



# SIGNAL



de NINC

January 2008 Volume 17 Number 1

## This Month's Meeting

This month's meeting program is Members Short Subjects. If you have a five to ten minute presentation we'd like to see it. It doesn't need to be a formal presentation. We only have two entries at this time.

At the end of the meeting we will be programming Yaesu FT-8900 radios. If you have one and would like it programmed bring it along. See separate text for details.

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.

## 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.

## New Member

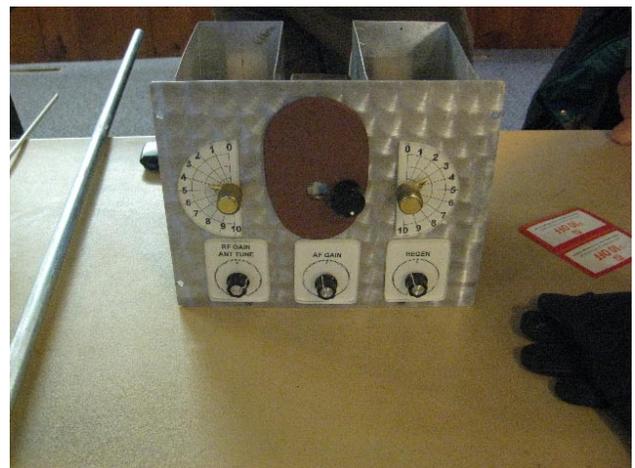
Welcome new member Dan Sullivan KB1OPO.

## Last Month's Meeting

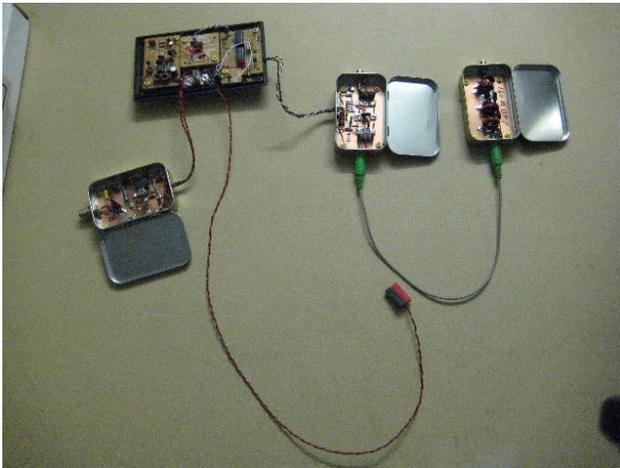
Last month's meeting program was Homebrew Night. Many members brought projects they had built or were building.



Chris Couteau and Larry KB1ESR talked about a GIS mapping project they were working on to make house, occupant, and other information available to police and fire responders. They are using GTViewer to display ESRI files and it has an APRS interface.



Earl WR1Y showed a receiver he built with particular attention to the dial and knob faceplates that are made with a software program.



W1XP showed a wideband noise blanker, for U. Lowell ionospheric sounder



Les N1SV showed a 900 and 1296 MHz transverters system he was building to install on his tower.

Leo K1LK showed pictures of a restored Sears Silvertone AM receiver he refurbished.

Stan KD1LE showed the open wire connectors he designed as a result of Field Day needs.

W1TRC showed a Super CMOS memory keyer w/built-in power supply; QST ca 1995

WA1TAC displayed a kit LC meter from AADE - Almost All-Digital Electronics \$100

Present at the December meeting were K1BG, K1LK, K1YTS, KB1EKV, KB1ESR, KB1LZH, KD1LE, KD1SM, KK1X, KX1G, N1QDZ, N1SV, W1TRC, W1XP, W1ZBT. WA1TAC, WR1Y, Guest Chris Cou-teau

**From The Editor**

Starting off the new year 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.

**Programming Your Radios**

Several of us have come up with a strategy for programming the memories of several of the modern radios we own. That is we have come up with an agreed upon memory mapping plan and have a created files with all the area frequencies we use. We have been updating the frequency list for several years so it includes most local repeaters and simplex frequencies. We also have the programming software and interface cables.

NVARC members own more than a dozen Yaesu FT-8900 mobile radios and there are three additional units available from Pepperell and Groton Emergency Management. We use these radios for our own use and for events such as the Groton Race and the Townsend 275<sup>th</sup> Anniversary Parade.

It is advantageous to have all these radios look the same. Much like having them all use Powerpole power connectors. They also can have the same set of frequencies available in the same memory locations and hyper memories.

After this months formal meeting we will be programming FT-8900 rigs with the current frequency set. Bring your FT-8900 radio if you would like to have it programmed. This will save you from having to create your own frequency list.

If there are other common programmable radios we could create a frequency list for them and have another programming session.

**Incandescent Bulbs Going Bye Bye**

The latest US energy bill signed in December has set the stage for the end of incandescent light bulbs as we know them. Retail sales of standard incandescent bulbs will stop the end of 2011. This is not

the problem it would have been only a few years ago. Compact Fluorescent (CF) bulbs or Compact Fluorescent Lamps (CFL) have come a long way in the past few years. They come in many different wattages which roughly equal the incandescent wattages such 60, 75, 100 in light output.

While CF bulbs cost more than incandescent they typically last about six times longer. Besides the wattage choices they come in a variety of forms such as flood light styles and enclosed tube. In addition to the standard base there are candelabra and various special fixture bases available. They are also available in models running on DC as well as AC.

Most people think of CF as the little bulbs with the curly tube that are used for incandescent replacements. These lamps have the ballast built into the base. But they are also available in straight U shapes with one or multiple parallel tubes. These come either with the ballast or with the ballast as part of the light fixture as in conventional four foot fluorescent tubes.

Dimmable CF bulbs are being developed. Some are already available. There are two types. One type is supposed to operate with standard dimmers and the other requires its own special dimmer. While incandescent lamps can be dimmed from 0-100% the CF bulbs have a range of 20-80%.

The reason for the shift to CF bulbs is they use 20-25% of power of a traditional incandescent lamp for the same light output. Residential lighting accounts for 9% of US electric consumption. If all the lighting could be replaced with lamps using only 20-25% as much power would cut US power use by 7%.

There are company's developing other high efficiency lamps. Solid state LED lamps are being developed as are high efficiency incandescent bulbs. As I said in the beginning it is only the inefficient standard incandescent bulbs that are going away. If a high efficiency lamp can be developed they can be sold.

One of the concerns with CF lamps is the electrical noise they generate. Since CF lamps have been around I have tried quite a few and have not found them to create unreasonable electrical noise. One lamp I am currently using is audibly noisy. I know some other people who experience was not a positive. We can hope that as these products evolve the issues are addressed.

There are programs or regulations promoting CF lamps in the US (and many States), the European

Union (as well as the individual countries), Canada, Australia and many other.

General Electric, EnergyStar, and other Websites have extensive information on the lamps.

Stan KD1LE

## Board Meeting

The monthly Board meeting was held January 10<sup>th</sup>.

We received a newsletter from Courage Handihams.

Ralph submitted the Treasurers report.

Authorized Ralph to purchase Yearbook binders.

Larry reported on the NMAEPC meeting. Larry showed the packaged FT-8900 radios. There is discussion about how to support area hospitals in an emergency. Further discussion about hospital requirements.

We are collecting materials for the two additional sorting boxes we want to build. Richard W1LTN donated \$20 for the project. Stan collected some plywood pieces.

Need to find items for the raffle.

Renewed John GM3TCW Honorary Membership.

Last month we received the two tri-band radios purchased by NMAEPC. Powerpole connectors were installed. The radios have now been programmed with our standard frequency matrix. They have been packaged in laptop bags with their accessories. Larry displayed them at the last NMAEPC meeting. He also delivered the thank you letter we wrote to them for their support.

## Adopt A Highway

Next road cleanup is April 2006

## Treasurers Report

Income for December was \$60 in membership dues, and \$20.96 from bank interest. Expenses were \$16.40 for newsletter postage and \$68 for the PO

box lease leaving a net expense of \$3.44 for the month.

Current balances:

General fund	\$4,286.98
Community fund	\$2,386.83

As of 10 January we have 59 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 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.

Ralph KD1SM

## ARRL Letter

### ICE STORMS MOVE ACROSS MIDWESTERN UNITED STATES

Ice storms swept across the Plains states earlier this week, and as of Wednesday, nearly 1 million homes and business were without power. In Oklahoma alone, there were approximately 600,000 without power, with 250,000 households and businesses in Tulsa alone without power. Officials in Missouri, Kansas and Oklahoma had declared states of emergency. President Bush declared a federal emergency in Oklahoma on Tuesday, ordering government aid to supplement state and local efforts. Authorities said Tulsa and Oklahoma City each had more than 100 reports of fires since the storm began, mostly from tree limbs crashing into live power lines.

According to ARRL Oklahoma District Emergency Coordinator Mark Conklin, N7XYO, "Starting early Monday morning, Oklahoma ARES was activated to support local area hospitals, as only five of the area hospitals had power from the grid. As of Wednesday, all hospitals had power. ARES volunteers are providing communications for one hospital at this time, but the Oklahoma State University Medical Center and Tulsa Spine Hospital also requested assistance. ARES is also working with the local Medical Emergency Response Center and the Tulsa Area Emergency Management Agency."

Tim Hoss, Safety Officer at the Oklahoma State University Medical Center, said, "I want to personally

thank each and every one of the volunteers that came to our facility and kept us in constant communication with the Medical Emergency Response Center. I hope you and all your fellow hams know how greatly respected you are in the eyes of the emergency planners for Tulsa. Your organization is the one that will get through and perform flawlessly when no one else can."

More than 30 shelters were opened across the area. More than 1500 people have stayed at least one night in one of the shelters.

Ice ranging from a quarter-inch to an inch thick has glazed roads in much of the central Plains and Midwest. At least 24 deaths – mostly traffic accidents -- have been blamed on the storm since it developed last weekend: 15 in Oklahoma, four in Kansas, three in Missouri and one each in Nebraska and Michigan.

The power outage was the worst ever in Oklahoma, with more than 618,000 homes and businesses without electricity as of late Tuesday. Officials said it could be a week to 10 days before power is fully restored. Elsewhere, nearly 350,000 people were affected by outages in Missouri, Kansas, Iowa and Illinois.

The National Weather Service said that all ice storm warnings for the storm have come to an end. Freezing rain and winter weather advisories over Northern Missouri and Western Illinois expired Wednesday morning. Other winter weather advisories across the Midwest, including Northeast Oklahoma, also expired Wednesday morning. Collinsville, Oklahoma experienced 1.5 inches of freezing rain; Davenport, Iowa had .4 inches of freezing rain; Manhattan, Kansas had .75 inches of freezing rain; Poplar Grove, Illinois had more than one inch of sleet and freezing rain. Iowa is expected to get another five inches of snow, and Nebraska up to 10 inches.

### RADIO CLUB OF AMERICA HONORS CRONKITE, BODSON, BELROSE; CRONKITE RECEIVES ARRL PRESIDENT'S AWARD

At the 98th annual Radio Club of America (RCA) banquet on November 16 in New York City, Walter Cronkite, KB2GSD; ARRL Roanoke Division Director Dennis Bodson, PhD, PE, W4PWF, and Jack Belrose, PhD, VE2CV, were toasted and feted throughout the night. Bodson received the Sarnoff Citation, given to recognize significant contributions to the advancement of electronic communications. Barry Goldwater, K7UGA (SK), was the first recipient of the Sarnoff Citation in 1973. Both Cronkite and Belrose received the Armstrong Medal, the RCA's foremost

achievement award and named for its first recipient, Major Edwin Armstrong. The keynote speech was given by Andy Rooney of television's "60 Minutes."

According to RCA Director-Elect Don Bishop, W0WO, Cronkite and Rooney both attended the latter part of cocktail reception that preceded the banquet. Cronkite sat in an elevated chair to greet RCA members and guests in a receiving line and Rooney sat at a small table where the occasional visitor might approach to offer greetings. "The focus was on Cronkite, who enjoyed shaking hands with his admirers and exchanging a few words with them," Bishop said.

Before the banquet and ceremony, ARRL Hudson Division Director Frank Fallon, N2FF, presented Cronkite with the ARRL President's Award. This award, created in 2003 by the ARRL Board of Directors, recognizes an ARRL member or members who "have shown long-term dedication to the goals and objectives of ARRL and Amateur Radio" and who have gone the extra mile to support individual League programs and goals. Cronkite was selected to receive the award in April 2005 "in recognition of his outstanding support of the ARRL and Amateur Radio by narrating the videos 'Amateur Radio Today' and 'The ARRL Goes to Washington.'"

"It was quite a thrill to make this presentation to Cronkite," Fallon said. "He has long been recognized as the 'most trusted man in America.'"

Fallon said that this is only the third time the award has been given and second time a ham residing in the Hudson Division has been given the Award: "The first award went to Jerry Agliata, W2GLA, who received the award in 2004 at the Hudson Division Awards Dinner for his longtime involvement in legislative efforts in New York State on behalf of amateurs. The second time it was presented, it went to Mary Ann Crider, WA3HUP, in 2005 for her contributions to the cause of international goodwill through her long service as QSL Manager and Manager of the ARRL Third Call Area Incoming QSL Bureau."

After the dinner, RCA Fellow Ted Rappaport, PhD, N9NB, came to the podium to present the Sarnoff Citation to Bodson. Rappaport said, "It is my honor to present this year's Sarnoff Citation. It isn't given every year. It was initiated in 1973, and it is given to one individual who has made significant contributions to the advancement of electronics. This year's recipient is Dennis Bodson. Dennis has dedicated his career to standardizing the electronics industry. His efforts in standards, which were required to allow components made by all manufacturers to interact with one another, were recognized by the IEEE with

the Charles Proteus Steinmetz Award. We're honored to have with us Dennis Bodson to receive this citation. I asked him, given his amazing contributions amongst the many he has made technically, what was the key to his success. He said a key to his success was his wife of 42 years, Rita, who is with him tonight."

Bodson received the citation and responded: "As I look back through my career to identify highlights as anyone might do with their own careers, it is never a singular thing one sees. There are many others who help you to achieve. To those, I also thank them. I also have a special thanks to my family and to my wife Rita, because without their cooperation and support, I wouldn't have been able to accomplish much of anything. Thank you, Rita, and thank you to the Radio Club of America."

Richard Somers, W6NSV, presented Cronkite with the Armstrong Award. Somers said, "Each year, the Radio Club of America recognizes outstanding achievement in the field of wireless communications by honoring individuals who have made significant contributions to the industry and the public it serves. The highest and most prestigious award given by the Club is the Armstrong Medal, created in 1935 and named after Major Edwin Armstrong, wireless pioneer and inventor of FM radio. Since that time, this award has been presented infrequently and only to the most accomplished and deserving individuals -- those who have made important contributions to the radio art and science. As his significant contribution, our award recipient has used the medium of television to keep the American public informed of the news in a manner never before imagined. And tonight, we have the distinct privilege of having that individual with us, America's best known and most respected broadcast journalist, Walter Cronkite."

Following the introduction, Cronkite simply said: "Thank you for accepting me as one of you and for your accomplishments in the field of communications."

RCA Vice President Marty Cooper then stepped to the podium and presented a second Armstrong Medal to John S. "Jack" Belrose, PhD, VE2CV. "As Richard said, the Armstrong Medal was first awarded in 1935 and has been awarded 40 times since then. Not long after it was first awarded, our next awardee went to work at the Communications Research Centre in Canada, John Belrose. Jack worked at the Communications Research Centre for 55 years and still works there today but he rose to become the director of the Radiosciences Branch. He was educated in Canada and got his PhD in Cambridge. He has participated in numerous Canadian and interna-

tional standards and technical groups. He has written more than 125 articles and papers on the subject of radioscience and antennas and propagation. For your lifetime of important communications, it is my pleasure to present you with the Armstrong Medal," Cooper said.

Belrose, a "QST" and "QEX" author, responded: "It was noted that candidates for the Armstrong Medal are restricted to Club members since, in 1937, everyone who was anyone in radio was a member of the Club. We can't say that nowadays, but it shows the prestige that our Club once had. Professor Hazeltine, the first recipient in 1937, said Edwin H. Armstrong is the patron saint of our Club, and certainly it was true. Armstrong made it a practice to make his first declaration of his inventions before the Club. Seven out of 26 important papers were published in our "Proceedings." He was president from 1916 to 1920, and he was one of the six member team that designed, constructed and operated the Amateur Radio station 1BCG that successfully transmitted a 12 word message across the Atlantic from Greenwich, Connecticut to Ardrossan, Scotland on December 11, 1921. Thank you for giving me the Armstrong Medal. When I look at it, I will think perhaps I did contribute something, rather than nothing, to the book of knowledge."

#### **NASA PUSHES SHUTTLE LAUNCH TO JANUARY**

NASA announced last week that the space shuttle Atlantis, set to launch into space on December 6 to the International Space Station (ISS), would be delayed until no earlier than Wednesday, January 2 after a failure occurred in a fuel sensor system while Atlantis' external fuel tank was being filled. The shuttle will transport Columbus, the space laboratory built by the European Space Agency (ESA). Columbus has two Amateur Radio on the International Space Station (ARISS) antennas attached to its nadir side, and will also provide scientists around the world the ability to conduct a variety of life, physical and materials science experiments.

One of the four engine cutoff, or ECO, sensors inside the liquid hydrogen section of the tank gave a false reading. NASA's current Launch Commit Criteria require that all four sensors function properly. The sensor system is one of several that protect the shuttle's main engines by triggering their shut down if fuel runs unexpectedly low. Atlantis' scheduled launch on December 6 was delayed after two liquid hydrogen ECO sensors gave false readings. A third sensor failed after the tank was drained of fuel.

The mission, STS-122, will bring seven astronauts to the ISS: Commander Stephen N. Frick, KD5DZC; Pilot Alan G. Poindexter; Mission Specialist Rex J.

Walheim; Mission Specialist Stanley G. Love; Mission Specialist Leland D. Melvin; Mission Specialist Hans Schlegel, DG1KIH, of Germany, and Mission Specialist/Expedition 16 Flight Engineer Leopold Eyharts, KE5FNO, of France. Flight Engineer Dan Tani, KD5DXE, already on board the ISS, will depart when Atlantis returns to Earth; Eyharts will stay behind on the ISS and take his place.

#### **DXCC DESK ANNOUNCES NEW ENTITY**

The ARRL DXCC Desk is pleased to announce the addition of St Barthelemy (FJ) to the DXCC List, making the island entity number 338 with an effective date of December 14, 2007. Cards with contacts dated December 14, 2007 or after will be accepted for DXCC credit. New card submissions for St Barthelemy will not be accepted until January 1, 2008 in order to allow time for administrative adjustments.

On February 21, 2007 the French Ministry issued a decree making St Barthelemy an Overseas Collective, where its status is now equal to that of Guadeloupe, Martinique and other French territories currently on the DXCC List. On November 8, 2007 the President of Association Des Radio Amateurs De St Barthelemy, Philippe Delcroix, FJ5DX, contacted the DXCC Desk, requesting that St Barthelemy be considered a new DXCC entity.

The "event date" that caused St Barthelemy to be added to the DXCC list was December 14, 2007, the date the US State Department added St Barthelemy to the "List of Dependencies and Areas of Special Sovereignty" with its Administrative Center in Gustavia, qualifying it under DXCC rules in Section II - 1 Political Entities (c): "The Entity contains a permanent population, is administered by a local government, and is located at least 800 km from its parent. To satisfy the 'permanent population' and 'administered by a local government' criteria of this subsection, an Entity must be listed on either (a) the U.S. Department of State's list of 'Dependencies and Areas of Special Sovereignty' as having a local 'Administrative Center,' or (b) the United Nations list of 'Non-Self-Governing Territories.'"

French St Martin (FS), while also added to the List of Dependencies and Areas of Special Sovereignty, will remain on the DXCC List, but it is now considered a Point 1 Political Entity under the same classification as that of St Barthelemy.

Please direct any questions you may have about St Barthelemy, St Martin or the DXCC program to the ARRL DXCC Desk <dxcc@arrl.org>.

## UPCOMING OPERATING EVENTS

Are you getting a new rig this holiday season? Maybe you are perfectly happy with the one you have now. Does it really matter as long as you get on the air? Put your rig to good use and join in these operating events and contests that are coming up the first week of 2008.

The ARRL Straight Key Night fast approaching! Dust off that old J-38 and enjoy CW as it used to be. This on-air operating event is designed to encourage all Amateur Radio operators to enjoy sending Morse code the old-fashioned way. While the event is called Straight Key Night for a reason, the main point is to encourage the use of CW in a relaxed, no-pressure atmosphere. Bugs and iambic paddles are allowed, but we encourage all participants to use a straight key if possible. Enjoy a good ragchew and cast your vote for the "best fist" you hear. Be sure to tell us about your most memorable contact. The ARRL Straight Key Night is from 0000 UTC-2400 UTC on January 1, 2008. You can find complete details on page 98 of the December 2007 QST.

The first weekend of 2008 provides an opportunity to enjoy some healthy competition. The ARRL RTTY Roundup has quickly become one of the best contests using the digital modes. RTTY, PSK31, and several other digital modes are used to communicate with other amateurs all around the world. If you've wanted to try your hand at digital operating, this contest is an exciting way to get your feet wet. The ARRL RTTY Roundup is from 0000 January 5, 2008-2400 UTC January 6, 2008. Complete rules can be found on page 97 of the December QST.

Are you looking for a fun way to share Amateur Radio with your kids? Kids Day, created by the Boring Amateur Radio Club of Oregon, takes place on Sunday, January 6, 2008. Kids get behind the microphone and make actual on-the-air contacts with other kids across the United States and Canada. Kids exchange their name, age, location and their favorite color in a contest-style event. Custom certificates are available for free download for each child that participates! Kids Day is a great way to show your family just how much fun you can have with Amateur Radio. You can find more information on page 39 of the December 2007 QST.

Make it your New Year's resolution to get on the air more. Be it CW, digital modes such as RTTY or PSK31, SSTV or simply using your microphone, there is something magical about radio. Make 2008 the year you rediscover what the magic is all about.

## NVARC Club Net

The club net meets on the 442.900 repeater. Subjects discussed recently; emergency communications preparedness, repeater maintenance, current activity on Pave Paws interference problem.

Recent participants include Dave N1MNX, Bob W1XP, Bob AB1CV, Joel W1JMM, Larry KB1ESR, Skip K1NKR, Gary K1YTS, 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  
February  
16 Marlboro MA Algonquin ARC  
17 Westford MA Antique Radio  
23 Milton VT

March  
30 Southington CT

April  
6 Framingham FARA  
19 Manchester NH NE Antique Radio

August  
22-24 NE Division Convention Boxboro

## Advertisements



DICK WILBORG W1ZC  
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Tell them you saw it in the Signal. Advertisers should contact the NVARC Treasurer for information.

**New ARRL EmComm Manager Dennis Dura, K2DCD, Speaks at ARRL Convention**

On September 22, the ARRL's new Emergency Preparedness & Response Manager Dennis Dura, K2DCD, spoke at the Great Lakes Division Convention in Cleveland, Ohio. The following summary of Dura's remarks is based on the notes of attendee Walt Heeney, N8LJM.

Dura announced that the Statement of Understanding with the American Red Cross is currently in negotiation, with staff members from ARRL and ARC having already met once for discussion. A major issue is the Red Cross background check requirement. The ARC has said it values ARES contributions, and ARRL certainly wants to continue to support the ARC. The Red Cross has suggested that ARRL conduct its own criminal background checks, but that is not a mission the League will take on. Additionally, becoming an ARES member does not require League membership which would complicate this further. ARRL recognizes background checks are necessities, but feels that only a criminal check is warranted.

A new ARRL EmComm course on-line will focus on digital modes, starting about the first of the year.

Turning to the issue of resource typing, Dura said that using the Department of Homeland Security (DHS) NIMS, the ARRL will be defining types of radio assets needed for emcomm activity. Also to assist the field, "best practices" utilized by various ARES groups will be highlighted and applied across the Nation as appropriate. There is no reason he said, to reinvent the wheel.

Dura explained the difference between "IDs" and "Credentials": IDs show who you are, while credentials provide your capabilities, training, education and authorizations. Emergency response agencies are looking for both. Ultimately, IDs will include credentials, which will determine who can serve where in and around the disaster area.

Integration of various emcomm entities is a goal. Mutual aid will improve with closer ties among ARES, RACES, SKYWARN, and with counties, states and other levels of emergency management, Dura said.

DHS has formed a new unit devoted to emcomm functions. This unit should be stood up with staffing before the end of the year according to sources.

Watch for more spontaneous ARES drills. Dura activated one over the Labor Day weekend to test responses. There will be more top down spontaneous drills to test readiness and participation.

The staff at ARRL is considering moving the dates of the venerable Simulated Emergency Test (SET) with the likelihood of having regional, and potentially national SETS. These regional SETS will be based upon the hazards and risks inherent to the locale.

For his presentation, Dura was wearing a Blackberry (telephone, e-mail, SMS, IM) and a Skytel 2 way pager, and a H-T. He said that ARES members should not rely on ham radio alone to maintain a heightened level of situational awareness. Emergency communicators must be able to use multiple tools so they can use what works best at a particular scene.

Dura's final comment was that the days are almost over when ARES will accept volunteers who say "call me if you need me," but fail to be trained, attend meetings and participate in drills. [Thanks to Walt Heeney, N8LJM, for this report]

from The ARES E-Letter  
October 17, 2007

**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).

**Contests 2008**

January

13 DARC 10 Meter Contest  
19-20 North American QSO Party SSB  
26-27 CQ 160 Meter Contest CW

February

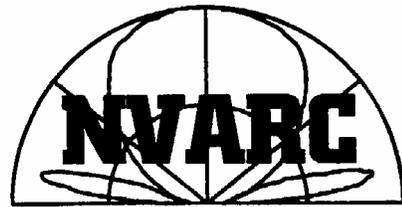
2-3 Vermont QSO Party  
2-4 Delaware QSO Party  
23-24 CQ 160 Meter Contest SSB  
23-24 North American QSO Party RTTY

**DXpeditions**

Call	Location	Until
9V1CW	Singapore	2008

9A60K		12/31/07
9A07P		12/31/07
SG60RK	Gotlamb Is	12/31
FO5RU	French Polynesia	1/15/08
FO0	Clipperton Atoll	3/08

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



**Nashoba Valley  
Amateur Radio Club**

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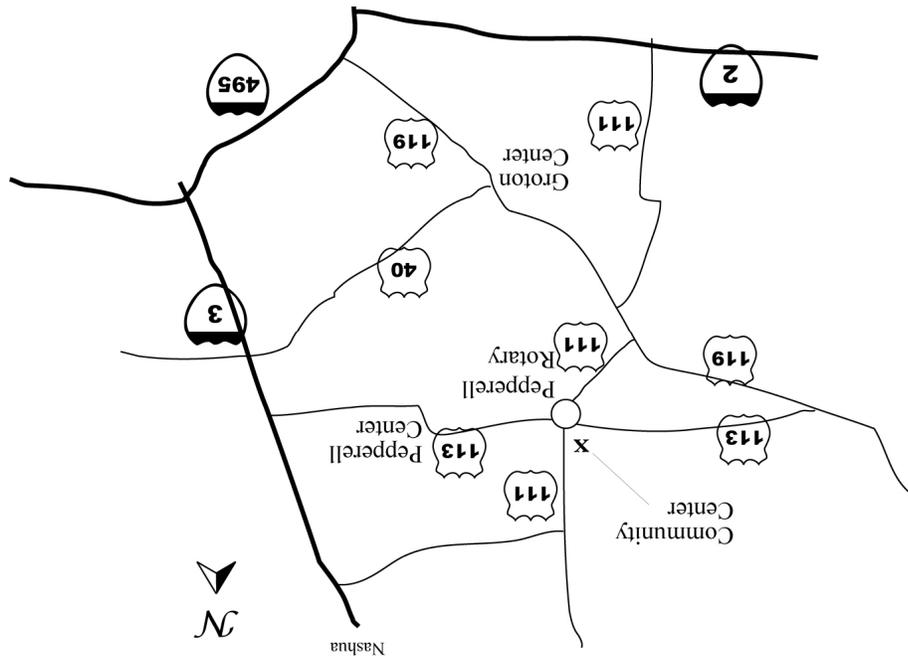
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Vice President: Peter Nordberg N1ZRG  
Secretary: John Griswold KK1X  
Treasurer: Ralph Swick KD1SM  
Board Members:  
Les Peters: N1SV 2005-2008  
Joel Magid W1JMM 2006-2009  
Bob Reif: W1XP 2007-2010

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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