



# ZERO BEAT

Southeastern Massachusetts  
Amateur Radio Association, Inc.  
54 Donald Street  
South Dartmouth, MA 02748



Since 1932

Volume 46 Issue 1

SEMARA-W1AEC

January 2010

## Election Results - 2010

The secretary cast a single ballot for the slate. The following members were elected to their offices by acclamation:

President: **Louis (W1CH)**  
 Vice President: **Bob (K1KVV)**  
 Secretary: **Marcel (W1MLD)**  
 Treasurer: **Mike (KB1NB)**  
 Director: **John (WA1LSH)**  
                   **Joe K (N1IXC)**  
                   **Brad (W1BEP)**  
 Trustee (2014): **Louis (W1CH)**



TRUSTEE 2014  
LOUIE-W1CH



**OFFICERS FOR 2010**  
BOB-K1KVV MIKE-KB1NB LOUIE-W1CH MARCEL-W1MLD  
V-PRES TREASURER PRESIDENT SECRETARY



**DIRECTORS FOR 2010**  
JOHN-WA1LSH BRAD-W1BEP JOE K-N1IXC

### Straight Key Night

Did you participate in SKN? I know **Whitey (K1VV)** did! Just take a look at his collection of keys:

<http://www.qrz.com/db/K1VV/1262178636>.

This is a picture of the J-38 key he is talking about.



What say, did any of you do any brass pounding for New Years?



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## ZERO BEAT

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### 2010 SEMARA OFFICERS

#### President

Louis Mester—W1CH

#### Vice President

Bob Kelley—K1KVV

#### Secretary

Marcel Dumont—W1MLD

#### Treasurer

Mike McDonald—KB1NB

#### Directors:

Joe Krisnowsky—N1IXC

Brad Paiva—W1BEP

John Walsh—WA1LSH

#### Trustees: (year term is up)

Charlie Days—WA1JFD (2010) chair

Tim Smith—N1TI (2011)

Henry Blanchett—W1GYL (2012)

John Walsh—WA1LSH (2013)

Louis Mester—W1CH (2014)

### STANDING COMMITTEES

#### Building and Grounds

Dave Dean—K1JGV

Marty Jordan—KA1YFV

#### Scholarship

Sonny Eddleston—K1USW – chair

Chuck Moszczenski—KB1FRL

Alan Dulong—WB1FQP

Joe Krisnowsky—N1IXC

#### Technical/Repeater/Website

Dave Goldstein—W1DJG: Tech

Rick Cabral—W1RJC: Repeater

Ben Jackson—N1WBV: Web

### SPECIAL COMMITTEES

#### Activities

Scott Szala—W1EV

ARES/SKYWARN

Rob Macedo—KD1CY

QSL Manager

vacant

#### Radio Events

Bob Kelley—K1KVV

#### Tech Talk

Eric Pierce—N1WCO

## It seems to me ...

de Bob - K1KVV <[editor@semara.org](mailto:editor@semara.org)>



**H**ams pride themselves on knowing how to use a radio for making contacts. But do they think about who their transmissions reach?

For example, when they are net control do they use their callsign often enough? When you hear, “Anyone else wishing to join the net, please call net control now,” does everyone know who the net control station is? Haven’t you heard nets go on and on without the net control station identifying by callsign? *Use your full callsign often when you are net control.*

Do they acknowledge stations that check in? If more than one station checks, they all need to be acknowledged before talking to each one in turn. If they are not acknowledged, some of those operators may give up and move on. *Acknowledge all check-ins before talking to each of them in turn.*

Have you heard less experienced net control operators who lose track of the stations who check in, who allow stations to talk among themselves instead of getting net control’s permission, who do not enforce the use of complete callsigns, who all operators who don’t know how to operate their gear to tie up the net frequency instead of sending them off frequency, and so on? *If you are net control, then control the net.*

When the net control station does not take control when faced with too many check-ins, they can easily become overwhelmed and easily miss stations that are checking-in. There are many ways to make the flow of stations checking in easier to manage than just letting it happen and avoid the need for repeat calls, and the like. *Did someone say “practice drills?”*

Just like table manners, these techniques don’t necessarily come naturally—they have to be taught, or observed, for them to become “natural.”

Use some of the SEMARA nets to practice these skills and become smooth net control station operators.

“It seems to me ... that we need to think about how we do things.”

\* Thanks to the folks at the *HandiHam Weekly Newsletter* for talking about this topics awhile back. This reminder seems to fit the theme of starting the New Year off on the right foot.

### POINT TO PONDER

“When those who fish can’t go to sea, they mend nets.”

—*Book of Runes (adapted)*

### HAMMIN’ AROUND

**Question\* E2B08 (D)** Which of the following is a common method of transmitting accompanying audio with amateur fast-scan television?

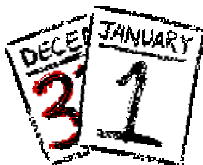
- A. Frequency-modulated sub-carrier
- B. A separate VHF or UHF audio link
- C. Frequency modulation of the video carrier
- D. All of these choices are correct

\* 2008 Element 4 Extra Class Question Pool (good thru 2012-06-30)

Answer on page 8

# Club Notes

January is always associated with a celebration to welcome the new year. This was to greet the lengthening days—the victory of light over darkness in some cultures. It is a time to make ‘resolutions’ or promises to ourselves about things that we wish to do in the new year. What is it that you would like to promise yourself for this year?



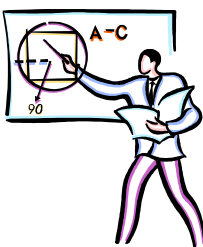
Kid’s Day is held on the first Sunday of the year. Will you take this opportunity to introduce the world of amateur radio to a youngster?



The December VE Exam Session had ‘no activity.’ Perhaps we need to be more pro-active in helping folks prepare for the exams. A mind is a terrible thing to waste. How about yours?



Are you interested in expanding your abilities in amateur radio? I have found that I frequently learn more than the listeners when I give a talk on a technical subject. Do you know anything about amateur radio that someone would find exciting if they knew it too? Then why not share your joy of discovery and learning. We are all on the same side—we are all searching for a better understanding of how to do things better, and easier.



Perhaps you have read some really good books and would like to have a chance to talk about it—just to clarify your own grasp of the material. Can you solve problems such as sequencing events like switching power between a transceiver and power amplifier when operating fast break-in CW?





**NEXT SEMARA VE SESSION**  
**February 6, 2009**  
**Clubhouse @ 10:30 AM**  
 Contact: Larry Houbre-AA1FS  
[LRHGuy@earthlink.net](mailto:LRHGuy@earthlink.net)  
 508-991-6055

## LOCAL NETS

Everyone is welcome to check in!

**147.000+** (PL 67.0 Hz) (FM) — “*Camel*” Net **Roundtable** is held almost *every evening* at 7 p.m. on the SEMARA Repeater, **WIAEC**. **Bob, N1VUG** (Fairhaven) usually opens the net.

**50.200 MHz (USB)** — Net is held *Wednesdays* at 8:30 p.m. **Bob, N1HCW** (Acushnet) is net control.

**28.490 MHz (USB)** — Net is held *Tuesdays* at 8:30 p.m. **Bob, N1HCW** (Acushnet) is net control.

**3862 kHz (LSB)** — **SEMARA Morning Net** is held *weekdays* from 7:30-8 a.m. ET.

**Club Numbers**  
 GPS Coordinates:  
**Lat. N 41° 36.795’ Long. W 070° 56.550’**  
 Maidenhead Grid Coordinates: **FN41mo**  
 For FISTS Sprints: **FISTS #10555**

## Sudoku

Here’s a curiously, symmetric Sudoku puzzle to ponder while waiting on net. (See **page 8** for the solution.)

	2		4	8				9
4				9	1	3		2
								1
	1		9			2		4
		8		6		9		
2		9			4		8	
5								
8		1	3	2				7
3				4	7		5	

# Official Meeting Minutes



**December 3, 2009**

The meeting was called to order by Vice-President **Bob (K1KVV)** at 7:08 PM with the salute to the flag. There was a roll-call with 25 members present.

## SECRETARY'S REPORT

A motion was made and seconded to accept the report as posted on the bulletin board and in the **ZERO BEAT**. The members voted unanimously.

## TREASURER'S REPORT

**Mike (KB1NB)** reported that we now have a balance of \$13,704.88 including all accounts.

The court has not yet rendered a decision on the hazardous material spill case.

A motion was made and seconded to refer the report to audit. Voted unanimously.

*At this point the President **Louie (W1CH)** arrived and took over the meeting.*

## STANDING COMMITTEE'S

### Buildings and Grounds

**Dave (K1JGV)** Three projects are done, rear light, rake boards and covering up of the duct work hole in the foundation. In the spring we should paint the trim on the building.

### Scholarship Committee

**Sonny (K1USW)**, the Chairman, reported that the committee has made a number of changes. These will be in **ZERO BEAT** soon. The changes will be noted on the website, too.

### Technical Committee

**Dave (W1DJG)** reported that **Rick (W1RJC)** has been working on the repeater and is doing a great job. The 900 MHz boards are in for the IRLP and should be active soon. Christmas greetings are being recorded by **Rick (W1RJC)** for the repeater.

**Ben (N1WBV)** is working on the website and we are now on *facebook*.

**Rick (W1RJC)** reported that the *Comcast* modem has been changed. We will now be able to tie in the camera's and IRLP for the 900 MHz repeater.

**Dave (W1DJG)** requested that the members not touch the computer connections that are already in place. The members of the Tech Committee will be happy to assist you in setting up a computer for people to program their radio's. This will prevent problems with the programs not working on the computer attached to the radio.

## ARES

**Ed (KA1RSY)** reported that *SKYWARN* recognition day is on next Saturday from 7 PM Friday to 7 PM Saturday on the Fairhaven repeater.

*ARES* is linked with MMRA and on Monday evening they will test using the 147.000 repeater. This is a big deal. They are switching from the Taunton Repeater to Dartmouth (W1AEC).

## Radio Events

**Bob (K1KVV)** reported that there are two events coming up that are non-contest type. One is the *Lighthouse Christmas Light's QSO Party* and the other is *Straight Key Night*. These are both described in the **ZERO BEAT**.

The first Sunday in January is *KID'S DAY*. Bring the kids in and have some fun with talking on the radio.

## OLD BUSINESS

**Bob (K1KVV)** announced the name of another member resigning. **Randall Faber-W1RTF** resigned on October 9, 2009. Motion was made and seconded to accept the resignation, voted unanimously.

**Marcel (W1MLD)** talked about the Town of Dartmouth communication project that he is involved with and that he had a meeting with the Director of Public Health in this regard. The Town is preparing protocol for mass public health inoculations and the need for communications during those events. The club members will be involved when the time comes.

**Ben (N1WBV)** noted that **Tim (N1TI)**, not present, had paid for equipment. The bill was \$188.00 and requested that it be paid. A motion was made and seconded to pay, voted unanimously.

## Good of the Club

Need to do work on the Log Periodic antenna and we need a committee to coordinate.

**Ben (N1WBV)** reported that in a ARRL contest in June the club obtained 168 points.

**Bob (K1KVV)** reminded everyone to look for *Tech Talks* on 3<sup>rd</sup> Thursday of month.

## ELECTION OF OFFICERS

Due to the fact that there is no opposition for the slate of officers. A motion was made and seconded to elect the slate as listed.

*(Continued on page 6)*



# SEMARA News

## Building & Grounds Report for December

**W**ith the year running out, there have been a few fixes that were done by a small group of concerned individuals. In order, they were:

1. Covering the hole where the old heating ductwork used to enter the building.
2. Installation of a light outside to show the way.
3. Installation of the north rake boards.

A remaining fix (to be done soon) is the 'scarifying' of the grounds with a box scraper to smooth out and texture the parking and drivable areas, which will also eliminate the puddles. This procedure will be done two or three times each year. Those who may do the snow plowing have been cautioned to keep the blade up enough to prevent gouging of the surface. Minimal damage is normal on a non-asphalt surface, which is why this procedure is required.

In the spring, we will take another look at addressing the needs of the handicapped who wish to access the club.

Best in ham radio and Happy Holidays to all,

*Dave-K1JGV, Building & Grounds*

## SEMARA Scholarship Information

The Scholarship Committee, chaired by **Sonny-K1USW** and assisted by **Chuck-KB1FRL**, **Alan-WB1FQP**, and **Joe K-N1IXC**, prepared a proposal to be presented to the membership at the January 7, 2010 Business Meeting. The information packet consists of three documents:

*Proposal* (4 pages),

*Instructions* (1 page) and

*Application Form* (1 page).

Drafts can be found on the SEMARA website at [http://semara.org/zerobeat/scholarship\\_info/proposal.doc](http://semara.org/zerobeat/scholarship_info/proposal.doc), [http://semara.org/zerobeat/scholarship\\_info/instruction.doc](http://semara.org/zerobeat/scholarship_info/instruction.doc), and [http://semara.org/zerobeat/scholarship\\_info/application\\_form.doc](http://semara.org/zerobeat/scholarship_info/application_form.doc).

Note, the 'blanks' above are actually underscore symbols typed as:

.../scholarship\_info/application\_form.doc



**1. OLD HEATING DUCT HOLE COVER  
BY RICH-W2RG**



**2. OUTSIDE LIGHT INSTALLATION  
BY MARCEL-W1MLD,  
DICK-K1AHA + DAVE-K1JGV ASSISTING**



**3. NEW RAKE BOARDS  
BY RAY-KB1EVX + DAVE-K1JGV**

# More SEMARA News

## Edmund J Rovas, WA1VXY (SK)

Edmund J. Rovas, of North Dartmouth, a long-time member of SEMARA, died on Thursday, Dec. 31, 2009, at age 85. He was the husband of Helen M. (Bonalewicz) Rovas.



WA1VXY



*Our heartfelt sympathy goes to his family for their loss.*

ED AND HELEN ROVAS  
PHOTO BY ARMUND-W1BUG

(Business Meeting Minutes continued from page 4)

- President: **Louis (W1CH)**  
 Vice President: **Bob (K1KVV)**  
 Secretary: **Marcel (W1MLD)**  
 Treasurer: **Mike (KB1NB)**  
 Director: **John (WA1LSH)**  
                   **Joe K (N1IXC)**  
                   **Brad (W1BEP)**  
 Trustee (5-yr term): **Louis (W1CH)**

### Adjournment

Motion was made and seconded to adjourn the meeting at 7:50 PM. Voted unanimously.

Respectfully submitted,  
**Marcel Dumont, (W1MLD)**



## 50/50 Raffle Results

\$29.00 was collected. **Dave (W1DJG)** won \$14.50.



## Clubs Make a Difference!

**W**hen it comes to reaching radio amateurs there is no stronger link than to the hundreds of Amateur Radio clubs across the country.

The application period for ARRL Foundation Scholarships is open until February 1, 2010. Club newsletters and email bulletins to club members are an effective and important tool to remind young hams that there are more than 50 scholarships to be awarded in the spring of 2010.

This is a reminder to our club membership that the application period for the 2010 scholarship awards closes promptly on February 1, 2010.

All the information about ARRL Foundation Scholarships, including application instructions and forms, can be found at [www.arrl.org/arrlf](http://www.arrl.org/arrlf).

Candidates should review the descriptions of all the scholarships. Only apply for those for which they qualify.

\* From ARRL Club Newsletter, Dec. 18, 2009

## Dayton Hamvention 2010

**H**amvention organizers have announced that the theme for the Dayton Hamvention 2010 will be "Amateur Radio Clubs Worldwide: The Lifeline."

The event will take place **May 14 -16, 2010** at the HARA Complex in Dayton, Ohio.

< <http://www.hamvention.org/index.php> >

If you have never been to "Dayton" it is worth the effort to visit the grand-daddy of all hamfests.

Many clubs coordinate travel and lodging for Hamvention so that members travel together and enjoy the event with familiar friends. If your club is considering an organized caravan or other group trip to the event now is the time to make your reservations and start planning your trip. Hotel rooms disappear quickly for this well attended extravaganza.

ARRL Expo will be exhibited in the Ballarena hall.

\* From ARRL Club Newsletter, Dec. 18, 2009

## VE SESSIONS

Walk-ins permitted unless otherwise noted.

<http://www.arrl.org/arrlvec/examsearch.phtml>

<b>SEMARA</b> – 10:30AM	<b>Feb 6</b>
Larry Houbre-AA1FS <a href="mailto:LRHguy@earthlink.net">LRHguy@earthlink.net</a> 508-991-6055	
<b>Braintree, MA</b> – 9:00AM	<b>Jan 9th</b>
William Needham-K1WN <a href="mailto:K1WN@aol.com">K1WN@aol.com</a> 781-845-4400	
<b>Canton MA</b> – 7:30PM	<b>Jan 21st</b>
Louis Harris-N1UEC <a href="mailto:N1UEC@n1uec.org">N1UEC@n1uec.org</a> 508-333-5714	
<b>Cranston, RI</b> – 9:00AM	—
Kenneth Carr-KB1AWV <a href="mailto:KB1AWV@yahoo.com">KB1AWV@yahoo.com</a> 401-828-1665	
<b>Falmouth, MA</b> – 9:00AM	—
W. Ben Fleck-K2LYE <a href="mailto:BenFleck@cape.com">BenFleck@cape.com</a> 508-540-2583	
<b>Fall River, MA</b> – 7:00PM	<b>18th</b>
Skip Denauly-KB1CNB <a href="mailto:skip@newtestamentschool.org">skip@newtestamentschool.org</a> 774-644-3469	
<b>Middletown, RI</b> – 9:00AM	—
Jack Garforth-K1IG <a href="mailto:K1IG@verizon.net">K1IG@verizon.net</a> 401-683-2250	
<b>Providence, RI</b> – 7:00PM	—
Louis Mester-W1CH <a href="mailto:W1CH@arrl.net">W1CH@arrl.net</a> 401-263-6045	
<b>Slatersville, RI</b> – 9:00AM	<b>Jan 30th</b>
Robert E. Jones-WB1P <a href="mailto:WB1P@arrl.net">WB1P@arrl.net</a> 401-333-4787	

## Coming FLEAS & FESTS

<http://www.arrl.org/hamfests.html>

None in January!



## Some Contests

<http://www.arrl.org/contests/>

- 1.8 EUCW 160 Meter Contest CW [www.uft.net](http://www.uft.net) Jan 2, 2000Z - Jan 4, 0700Z
- 3.5-28 Kid's Day Phone [www.arrl.org/FandES/ead/kd-rules.html](http://www.arrl.org/FandES/ead/kd-rules.html) Jan 3, 1800Z - Jan 3, 2400Z
- 3.5-28 ARS Spartan Sprint CW [www.arsgrp.blogspot.com](http://www.arsgrp.blogspot.com) Jan 5, 0200Z - Jan 5, 0400Z
- 3.5-28 Midwinter Contest Phone-CW [trafficbu-reau.veron.nl](http://trafficbu-reau.veron.nl) Jan 9, 1400Z - Jan 10 1800Z
- 3.5-28 PSKFest PSK31 [www.podxs070.com/](http://www.podxs070.com/) Jan 9, 0000Z - Jan 9, 2400Z
- 1.8-28 North American QSO Party CW [www.ncjweb.com/nagprules.php](http://www.ncjweb.com/nagprules.php) Jan 9, 1800Z - Jan 10, 0600Z
- 1.8-28 North American QSO Party Phone [www.ncjweb.com/nagprules.php](http://www.ncjweb.com/nagprules.php) Jan 16, 1800Z - Jan 17, 0600Z
- 1.8-28 YLISSB QSO Party Phone [www.vlsystem.org](http://www.vlsystem.org) Jan 23, 0000Z - Jan 24, 2359Z
- 50+ ARRL January VHF Sweepstake Phone-CW [www.arrl.org/contests](http://www.arrl.org/contests) Jan 23, 1900Z - Jan 25, 0400Z
- 1.8 CQ WW 160 Meter Contest CW [www.cq160.com](http://www.cq160.com) Jan 29, 2200Z - Jan 31, 2200Z
- 3.5-28 REF French Contest CW [www.ref-union.org/concours](http://www.ref-union.org/concours) Jan 30, 0600Z - Jan 31, 1800Z
- 3.5-28 UBA Contest Phone [www.uba.be/en/hf](http://www.uba.be/en/hf) Jan 30, 1300Z - Jan 31, 1300Z

### ALL-OF-THE-TIME ACTIVITIES

#### AT THE CLUBHOUSE BUSINESS MEETING

7 PM First Thursday of the month

#### SUNDAY RAGCHEW

7-11 AM SUN

### MOST-OF-THE-TIME ACTIVITIES

\* EARLY BIRD BREAKFAST: 6 AM TU & TH

*West End Grill*

1000 Rockdale Avenue, New Bedford

\* CLUB COFFEE MEET: 1 PM WEEKDAYS

*Boston Coffee & Bagel*

122 Allen Street (corner of Dartmouth Street)

New Bedford

LUNCHEON: 11:30 AM FRIDAYS

**Meet at the clubhouse at 11:15 AM**

Each week we decide which local restaurant is to have the honor of our presence.

\* Call first on repeater to see who's coming



## LOCAL REPEATER DIRECTORY

See <http://www.semara.org/repeaters.htm>

### Frequency CTCSS Call/IRLP/E-link Location —— 144 (within 35 miles of SEMARA) ——

Check <http://www.nerepeaters.com/2m.htm>

145.110 -	67.0	NB1MA/4245/4254	New Bedford
145.130 -	151.4	WF1A	W Greenwich, RI
145.150 -	123.0	WA1DGW	Fall River
145.170 -	67.0	KA1RCI	Lincoln, RI
145.190 -	67.0	KA1RCI	Johnston, RI
145.210 -	192.8	N1JL	Coventry, RI
145.280 -		†WG1U	Taunton
145.330 -	94.8	†K1CW	Bristol, RI
145.350 -	100.0	N1BS	W Warwick, RI
145.370 -	67.0	N1JBC	Coventry, RI
145.420 -		†K1RFI	Fall River
145.450 -	100.0	W1SYE	Portsmouth, RI
145.490 -	67.01	W1SMA/4617/4611	Fairhaven
146.625 -	141.3	K1RSR	E Providence, RI
146.655 -	88.5	K1RK	Falmouth
146.685 -	82.5	N1ZIZ	Plymouth
146.700 -		K1CR	Cranston, RI
146.730 -	67.0	W1SGL	E Sandwich
146.775		W1WNS	W Bridgewater
146.805 -	67.0	NN1D	Fall River
146.835 -	192.8	WA1QCA	Johnston, RI
146.880 -	100.0	WC1R	Newport, RI
146.940 -	67.0	K1KYI	Cumberland, RI
146.985 -	67.0	KA1RCI	Exeter, RI
<b>147.000+</b>	<b>67.0</b>	<b>W1AEC/4347/44347</b>	<b>Dartmouth</b>
147.015+	77.0	N1MIX	N Providence, RI
147.045+	141.3	W1HDN	W Warwick, RI
147.075+	67.0	KA1RCI	Portsmouth, RI
147.105+	103.5	W1PHR	Cranston, RI
147.120+	173.8	K1WEW	Portsmouth, RI
147.135+	67.0	KA1GG	Taunton
147.165 +	67.0	N1VDJ	Exeter, RI
147.180+	67.0	W1MV/4388/64231	Bridgewater
147.195+	127.3	K1SMH	Attleboro
147.225 +	67.0	WA1NPO/—/423517	Whitman
147.315+	67.0	WG1U/—/363590	Plymouth
147.330+	131.82	W1AQ/4907/147330	Providence, RI
147.345+	88.5	KB1QL/—/3755	W Tisbury
147.375+	110.9	N1YHS	Falmouth

### —— 222 (within 35 miles of SEMARA) ——

Check <http://www.nerepeaters.com/222.htm>

223.760 -		K1KYI	Scituate, RI
223.780 -	88.5	N1PYN	Brockton
223.820 -	67.0	N1JBC	Newport, RI
223.900 -		KA1ABI	Coventry, RI
223.920 -		KA1LMX	Warwick, RI
223.960 -	127.3	KA1RCI	Johnston, RI
223.980 -		W1OP	Johnston, RI
224.040 -	67.0	KA1RCI	Lincoln, RI
224.060 -	103.5	N1ZZN	Norwell
224.200 -	100.0	KA1MYV	Lincoln, RI
224.300	100.0	K1WYC	W. Warwick, RI
224.560 -	100.0	KA1NXS	Richmond, RI
224.620 -	88.5	N1LEO	Attleboro
224.760 -		KA1SOO	W Warwick, RI

Frequency	CTCSS	Call/IRLP/E-link	Location
224.860 -	67.0	N1JL	Coventry, RI
224.920 -	67.0	N1JBC	N Providence, RI

### —— 440 (within 25 miles of SEMARA) ——

Check <http://www.nerepeaters.com/440.htm>

441.750+	192.8	W1AQ <sup>2</sup>	E Providence, RI
442.350	103.5	WG1U	Portsmouth, RI
442.550+	67.0	WG1U	Assonet
443.150+	94.8	K1CW	Bristol, RI
444.350+	88.5	W1ACT <sup>2</sup>	Fall River
444.550	88.5	W1MV	Bridgewater
446.375 -	67.0	KA1RCI	Little Compton, RI
447.525 -	88.5	WA1TAQ	Portsmouth, RI
448.325 -	186.2	KC2GDF	Newport, RI
449.275	D244	W1WNS	W Bridgewater
449.525 -		NN1D	Fall River

### —— 902 (within 35 miles of SEMARA) ——

Check <http://www.nerepeaters.com/902.htm>

921.2000 (-12 MHz)		KA1RCI	Providence, RI
921.3000 (-12 MHz)		K1KYI	Lincoln, RI
921.7000 (-12 MHz)		W1OP	Johnston, RI
921.9000 (-12 MHz)		WA1TAQ	Providence, RI
927.0375	D031	†NN1D/4004	Fall River
927.4125	67.0	N1OTY	Plymouth
927.4250	131.8	W1WCF	Bridgewater
927.4625	103.5	WG1U	Assonet
927.5750	D051	N1UMJ	Rehoboth
927.6125	131.8	KA1RCI <sup>3</sup>	Lincoln, RI
927.6250	131.8	W1EHT <sup>3</sup>	Pembroke
927.6500	D031	W1SMA	Dartmouth
927.6750	D244	N3LEE	Cumberland, RI
927.6875	131.8	KA1DTA	Taunton
927.7125	131.8	KB1HTO <sup>3</sup>	Norton
927.7625	67.0	KA1EZH	N Providence, RI
927.7759	D244	K1RJZ/4977 <sup>1</sup>	Boston
927.7875	127.3	N1SEC	N Attleboro
927.8250	131.8	N1JFU/4335 <sup>1,3</sup>	Hingham
<b>927.8375</b>	<b>D031</b>	<b>†W1AEC/4347/44347</b>	<b>Dartmouth</b>

<sup>1</sup> NEAR-900 Net <sup>2</sup> OFF the air <sup>3</sup>Transmits 100.0 Hz tone †TRIAL

**Answer: HAMMIN' AROUND**

*Which of the following is a common method of transmitting accompanying audio with amateur fast-scan television? D. All of these choices are correct. The NTSC standard uses (A), FM modulated sub-carrier.*

### Answer: Sudoku <sup>124</sup>

8	5	1	7	4	9	2	6	3
7	6	4	5	2	3	1	9	8
3	2	9	6	1	8	4	7	5
6	8	7	4	5	1	9	3	2
5	1	6	3	9	2	8	4	7
4	3	2	8	7	6	5	1	9
1	4	8	2	3	7	9	5	6
2	6	3	1	9	5	7	8	4
9	7	5	6	8	4	3	2	1