



# ZERO BEAT

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



Since 1932

Volume 45 Issue 7

SEMARA-W1AEC

July 2009

## SEMARA Field Day 2009



Ed-WA1ZCB AND BEN-N1WBV

Sunday, June 28 saw some Field Day activity at the clubhouse. Since the prep time was rather limited, the club entered as "2D" - this allowed us to use 2 transceivers on commercial power. When I arrived Sunday morning, I found Ed, WA1ZCB, had already opened the club and hooked his *Elecraft K3* to the beam.

After Ed showed me how to operate his K3, I jumped right in on 40M. Ed opted to sit back and watch at first, but he quickly took the helm to try his hand. As the morning progressed, 40M seemed to be the magic band, however 20M also showed signs of life. Most of our efforts were concentrated there.

Mid-morning Dave, W1DJG, brought by his *G5RV antenna* so we could try to actually use one of the other radios. Both he and I tried to set it up, but, we could not find sufficient coax to do so.

When we came back in, Rob, KD1CY, was at the radio working a pile up he caused by calling CQ on 40. As the morning progressed, operation of the station alternated between Rob, Ed. Bob, WX1DOG and myself. A grand total of 137 contacts were logged, 125 SSB and 12 CW.



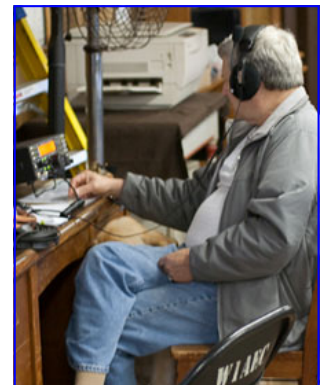
ROB-KD1CY

The club station is a great resource and is loads of fun to operate. If you would like to operate a contest or just spin the bands, you should really give it a try!

*Ben - N1WBV*



BEN-N1WBV AND THE  
G5RV ANTENNA



BOB-WX1DOG

### WHAT'S INSIDE

- |   |  |
|---|--|
| 2. <a href="#">It seems to me... Point to Ponder Hammin' Around</a> | 6. <a href="#">More SEMARA News</a>  |
| 3. <a href="#">Club Notes</a>                                       | 7. <a href="#">VE Sessions List Coming Fleas &amp; Fests Some Contests</a> |
| 4. <a href="#">Meeting Minutes July 2, 2009</a>                     | 8. <a href="#">Local Repeaters List Answers:</a>                           |
| 5. <a href="#">SEMARA News</a>                                      | <a href="#">Hammin' Around</a>   |

## 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*  
 Larry Houbre, Jr. - AA1FS  
*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)>



That someone is trying to make life difficult for the newly planted grass. We haven't yet figured out why anyone with a heavy truck insists on driving on our property when both SEMARA and our neighbor, the Little Peoples College is closed on a Saturday evening. I'd bet they weren't trying to make a late delivery.



Seems our cell tower has a well attended nest. In addition to the parents, I've seen a couple of youngsters flying around. They even perch on the Sommers Log-Yagi antenna on the 80-ft tower. It's nice to think that we've provided a nice home for them. Now, if only we could train them to go after our intruders...

The Lunch Bunch recently convened at the Cape Quality Seafood Restaurant in South Dartmouth. From left to right, the diners are **Chuck-KB1FRL**, **Bill-W1POW**, **Steve Hall-KB1GVT** visiting No. Monmouth, ME, **Ray-KB1EVX**, and **Bob-K1KVV**. Not in the picture is **Armand-W1BUG**, the photographer.



## POINT TO PONDER

**"In the end, we only regret the chances we didn't take; and the changes we were afraid to make."**

~Anonymous

## HAMMIN' AROUND

**Question\* E6D13** How many turns will be required to produce a 1-mH inductor using a ferrite toroidal core that has an inductance index ( $A_L$ ) value of 523 millihenrys/1000 turns?

- A. 2 turns
- B. 4 turns
- C. 43 turns
- D. 229 turns

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

Answer on page 8

# Club Notes

**S**ummer is here finally. Yes, it is sporting lots of rain, wind, hail and thunderstorms. But the temperatures are in the 70s and low 80s. Who could ask for better sailing or beach weather—when it’s not storming.

When it is storming, mind the lightning. It can strike from miles away—even if the storm has not reached you! Be sure to disconnect your antennas and ground them. Don’t have a good ground system? Well, what are you waiting for? A few good ground rods can make all the difference.

Not everyone has a 160-foot cell tower on their property to shunt the excess charge to the ground. And you thought the only reason SEMARA bought this piece of swampy landfill was its attractive price! We are certainly well-grounded in more ways than one.



## NEXT SEMARA VE SESSION

**August 1, 2009**  
**Clubhouse @ 10:30 AM**  
 Contact: Larry Houbre-AA1FS  
[LRHgyu@earthlink.net](mailto:LRHgyu@earthlink.net)  
 508-991-6055

Here’s a challenging Sudoku puzzle to attack while waiting for the band to open. Letters used: **C, D, G, I, K, N, O and X**. The main diagonal spells a 9-letter word. **Solution is on page 8.**

							O	
	O		C		I		G	
P	G		O	D				I
			D		X			
	P			O			X	
			P		N			
D				P	C		K	X
	X		I		D		N	
		I						

## SEMARA 900 MHZ FREQ. PAIR

927.8375 MHz (repeater output)  
 902.8375 MHz (repeater input)

## LOCAL NETS

*Everyone is welcome to check in!*

**147.000+** (PL 67.0 Hz) (FM) — **Roundtable “Camel” Net** 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

**3545± kHz** — **SEMARA CW Net** on Mondays at 8:00 p.m. Cancelled because of low **QNI**.

## WELCOME TO SEMARA

**T**here was one application for membership at the July 2, 2009 Business Meeting.

**William E. Szurley - W1MWM** was admitted to membership by a unanimous vote.

*Bill also paid the assessment.*

*Welcome to the club!*

## SEMARA HAMFEST

**I**t’s official, the SEMARA Hamfest will be held on the second Sunday in September, the 13<sup>th</sup>.

Contact **Tim, N1TI** with your ideas about what you can do to help..

## CLUB NUMBERS

*GPS Coordinates:*

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

*Maidenhead Grid Coordinates: FN41mo*

*For FISTS Sprints: FISTS #10555*

# Business Meeting Minutes



**July 2, 2009**

Club Vice-President **Bob (K1KVV)** called the meeting to order with the salute to the Flag at 7:00 PM. Roll was called with 20 members present.

## SECRETARY'S REPORT

A motion was made and seconded to accept the Report as written in the *ZERO BEAT*. The members voted unanimously.

## TREASURER'S REPORT

The treasurer **Mike (KB1NB)** reported that the balance in all accounts is \$11,456.25. The total outflow for the month of June was \$4,136.99 and a total input for the month of \$2,904.15. Motion was made and seconded to refer the report to audit. The members voted unanimously.

## REPORTS OF COMMITTEE'S

### Buildings and Grounds

**Dave (K1JGV)** reported that the grading for the most part is complete and minor imperfections will be fixed as the show up. There are several projects yet to be done such as covering the area where the ductwork entered the building, replacement of the north side rake boards, and painting of the trim. He would like to have this done before winter but they also need help from the membership to get it done quicker; so please volunteer.

### Technical Committee

**Dave (W1DJG)** reported that the antenna for the 900 MHz repeater has been delayed because of the weather and climbing the tower. The 2 meter repeater has some noise intermittently and has been difficult to locate the cause but the committee is still working on the problem.

## COMMUNICATIONS

There has been one application for membership from **William E. Szurley (W1MWM)**. A motion was made and seconded to accept the application and the members voted unanimously.

We have also received resignations from seven (7) members. These came in as a result of the mailing for the assessment. Those members were **WA1AKR-Carl Bissonnette**, **KB1SM-Robert Brocklehurst**, **KC1ML-Marc E. Loring**, **N1YG-David A. McCarthy**, **K1QLG-Fred J. Ravens**, **KB1IYS-Cynthia Sellin**, and **KG1FRL-Wayne G. Sellin**. These resignations were received in May and presented at the June meeting and accepted after a one month grace period.

## NEW BUSINESS

A question was asked by **Joe (N1IXC)** about the fence that is suppose to go around the tower by it's operator. **Mike (KB1NB)** reported that he and **Louie (W1CH)** has spoken to him and they are supposedly going to do it soon.

**Dave (W1DJG)** spoke to the members about a request he had about the antenna cable we have located in the brush near the tower. This request came from **Tony (NN1D)** for Public Safety use. A motion was made and seconded to table the issue until a letter is received from them. The feeling was positive in giving the cable. It was also recommended that we ask for a donation if possible.

## GOOD OF THE CLUB

**Tim (N1TI)** spoke about the Flea Market to be held in September.

**Ben (N1WBV)** thanked **Ed (WA1ZCB)** for bringing in his radio for field day 2009. **Ben (N1WBV)**, **Rob (KD1CY)**, **Ed (WA1ZCB)** and **Bob (WX1DOG)** along with his dog *Hunter* (no call) participated in Field Day events at the Club.

There was discussion about having a tech talk on the 900 MHz band and equipment. **Dave (W1DJG)** will check with **Tony (NN1D)** to see if he is willing to help.

**Bob (K1KVV)** also offered a standing offer to give a class for the EXTRA exam.

## Adjournment

Motion made and seconded to adjourn, voted unanimously.

Respectfully Submitted  
*Marcel Dumont, (W1MLD)*



## 50/50 RAFFLE

A 50/50 raffle was held after the Business Meeting.  
Total of \$40.00  
Winner was **Sonny (K1USW)**

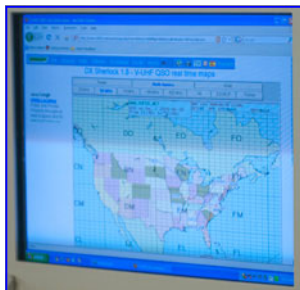
# SEMARA News

## JUNE VHF QSO PARTY

June gave SEMARA two opportunities for the club station to get a workout: The June VHF QSO Party and Field Day [reported on the front page of this issue]. At the June business meeting I made the announcement that I would attempt to activate the station on both occasions and there seemed to be interest in both events.

For the VHF QSO Party, **Matt, KB1OSV**, offered to bring his 2 meter beam and **FT-897** so that we could operate on both 6 and 2 meters. On the day of the contest, I arrived at noon and found that Matt had already set up his 2-meter beam. We attached it to the top of a 18-ft painter's pole that he had brought and lashed the pole to the stairs. This put the beam about 25-ft above the ground. We then set up Matt's **FT-897** which I manned for 2M and he operated the club's **TS-570** for 6M.

As 1800UTC [2:00 PM, local] rolled around, the bands sprung to life. I made the first contact of the afternoon at 1801UTC with **KB1DFB**. Unfortunately, I should have savored it, as it was one of five contacts I made during the contest. 2M was mostly dead for much of the afternoon and I was only able to work three grids. Matt on the other hand had much better luck on 6M, as the band occasionally opened up and he was able to work stations in the Midwest and the Southeast United States.



GRID-SQUARES

By the time 6:00 PM rolled around, when we both had to leave, we had worked 16 contacts and 10 grids, giving us a grand total of 160 points.

*Ben - NIWBV*



### MEMBERS' S-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

## SUNDAY RAG CHEW

Here are some pictures that tell more than I could ever describe. See what you are missing!



JUST A FEW OF THE 'REGULARS'  
MIKE-KB1NB IS THE ONE WHO BRINGS THE DONUTS



JOHN-W1ZYV IS A MASTER COFFEE BREWER



DAVE-K1JGV & MARTY-KA1YFV B&G COMMITTEE

# More SEMARA News

## BUILDING & GROUNDS REPORT FOR JULY 2009

The grading project is completed. The most important issue is the eventual installation of a handicap ramp to the rear of the club house. Ample consideration has been given to improve the parking and drainage conditions. An unexpected bonus was thrown in with the placement of the utility poles to prevent needless traffic over grassy areas of the grounds. Still another improvement was the 'doctoring up' of an area adjacent to the BBQ pit for the clam boil fires with the addition of a fire berm.

Parking is now encouraged on the south side of the club and driveway as far back as the storage facility. Please refrain from parking on the grass, if at all possible. Exceptions can be made for meeting nights and special functions. The grassy areas of the grounds are still recuperating from years of abuse. Driving all over them only contributes to ruts and dead grass. There will be some settling of the modified areas and the formation of an occasional mini-puddle now and then which will form after heavy rain. I am very confident that the maxi-puddles are a thing of the past! During the course of the summer, these small problems will be dealt with by the Building and Grounds Committee with the help, of course, of any volunteers.

Now we will move on to a few small projects that should be out of the way well before the snow flies. They are:

1. the covering of the area where the old ductwork entered the building.
2. The replacement of the north rake boards.
3. The painting of the club house trim.

None of these involve any club funds and are strictly voluntary in regards to time and materials.

The groundwork (or more correctly, paperwork) will now begin on the handicap ramp. This next phase of the operation is highly dependent upon available funds. We will move forward as resources become available. Come to the next business meeting for an update.

73, *Dave-K1JGV*

Talk-in will be on the 145.230-Boston repeater PL: 88.5 Hz. Directions to Boston Salvation Army HQ: see the link from the Boston Amateur Radio Club website as they hold their meetings at this site: <http://www.bar.org/exec.html>.

## N1DT PLAQUE PRESENTATION



In recognition of his sincere dedication to the activation of lighthouses for the *Amateur Radio Lighthouse Society* and devoted service as one of the original members of the dynamic duo known as *The Cape Crusaders*, the lovely plaque seen below was presented recently to **Don Tanguay / N1DT** by members of the *Marconi Radio Club / WIAA*.

Several years ago, Don got together with his close friend **Bob Doherty / K1VV**, and set about activating as many regional lighthouses as they could. Along the way they gathered a faithful following to their Saturday outings and earned themselves the name **The Cape Crusaders**. I'm sure I speak for all the members of the *A.R.L.H.S.* in congratulating Don on a job well done.

73 & K. T. F.  
*Jim-KA3UNQ*

**AMATEUR RADIO  
EMERGENCY COMMUNICATIONS WORKSHOP  
SATURDAY, AUGUST 8, 2009  
9:00 AM-4:00 PM  
BOSTON SALVATION ARMY HEADQUARTERS  
147 BERKLEY STREET, BOSTON.**

This Workshop will serve Amateur Radio Operators when responding to a communications emergency or when providing supplemental communications. Five 1-hour training sessions are provided: Overview of Eastern Massachusetts ARES-RACES-SKYWARN Programs, Net Operations, NTS Traffic Message Handling, Basic Overview of ICS, and Go Kits. Plus a no-cost lunch.

For any additional information and to pre-register for the workshop by Monday, Aug. 3, please contact:

**Rob-KD1CY** at [rmacedo@rcn.com](mailto:rmacedo@rcn.com)

## VE SESSIONS

*Walk-ins permitted unless otherwise noted.*

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

**SEMARA** – 10:30AM **Aug 1st**

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

**Braintree, MA** – 9:00AM **Aug 8th**

William Needham-K1WN  
[K1WN@aol.com](mailto:K1WN@aol.com)  
781-845-4400

**Canton MA** – 7:30PM **Aug 20th**

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 **Aug 8th**

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

**Fall River, MA** – 7:00PM **Aug 17th**

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

**Providence, RI** – 7:00PM **Aug 13th**

Louis Mester-W1CH  
[W1CH@arrl.net](mailto:W1CH@arrl.net)  
401-263-6045

**Slatersville, RI** – 9:00AM **Aug 29th**

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

## COMING FLEAS & FESTS

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

**8 Aug RASON H'fest** **Gales Ferry, CT**  
Radio Amateur Society of Norwich  
Chuck—[W1FJW@arrl.net](mailto:W1FJW@arrl.net)

**19 Aug Flea @ MIT** **Cambridge, MA**  
Steve—[W1GSL@mit.edu](mailto:W1GSL@mit.edu)

**13 Sep SEMARA Tailgate** **Clubhouse**  
Tim — [n1ti@arrl.net](mailto:n1ti@arrl.net)

## 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*

## SOME CONTESTS

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

*PSK RTTY* Aug 1, 0000Z - Aug 1, 2359Z 160-28 50

**TARA Grid Dip Contest**

[www.n2tv.org/seasons/tara\\_grid\\_rules.html](http://www.n2tv.org/seasons/tara_grid_rules.html)

*All modes* Aug 1, 0001Z - Aug 9, 2359Z 1.8-28 50,144

**Lighthouse-Lightship Week** [ialhp.org](http://ialhp.org)

*Phone* Aug 1, 0001Z - Aug 2, 2359Z 28

**10-10 Summer Phone QSO Party** [www.ten-ten.org](http://www.ten-ten.org)

*CW* Aug 1, 1800Z - Aug 2, 0600Z

*Phone* Aug 15, 1800Z - Aug 16, 0600Z

**1.8-28 North American QSO Party** [ncjweb.com](http://ncjweb.com)

*Phone* Aug 2, 1300Z - Aug 3, 1630Z

*CW* Aug 30, 1400Z - Aug 30, 1600Z

**3.5-14 SARL HF DX Contest** [www.sarl.org.za](http://www.sarl.org.za)

*All modes* Aug 8, 1600Z - Aug 9 2359Z 1.8-28 50-440

**Maryland-DC QSO Party** [www.w3cwc.org](http://www.w3cwc.org)

*Phone CW* Aug 15, 0800Z - Aug 16, 0800Z 1.8-28

**Russian Dist. Award Contest** [rdaward.org/rdac1.htm](http://rdaward.org/rdac1.htm)

*CW* Aug 15, 1200Z - Aug 16, 1200Z 1.8-28 50

**Keymen's Club of Japan Contest** [www.jarl.com/kcj](http://www.jarl.com/kcj)

*Phone CW* Aug 15, 2000Z - Aug 17 0200Z

**1.8-28 50,144 NJ QSO Party** [www.qsl.net/w2rj](http://www.qsl.net/w2rj)

*All modes* Aug 22, 0700Z - Aug 23, 2200Z 1.8-28

**Hawaii QSO Party** [www.karc.net](http://www.karc.net)

*Phone CW* Aug 22, 1600Z - Aug 23, 0400Z 3.5-28

**Ohio QSO Party** [www.ohqp.org](http://www.ohqp.org)

*Phone CW* Aug 29, 1200Z - Aug 30, 1159Z 3.5-28

**YO DX Contest** [www.hamradio.ro](http://www.hamradio.ro)

## 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	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	WA1GPO	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
147.000+	SEMARA 67.0	W1AEC/4347/44347	Dartmouth
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/—/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/—/402289	W Tisbury
147.375+	110.9	N1YHS	Falmouth

### 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
224.320 -	118.8	W1ZSA	Walpole
224.400 -	103.5	NIKUG/4133/94940 <sup>2</sup>	Quincy
224.560 -	100.0	KA1NXS	Exeter, RI
224.620 -	88.5	N1LEO <sup>2</sup>	Attleboro
224.660 -		W1KG	Medway
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/se.htm#222>

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

441.400+	192.8	WG1U	Assonet
441.750+	192.8	W1AQ <sup>2</sup>	E Prov., RI
442.550+	67.0	WG1U	Assonet
443.150+	94.8	K1CW	Bristol, RI
444.350+	88.5	W1ACT <sup>2</sup>	Fall River
446.375 -	67.0	KA1RCI	Little Compton, RI
447.225 -	88.5	WP4US	Taunton
447.525 -	88.5	WA1TAQ	Portsmouth, RI
448.325 -	186.2	KC2GDF	Newport, RI
449.525 -		NN1D	Fall River

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

### 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	D031	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. Attleborough
927.8250	131.8	N1JFU/4335 <sup>1 3</sup>	Hingham
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/se.htm#902>

## ANSWER: HAMMIN' AROUND

How many turns will be required to produce a 1-mH inductor using a ferrite toroidal core that has an inductance index (AL) value of 523 mH/1000 turns? (C) L = AL · N<sup>2</sup> → N = √[L / AL] : N = 1000 · √[1 m / 523 m] = √[1912] = 43.72 → N = 43-44 turns (43 turns is the closest answer)

## ANSWER: SUDOKU

Word: CONDONING

G	P	D	O	X	N	I	C	K
O	N	C	D	K	I	P	X	G
X	K	I	C	P	G	O	N	D
K	I	G	N	C	P	X	D	O
D	X	N	G	O	K	C	P	I
C	O	P	X	I	D	G	K	N
I	C	X	K	D	O	N	G	P
P	G	K	I	N	C	D	O	X
N	D	O	P	G	X	K	I	C