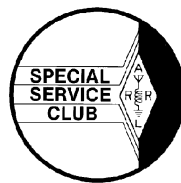


# Nashua Area Radio Club Bulletin



See you at our next meeting!  
**December 4, 2000, 7 PM**  
 at the Nashua Public Library Auditorium  
 2 Court Street  
 Nashua, New Hampshire

Volume 23 Number 12

Meetings: Seven PM, First Monday of the Month at the Nashua Public Library

December 2000

## Our Next Meeting ...



Neil Rosenberg, K1VY  
 NARC's playwright and  
 producer of Programs

### Elections, awards and more...

Thanks go out to Ralph KD1SM and Stan KD1LE for November's great program on "Fox" hunting. You can bet that members of NARC will participate in a hunt soon, perhaps through the Pepperell group.

December's meeting is historically a time for election of new (old?) board members, and for the year's awards. I'd like to ask that any nominations for either be forwarded ASAP to myself or any NARC board member. We'll also have a video of a great old time "news" film, with interest to ham radio. It's from the 1930's, and it's a hoot.

January is "Project Night"; it's a good chance for you to showcase anything that you've built, designed, put together, etc. Whomever is elected as your next Programs director will, I'm sure, appreciate any and all contributions large and small to the evening, so put on that thinkin' cap.

You don't have to be a member of NARC to come enjoy our meetings. It's a great time to make some friends, and become involved in what's going on, so don't be shy. Meetings are generally the first Monday of every month (holidays push it out a week), downstairs at the Nashua Public Library.

For more info please contact me, Neil, K1VY at (603) 465-2788, or any of the NARC board members, listed near the back of this bulletin. Hope to see you there!

## "Canned" Hams

Bring a can or non-perishable food item to all NARC events, including meetings. Cans are donated to the local soup kitchen. The donations are greatly appreciated by those in need. Give the cans to any club officer.



### Hear Ye, Hear Ye

The Coordinator of Activities, is about to speak.

**Sumpin to do from  
 Colleen Gaffey, N1HAJ**

### Party!

Hello all, its that time of year again to think about snow, winter and of course the NARC holiday party. Keeping with tradition, we will have the party at the Horsepond Fish & Game Club on 13 Horsepond Ave, off Broad St. in Nashua, starting at 7 PM. Tickets will be available at the door or from any board member. The cost is \$8.00 for adults and children 12 and under are \$4.00. It will be a pot luck dinner, you will be asked to bring either an appetizer, main dish, vegetable/salad or dessert. Please let me know as soon as possible what you will be bringing. We will be having a delicious honey-baked ham at go with your homemade specialties! The club also supplies soft drink, coffee and tea for the party. BYOB. We do not have access to the kitchen at the Horsepond except for water. There will be power available for crock pots.

We also traditionally have a gift exchange; if you wish to participate, bring a wrapped gift (\$10.00 or less value) and label it for a guy or gal or either. Also, if you are bringing a younger child, please bring them a gift with their name on it.

The club will again be donating dinner gift

certificates and one from HRO. Only club members are eligible for the drawings.

This is our second biggest event of the year. We all have a great time and lots of laughs. Hope to see you all there!

## ELECTIONS

The following are presented for positions on 2001 board of the Nashua Area Radio Club.

President: Don Hornbeck, K1EER  
 Vice President: Darryl Wagoner, WA1GON  
 Treasurer: Mark Wagner, N1ZYZ  
 Secretary: Fletch Seagroves, N1MEO  
 Programs: Neil Rosenberg, K1VY  
 Activities: Nancy Rosenberg, KW1LTR  
 Membership: Skip Youngburg, K1NKR

In accordance with the club bylaws, the election will be held at the December meeting of the NARC. Voting will be held between 7:00 PM and 7:15 PM.

The club constitution and bylaws can be found on the website at <http://www.n1fd.org>

If you intend to vote, please ensure that your dues are paid before the meeting starts. You must be present to vote. The ballot will provide for write-in candidates.

## Mystery Radio on 87.9 MHz, Part 2

Last month I reported on a FM radio station broadcasting on 87.9 MHz, below the U.S. FM radio band and above TV channel 6's audio frequency. The station broadcasts mostly during the evenings, and plays a combination of old tunes - folk music, blues,

*Mystery - continued on page 3*

### In this issue ...

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Nashua Area Radio Club Home Page:  
<http://www.n1fd.org>

FCC Hotline 1-888-225-5322

FCC ftp site ftp.fcc.gov

NARC Internet re-mailer: [narc@bbn.com](mailto:narc@bbn.com)

ARRL ham hotline 800-32-NEWHAM



Nashua Area radio Club meetings are accessible for the physically challenged.

# Tiny Elephant's Contest Corner

The Latest Contest news -  
A NARC Bulletin Exclusive



A monthly column by Ed Deichler, K2TE

## What Day is This?

I recently mentioned to the XYL that the NARC Christmas party is being held on December 2<sup>nd</sup> this year. She asked me how is that I can remember dates for ham radio events but I never seem to remember family birthdays and other events. I countered that that is not true by reminding her that I have never forgotten her birthday or our anniversary. She was taken aback by my sudden and rarely successful rebuttal. However, she recovered and parried with an accusation of why I never remember her mother's birthday. I fumbled around for a bit - let's see, I know it's in July - before I hit on a stroke of genius: There are no major contests near her birthday! Besides, it is the middle of tower maintenance season.

She left in disgust - at last - and I went back to tuning the bands. As I thought about it, though, she may be right. I remember her birthday because it is about a week after the RTTY Roundup that takes place the first weekend in January. Our anniversary is easy to remember because it is about 2 weeks after the CQ WW WPX contest held the end of March each year. I don't have to be exact, just as long as I get her something in time.

On my side of the family, my mother's birthday is about a week before the CQ WW SSB contest, while Dad was about a week after the ARRL 10 Meter contest. Their anniversary? Piece of cake: a day or two before the ARRL CW DX contest. My brother has to compete with antenna maintenance season but I know it's near the end of July. Finally, my sister falls in-between the ARRL CW and SSB Sweepstakes contests.

There are other dates in hamming that are a little less obvious. Here is a list that I came up with (in no particular order):

Nov 1: My voice returns to normal after the CQ Worldwide SSB Contest.

Dec 1: Ringing, beeping, and chirping in my ears from CQ Worldwide CW Contest stops.

Field Day + 2: Upset stomach and intestinal problems from Field Day chili pass.

June 30: Aches and pains from Field Day tower setup and teardown are gone.

July 30: Field Day poison ivy finally gone.

Sep 30: Twitching eyeballs and low-grade headache from staring at the screen during CQ Worldwide RTTY Contest stop.

Oct 20: All the Rochester hamfest stuff now scattered in the garage, basement, and shack.

Feb 26: Minor frostbite burns from emergency tower work during the ARRL CW DX Contest begins to flake off.

Dec 10: Faint scratching & crunching in my head from ARRL 160 Meter Contest ceases.

Hmm, lets see, while I'm on a roll with this thing, what are some of the more obscure non-ham dates that are important? How about these?

Jan 23: Last of kids Christmas toys has been put together.

Feb 13: Christmas candy is finally gone.

Feb 14: Kitchen full of Valentine's candy.

Mar 14: New program you received as a Christmas present finally runs.

Apr 20: Last of oak leaves finally fall.

May 2: Snow tires taken off.

May 3: Last major snowstorm of the season.

May 22: Easter candy finally gone.

June 10: Twigs and branches from winter and spring storms all cleaned up.

Nov 17: Halloween candy is finally gone.

December 1: No more turkey leftovers.

With all these dates to remember, make sure you don't forget the "bookend" contests that

take place this month:

### ARRL 160-Meter Contest, 1-3 December

The ARRL Top Band Contest (AKA, NARC Christmas Party Warmup) starts 2200Z on Friday night and goes until 1600Z on Sunday. The contest exchange is simply RST and ARRL Section for us and RST and a serial number for DX stations. Power levels range from the legal limit to 100 watts to QRP (<5 W) for the truly nuts. Each US and VE station counts as 2 points and DX stations count 4 points. Multipliers are the total DX countries and ARRL/RAC sections worked. Logs go to 160Meter@arrl.org by 3 January 2001.

This contest is one of the big ones for ham radio's "bottom feeders". Operators must patience that borders on maddening to put together calls that are constantly mashed in the noise. The big guns are those lucky hams with several acres of land in all directions from the shack in order to run beverages. If you have a modest dwelling, however, don't despair. The 160 meter contest offers an excellent opportunity to sneak out that secret beverage across the neighborhood right around dusk. Because the band is useful only at night, a small helium balloon fastened to 200 feet of wire makes a great vertical during the night when winds are usually calm and the wire will stretch straight and tall. (Remember to pull everything in at daylight.)

### ARRL 10-Meter Contest, 9-10 December

The ARRL 10-Meter contest covers the 48 hours of the weekend with operation limited to 36 hours. Operating categories can be SSB only, CW only, or both modes. Stateside stations send a signal report and their state; DX stations will send a report and serial number. Multipliers are the number of states and DX countries worked. SSB QSOs are worth 2 points and CW QSOs count as 4 points. If you find a novice or technician station, designated by a "N" or "T" after the call, it is worth 8 points. Logs go to 10Meter@arrl.org by 10 January 2001.

I certainly don't have trouble remembering what else happens this month. 73 and Merry Christmas to everyone! de K2TE

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# The Secretary's Report

## Minutes from the October 30<sup>th</sup> Executive Board meeting and November 6<sup>th</sup> Club Meeting

Respectfully submitted by Dave Pyle, KW1DX



### October 30<sup>th</sup> Board

Attending the meeting were Don Hornbeck, K1EER, Spi Spinak, K1CWZ, Dave Pyle, KW1DX, Mark Wagner, N1ZYZ, Colleen Gaffey, N1HAJ, & Neil Rosenberg, N1VY.

The meeting was called to order at 7:00pm by the President Don, K1EER.

Don, K1EER, announced that he would not be able to attend the November General Meeting due to other commitments. Spi, K1CWZ would run the meeting.

Secretary report by, Dave KW1DX indicated a local news article describing the activity of K1EER and K7CTW was forwarded on to the ARRL for possible inclusion in QST. No other correspondence took place.

Treasurer, Mark N1ZYZ, showed a copy of the monthly budget with a balance of \$3,945.87 with the auction pulling in an unbudgeted \$797.00.

Programs, Neil, N1VY, reported that programs are set through January with a Fox Hunting in November, Awards & Elections in December and Project Night in January.

Activities, Colleen, N1HAJ, work is being done on the Holiday Party for December.

**Old Business:** Mark, N1ZYZ, agreed to take on the role of nominations committee to present a slate of candidates at the November meeting.

Budget for 2001 was reviewed with some additions and deletions.

The meeting was adjourned at 9:07pm.

### November 6<sup>th</sup> Club

At 7:00 PM the meeting was called to order by Vice-President Spi - K1CWZ. With no classic junk to raffle off introductions commenced and Spi welcomed visitors.

Dave, KW1DX, reported that a local article on the lighthouse day operation was sent to

the ARRL. A recap of the October board meeting was reviewed and the minutes were accepted as written in the bulletin.

Treasurer, Mark, N1ZYZ, reported that the current club balance was \$3,741.19 with the auction bring in over \$700.00. The treasurer report was accepted. Mark then reviewed the 2001 budget which he announced would run a negative balance to spend some of the ever increasing club balance.

The evenings program then commenced with a talk on Fox Hunting.

Membership, Dave N1SUE, reported current roster at 173 members in good standing.

Activities, Colleen, N1HAJ, announced the Holiday Party info would be sent via NARC e-mailer. Tickets, \$8 with \$4 for children, a gift exchange of \$10 will take place.

Training, Skip, K1NKR announced 5 people are currently in the class and are doing fine.

Neil, N1VY, announced the programs for the upcoming months and put out a call for possible ideas for next year.

**New Business:** Nancy, KW1LTR, reminded everyone that ideas for awards are needed for awards night in December.

It was announced that Jim Heedles, WW1Y, is giving up the editor position of the bulletin after five and half years. Malcom Taylor, G0UCX, would be taking over the editor role of the bulletin.

Mark, N1ZYZ, announced the slate of candidates for the December elections, President, K1EER, Vice President, WA1GON, Secretary N1MEO, Treasurer, N1ZYZ, Programs, N1VY, Activities, KW1LTR, Membership, K1NKR.

At 8:30 PM the meeting adjourned.

*Mystery - continued from page 1*

light jazz, rock and comedy. In an effort to determine the station's location, I requested signal reports from anyone else who may have heard the same station. I want to thank all those who sent me email. I especially want to acknowledge Dennis, WA1HOG, Harry, WA1VVH, and Robert, W1AOC, who provided valuable signal reports to help me find the general location of the station.

Based upon the signal reports, I suspected the station to be located in the Westford, MA area. On Thursday, October 19, 2000, I took a ride through Westford. Using a Radio Shack PRO-26 scanner I listened on 87.9 MHz. When the signal became very strong, I removed the scanner and was able to hear the station for about the distance of one block. The signal was strongest, without an antenna, directly in front of one particular house. Except for one vertical antenna on the roof, I did not see any other antennas, but it was getting dark by then.

Sometimes weak, unintelligible SSB can be heard bleeding through on the same frequency. Whoever broadcasts music on 87.9 may also use SSB, usually late at night, to talk to local friends on an HF band. One has to wonder why, now that it is so easy to get an amateur radio license. However, I am still fascinated and curious to learn where the diverse variety of old and obscure music and comedy comes from. As I said last month, I enjoy most of the programming.

But wait, there's more. In an effort to find the Westford station, I found another station also on 87.9 MHz. This second station broadcasts Spanish religious programming, and is on during the days and evenings. When the Westford station is off the air, the Spanish station can be heard, weakly, on Route 495 from Route 2 south to about the intersection of Route 62. It can also be heard in parts of Townsend and Ashby, on Route 119. I suspect that the Spanish station is located around Fitchburg. If anyone has any information, please let me know. You may contact me by email at n1dgg@msn.com, or by regular mail at 20 Bluestone Drive, Nashua, NH 03060-6820.

Peter Gailunas / KA1OKQ

ka1okq@nhrc.net

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**The KY1N Memorial List****Scheduled VE exams for December, 2000 MA ME NH VT**

Please check with the contact person, as some dates are tentative

Date	Time	Contact	Location	Phone
12/02	10:00	Robin J Walls, N1NFK	Bath	ME 207-725-5135
12/02	10:30	Larry Houbre, AA1FS	Dartmouth	MA 508-991-6055
12/02	09:00	<b>Jim Heedles, WW1Y</b>	<b>Nashua</b>	<b>NH 603-672-4035</b>
12/02	08:00	Conrad Ekstrom, WB1GXM	Newport	NH 603-543-1389
12/07	18:30	Leonard J Umina, K1LU	Marlborough	MA 508-303-0319
12/08	18:30	Ralph T Stetson III, KD1R	Burlington	VT 802-878-6454
12/08	19:00	*Tony Naglieri, N1NYD	Ware	MA 413-545-6041
12/09	09:00	Bill Sullivan, K1AG	Bangor	ME 207-947-4051
12/09	09:00	William J Needham, K1WN	Braintree	MA 781-843-4400
12/09	09:00	Joanne Reid, N1LNE	Falmouth	MA 508-548-1121
12/10	12:00	Bob Quinn, WV1A	Gloucester	MA 978-283-4660
12/10	15:00	*Tom Sefranek, WA1RHP	Shirley	MA 978-425-6672
12/11	19:00	Bob Wondolowski, N1KDA	Brookline	MA 508-865-5822
12/13	19:30	Bruce Anderson, W1LUS	Chelmsford	MA 978-851-2886
12/14	18:30	Leonard J Umina, K1LU	Marlborough	MA 508-303-0319
12/16	09:00	Douglas Rugg, N1JTH	Auburn	ME
12/16	09:00	William R Wade, K1IJ	Marlborough	MA 617-699-3670
12/16	13:00	*Scott Kingsley, WB1F	Melrose	MA 781-665-7654
12/16	11:00	Henry Fales, KZ1V	Orleans	MA 508-255-2818
12/20	19:30	Nick Altenbernd, K1MQX	Cambridge	MA 617-253-3776
12/20	19:00	*Paul Upham, KD1YH	Lunenburg	MA 978-597-6535
12/21	18:30	Leonard J Umina, K1LU	Marlborough	MA 508-303-0319
12/22	18:00	David Cote, WA1DC	Holyoke	MA 413-592-4978
12/28	18:30	Leonard J Umina, K1LU	Marlborough	MA 508-303-0319
12/30	08:00	*Michael W Corrow, K1XH	Hanover	NH 802-436-1349

**NOTES: \* = PREREGISTRATION MANDATORY****T = Technician Exams only**

Please remember to bring the following with you:

- Original and copy FCC-issued license (if already licensed)
- Original and copies of all CSCE's you are claiming
- One photo ID, or two non-photo ID's (one with address)
- The 2000 test session fee of \$6.65

For the latest update check <http://www.n1fd.org/ky1n/ky1n.html>**NTS/ARES Information**

Get more involved in traffic handling. In a real emergency the skills learned on the traffic nets will be vital. Note all times are Local and NTS net times are for cycle 4:

Granite State Phone Net (LSB)

3942 KHz, 6:30 PM Daily

3945 KHz, 9:30 AM Sunday

Granite State FM Net (FM)

146.940- MHz , 8:30 PM Daily

Eastern Mass/Rhode Island Slow Net - CW

3715 KHz, 4 &amp; 8:30 PM Daily

Vermont/New Hampshire Net (VTNH)-CW

3539 KHz, 7 PM, Daily

1st Region Net (FRN) - LSB

3948 KHz, 1:45 &amp; 3:30 PM Daily

1st Region Net (IRN) - CW

3602 KHz, 6:30, 7:45 &amp; 9:30 PM Daily

Eastern Area Net (EAN) - CW

3670 KHz, 8:30 PM Daily

Eastern Hillsboro ARES net (FM)

147.045+ MHz, Tuesday 8 PM

Western Hillsboro ARES net (FM)

443.35+ MHz PL 110.8, Tuesday 8:15 PM

146.73- MHz PL 88.5, Tuesday 8:30 PM

**Deadline for the  
January Bulletin is  
Friday December  
8th, 2001**

**Thanks!**Thanks to the following folks who contributed to this month's *Bulletin*:**Ed Deichler, K2TE****Dave Pyle, KW1DX****Neil Rosenberg, K1VY****Frank Swiech, N1DGQ****Jim Belanger, N1NH**

You too can contribute to the *Bulletin*. All it takes is a few minutes of your time to write an article, snap a photo, or offer a suggestion.

Deadlines are published every month in the Club Calendar at the back of the *Bulletin*. Directions on how to submit an article or photo are on the same page.

**Tip of the Month**

If anyone uses test equipment with RF connectors and needs a quick connect accessory, consider this. Cutting the outside barrel of a Type "N" connector will result in a quick connect fitting for Type N, BNC and TNC connectors. Although the connection will not be captive and could come loose, it is very satisfactory for test equipment connections which are temporary in nature. This wont work for a PL-259 which depends on the barrel for the ground connection.

Jim Belanger, N1NH, NHBelanger@cs.com

**QST de W1AW, et al****ARRL Letter, Vol. 19, # 39, Oct 13, 2000  
FCC set to authorize MURS**

With no fanfare, the FCC is set to authorize a new Citizens Band Radio Service to be called the Multi-Use Radio Service, or MURS. The service, which came about as part of the biennial review of Part 90 of the FCC's rules, will deploy five former Private Land Mobile Radio Service VHF "color dot" channels for voice, data and imaging.

The channels, 151.82, 151.88, 151.94, 154.57 and 154.60--will be authorized for

*QST - continued on page 5*

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## Proposed 2001 Budget

The Board has present the following the proposed 2001 budget for your review. The budget will be voted upon at the December meeting. Several notes regarding the budget. It is running deficit of \$1594.00. The board felt that with the upward trend of the bank balance, the club should invest some additional money in upkeep of club equipment. Even with the deficit, the club bank balance should remain above \$2000.

Category	Totals
<b>INFLOWS</b>	
Ad Income	\$450
ARRL Membership	
Life Member	\$12
Old Member	\$16
New Member	\$20
Auction	\$500
Dues	\$2,735
Fundraising In	\$1,110
Tickets	
Christmas	\$350
Field Day	\$1,200
<b>Total Inflows</b>	<b>\$6,393</b>
<b>OUTFLOWS</b>	
Christmas	(\$750)
Bank Charge	(\$72)
Charity	
Public Library	(\$100)
Soup Kitchen	(\$50)
Discretionary	(\$600)
Educational	(\$300)
Equipment	(\$800)
Field Day Out	
Food	(\$800)
Other	(\$650)
State Charter Fee	(\$75)
Insurance	(\$225)
Newsletter	(\$1,680)
NHARA Plaque	(\$50)
NHARA Dues	(\$15)
Presentations	(\$100)
Office	(\$115)
Post F&R Guarantee	(\$24)
Post Permit 113 Fee	(\$115)
Post PO Box fee	(\$40)
Post Newsletter	(\$600)
Storage Trailer Maintenance	(\$900)
<b>Total Outflows</b>	<b>(\$7,987)</b>
<b>Total Inflows</b>	<b>\$6,393</b>
<b>Balance</b>	<b>(\$1,594)</b>

We have budgeted \$900 dollars for the upkeep of our storage facility. This would be used to repair the trailer (also known as BOB) or to find a suitable replacement.

We have budgeted \$800 for the upkeep and acquisition of club equipment. In particular, we are looking into repairing and or upgrading some of the club antennas and possibly obtaining another gin pole.

*QST - continued from page 4*

up to 2 W on an unlicensed basis under Part 95 of the FCC's rules. The establishment of MURS was buried within a huge Report and Order and Further Notice of Proposed Rule Making released this summer as WT Docket 98-182 and PR Docket 92-235. The FCC said it will "revisit" the issue of allocating additional MURS channels "at a later date should additional support develop." The effective date to deploy MURS is pending completion of the FCC proceeding.

NNNN

### ARRL Letter, Vol. 19, No. 38, Oct 6, 2000 NH gets new Section Manager

### ARRL Letter, Vol. 19, #40, Oct 20, 2000 FCC approves GPS-capable FRS

The FCC has granted, in part, a request from Garmin for a waiver of the Part 95 Family Radio Service rules [Sections 95.193(a) and 95.631(d)] that will let the company make and market for a one-year trial period FRS transceivers capable of transmitting location information derived from the GPS on FRS channels. The FCC says Garmin must include information in the instructions accompanying the units that the capability to transmit GPS-derived location information is provided "for personal and public safety purposes" only and that no other use is authorized. Current FRS rules permit transmission only of F3E voice communications and CTCSS tones. The units must be designed to limit transmission of emission type F2D GPS-derived location information digital data bursts to not longer than one second and not more often than one burst every 10 seconds, to be actuated by the FRS user. The FCC declined to permit Garmin to manufacture units that can automatically poll other FRS units to determine their locations based on GPS-derived location data. The Wireless Telecommunications Bureau adopted the waiver September 28.

NNNN

### ARRL Bulletin 34, July 27, 2000 NCVEC advances revised Morse testing

The National Conference of Volunteer Examiner Coordinators has voted to set up revised standards for the administration of Morse code examinations in the US.

Under the revised standards, examinees

would have to show 25 character-count solid copy on test sheets or successfully answer seven out of ten questions of a fill-in-the-blank quiz on the sent text. The plan would bar multiple choice tests for Morse testing.

Morse examinations would specify use of a Farnsworth "character speed" in the range of 13 to 15 WPM. Morse code audio pitch would have to be between 700 and 1000 Hz. Standard 5 WPM tests with 5 WPM character speed could be administered only as a special accommodation.

The new Morse testing standards are to be in effect by next July 1, but VECs may implement them sooner.

The NCVEC vote came July 21 during a meeting of VECs in Gettysburg.

NNNN

### ARRL Letter, Vol. 19, No. 38, Oct 6, 2000 NH gets new Section Manager

### ARRL Letter, Vol. 19, # 41, Oct 27, 2000, FCC To Monitor eBay For Illegal Items

The FCC has reached an agreement with the eBay auction site that's aimed at curtailing the sale of clearly illegal radio equipment.

FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth says eBay has agreed to cooperate in removing advertisements in which the item for sale "is clearly non-certified" under FCC rules. Hollingsworth said most of the equipment involved falls into the CB category, including illegal amplifiers.

Hollingsworth agreed to publicize the initiative at the urging of the ARRL Regulatory Information Branch's John Hennessee, N1KB. "I've got a whole folder of people who have been complaining about this and will be delighted to know that the FCC is taking action," Hennessee said.

Hollingsworth said a review team within the Technical and Public Safety Division of the FCC Enforcement Bureau is screening eBay ads each week. He said the practice could be extended to other auction sites if the FCC learns of similar problems.

Hollingsworth credits complaints from the Amateur Radio community with getting the new system in place. "I've been collecting complaints for a year, but the amateur community really generated it," he said. Hollingsworth says he sees about 10 complaints a week about auction site radio gear advertisements—sometimes several about the same ad. He cautions that complaints should be based on clear-cut FCC rules violations, such as attempts to sell illegal linear amplifiers.

Amateurs can send items to fccham@fcc.gov, Hollingsworth said.

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*QST - continued on page 5*

*QST - continued from page 4*

**ARRL Letter, Vol. 19, # 42, Nov 3, 2000  
All-Ham Crew Settles In Aboard ISS**

The all-ham crew of US astronaut and ISS Expedition 1 Commander William "Shep" Shepherd, KD5GSL, and Russian cosmonauts Yuri Gidzenko and Sergei Krikalev, U5MIR, now is aboard the International Space Station. After blasting off from Baikonur Cosmodrome in Kazakhstan October 31, the crew arrived at the ISS early Nov 2 aboard a Soyuz vehicle that will remain docked with the station.

"Give us a fast ship," Shepherd—a Navy captain—was quoted as saying before the launch. Shepherd, 51, is only the second US astronaut to go into space aboard a Russian launch vehicle. The Soyuz lifted off from the same launch pad where the space race began 43 years ago last month with the launch of the Sputnik 1 satellite.

Not long after arriving aboard the ISS, Shepherd asked was granted temporary permission to dub the new outpost "Alpha."

In a NASA interview, Shepherd said the ISS will give humans "unique access to the space environment where we hope we can do very interesting and productive research." But he and the other Expedition 1 crew members also say they view the ISS as a stepping stone on the pathway to habitation of space.

"If we don't have this progress with this space station, it means that humans in space are pretty much destined to stay close to the Earth, and I don't think that's what humans are about," Shepherd said.

The Expedition 1 crew's four-month stay in the station will begin the permanent human habitation of space. NASA said the crew's first tasks would be to activate the station's food warmer, set up the sleeping quarters and perform communications checks with flight controllers in the US and Russia.

"This is a huge, huge event," said US Astronaut Frank Culbertson, who directed the joint program to put American astronauts aboard the Russian Mir space station in the 1990s. Culbertson is set to command a space station mission of his own next year. Yuri Semenov, who heads the Russian Energia company that built the Russian ISS modules, called it "a historical, remarkable day."

The crew has a busy schedule that primarily involves getting the ISS up and running for future research activities. Amateur Radio operation is not expected to commence until mid-month, although the crew is said to be enthusiastic about firing up the initial Amateur Radio on the ISS—or ARISS—gear. Once installed temporarily aboard the Zarya module, the equipment will provide FM voice and packet capability on 2 meters.

Tentative operating frequencies are: Worldwide downlink for voice and packet,

145.80 MHz; worldwide packet uplink, 145.99 MHz; Region 1 (Europe) voice uplink: 145.20 MHz; Region 2 and 3 voice uplink, 144.49 MHz. Crew members may use their personal call signs or one of the "club station" call signs issued for ISS use—NAISS, RZ3DZR, or DLOISS.

Expedition 1 is scheduled to leave the station next February, when the three-member Expedition 2 crew arrives on STS-102. When it's completed in 2006, the ISS will be one of the brightest objects in the night sky and be as roomy as a jumbo jet.

For ARISS information, visit the ARISS Web site, <http://ariss.gsfc.nasa.gov/>.

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**ARRL Letter, Vol. 19, #43, Nov 10, 2000  
New North American 145 GHz record**

A new North American claimed record at 145 GHz was set November 6 when Brian Justin, WA1ZMS/4, and Geep Howell, WA4RTS/4, established two-way contact over a path of 34 km. Justin reports that the CW signals were weak but able to be copied. The transmitter power on each end was around 5 mW. ICOM R-7000 receivers were used for IFs. WA1ZMS was on the Blue Ridge Parkway in FM07fm. WA4RTS was in Lynchburg, Virginia, in FM07ji. "No receive margin was to be had on the WA4RTS end, so we reached the limit of what we can do for now with the exception of weather conditions," Justin said.

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**Space Bulletin 019, November 15, 2000  
Phase 3D Launch Slipped By One Day**

The highly anticipated launch of the AMSAT Phase 3D Amateur Radio satellite has been delayed by a last-minute technical glitch. Acting Phase 3D Project Leader Peter Guelzow, DB2OS, reported from the launch site at the European Spaceport in Kourou, French Guiana, that a problem with a microwave link has delayed the launch for 24 hours. The satellite was to go into space early on November 15 UTC.

The troublesome link only affected the telemetry between the PanAmSat PAS 1R commercial payload and the ground facility. It had nothing to do with the operation of Phase 3D. PAS-1R is the primary payload.

Guelzow said the telemetry link problem was promptly repaired, but by then, it was too late to resume the countdown to make the required launch window.

The launch agency Arianespace described the problem as an "anomaly in the ground-based telemetry system" for the PanAmSat PAS-1R satellite, which is installed atop the Ariane 5. Jean-Charles Vincent, the head of Arianespace's Kourou facility, said the problem was pinpointed in the umbilical mast on the Ariane 5 mobile launch table.

"We detected the anomaly this afternoon, and decided on the one-day postponement to provide sufficient time to resolve it," he said Tuesday. The decision to delay happened before main stage fueling.

Also aboard the launch vehicle with P3D and the huge PAS-1R communications satellite are the smaller British STRV-1C and 1D mini-satellites. Vincent said both the launcher and its multisatellite payload are in a safe mode, enabling the countdown to begin again Thursday. The launch window remains the same—opening at 0107 UTC and closing at 0203 UTC (10:07 PM until 11:03 PM Kourou time) on November 16.

In the planning, design and construction phases for the past several years, Phase 3D promises to usher in a new era in Amateur Radio communication. Once in its final orbit high above Earth, Phase 3D—the largest Amateur Radio satellite ever built—will offer capabilities currently unavailable.



## So Long, Farewell

Well, the time has come. I only said I'd be editor of the bulletin on a temporary basis. Granted that was in April 1995, but my tenure is over with this, the last issue of the 20<sup>th</sup> century. I've enjoyed the last five and a half years of issues. I'm looking forward to many more years of reading pleasure under the new editor, Malcom Taylor, G0UCX. And thanks to everyone who contributed, there'd be no bull without you. The secretary, programs, and activities board members over the years have been great in providing much of the material published. And everyone who ran series of articles. One person in particular, I'd like to thank. Ed Deichler, K2TE, has been writing the Contest Corner article for as long as I've been a ham. In the whole time I've been editor he has not missed a single issue! Thank you Ed, I could always count on you.

Thanks also to Jack, WB4MDC, and Maryjane, WA4WIJ, for handling the collating, sorting, and mailing for the past three years. After two and a half years of doing everything I was burnt. They let me keep going another three years as editor.

And as my final act as editor before heading to Disney World, let me just say...

*Hi  
Mom! ☺*

73, de Jim, WW1Y



# THE NASHUA AREA RADIO CLUB BULLETIN

is published by the Nashua Area Radio Club, Inc. just prior to its monthly meeting. It is distributed free to members and friends of Amateur Radio.

### BULLETIN STAFF:

Editor/Publisher: Jim Heedles, WW1Y (603)673-7395  
 Advertising: Marc Slater, KB1DFE (603)673-1674  
 Circulation: Dave Banks, N1SUE (978)433-8104

### MEMBERSHIP INFORMATION:

Annual Dues: Regular Membership \$20.00  
 Family Membership \$30.00  
 Student Membership \$15.00  
 Senior Citizen (Over 65) \$15.00

Club Mail Address: Nashua Area Radio Club  
 PO Box 248  
 Nashua, NH 03061-0248

### ACTIVITIES & COMMITTEES:

Awards/QSL Manager: Dave Pyle, KW1DX  
 Club Data: Jim Heedles, WW1Y  
 EC/ARES: Don Dillaby, KA1GOZ  
 Field Day: Fletcher Seagroves, N1MEO  
 Publicity: Don Dillaby, KA1GOZ  
 Designated Target: Gene GoodByeSki, ex-WA1UXA  
 Station Trustee: John Gaffey, WS1E  
 Club Property: Mark Wagner, N1ZYZ  
 Training: Larry "Spi" Spinak, K1CWZ  
 Volunteer Exams: Jim Heedles, WW1Y  
 Technical Resources: Mike Graham, K7CTW  
 Get-On-The-Air-Program: Open - TBD

### EXECUTIVE BOARD - 2000:

Don Hornbeck, K1EER	Chairman	(603)635-2839
Larry "Spi" Spinak, K1CWZ	Vice Chairman	(603)889-0908
Dave Pyle, KW1DX	Secretary	(603)465-6902
Mark Wagner, N1ZYZ	Treasurer	(603)424-1516
Colleen Gaffey, N1HAJ	Activities	(603)889-7659
Dave Banks, N1SUE	Membership	(978)433-8104
Neil Rosenberg, K1VY	Programs	(603)465-2788

**DEADLINE** for submitting articles or photos for the next issue is the Friday following the current month's Club meeting. Electronic submissions are preferred and should be sent via electronic mail to heedles@ww1y.mv.com. Submission via packet may also be sent to WW1Y@N1FT.NH. Photos for publication may be sent U.S. Mail to Jim Heedles, 6 Birch Drive, Amherst, NH, 03031-1807. On-line images may also be sent electronically in any standard image file format. Please send any Non-Bulletin correspondence to the official club address at: PO Box 248, Nashua, NH 03061-0248.

**ADVERTISING** requests should be directed to Marc Slater, KB1DFE. Matters of advertising must not be raised over the amateur airwaves. Please consult by landline with our Advertising Manager.

### NARC Club Calendar 2000

December 2, 9 AM	Nashua Exam Session
December 2	Christmas Party
December 4, 7 PM	Club Meeting
December 8	Deadline - January Bulletin
December 18, 7 PM	Board Meeting

### NARC Club Calendar 2001

January 8, 7 PM	Club Meeting
January 12	Deadline - February Bulletin
January 29, 7 PM	Board Meeting
February 5, 7 PM	Club Meeting
February 9	Deadline - March Bulletin
<b>February 24, 9 AM</b>	<b>Nashua Exam Session</b>
February 26, 7 PM	Board Meeting
March 5, 7 PM	Club Meeting
March 9	Deadline - April Bulletin
March 26, 7 PM	Board Meeting
April 2, 7 PM	Club Meeting
April 6	Deadline - May Bulletin
April 30, 7 PM	Board Meeting
May 7, 7 PM	Club Meeting
May 11	Deadline - June Bulletin
May 28, 7 PM	Board Meeting
June 4, 7 PM	Club Meeting
June 8	Deadline - July Bulletin
<b>June 22,23,24</b>	<b>Field Day 2001 !</b>
June 25, 7 PM	Board Meeting

### Weekly Events

Tuesdays 8:00 PM	ARES Net 147.045+/224.28-
Tuesdays 8:15 PM	ARES Net 443.35+ PL 110.8
Tuesdays 8:30 PM	ARES Net 146.73- PL 88.5
Thursdays 6:30 PM	Pizza Night! Location varies.

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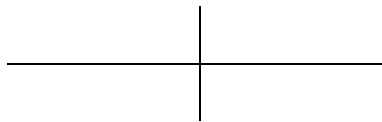
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# Nashua Area Radio Club Official Membership Application

New Applicant \_\_\_\_\_ Renewal \_\_\_\_\_ Address Change \_\_\_\_\_  
 Type of membership: Regular - \$20/yr. \_\_\_\_\_ Student - \$15/yr. \_\_\_\_\_ Senior (Over 65) - \$15/yr. \_\_\_\_\_ Family - \$30/yr. \_\_\_\_\_  
 Name \_\_\_\_\_ Callsign \_\_\_\_\_ Class \_\_\_\_\_  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Home Phone \_\_\_\_\_ Work Phone \_\_\_\_\_ ARRL Member (If yes, provide Expiration date) \_\_\_\_\_  
 Email address \_\_\_\_\_ Packet address \_\_\_\_\_  
 Club Badge? *(If yes, enclose \$3.50)* \_\_\_\_\_ Name as it should appear on the badge \_\_\_\_\_  
 Family members: Name/Callsign \_\_\_\_\_ Class \_\_\_\_\_  
                           Email address \_\_\_\_\_ Phone \_\_\_\_\_  
                           Name/Callsign \_\_\_\_\_ Class \_\_\_\_\_  
                           Email address \_\_\_\_\_ Phone \_\_\_\_\_  
                           Name/Callsign \_\_\_\_\_ Class \_\_\_\_\_  
                           Email address \_\_\_\_\_ Phone \_\_\_\_\_  
 Make checks payable to: The Nashua Area Radio Club      Mail check and application to: The Nashua Area Radio Club, PO Box 248, Nashua, NH 03061  
 In signing this application, I hereby apply for membership in the Nashua Area Radio Club, and agree to abide by its constitution and by-laws.  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

*Tour the World with Amateur Radio  
Next Meeting December 4th at 7 pm*



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