ARRL volunteer Bob Allison, WB1GCM, the League has assembled the complete known works of noted QST author Larson E. Rapp, W1OU <<http://www.arrl.org/tis/info/larson/>>. Rapp's remarkable contributions spanned a period of more than three decades (1941-1962, 1972), primarily during the month of April. Rapp was said to be from Kippering-on-the-Charles, Massachusetts, just off Route 128.

"Like most visionaries unafraid of pushing technology beyond conventional limitations, Larson at times was controversial among his peers and contemporaries," ARRL Lab Engineer Mike Gruber, W1MG, said. "You can now be the judge of just how well Rapp's theorems and trademark 'radical approach' have withstood the test of time."

The first Rapp article, "Putting Dynamic Prognostication to Work," appeared in the April 1941 issue of QST. In the article, Rapp expounded on his efficient one-tube transmitter. When Rapp discussed the tuning of the transmitter, he said, "The high coupling efficiency of the unit results in a minimum plate current of resonance of about 0.9 ma. at 7 Mc. This is

too low a value to show on the 0-250 milliammeter that should be used for the circuit, so you'll have to take our word for it." The transmitter was described as having a "simple construction of the chassis which is made from cardboard fastened by wire staples and glue. The underside is covered with tin foil."

In "The Circular Band Theorem: Operational Advantages of Concentric Frequency Allocations" [April 1946], Rapp theorized if the FCC assigned "amateur frequencies in concentric circles instead of bands [the end result would be] the consequent elimination of out-of-band operation and band edge crowding...[making] it possible to work someone 40 or 50 kc. removed from one's frequency." This was brought on by Rapp's claim that amateurs, "realizing that after calling 'CQ' they had to start listening somewhere and that somewhere was usually the edge of the band." Rapp called for bands to be designed in "concentric circles, and the beginners should be encouraged to start in the smallest circle. Thus, even if one managed to get out of band -- we don't see how he could, but someone would find a way! -- he would still be inside the next circle and amateur radio would have no black mark against it for out-of-band operation. Further, the fact that a beginner was encouraged to start in the inner circle would make him feel like he was one of the boys right off, being allowed into the inner circle!"

In the April 1960 issue of QST, a phony full-page ad announced the formation of "Larsen E. Enterprises, Inc," supposedly off Route 128 in Kippering-on-the-Charles, Massachusetts, with Larsen E. Rapp as president. Bearing a "Not a Advertisement" disclaimer, the ad offered customers free access to the company's air-conditioned "Wonder Workshop" with each kit purchase. "If you don't have the time to assemble the entire kit yourself, one of our engineers will be glad to do it for you, just for the pleasure it gives him," the ad promised. "No tipping please." In the "Print Shoppe," customers could purchase "authentic reproductions of the rarest QSL cards in the world." The price included having the company's "patient penman" fill in the card with your call sign and a signal report, duplicating the original ink and handwriting.

Rapp himself said that "In assembling this list of my articles and letters over the years, I noticed that QST always chose to publish them in the springtime. This practice was especially meaningful to me as spring has historically been a time of new beginnings and in our radio hobby, a time for new insights into old technical problems. I hope you, too, will be helped and inspired by these writings of an old ham."

## **ANNUAL ARMED FORCES DAY CROSSBAND TEST SCHEDULED FOR MAY**

The Army, Air Force, Navy, Marine Corps and Coast Guard are co-sponsoring the annual Military/Amateur Radio communications tests in celebration of the 58th anniversary of Armed Forces Day (AFD). Although the actual Armed Forces Day is celebrated on May 17, the AFD Military/Amateur Crossband Communications Test will be conducted on May 10 to prevent conflict with the Dayton Hamvention, scheduled for May 16-18.

The annual celebration features traditional military to amateur crossband communications SSB voice tests and copying the Secretary of Defense message via digital modes. These tests give Amateur Radio operators and short wave listeners an opportunity to demonstrate their individual technical skills and to receive recognition from the Secretary of Defense and/or the appropriate military radio station for their proven expertise. QSL cards will be provided to those stations making contact with the military stations. Special commemorative certificates will be awarded to anyone who receives and copies the digital Armed Forces Day message from the Secretary of Defense.

Look for schedules and frequencies of participating military stations to be published in May on the Army MARS [Web site](http://www.netcom.army.mil/MARS) <<http://www.netcom.army.mil/MARS>>.

### **Hams Come to Rescue in Utah**

Eldon Kearl, K7OGM, of Fish Haven, Idaho, was driving in the Logan Canyon, Utah area last week when he came upon a driver who lost control of her truck in the snow. Her truck fell more than 100 feet over a cliff, and two of the three passengers were thrown from the truck. Witnesses tried to call for help on their cell phones, but the closest cell coverage was more than a 30 minute drive away. Kearl, however, had a radio in his car and was able to get a hold of another ham, Roger Ellis, KE7HTE, of Logan, Utah. Kearl relayed to Ellis information about the accident scene and Ellis called 911. First responders were on the scene within half an hour. Although the driver and passengers in the truck suffered only minor injuries, a spokesman for the Utah Highway Patrol said that if Kearl and Ellis had not responded in getting help so quickly, the injuries could have been much worse. As Kearl said, "It all worked out pretty good." Kearl and Ellis have never met, but live relatively close to each other; they plan on meeting each other in person soon. -- Information provided by KSL-TV, Salt Lake City, Utah

## **W1AW TO CELEBRATE WORLD AMATEUR RADIO DAY AS NU1AW**

Each year on the anniversary of its founding, April 18, the International Amateur Radio Union (IARU) marks World Amateur Radio Day <<http://www.iaru.org/rel030418.html>>. On this, the 83rd anniversary of its inaugural meeting in Paris, the IARU dedicates World Amateur Radio Day to the radio amateurs, educators and administrators who use Amateur Radio to support technology education in the classroom.

To call attention to the occasion in advance, ARRL staffers will be activating W1AW in the CQ WPX SSB Contest <<http://www.cqwp.com>> this weekend (March 29-30) using the IARU club call sign NU1AW. By celebrating the event, staffers hope to provide an opportunity for hams worldwide to put NU1AW in their logs, chase the WPX award <<http://www.cq-amateur-radio.com/cqworldwidewpxawards.html>> and learn about HF propagation as the world turns through day and night not once, but twice! Springtime propagation near the equinox is enhanced on the HF bands, even during the Solar Cycle minimum, so it's worth taking a listen even if the HF bands have been quiet lately.

This year's theme for World Amateur Radio Day is "Amateur Radio: A Foundation of Technical Knowledge." What better way to express the theme than by engaging in one of the largest international radio-sporting events. ARRL Contest Branch Manager Sean Kutzko, KX9X, said, "If you haven't tried HF contesting or the WPX contest, the general format is to exchange a signal report (a simple '59' will do nicely) and a serial number (the number of the contact in the contest for you). The contest Web site spells out the way to compute your score, but the fun of this contest is to contact as many different prefixes as possible. For example, NU1AW counts as the NU1 prefix and KX9X counts as KX9. If you're new to HF, your prefix might be one sought after by those calling CQ! The WPX contest also features a 'Rookie' category for new radiosport folk, so be sure to send in your log as described by the rules -- it's easy!"

World Amateur Radio Day is also an opportunity for publicizing Amateur Radio to the interested public that may not be familiar with ham radio activities. Radiosport is an excellent way to introduce our service to teachers and students, as well. Competitive activities are an important focus for students to take the opportunity to ask questions about how signals get "from here to there" while watching hams make

rapid-fire contacts around the world or even making a contact or two themselves, Kutzko said.

"NU1AW is not expected to be seriously competitive in the event," Kutzko explained, "but will make every attempt to be on the air as propagation warrants, so we hope to hear you marking the day and making World Amateur Radio Day a part of your springtime ham radio operation."

## **HAMS ON HAND AS TORNADOS SWEEP THROUGH GEORGIA, DOWNTOWN ATLANTA**

When tornados swept through Georgia this past weekend, Amateur Radio operators were on hand to assist where needed. On Friday, March 14, an EF-2 tornado touched down in downtown Atlanta at 9:38 PM (local time). The National Weather Service said the twister was 6 miles long and 200 yards wide. Downtown Atlanta was a busy place that evening; not only was there a professional basketball game, college basketball fans were in town for the Southeast Conference tournament at the Georgia Dome. Due to the tornados, the final college game of the day was postponed until the next day. According to reports, the tornado blew off portions of the roof of the Georgia Dome.

An EF-2 tornado has wind speeds from 111-135 MPH. In such a tornado, roofs are torn off well-constructed houses, foundations of frame homes are shifted, mobile homes can be completely destroyed, large trees are snapped or uprooted, light-object missiles are generated and cars can be lifted off the ground.

ARRL Georgia Section Manager Susan Swiderski, AF4FO, said "William Chandler, KG4JTK, went from house to house in the wind and the rain checking for any injuries in the homes that had sustained damage by falling trees and debris. At the same time, he issued reports via radio to Barry Kanne, W4TGA, the Emergency Coordinator for neighboring DeKalb County, regarding fallen trees, billboards, power lines and other threats to public safety. Barry relayed this information to the Atlanta 911 center and to the Grady Hospital Emergency Operations Center." DeKalb County is directly to the east of Fulton County; Atlanta is the county seat of Fulton County.

The City of Atlanta Web site reported that "[e]xtensive damage has been reported to a number of landmark buildings in downtown, including the Omni Hotel, Georgia World Congress Center, CNN Building, the Georgia Dome and Phillips Arena and homes and businesses in nearby neighborhoods." The Red Cross opened a shelter at Central Recrea-

tion Center. There was "no external damage" to Hartsfield International Airport.

Eyewitness accounts said that "huge hunks of metal and broken glass were everywhere [in Atlanta], as well as overturned cars and benches in the road. Olympic Centennial Park is a mess." The high winds caused major damage to several other landmarks including the Georgia World Congress Center. Many hotels and office buildings had their windows blown out. Grady Memorial Hospital, the major trauma center for the Atlanta metro area, had its 100 foot tall communications tower blown off the hospital roof, disabling communications with emergency medical personnel.

ARRL Georgia Section Traffic Manager Charles Pennington, K4GK, served as Net Manager during the storms: "After several hours of recovery and damage assessment, it became obvious that while Atlanta had received major damage to downtown area, there were no fatalities reported and amazingly only 21 persons were treated for injuries." Two fatalities were reported in northwest Georgia.

In Effingham County, near Savannah on Georgia's coastline, Swiderski said a tornado "took down six power towers during the annual St Patrick's Day celebrations," thrusting the community into "total blackout conditions."

"A local 2 meter SKYWARN net, with Greg Tillman, N4VAD, serving as NCS, provided a vital link with the staff at Memorial University Medical Center in Savannah. Dr Ra Meguiar, N4RVM, a physician and senior hospital administrator, later sent a letter of appreciation in recognition of the local hams 'for staying with us through the weather and the power outage.' He said that this was his first experience in participating in a severe weather net and the 'support was invaluable,'" Swiderski said.

According to Swiderski, reports came mostly through the linked repeater system, "usually from a liaison from one of the many local nets that were going on in county after county, but there were also reports from stand-alone hams who had the misfortune of being in an affected area. There were reports of wall clouds, funnel clouds and hailstones – large hailstones, sometimes as large as baseballs."

Tillman said that two mobile homes were completely destroyed and one was "tossed like a rag doll, rolling over numerous times 100 feet from its foundation where the anchors were pulled up from the ground." Nearly a dozen other homes and automobiles were damaged; five people from Effingham were trans-

ported to the local hospital for treatment and evaluation, he said.

"In some of the counties, this event was a true 'baptism under fire' for brand new Emergency Coordinators," Swiderski said. "I'm pleased to say that they all conducted themselves and all of the challenges admirably."

### **"THE DOCTOR IS IN" THE ARRL LETTER**

This week, ARRL Letter readers are in luck! The ARRL's very own Doctor, author of the popular QST column "The Doctor Is IN," answers a question from his mailbag:

Question -- Jeff Otto, WA1QYW, of Framingham, Massachusetts, asks: I have a new SSB transceiver, and I noticed something peculiar. When I tune to an empty frequency, say on 20 meters, with absolutely no signals and only noise, and I switch the mode between USB and LSB, the received "tone" of the background noise changes. On one position, it sounds like it consists of more high frequency components, and on the other position it sounds like more low frequency components. I would have thought that white noise would sound the same, regardless of which sideband is being received. In normal SSB operation, this effect is not really noticed. I'm wondering if there is some sort of a misalignment in the radio.

The Doctor Answers -- Jeff, I agree with your diagnosis. Switching between USB and LSB switches the "BFO" or injected carrier frequency from one side of the SSB filter bandwidth to the other. There are a few exceptions, notably the early RL Drake tube transceivers that kept the same BFO frequency but switched the filters. Switching the BFO frequency is generally cheaper than having two filters.

There are two possibilities: One, that the shape of the filter passband is not flat. If it's higher on one side than the other, that will translate to stronger high frequency response on one sideband and stronger low on the other.

The other, and I would say more likely, possibility is that the BFO oscillators are not spaced the same distance from the edge of filter bandwidth. In one case you might have (with a 2.1 kHz filter, for example) with 200 Hz offset, an audio response from 200 to 2300 Hz, while the other sideband if spaced 400 Hz will have a response from 400 Hz to 2500 Hz. The usual design response is from 300 Hz to 300 + the filter bandwidth.

You can test this by using a good low-level audio generator in the microphone input (set to the same level as the mic audio), and checking the response at the audio monitor jack, if your radio has one. You could also check with another receiver, but unless it is very wideband, you would really be measuring the combination of offsets and filters in both radios.

If your transceiver has a PASSBAND TUNING or IF SHIFT control, you can move it to make the receive audio sound the same on either sideband, but that won't help on the transmit side. If it's not very different, and if you get good audio reports on both sidebands, you could also just pretend you hadn't noticed!

### **ARRL MEMBERSHIP NEWSLETTERS, BULLETINS AND NOTIFICATIONS**

Did you know the ARRL offers more newsletters than just The ARRL Letter? One of the many ARRL membership benefits includes other newsletters, such as the ARRL Contest Rate Sheet (a bi-weekly contest newsletter), the ARES E-Letter (sent monthly, containing public service and emergency communications news), the ARRL Club News, the ARRL Instructor/Teacher E-Letter and the IARU E-Letter.

You can also elect to receive news and information from your Division Director and Section Manager (keep in mind that not all Divisions/Sections send notices), as well as W1AW bulletins that relate to DX, propagation, satellites and Keplerian reports. The ARRL also offers a free notification service to members, letting them know when their membership and license are due to expire.

Sign up for these newsletters, bulletins and notifications on the Member Data page of the ARRL Web site <http://www.arrl.org/members-only/memdata.html>.

### **IDAHO AMATEURS ON HAND FOR SPECIAL OLYMPICS INVITATIONAL WINTER GAMES**

More than 20 Amateur Radio operators wrapped up technical and operational support for the 2008 Special Olympics Invitational Winter Games in Boise, Tamarack and Sun Valley, Idaho the last week in February. Approximately 365 athletes from 10 countries competed in five sports -- Alpine Skiing, Cross-Country Skiing, Floor Hockey, Snowboarding and Snowshoeing. The Invitational Games were seen as the practice run for the 2009 Special Olympics World

Winter Games to be held in Idaho February 6-13, 2009.

The Department of Defense provided Motorola VHF analog and P25 handheld radios and temporary repeaters to support the Games. Covering all of Southwestern Idaho, the ARES VHF repeater was instrumental in providing Games radio communications and critical communications for athlete transportation to and from Bogus Basin and Boise. Crossband links were used to coordinate and provide communications to the KX7ID Boise ARES repeater from the Tamarack Snowboarding venue near the Cascade/Donnelly area, about 100 miles north of Boise.

"It was a privilege to work with the Idaho State Police, Boise Police, Ada County Sheriff, Ada County EMS, Blaine County Sheriff and others within the Public Safety community," said Chuck Robertson, KX7ID, Technical Director for Games Radio Communications. "We are grateful for the relationships built during these test Games which will improve cooperation and teamwork as we work together toward support of the 2009 Games and public service initiatives beyond the Games."

The 147.380 MHz ARES repeater was the primary system used for the event, but the KX7ID UHF repeater, D-Star VHF simplex and P25 VHF simplex were also used. In addition, D-Star VHF low speed data using D\*Chat [http://nj6n.com/dstar/dstar\\_chat.html](http://nj6n.com/dstar/dstar_chat.html) was tested from the Boise National Weather Service to Boise area hospitals.

"Communications are a vital component to any successful event, especially one as complex as the 2008 Special Olympics Invitational Winter Games and the upcoming 2009 Special Olympics World Winter Games, which are both multi-sport and multi-venue events with a lot of moving parts," said Kirk Miles, 2009 Special Olympics World Winter Games Chief Operating Officer. "We are grateful to all the Amateur Radio operators that have worked or will be working to make the 2009 Games a great success."

The 2009 Special Olympics World Winter Games <http://www.2009worldgames.org/> will be held in Idaho, February 6-13, 2009 and will include up to 3000 athletes from as many as 85 countries and 6000 volunteers. Competition will take place in seven winter sports -- Alpine Skiing, Cross-Country Skiing, Figure Skating, Floor Hockey, Snowboarding, Snowshoeing and Speed Skating. Competition and activities will be in communities and venues throughout Idaho, including Bogus Basin, Boise State University,

Qwest Arena, Idaho Ice World, Sun Valley Resort and Tamarack Resort.

### **MICHIGAN AMATEURS TEAM UP WITH STATE**

ARRL Michigan Section Manager Dale Williams, WA8EFK, and Michigan Section Emergency Coordinator John McDonough, WB8RCR, have been working with the Homeland Security Division of the Michigan State Police Emergency Management to align the capabilities of the Amateur Radio Public Service Corps (ARPSC) more closely with the communications needs of the state's public service agencies.

ARPSC -- Michigan's integrated ARES/RACES program -- also participates in the Michigan State Department Emergency Management Coordinators Quarterly meetings at the State Emergency Operating Center. It is here, Williams said, that discussion of the Public Safety communications grants are discussed and their investment justifications are detailed. "We have been afforded the opportunity to discuss Amateur Radio's involvement with communications interoperability, as well as our ability to fill gaps in disparate networks and outages. As a result of these conferences, I was asked to include a list of ARPSC's needs for the next three years."

To further that end, Williams told the ARRL that they have been successful in incorporating the ARPSC Program into the Michigan State Preparedness Priorities. Michigan intends to develop the ARPSC into a fully integrated communications team operating under common standards and procedures, including maintaining and enhancing the statewide Amateur Radio communications system; establishing suggested standards for Amateur Radio capabilities in local Emergency Operations Centers, and developing a public awareness and education program to bolster the ranks of Amateur Radio participants. The hope, Williams said, is to have all this implemented by 2010.

Williams said, "Since the early 1980s, Michigan has operated an integrated ARES, RACES and NTS program referred to as the Michigan Amateur Radio Public Service Corps. By combining the forces of these normally separate structures, these valuable resources are pulled together to form an active trained and unified organization. The Section Emergency Coordinator also holds the positions of Section Traffic Manager and RACES Radio Officer. Membership in ARPSC is open to all amateurs and is structured to allow a beginning ham to progress from an entry-level position to a RACES-qualified operator by meeting specific training milestones."

"There is no doubt that by presenting a unified organization, the Michigan ARPSC has demonstrated the effective use of resources, training and our unique capabilities so that we have become a well respected public service organization in the state," Williams said.

### **NVARC Club Net**

Topics discussed on the Club net recently; emergency communications preparedness, NMAEPC radio programming, programming member's mobile radios with common frequencies, HDSCS hospital support group in CA, Winlink between local emergency management and MEMA.

Recent participants include Leo K1LK, Bob W1XP, Larry KB1ESR, Skip K1NKR, Stan KD1LE, Les N1SV, Richard W1LTN, Ken K1JKR, Den KD2S.

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.

### **Flea Markets**

2008

April

19 Manchester NH NE Antique Radio  
19 Portland Hamfest South Portland

May

2 & 3 Deerfield NH NEAR-fest

June

7 Southern Berkshire ARC Goshen CT

July

12 Pen-Bay ARC Union Me

August

9 Rason Hamfest Ledyard CT  
22-24 NE Division Convention Boxboro

### **Advertisements**



DICK WILBORG W1ZC  
JOHN ROSE WW1Z

**BELTRONICS, INC.**

AMATEUR RADIO SERVICE DIVISION

www.beltronics.net

hamrepairs@beltronics.net

603-465-2422  
800-323-5876

FAX 603-465-3320

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19 PROCTOR HILL RD.  
HOLLIS, NH 03049

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

**N1MNX Repeater Support**

The N1MNX repeaters cover the area of our club members and are supported by user donations. Donations for support of the repeaters should go Dave N1MNX.

**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.

**Contests 2008**

June

14-16 ARRL June VHF QSO Party  
28-29 ARRL Field Day

July

12-13 IARU HF World Championships

August

2-3 ARRL UHF Contest  
16-17 ARRL 10 GHz and Up Contest

**DXpeditions**

Call	Location	Until
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See www.425dxn.org for more listings



**Nashoba Valley  
Amateur Radio Club**

PO Box # 900

Pepperell Mass 01463-0900

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

President: Stan Pozerski KD1LE  
Vice President: Peter Nordberg N1ZRG

Secretary: John Griswold KK1X

Treasurer: Ralph Swick KD1SM

Board Members:

Les Peters: N1SV 2005-2008

Joel Magid W1JMM 2006-2009

Bob Reif: W1XP 2007-2010

Editor: Stan Pozerski KD1LE

Emergency Coordinator: Larry Swezey KB1ESR

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

442.900 + 100Hz Repeater

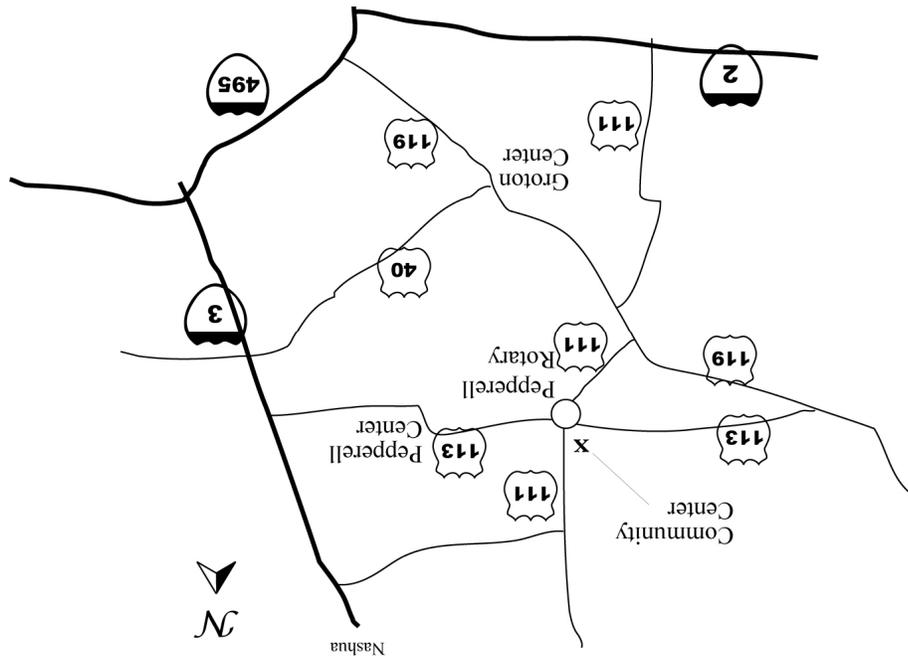
147.345 + 100 Hz Repeater

53.890 - 100Hz Repeater

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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**Nashoba Valley Amateur Radio Club**

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