



ZERO BEAT

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



Since 1932

Volume 45 Issue 12

SEMARA-W1AEC

December 2009

Elections for 2010

Tim (N1TI), chairman of the Nominating Committee, asked each present officer and Trustee and Board of Directors if they were interested in running for re-election. He also asked the membership present at the business meeting for nominations for any of the positions.

The following nominations were presented.

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

Trustee (5-year term): **Louis (W1CH)**

If anyone wishes to be run for an office, place your name on the board and notify **Tim (N1TI)** before the December business meeting.

All offices are open to all members in good standing; to be a Trustee you must have been a member for 5-years (since 2004).



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Members of some of the local Cub Packs and Troops from our area visited Camp Greenough on the Cape, and Camp Norse near Plymouth; I don't have specific numbers. Personally, I operated for about 4 hours as an adult leader contact from Troop 53 Mattapoisett. I was basically an "easy" contact for either of the Massachusetts field locations when HF conditions weren't optimal. They were using primarily the Falmouth and Bridgewater repeaters. We did have another troop leader with an HT at a campsite in Dartmouth or Westport have about 8 boys talk to us briefly on the 147.000 repeater; that's all I recall on the SEMARA machine. We had hoped to do more with that; but, when our camping plans changed, I reverted back to a garage station, just being the target for contacts from the other Scout groups in the area. For those locations, on batteries and lower power, they didn't have full quieting on the SEMARA machine.

For fun, I also worked a bunch of overseas and US Scouting stations during the day. Ended up with about 20 countries and contacts in at least that many states. One of them sounded like they were having a fun time, the group was operating with a Scouting call **W6BSA** from a *WWII Victory Ship Red Oak*, anchored in Redmond off the California coast. Fun weekend for those boys!

Cheers, **Ron (NIGFS)**

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 - W1RJG,
 Dave Goldstein - W1DJG
Website
 Tim Smith - N1TI

It seems to me ...

de Bob - K1KVV <editor@semara.org>



Hams talk to the world and make new friends both near and far. We build things, tinker, and learn electronics through personal application. Computers and digital technology are part of today's radio hobby. Some operators practice a foreign language on the air and learn about other cultures and lands. Conversations with other operators are often interesting, fun and educational.

Amateur radio operators provide emergency backup communication when normal channels fail during floods, fires, and storms. Hams enjoy fellowship in radio clubs and help each other with radio projects and operating techniques. *Most of these activities would lend themselves to human interest stories.*

I have noticed that the newspaper clippings on our clubhouse walls are looking yellowed and tattered. Surely there must be something that we do as members of SEMARA that could warrant some journalist's attention. We can focus on hometown people. This should attract journalists seeking local angles for their stories. As a club we can sketch out the basic details of "who, what, where, when and why" in *Zero Beat* and send copies to reporters who may decide to do follow-up features.

So who's going to win the race to be featured in next month's issue? Why not have your 15-minutes of fame? Ham radio certainly supplies lots of 'hooks' to catch the public's attention. Maybe that will sell a few papers, too!

In the meantime, I am volunteering to fill the third Thursday evening of the month with informal technical conversation, as I did in November, until a 'real' Tech Talk takes place. Are you curious about how to go about figuring out the answers to some of the Extra Class questions? Want to know what's behind the answers (the theory)? I don't pretend to know all the answers; but between the two of us — you and me — we'll come up with some pretty good ones! Circle Dec. 17th on you calendar—see ya.

POINT TO PONDER

**“How we spend our days is,
 of course,
 how we spend our lives.”**

~Annie Dillard

HAMMIN' AROUND

Question* E6D12 What is a primary advantage of using a toroidal core instead of a solenoidal core in an inductor?

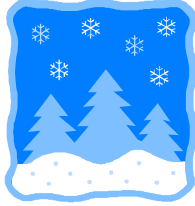
- Toroidal cores contain most of the magnetic field within the core material
- Toroidal cores make it easier to couple the magnetic energy into other components
- Toroidal cores exhibit greater hysteresis
- Toroidal cores have lower Q characteristics

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

Answer on page 8

Club Notes

December is a special month. It starts out with the days getting shorter—and it's still fall! We get a chance to celebrate the winter solstice—each in our own way, sharing in the mystery of this time of year, as did the ancients. We end up the month by slowly coming out of the darkness to 'enjoy' the winter months. Ah, yes!



Since the trees are bare, this might be a good time to hoist a few wires into the branches. I've heard some wondrous tales about the performance of long wires on 160 already.



If contesting is not your thing, there are two chances this month to avoid the hassle, but not necessarily the crowds (see page 5). Look into the **Lighthouse Christmas Lights QSO Party**, which runs the last two weeks of December. And, if you would like a personal challenge, try SKN (**ARRL Straight-Key Night**) that starts at 0000 UTC on News Year's Eve.



Join me for the non-Tech Talk on Dec.17 to have a conversation about what is on your mind regarding ham radio. Got questions—get answers, no guarantee that they'll be correct 'tho,



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 almost *every evening* at 7 p.m. on the SEMARA Repeater, **W1AEC**. **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.

NEXT SEMARA VE SESSION

December 5, 2009

Clubhouse @ 10:30 AM

Contact: Larry Houbre-AA1FS

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.**

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

Official Meeting Minutes



NOVEMBER 5, 2009

The meeting was called to order by the President **Louis (W1CH)** at 7:03 PM with the salute to the Flag. There was a roll call with 18 members present.

SECRETARY'S REPORT

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

TREASURER'S REPORT

The treasurer was not present for the report. A motion was made and seconded to refer the report to audit. The members voted unanimously.

STANDING COMMITTEE'S

Buildings and Grounds

A letter was read by the President **Louis (W1CH)** from **Dave (K1JGV)** with reference to the present status of the building and grounds. A copy of the letter is attached to this report.

Scholarship Committee

Joe K (N1IXC) reported that the Committee has met several times and has done a revamp of the scholarship objectives and requirements. This will be brought up to the BOD and membership at a later date.

Technical Committee

Tim (N1TI) reported that we now have 5 additional IP addresses and they will be configured by **Rick (W1RJG)**. The 900 MHz repeater is operation well and with the new IP addresses we will be able to tie in Echo link and IRLP and link other repeaters.

The next big project is to take the log periodic antenna down and repair it to original specs. There are several bent elements that should be repaired. The 2 meter repeater is running well.

The web site is status quo and **Tim (N1TI)** will be stepping down as the administrator. We need to appoint a new administrator.

OLD BUSINESS

Chris (W1EAV) reported that he does have a buyer for the 400 MHz radio that we had in the club and is looking for a 900MHz radio to replace it.

Marcel (W1MLD) reported that the hard-line that we donated to Swansea EMA for their new facility is gone and the area was cleaned up and the deteriorated

reels were disposed of by the Swansea Highway Department They did a great job cleaning up the area and the hard-line belonging to the club was placed in the storage trailer for safe keeping. This project took two days to do and Al Costello was a big help in this project allowing us to use some of his equipment and himself. A big thank you to Al and the Swansea Water and Highway Departments.

NEW BUSINESS

Marcel (W1MLD) spoke about the fact that he would be doing some communication work for the Town of Dartmouth Board of Health. When he gets more information he will bring it up to the club for those interested in helping.

COMMUNICATIONS

Bob (K1KVV) reported that he received one resignation from a member. He also sent out several sympathy cards for our recently deceased members.

GOOD OF THE CLUB

FARA Fest will be held on Saturday November 7, 2009.

SKYWARN, there are no training programs for this year. A new program will be started next year. There will be an ARES drill on the 14th of November.

NOMINATIONS

As chairman of the Nominating Committee, **Tim (N1TI)** asked each present officer and Trustee and Board of Directors if they were still interested. He also asked for nominations for any of the positions. The following nominations were presented.

President: **Louis (W1CH)**

Vice President: **Bob (K1KVV)**

Secretary: **Marcel (W1MLD)**

Treasurer: **Mike (KB1NB)**

Director: **John (WA1LSH)**

Joe K (N1IXC)

Brad (W1BEP)

Trustee: **Louis (W1CH)**

If anyone else wishes to be nominated please place your name on the board and notify **Tim (N1TI)** before the December business meeting.

Motion made and seconded to adjourn the meeting at 7:44 PM. Voted unanimously.

Respectfully submitted

Marcel Dumont, (W1MLD)

SEMARA News

SKYWARN RECOGNITION DAY SATURDAY, DEC. 5 0000 UTC TO 2400 UTC



The 11th annual SKYWARN Recognition Day (SRD) will take place this year on Saturday, December 5. SRD will be held this year from 0000 UTC to 2400 UTC on Saturday, December 5, 2009. (That means the event officially begins on Friday evening in the United States).

Radio amateurs will operate from many National Weather Service (NWS) offices around the United States. The purpose of the event is to recognize Amateur Radio operators for the vital public service they perform during times of severe weather. SRD serves to strengthen the bond between radio amateurs and their local National Weather Service office.

Traditionally, hams have assisted the National Weather Service during times of severe weather by providing real-time reports of severe events and storm evolution. The assistance that radio amateurs provide to the NWS throughout the year is invaluable.

This event is co-sponsored by the American Radio Relay League and the National Weather Service.

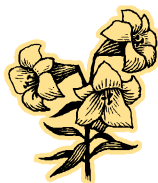
~Rob (KDICY)

JERRY SEVICK W2FMI (SK)

Jerry Sevick, W2FMI, one of ham radio's great technical contributors, died peacefully on Sunday, November 29 at the age of 90.

Jerry embodied the old-fashioned amateur spirit of innovation by experiment, applying his many years of experience as a Bell Labs researcher to a retirement project analyzing the performance of short vertical antennas. That work led him to the study of transmission line transformers and baluns, for which he became well-known in both the ham and professional radio engineering communities.

May he rest in peace,



2009 SEMARA SKs



This is the time of year when we think of those who have passed away. This year we lost six members. They are:

KA1NMQ—Maurice Gagnon
WA1TNB—Leo J Jodoin
N1BUD—Charles H Leach, Jr.
KA1FAT—Roger Quintin
WA1ETG—Dr. Irving Snyder
W1UID—Arthur J Valois



May their families and friends be in peace.

ON THE AIR THIS MONTH

While they are listed under the 'contest' heading, I would like to draw your attention to the following 'special' events:

- **Lighthouse Christmas Lights QSO Party**—this is a two-week *non-contest*. It runs from Dec 19, 0001Z - Jan 3, 2359Z on all the bands, including the WARC bands, 1.8-28 50,144 You can use any mode; but, most will be on SSB or CW. Check out <http://arlhs.com/LCL-2009-guidelines.html> for more details.
- **ARRL Straight-Key Night**—this actually starts on New Year's Eve for us (Jan 1, 0000Z - 2400Z) and goes for 24-hours. Just get out your old/new straight key and cruise around the bands from 3.5-28 to 50+ and higher. This 24-hour event is not a contest; rather it is a day dedicated to celebrating our CW heritage. Participants are encouraged to get on-the-air and simply make enjoyable, conversational QSOs. There are no points scored and all who participate are winners. Instead of sending RST before the signal report send the letters *SKN*, to indicate your participation, and to clue in passers-by who may be listening. After *SKN*, you send the Contest Branch a list of stations worked, plus your vote for the best fist you heard (it doesn't have to be one you worked). Also, be sure to include your vote for the most interesting QSO you had or monitored. See www.arrl.org/contests2009/skn.html.

More SEMARA News

NEW TECHNICIAN QUESTIONS EFFECTIVE JULY 1, 2010

The Question Pool Committee (QPC) of the National Conference of Volunteer Examiner Coordinators (NCVEC) is due to release the new Technician class (Element 2) question pool to the 14 VECs on December 1, 2009; it will be released to the public in January 2010.

The current Technician question pool that became effective July 1, 2006 will expire June 30, 2010. The new Technician pool contains approximately 400 questions, from which 35 are selected for an Element 2 examination. This question pool will contain graphics and diagrams, something new for this element.

Each question pool for the three Amateur Radio license classes — Technician, General and Amateur Extra — is reviewed on a four-year rotation. The new question pool will become effective for all examinations administered on or after July 1, 2010, and it will remain valid until June 30, 2014.

The current General class question pool was effective July 1, 2007 and is valid through June 30, 2011. The current Amateur Extra class pool was effective July 1, 2008 and is valid until June 30, 2012.

Shows what a little effort can accomplish...



DICK (K1AHA) APPROVED IT

LIGHT INSTALLED



MARCEL (W1MLD) BOUGHT IT



DAVE (K1JGV) RAN THE CABLE



THE NEWLY INSTALLED MOTION-SENSOR LIGHT



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

VE SESSIONS

Walk-ins permitted unless otherwise noted.

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

SEMARA – 10:30AM	Dec 5th
Larry Houbre-AA1FS LRHguy@earthlink.net 508-991-6055	
Braintree, MA – 9:00AM	—
William Needham-K1WN K1WN@aol.com 781-845-4400	
Canton MA – 7:30PM	Dec 10th
Louis Harris-N1UEC N1UEC@n1uec.org 508-333-5714	
Cranston, RI – 9:00AM	—
Kenneth Carr-KB1AWV KB1AWV@yahoo.com 401-828-1665	
Falmouth, MA – 9:00AM	Dec 12th
W. Ben Fleck-K2LYE BenFleck@cape.com 508-540-2583	
Fall River, MA – 7:00PM	Dec 21st
Skip Denauly-KB1CNB skip@newtestamentschool.org 774-644-3469	
Middletown, RI – 9:00AM	Dec 12th
Jack Garforth-K1IG K1IG@verizon.net 401-683-2250	
Providence, RI – 7:00PM	Dec 10th
Louis Mester-W1CH W1CH@arrl.net 401-263-6045	
Slatersville, RI – 9:00AM	Dec 26th
Robert E. Jones-WB1P WB1P@arrl.net 401-333-4787	

COMING FLEAS & FESTS

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

None this month.

SOME CONTESTS

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

- Dec 4, 2200Z - Dec 6, 1600Z 1.8 ARRL 160 Meter Contest CW** www.arrl.org/contests
- Dec 5, 0000Z - 2400Z 1.8-28 TARA RTTY Mêlée RTTY** www.n2ty.org/seasons/tara_melee_rules.html
- Dec 5, 1600Z - Dec 6, 1800Z 3.5 Top Operators Activity Contest CW** www.procwclub.vo6ex.ro
- Dec 12, 0000Z - Dec 13, 2400Z 28 ARRL 10 Meter Contest SSB_CW** www.arrl.org/contests
- Dec 12, 0000Z - Dec 13, 2400Z 1.8-28 50 PSK Death Match PSK31** www.mdxa1.org/deathmatch.html
- Dec 13, 2100Z - 2259Z 14 Great Colorado Snowshoe Run CW** www.cqc.org/contests/snow2009.htm
- Dec 19, 0000Z - 2359Z 1.8-28 50,144 RAC Winter Contest SSB_CW** www.rac.ca
- Dec 19, 0001Z - Jan 3, 2359Z 1.8-28 50,144 Lighthouse Christmas Lights QSO Party SSB_CW** arlhs.com
- Dec 20, 2000Z - 2400Z 1.8-28 Holiday Spirits Homebrew Sprint CW** qrparci.org/contests
- Dec 26, 0830Z - 1100Z 3.5-7 DARC Christmas Contest SSB_CW** www.darc.de/referate/dx/fedcx.htm
- Dec 26, 1500Z - Dec 27, 1500Z 1.8 Stew Perry Top Band Distance Challenge CW** jzap.com/k7rat/stew.rules.txt
- Dec 27, 0000Z - 2400Z 14 070 Club QRP DX Scramble PSK31** www.podxs070.com
- Jan 1, 0000Z - 2400Z 3.5-28 50+ ARRL Straight-Key Night CW** www.arrl.org/contests

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
147.000+	67.0	W1AEC/4347/44347	Dartmouth
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 ²	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 ²	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 ³	Lincoln, RI
927.6250	131.8	W1EHT ³	Pembroke
927.6500	D031	W1SMA	Dartmouth
927.6750	D244	N3LEE	Cumberland, RI
927.6875	131.8	KA1DTA	Taunton
927.7125	131.8	KB1HTO ³	Norton
927.7625	67.0	KA1EZH	N Providence, RI
927.7759	D244	K1RJZ/4977 ¹	Boston
927.7875	127.3	N1SEC	N Attleboro
927.8250	131.8	N1JFU/4335 ^{1,3}	Hingham
927.8375	D031	†W1AEC/4347/44347	Dartmouth

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

ANSWER: HAMMIN' AROUND

What is a primary advantage of using a toroidal core instead of a solenoidal core in an inductor?
A. Toroidal cores contain most of the magnetic field within the core material

ANSWER: SUDOKU¹⁹

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