



# ZERO BEAT

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



Since 1932

Volume 45 Issue 10

SEMARA-W1AEC

October 2009

## SEMARA Tailgate 2009



IT WAS A CLOUDY MORNING, BUT TURNOUT WAS GOOD.



DAVE-W1DLG IN CHARGE OF INSIDE SALES.



SONNY-K1USW AND ALAN-WB1FQP HARD AT WORK.



DAVE-K1JGV, PARKING CHIEF,  
RECORDING THE ACTIVITY.

This Tailgate Party was the first one since we had had to cancel the 2007 one because of the oil spill remediation work going on. This year we were able to do hold the tailgate since the regrading was started. This was made possible because funds were collected from an every-member assessment.

Although the pictures don't tell the whole story, they do give an idea of how the club worked together to make this Tailgate Party a success.

Inside sales raised \$80, the 50-50 raffle \$35 and

*(Continued on page 5)*

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## ZERO BEAT

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### 2009 SEMARA OFFICERS

*President*  
 Louis Mester - W1CH  
*Vice President*  
 Bob Kelley - K1KVV  
*Secretary*  
 Marcel Dumont - W1MLD  
*Treasurer*  
 Mike McDonald - KB1NB

#### Directors:

Dave Dean - K1JGV  
 Dave Goldstein - W1DJG  
 Dick Halliwell - K1AHA

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

Mike Miller - N1ITQ (2009)-Chair  
 Charlie Days - WA1JFD (2010)  
 Tim Smith - N1TI (2011)  
 Henry Blanchett - W1GYL (2012)  
 John Walsh, WA1LSH (2013)

### STANDING COMMITTEES

*Building and Grounds*  
 Dave Dean - K1JGV  
 Marty Jordan - KA1YFV  
*Scholarship*  
 Sonny Eddleston - K1USW  
*Technical*  
 Dave Goldstein - W1DJG

### SPECIAL COMMITTEES

*Activities*  
 Scott Szala - W1EV  
 ARES/SKYWARN  
 Rob Macedo - KD1CY  
*QSL Manager*  
 vacant  
*Radio Events*  
 Bob Kelley - K1KVV  
*Repeater*  
 Rick Cabral- W1RJC,  
 Dave Goldstein - W1DJG  
*Website*  
 Tim Smith - N1TI

## It seems to me ...

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



The recent Tailgate Party stands as a beacon to how well the members of the club can pull together to accomplish something — once they put their minds to it. Special thanks goes to **Dave-W1DJG** who took over the general leadership when **Tim-N1TI** had to step aside for personal reasons. As usual, *Building and Grounds* co-chairs **Dave-K1JGV** and **Marty-KA1YFV** helped prepare the grounds. Other got roped into do things too — I got to meet lots of other hams while I did my assigned task of selling 50-50 raffle tickets. It was an easy way for me to contribute to the success of the overall effort. [Surprisingly, the raffle was won by our favorite photographer, **Armand-W1BUG** — just don't tell his wife.] It was a grand morning and did wonders to get the club back into the business of being a ham radio club.

October is a great contest month. There are so many things going on that I decided to just list the "Sprints." [You can see the rest by clicking on October at <http://www.arrl.org/contests/>.] Sprints are an easy way to be able to participate without setting aside an impossible amount of time. Most sprints are only two hours long. Others are four hours, with a rare few six hours in length. As I've mentioned in the past. Contests are a fine way to check out your rig — there are lots of eager listeners out there. Just don't believe all that 59 stuff. If you plot you contacts on a map, you can get an idea of the actual vs. theoretical antenna pattern, By looking at the distance to the other station, you can get an idea of the effective propagation bounce zones for that time of day, sun angle, and so forth. See, contests can be used for more than an excuse to hibernate or get away from family chores!

Our next project for making the clubhouse accessible is the install a ramp — not that we are all in need of one, it's just that some of us would appreciate not having to climb the stairs. But, of course, the ramp is just the tip of the iceberg. We will have to address the issue of making the door work for someone in a wheelchair. And while we are at it, the bathroom will have to be redone to allow wheelchair bound visitors and members

## POINT TO PONDER

“The workshop of character is everyday life.”

~Anonymous

## HAMMIN' AROUND

**Question\* E5C03** In polar coordinates, what is the impedance of a network consisting of a 300-ohm-reactance capacitor, a 600-ohm-reactance inductor, and a 400-ohm resistor, all connected in series?

- A. 500 ohms at an angle of 37 degrees
- B. 900 ohms at an angle of 53 degrees
- C. 400 ohms at an angle of 0 degrees
- D. 1300 ohms at an angle of 180 degrees

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

Answer on page 8

# Club Notes

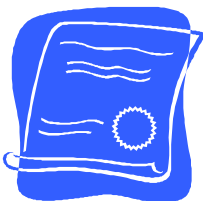
October seems to be a great contest month. Is your station ready for the coming cooler weather? Are all your connectors watertight? Can your wires and cables stand up to ice and snow? If not don't blame the Halloween goblins [or my cousin Murphy].



That's another reason to get on the air this month and shake things up. [Or is it down?] In any case, this is the last month for daylight time. Come November we lose an hour of daylight and some of the warming sun too. It is always easier to work on your gear without heavy gloves on. And the wind seems much colder when the sun angle gets lower, doesn't it?



If and when you have all your chores caught up, then let me know. Then we can schedule some 'interactive' review sessions to help you upgrade your license. Wouldn't it be a kick if every member held the Extra class license!



Of course if you do have your Extra, that doesn't mean you're done. No sir! Did you know that in the UK they have a special program to teach Morse code. It seems that some folks want access to all the bands. And you might recall that I had previously pointed out that using 1 watt on CW equals 25 watts or more on SSB, based just on bandwidth considerations. Another reason for using CW.



## CLUB NUMBERS

GPS Coordinates:

Lat. N 41° 36.795' Long. W 070° 56.550'

Maidenhead Grid Coordinates: **FN41mo**

For FISTS Sprints: **FISTS #10555**

## SEMARA 900 MHZ REPEATER

927.8375 MHz (repeater output)

902.8375 MHz (repeater input)

Tone D031

## LOCAL NETS

Everyone is welcome to check in!

**147.000+** (PL 67.0 Hz) (FM) — "Camel" Net Roundtable is held *every evening* at 7 p.m. on the SEMARA Repeater, **W1AEC**.

**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

## NEXT SEMARA VE SESSION

October 3, 2009

Clubhouse @ 10:30 AM

Contact: Larry Houbre-AA1FS

[LRHguy@earthlink.net](mailto:LRHguy@earthlink.net)

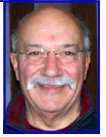
508-991-6055



## SUDOKU

Here's a Sudoku puzzle to attack while waiting for the net to begin. **Solution is on page 8.**

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



# Official Meeting Minutes

**SEPTEMBER 3, 2009**

The meeting was called to order by the Vice President **Bob (K1KVV)** @ 7:03 PM with the salute to the flag.

A moment of silence was held for SK **Roger Quintin (KA1FAT)**. Roll was called with 17 members present.

## SECRETARY'S REPORT

A motion was made and seconded to accept the report as published in "ZERO BEAT". The motion was seconded and voted unanimously.

## TREASURER'S REPORT

The treasurer **Mike (KB1NB)** reported that the treasury has a total of \$8,268.12. This does not include the tower lease for this month. A motion was made and seconded to refer the report to Audit. The members voted unanimously.

## STANDING COMMITTEE'S

### Building and Grounds

**Dave (K1JGV)** reviewed the handicap ramp figures and his suggestions. Estimates:

Aluminum Ramp	\$4,200.
Steel Ramp	\$6,200.
Wood Ramp	\$5,000.
Concrete Ramp	\$4,800.
Chair Lift	\$7,000.
Grade to Slab	\$3,500.
Door	\$1,000.

A motion was made and seconded to table this until the next meeting. The motion passed with 15 yea and 2 against.

### Scholarship Committee

**Sonny (K1USW)** volunteered to be the Chairman of the committee. He will pick several other members for the committee.

## CORRESPONDENCE

A letter was received from Swansea EMA. They have requested a donation of hard line cable for their amateur radio setup for emergency use. A motion was made and seconded to approve the donation of what they need. They are to remove it from our property at their expense and should give us a letter stating that we gave this donation. We will notify **Tony (NN1D)** about our decision.

## GOOD OF THE CLUB

**Mike (KB1NB)** reported that **John (W1HIQ)** was still at Dana Farber Hospital and seems to be doing better.

**Tim (N1TI)** has commitments at home and may not be able to be here for the Flea Market.

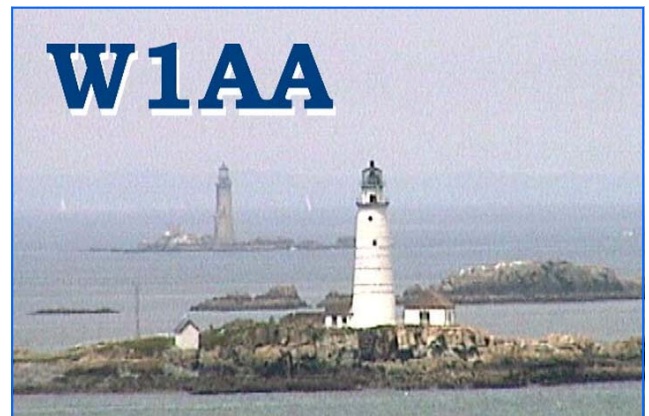
## Adjournment

At 7:35PM, a motion to adjourn was made and seconded, voted unanimously.

Respectfully Submitted

*Marcel Dumont, (W1MLD)*

## ACTIVATED LIGHTHOUSES



**W1AA** activated Boston Light USA073 and The Graves USA341 for the Amateur Radio Lighthouse Society. See: <http://arlhs.com/>. Operation started on 7233.0, then on 14270.0 (plus or minus QRM).

W1AA spots on the DX Summit: <http://www.dxsummit.fi/DxSpots.aspx?count=50&range=2>. Just search for W1AA to find the W1AA postings. Band conditions are not always the best; so if you cannot copy at first, hang in there as the band can change in 10 minutes.

Thanks for being patient as this was our first try at solo activation. If this activation was successful W1AA will be going out to more lights in the future. Several have never been activated.

Keep the flame, **Whitey-K1VV ARLHS #957**

*W1AA Marconi Radio Club*

# SEMARA News

## DR. IRVING R, SNYDER WA1ETG (SK)

Dr. Irving R. Snyder, 90, died at home Wednesday, September 16, 2009. He was born in New Bedford, and was a lifelong resident of New Bedford.



Dr. Snyder was a graduate of Temple University, Philadelphia, PA. He was a doctor of Podiatry for 56 years, retiring in 2003. During WWII he serving in Africa in the US Army.

He is survived by his life partner of many years Adeliza Stevens. He is also survived by his nieces and nephews as well as many great nieces and nephews.

WA1ETG was a life member of SEMARA, having joined in 1976. Irving was the anchor of the "Camel" Net Roundtable at that meets every day at 7 PM on 147.000. All the other check-ins will certainly miss him. As he used to say, "Life goes on."

*Our deepest sympathy goes out to his family.*

## MAURICE GAGNON KA1NMQ (SK)

Maurice Gagnon, aged 79 years, died Thursday, September 10, 2009, at St. Luke's Hospital after a long battle with prostate cancer.



He was born in Hartford, CT., and lived in this area most of his life. Maurice was an avid Boston Red Sox and New England Patriot Fan.

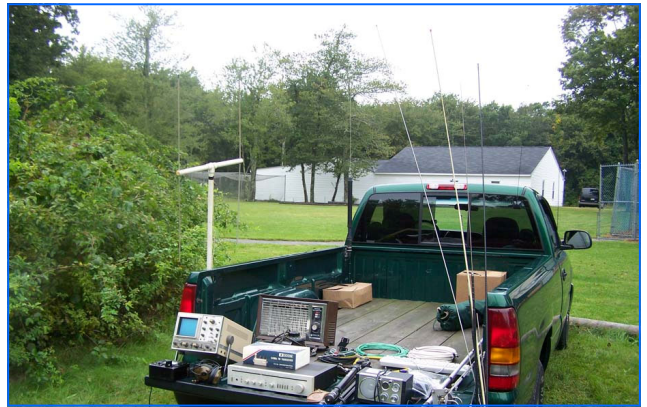
He served in the U.S. Air Force during the Korean Conflict. He was an Air Traffic Controller at Otis Air Force Base until he retired in 1980.

He is survived by his daughter and his brother. He is also survived by several nieces, nephews and great-nieces.

KA1NMQ was a life member of SEMARA, having joined in 1999.

*Our deepest sympathy goes out to his family.*

(TAILGATE—Continued from page 1)



LOTS OF VISITERS WENT HOME WITH SOME OF THESE STRANGE "FISHING POLES."



NOW THAT'S WHAT I CALL A TAILGATE!.



EARLY SHOPPERS - I THINK I SEE HENRY-W1GYL.

buyer and vendor admissions together another \$65. \$180 is not too bad for a morning's activity. And the sun broke through the cloud cover just in time for the clean-up at noon.

This experience bodes well for our future endeavors. Maybe next year folks will remember how well we did with so little hard work. Next year we can do better!

~Bob-K1KVV

# More SEMARA News

## REMINDER



### ARRL ARES SET

Saturday, October 3, 2009  
<http://www.arrl.org/FandES/field/setguide.html>

## 900 MHZ ANTENNA



NEW 900 MHZ ANTENNA ON THE LEFT.  
 REPEATER ON THE AIR—SEPT. 19, 2009.

SEMARA now has antennas each of the three corners of the top section of the “Communications Tower.” The “spare” antenna is on the corner you can’t see in this picture. This is currently being used for APRS. The dual element vertical on the right, it is our 2-m cardioid-pattern antenna with the null pointing out to sea; our newly installed 900 MHz vertical antenna is on the left.

To access our new 900 MHz repeater, tune your receiver to 927.8375 MHz. transmit on 902.8375 MHz with digital PL D031.



## MEMBERS' SIMPLEX-LINKS

Frequency	CTCSS	Call/IRLP/E-link	Location
147.520 s	—	K1JGV-L / -/277143	N Dartmouth
147.540 s	67.0	W1EAV-L/4568/45688	Marion

## ANOTHER TAILGATE PICTURE



VENDOR, N1YHS, ALL SET AND READY TO GO.

## UP A TOWER



JOHN-WA1LSH DOING TOWER WORK.  
 ABOVE THE TRI-BANDER IS A 5-EL 6-M YAGI.

## SCHOLARSHIP COMMITTEE



FIRST OFFICIAL SCHOLARSHIP COMMITTEE MEETING  
 SUNDAY, SEPT. 20, 2009  
 ALAN-WB1FQP, JOE-N1IXC, SONNY-K1USW

## VE SESSIONS

Walk-ins permitted unless otherwise noted.

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

**SEMARA** – 10:30AM **Oct 3rd**

Larry Houbre-AA1FS  
[LRHguy@earthlink.net](mailto:LRHguy@earthlink.net)  
508-991-6055

Braintree, MA – 9:00AM  
William Needham-K1WN  
[K1WN@aol.com](mailto:K1WN@aol.com)  
781-845-4400

**Canton MA** – 7:30PM **Oct 15th**

Louis Harris-N1UEC  
[N1UEC@n1uec.org](mailto:N1UEC@n1uec.org)  
508-333-5714

Cranston, RI – 9:00AM  
Kenneth Carr-KB1AWV  
[KB1AWV@yahoo.com](mailto:KB1AWV@yahoo.com)  
401-828-1665

**Falmouth, MA** – 9:00AM **Oct 10th**

W. Ben Fleck-K2LYE  
[BenFleck@cape.com](mailto:BenFleck@cape.com)  
508-540-2583

**Fall River, MA** – 7:00PM **Oct 19th**

Skip Denauly-KB1CNB  
[skip@newtestamentschool.org](mailto:skip@newtestamentschool.org)  
774-644-3469

Middletown, RI – 9:00AM  
Louis Mester-W1CH  
[W1CH@arrl.net](mailto:W1CH@arrl.net)  
401-263-6045

**Providence, RI** – 7:00PM **Oct 8th**

Jack Garforth-K1IG  
[K1IG@verizon.net](mailto:K1IG@verizon.net)  
401-683-2250

**Slatersville, RI** – 9:00AM **Oct 31st**

Robert E. Jones-WB1P  
[WB1P@arrl.net](mailto:WB1P@arrl.net)  
401-333-4787

**Martha's Vineyard, MA** – Call **Oct 9-13th**

Fred Collins-W1FC  
[W1FC@aol.com](mailto:W1FC@aol.com)  
508-627-5533

## COMING FLEAS & FESTS

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

11 Oct CT State Conv Walingford, CT  
John—[info@nutmeghamfest.com](mailto:info@nutmeghamfest.com)

18 Oct Flea @ MIT Cambridge, MA  
Steve—[w1gsl@mit.edu](mailto:w1gsl@mit.edu)

31 Oct Auction Gales Ferry, CT  
Darryl—[ddelgrosso@sbcglobal.net](mailto:ddelgrosso@sbcglobal.net)

## SOME CONTESTS

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

These are all "Sprints," 2, 4, 6 hour contests

*all\_mode* **Oct 7**, 7 PM - Oct 7, 11 PM 432 **Fall VHF Sprints** [www.svhfs.org](http://www.svhfs.org)  
*all\_mode* **Oct 10**, 0001Z - Oct 10, 2359Z 28 **10-10 Sprint** [www.ten-ten.org](http://www.ten-ten.org)  
**CW Oct 10**, 1600Z - Oct 10, 2000Z 3.5-14 **EU Autumn Sprint** [www.eusprint.com](http://www.eusprint.com)  
**CW Oct 10**, 1700Z - Oct 10, 2100Z 3.5-28 **FISTS Fall Sprint** [www.fists.org](http://www.fists.org)  
**RTTY Oct 11**, 0000Z - Oct 11, 0400Z 3.5-14 **North American RTTY Sprint** [www.ncjweb.com](http://www.ncjweb.com)  
**CW Oct 11**, 0000Z - Oct 11, 2359Z 3.5-28 **SKCC Monthly Weekend Sprint** [www.skccgroup.com/sprint/wes](http://www.skccgroup.com/sprint/wes)  
*all\_mode* **Oct 17**, 6 AM - Oct 17, 12 PM 902+ **Fall VHF Sprints** [www.svhfs.org](http://www.svhfs.org)  
**PSK31 Oct 17**, 8 PM - Oct 18, 2 AM 1.8 **Great Pumpkin Sprint** [www.podxs070.com](http://www.podxs070.com)  
**Feld-Hell Oct 17**, 2200Z - Oct 17, 2400Z 28 **10-10-10 Feld-Hell Sprint** [www.feldhellclub.org](http://www.feldhellclub.org)  
**CW Oct 18**, 0000Z - Oct 18, 0200Z 14-21 **Asia-Pacific Sprint** [jsfc.org/apsprint/aprule.txt](http://jsfc.org/apsprint/aprule.txt)  
*all\_mode* **Oct 24**, 2300Z - Oct 25, 0300Z 50 **Fall VHF Sprints** [www.svhfs.org](http://www.svhfs.org)  
**CW Oct 28**, 0000Z - Oct 28, 0200Z 1.8-28 **SKCC Monthly Straight Key Sprint** [www.skccgroup.com/sprint/sks](http://www.skccgroup.com/sprint/sks)

## 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)

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
145.330 -	94.8	K1CW	Bristol, RI
145.350 -	100.0	N1BS	W Warwick, RI
145.450 -	100.0	W1SYE	Portsmouth, RI
145.490 -	67.01	W1SMA/4617/4611	Fairhaven
146.625 -	141.3	K1RSR	E Prov., 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
146.805 -	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 Prov, 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	E Prov., RI
147.345+	88.5	KB1QL/—/3755	W Tisbury
147.375+	110.9	N1YHS	Falmouth

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

### 222

223.760 -		K1KYI	Scituate, RI
223.780 -	88.5	N1PYN <sup>2</sup>	Brockton
223.820 -	67.0	N1JBC	Newport, RI
223.900 -		KA1ABI	Coventry, RI
223.920 -		KA1LMX <sup>2</sup>	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
224.320 -	118.8	W1ZSA	Walpole
224.560 -	100.0	KA1NXS	Richmond, RI
224.620 -	88.5	N1LEO <sup>2</sup>	Attleboro
224.760 -		KA1SOO	W Warwick, RI
224.920 -	67.0	N1JBC	N Prov., RI
224.960 -	88.5	W1VET <sup>2</sup>	Warwick, RI

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

### Frequency CTCSS Call/IRLP/E-link Location 440 (within 25 miles of SEMARA)

441.750+	192.8	W1AQ <sup>2</sup>	E Prov., 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

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

### 902

921.2000 (-12 MHz)		KA1RCI	Prov., RI
921.7000 (-12 MHz)		W1OP	Johnston, RI
927.4125	67.0	N1OTY	Plymouth
927.4250	131.8	W1WCF	Bridgewater
927.4500	D031	WG1U	Abington
927.4625	103.5	WG1U	Assonet
927.4750	131.8	N1ZZN/4571/465188 <sup>1</sup>	Marshfield
927.4875	131.8	N1UEC/4486/278206 <sup>1</sup>	Wrentham
927.5750	D051	N1UMJ	Rehoboth
927.6125	131.8	KA1RCI <sup>2 3</sup>	Lincoln, RI
927.6250	131.8	W1EHT <sup>3</sup>	Pembroke
927.6500	D031	W1SMA	Dartmouth
927.6750	D244	N3LEE <sup>2</sup>	Cumberland, RI
927.6875	131.8	KA1DTA	Taunton
927.7125	131.8	KB1HTO <sup>3</sup>	Norton
927.7625	67.0	KA1EZH	N. Prov., 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>
927.8625	D031	NN1D/4004	Fall River

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

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

## ANSWER: HAMMIN' AROUND

*In polar coordinates, what is the impedance of a network consisting of a 300-ohm-reactance capacitor, a 600-ohm-reactance inductor, and a 400-ohm resistor, all connected in series? A. Z = R + jX<sub>L</sub> - jX<sub>C</sub> = 400 + j600 - j300 = 400 + j300 = 500/37°.*

## ANSWER: SUDOKU<sup>2</sup>

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