



ZERO BEAT

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



Since 1932

Volume 45 Issue 6

SEMARA-W1AEC

June 2009

ARRL Field Day 2009

JUNE 27-28, 2009

*“Where the spirit of “Amateur Radio Past” joins forces with the Next Generation of Innovations, Interests and Individuals!!!”**

“ARRL Field Day is the most popular on-the-air operating event in amateur radio. *On the fourth full weekend in June*, tens of thousands of amateur radio operators gather for a public demonstration of our service. Field Day is part educational event, part operating event, part public relations event – and ALL about FUN!

“Amateur radio is about knowledge and growth. It is a hobby and service that truly offers “something for everyone.” Amateur Radio embraces both the old and new. While CW may no longer be a testing element, it is still a strong and favorite operating mode for many. Tens of thousands of operators are embracing digital technologies, from RTTY



to newer digital modes like PSK31 and Olivia. Phone operation, probably the largest segment of the hobby, also has new frontiers to be explored with digitized voice, VOIP, and IRLP. And this is why Field Day – the largest annual on-the-air operating event – is so exciting. It gives all – the old timer and the newcomer, the brass-pounder and the computer assisted operator – the chance to share and teach the broad range of modes and technologies we find in our hobby.

“Field Day is truly the time in which we bring amateur radio to Main Street USA. By setting up in parking lots, malls, Emergency Operations Centers, parks and even at home, amateur operators learn skills that will allow them to better serve their communities. Setting up in these public venues gives added public relations value – their friends and neighbors can see and experience the fun and public service capability that their “ham radio” neighbors bring to the community.

“Join in the fun! For more information on amateur radio and the ARRL – the national organization for Amateur Radio.”

A new old idea?!

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* <http://www.arrl.org/contests/announcements/fd/>

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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>



That this has been another quiet month. The updated SEMARA Membership List has 335 names on it; 260 members were sent postcards. So far, we have received the \$10 assessment fee from 147 members; that goes a long way towards covering the \$3,000 allocated for regrading the grounds and preparing for the installation of a handicap ramp. We are hoping the grounds will be finished in a few weeks. As for the rest of the card recipients, let's hope they come through. We wouldn't want to have to sent them a dreaded "Wolff-hong!"

When a member is "in arrears" what can we do? At the least we should be able to cut them off from the free coffee and donuts! Suggestions? Come to the July 2, 2009 Business meeting to help us decide what to do.

On another tack, a comment about why I list *Some Contests* each issue. Did you ever notice that frequently the bands are dead only because of the lack of operators, not poor propagation? In fact, recent contests have shown that low sunspot numbers along with low magnetic disturbances do yield good DX and armchair QSOs. Back to the contest list — It may not be fair to the contester, but they do provide a ready supply of operators who *really* want to contact you. So, check out your equipment and antennas during a contest. Just be sure you know the correct protocol so you can *pay* the contester for providing you with an equipment check.

I often comment on the low level of use the club equipment seems to get. In fact I have stopped encouraging club members in participating in ARES/RACES drills from the clubhouse. The club has a first class station with the Kenwood TS-940 and a Sommers Log-Yagi antenna at 80-feet. But the finest station will not make contacts without someone to operate it.

Do you have some youngsters who might be interested in trying out ham radio? Well, if you check out the contest listing, there's **Kid's Day**: Jun 20, 1800Z - Jun 20, 2400Z, www.arrl.org/FandES/ead/kd-rules.html where you'll hear some 11-year old Extra class operators running the list.

Interested in upgrading this summer? I will be available to share some math tricks — what's a good time for you?

POINT TO PONDER

"Stand and silently watch the world go by—and it will."

~Anonymous

HAMMIN' AROUND

Question* G8B07 What is the frequency deviation for a 12.21-MHz reactance-modulated oscillator in a 5-kHz deviation, 146.52-MHz FM-phone transmitter?

- A. 101.75 Hz
- B. 416.7 Hz
- C. 5 kHz
- D. 60 kHz

* 2007 Element 3 General Class Question Pool (good thru 2011-06-30)

Answer on page 8

Club Notes

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 CW — **SEMARA CW Net** meets every Monday at 8:00 p.m. **Don, WA1BXY** is net control.



NEXT SEMARA VE SESSION

August 1, 2009
Clubhouse @ 10:30 AM
 Contact: Larry Houbre-AA1FS
LRHguy@earthlink.net
 508-991-6055

Here’s a challenging Sudoku puzzle to attack while waiting for the band to open. Letters used: **B, C, G, H, I, N, Q, S, and T**. The main diagonal spells a 9-letter word. **Solution is on page 8.**

S			C	B				
B	T						I	N
G	C			Q	T			H
		C	T	G	B	H		
T		H				N		S
		B	S	N	H	G		
Q			H	S			T	B
H	I						N	C
				I	N			G

SEMARA 900 MHZ FREQ. PAIR

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

W1AEC 900 MHZ REPEATER

A repeater and antenna have been acquired and donated to the club. Dave, W1DJG provided the out-of-pocket money to take advantage of the opportunity because the “time was right.”

Now is the time to get your own 900 MHz gear to take advantage of the W1AEC when it goes operational.

You can look forward to wide-area coverage since the repeater will be linked to cover most of south-eastern Massachusetts.

Cash donations may be made to Dave, W1DJG to offset the cost of the repeater. If you don’t catch him around the Clubhouse, just send it to him care of SEMARA-900 MHz Repeater, 54 Donald St., South Dartmouth, MA 02748.

~editor@semara.org

SEMARA VE SESSION RESULTS

June 6, 2009

We had one successful applicant:

Daniel L. Chase, KB1PFU

successfully passed the General class exam.

Welcome to the HF bands!

SEMARA HAMFEST

It’s official, the SEMARA Hamfest will be held on the second Sunday in September, the 13th.

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



June 4, 2009

Club President, Louis (W1CH) called the meeting to order at 7:04 PM with the salute to the flag. A moment of silence was observed for Arthur Valois (W1UID). Roll was called with 28 members present.

SECRETARY'S REPORT A motion was made and seconded to accept the Secretary's Report as printed in "ZERO BEAT." The members voted unanimously.

TREASURER'S REPORT The Treasurer Mike (KB1NB) reported that the balance for all accounts is \$12,689.09. Expenses for the month was \$4,154.00.

The Club is still in dispute with the Insurance Co. Mike (KB1NB) gave a rundown on the negotiations with the Insurance Co. and our Attorney. We were told that there are three things we can do, 1. Go to Court, 2. File for a Settlement and 3. a Summary Judgment. A motion was made and seconded to accept and turn over to be audited. The members voted unanimously.

REPORTS OF COMMITTEES

Buildings and Grounds Dave (K1JGV) reported that the final grading will take place soon and he could use some help. New lawnmower is now running well and ready to go. Again it would be nice if Dave and Marty could get some help.

Technical Committee Dave (W1DJG) reported that the 900 MHz repeater is in and the antenna will be going up soon. Al Costello will be installing in the near future. The antenna is new. Repeater was bench tested and is in excellent condition. This should be a good repeater. Dave (W1DJG) has donated the repeater to the Club and would accept donations.

Tim (N1TI) reported that he replaced the router and thanks to Armand (W1BUG) for donating the router. The scanner is now not connected to the 440 antenna because we were pulling in calls from distant stations including New York. We are now receiving local calls. A motion was made to accept the donation of the repeater from Dave (W1DJG) Seconded and voted unanimously.

SKYWARN Rob (KD1CY) reported that the test on Monday went well with the hurricane center and ARRL. Ed (KA1RSY) reported that the repeater in Taunton had problems during the drill and Rob (KD1CY) suggested using our repeater for the first Monday in July test.

Radio Bob (K1KVV) asked for suggestions to get more radio activities.

COMMUNICATIONS

There has been a good response to the mailing for the assessment and we received two resignations.

The database is being worked on and should be up to date soon.

NEW BUSINESS

Rob (KD1CY) proposed that we use our repeater (W1AEC) for the ARES test on the first Monday in July. A motion was made and seconded to approve. Voted unanimously.

Discussion was had on the way to go with the Insurance Co. litigation. Louis (W1CH) called for an emergency Board of Directors meeting and asked that all members leave until the BOD discussed and came to a decision.

EMERGENCY BOARD OF DIRECTORS MEETING

A discussion was held on the three methods of finalizing this issue. After discussion and deliberation the BOD all voted to go with a "Summary Judgment."

The members were asked to return to the meeting.

NEW BUSINESS (Continued)

The members were told of the decision of the BOD and there was a motion and was seconded to accept the BOD recommendation and go with the "Summary Judgment." This was voted unanimously.

GOOD OF THE CLUB

Tim (N1TI) announced that the Club will hold a Flea Market on September 13, 2009 a Sunday. Tim needs help setting up and cleanup also talk in and a few additional chores.

Adjournment A motion was 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 \$57.00
Winner was Marcel (W1MLD)

SEMARA News

I don't have a lot of SEMARA News. Therefore I have elected to share some topics that were originally published in the ARRL Club Newsletter that I subscribe to. Here goes.
~Bob, K1KVV-editor

EVERYONE CAN USE AN ELMER*

When we hear the term Elmer used in Amateur radio circles most of us will conjure up a scene reminiscent of a Norman Rockwell painting where a grandfatherly character patiently offers guidance to a youngster at a workbench.

If your club has a membership who came from the era when we dipped the plate and monitored grid current, then chances are that there are many opportunities for Elmering when it comes to the digital aspects of modern Amateur Radio.

No longer are radio controls right out in front. Extensive menus and multi-function controls are used to access the multitude of features and enhancements of modern transceivers.

Other standard features in the ham shack today include computer software for logging, awards tracking, rig control and, of course, Logbook of The World. All are areas in which many of us could use a tutorial to enhance the enjoyment of an already great hobby.

* ARRL Club Newsletter, May 28, 2009

TECH TALK IDEA

Perhaps we could have a Tech Talk with an emphasis on mentoring the not-so-new ham as well as the newer folks. How about a demonstration of the software programs on the SEMARA ham shack computer?

Do we have anyone who is conversant with using ARRL's Logbook of The World (LoTW)? We are fortunate enough to have an internet connection in the Clubhouse and could have a live demonstration.

The next best thing is to use the PowerPoint slide-show "LoTW Overview," which is available free along with many other programs, from the ARRL Multimedia Library < www.arrl.org/multimedia >

Who said we don't get anything from the ARRL? Don't forget to become a member. [I'm a Life Member so I make sure I get my money's worth!]

SEND A QSL CARD DIRECT*

Sometimes we find that the QSL bureau or Logbook of The World just doesn't cut it when it comes to getting that much sought after QSL card! Perhaps the country does not have a QSL bureau, or we may not want to wait for a card as it makes its slow journey through the QSL bureau system. For whatever reason, there are times when we may choose to go the direct route.

When sending a QSL direct you pay the postage for both directions. Hams have relied on "green stamps" (US Dollars) or the IRC (International Reply Coupon) [currently \$2.10] to cover the return postage. Because currency and IRCs can be stolen and possession of foreign currency in some countries is illegal, many hams use foreign postage stamps on a self addressed stamped envelope (SASE).

The SASE makes it easier for the DX operator because he does not have to exchange currency or use the coupon to purchase a stamp. He simply fills out the QSL card, puts in the envelope that you supplied and sticks it in the mail. Most of us who use this method have a 99.99% rate of return on QSL cards. Unlike currency or IRCs, a self addressed envelope stamped with postage of the recipient's country can only be used to send a card to you.

Acquiring foreign postage stamps is easy. There are several stamp dealers who specialize in foreign postage stamps. You may have a local dealer, but if not, here are two dealers with good track records. These folks are familiar with the needs of the DXing radio amateur and can supply mailer and nesting envelopes and other supplies.

* ARRL Club Newsletter, May 28, 2009

JAMES E. MACKEY, K3FN
PO BOX 270569
WEST HARTFORD, CT 06127
Phone: (860) 521-7254
k3fn@aol.com

WILLIAM J. PLUM
12 Glenn Road
Flemington, NJ 08822
Phone: (908) 788-1020
plumdx@msn.com



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

More SEMARA News

TIPS: SENDING A QSL DIRECT*

- Use shipping and nesting envelopes to avoid folding the inner return envelope. Bulging packages can get torn in processing equipment or are targets for dishonest postal workers.
- Print clearly when addressing envelopes.
- Do not use callsigns on shipping or return envelopes. Callsigns are triggers that something of value may be inside.
- Address the envelope using an appropriate title. (Mr., Mrs., Ms.)
- Include the name of the country in the addresses.
- Do not use US postage on return envelopes.
- Cutoff about a half inch of the lower right corner of the shipping envelope so that postal inspectors can easily look to see that there is nothing of value inside.
- When sending QSL cards to South and Central America and some parts of Asia it is a good idea to not seal the envelope at all but simply tuck the flap inside. By showing that there is nothing of value the envelope is less likely to be pilfered by dishonest postal workers.

* ARRL Club Newsletter, May 28, 2009

HOW TO SEND A QSL DIRECT*

1. First, be sure of the QSL route. The station which you want to QSL may have a QSL manager. (Someone who administers the QSL needs for a DX station) If the QSL manager is in the USA then simply send the QSL card with a SASE using domestic postage.

If the station uses a foreign QSL manager then you will need postage stamps for the country of the QSL manager.

Example: Cuban Amateur Radio operator CO8LY uses EA7ADH as his QSL manager. You will need stamps for the country of Spain, not Cuba to get your QSL returned.

2. Fill out your QSL card completely.
3. Address the mailer envelope to the DX station. (Don't forget your return address.) *Do not use callsigns.*
4. Place a US air mail stamp to this envelope.
5. Address the return envelope to yourself. *Do not use callsigns.*
6. Place the foreign postage stamps on this envelope.

7. Fold the flap on the return envelope over the front side of the envelope and place the QSL card under the flap so that the glue is not touching the card. **DO NOT SEAL THIS ENVELOPE.**
8. Tuck the envelope and card inside the mailer. Seal the mailer or tuck the flap inside securing the inner envelope and QSL card under the flap. Make sure to place the opening of the SASE down in the outside envelope, so that a letter opener won't slice open the SASE when the outer envelope is opened (surprising how often this happens.) Now the envelope is ready to mail.

In addition to the ARRL Outgoing QSL bureau and Logbook of The World, direct QSLing is one more tool for a DXer to get the confirmation needed to earn awards. Good luck and good DX.

* ARRL Club Newsletter, May 28, 2009

MUSEUM SHIPS WEEKEND 2009 JUNE 6 - 7, 2009

sponsored by
**The Battleship New Jersey
Amateur Radio Station**

0000Z June 6 – 2359Z June 7

Active locations in Massachusetts were

- *Watson Museum*, Braintree, **K1USN**
- *USS Cassin Young*, Destroyer, Boston, **WW2DD**

Too bad the *USS Massachusetts*, Fall River wasn't on this list. Anyone have any connections that might allow an activation next year?

Share your ideas with the rest of us through the club reflector discussion@semara.org.

~ Bob, K1KVV - editor



CLUB PROJECTS?

What do you think would make a good club project? Lots of radio clubs have projects that are done at one or more meetings in the clubhouse. For example, a J-pole or co-axial antenna for your favorite band (10, 6, 2, or ...). Want something to do with the new 900 MHz repeater? How about a Foxhunt accessory? Any kind of project is possible — even how to attach coax connectors to coax and get a really good RF connection and a weatherproof seal.

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
 508-991-6055

Canton MA – 7:30PM **Jun 18th**

Louis Harris-N1UEC
N1UEC@n1uec.org
 508-333-5714

Cranston, RI – 9:00AM **Jun 27th**

Kenneth Carr-KB1AWV
KB1AWV@yahoo.com
 401-828-1665

Falmouth, MA – 9:00AM **Jul 11th**

W. Ben Fleck-K2LYE
BenFleck@cape.com
 508-540-2583

Fall River, MA – 7:00PM **Jun 15th**

Skip Denauly-KB1CNB
skip@newtestamentschool.org
 774-644-3469

Plymouth, MA – 1:00PM **Jun 27th**

Russell Appleyard-WA2MHY
RussellAppleyard@gmail.com
 508-746-9246

Providence, RI – 7:00PM **Jul 9th**

Louis Mester-W1CH
W1CH@arrl.net
 401-263-6045

COMING FLEAS & FESTS

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

20 Jun NARLFEST **Newington, CT**
 Newington ARL Mary—860-594-0397

21 Jun Flea @ MIT **Cambridge, MA**
 Nick—617-253-3776

19 Jul Flea @ MIT **Cambridge, MA**
 Nick—617-253-3776

25 Jul Yankee Peddler Hamfest
North Haven, CT
 B&B Hamsters John—203-440-4468

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

* Call first on repeater to see who's coming

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.

SOME CONTESTS

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

Jun 20, 0000Z - Jun 21, 2359Z **50 SMIRK QSO Party**
 Phone-CW www.smirk.org

Jun 20, 1600Z - 21, 0200Z **3.5-28 West Virginia QSO Party**
 Phone-CW www.qsl.net/wvsarc

Jun 20, 1800Z - Jun 20, 2400Z **3.5-28 Kid's Day** Phone
www.arrl.org/FandES/ead/kd-rules.html

Jun 27, 1200Z - Jun 28, 1200Z **1.8-28 His Majesty King of Spain** Phone
www.ure.es

Jun 27, 1800Z - Jun 28, 2100Z **1.8-28 50+ ARRL Field Day**
 Phone-CW-Digital www.arrl.org/contests

Jul 1, 0000Z - Jul 1, 2359Z **1.8-28 50-144 Canada Day Contest**
 Phone-CW www.rac.ca/service/contesting

Jul 4, 8 PM - Jul 5, 2 AM **7 070 Club Firecracker**
 PSK31 Sprint Digital www.podxs070.com

Jul 4, 1100Z - Jul 5, 1059Z **3.5-28 DX RTTY Contest**
 Digital www.dreg.de

Jul 5, 1100Z - Jul 5, 1700Z **28 DARC 10-Meter Digital**
 Corona Digital www.darc.de/ukw-funksport

Jul 10, 2000 EDT - Jul 10, 2400 EDT **3.5-28 FISTS Summer Sprint**
 CW www.fists.org

Jul 11, 1200Z - Jul 12, 1200Z **HF IARU 3.5-28 World Championship**
 Phone-CW www.arrl.org/contest

Jul 12, 2000Z - Jul 12, 2400Z **1.8-28 QRP ARCI Summer Hombrew**
 CW www.qrparci.org

Jul 18, 0700Z - Jul 18, 1459Z **7-28 Russian Radio Team Championship**
 Phone-CW www.srr.ru/CONTEST/

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
145.370 -	67.0	N1JBC	Coventry, RI
145.450 -	100.0	W1SYE	Portsmouth, RI
145.490 -	67.01	W1SMA/4617/4611	Fairhaven
146.655 -	88.5	WA1GPO	Falmouth
146.685 -	82.5	N1ZIZ	Plymouth
146.700 -		K1CR	Cranston, RI
146.730 -	67.0	W1SGL	E Sandwich
146.760 -		W1HQV	Scituate, RI
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
147.180+	67.0	W1MV/—/64231	Bridgewater
147.195+	127.3	K1SMH	Attleboro
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	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
224.320 -	118.8	W1ZSA	Walpole
224.400 -	103.5	NIKUG /4133/94940	Quincy
224.560 -	100.0	KA1NXS	Exeter, RI
224.620 -	88.5	N1TVZ	Attleboro
224.660 -		W1KG	Medway
224.760 -		KA1SOO	W Warwick, RI
224.920 -	67.0	N1JBC	N Prov., RI
224.960 -	88.5	W1VET	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	E Prov., RI
442.550+	67.0	WG1U	Assonet
443.150+	94.8	K1CW	Bristol, RI
444.350+	88.5	W1ACT	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 (-12MHz)		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 ¹	Marshfield
927.4875	131.8	N1UEC/4486 ¹	Wrentham
927.5750	D031	N1UMJ	Rehoboth
927.6125	131.8	KA1RCI ^{2 3}	Lincoln, RI
927.6250	131.8	W1EHT ³	Pembroke
927.6500	D031	W1SMA	Dartmouth
927.6875	131.8	KA1DTA	Taunton
927.7125	131.8	KB1HTO ³	Norton
927.7625	67.0	KA1EZH	N. Prov., RI
927.7875	127.3	N1SEC	N. Attleborough
927.8250	131.8	N1JFU ³	Hingham
927.8625	D031	NN1D/4004	Fall River

¹ NEAR-900 Net ² OFF ³ Transmits 100.0 Hz tone

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

ANSWER: HAMMIN' AROUND

What is the frequency deviation for a 12.21-MHz reactance-modulated oscillator in a 5-kHz deviation, 146.52-MHz FM-phone transmitter? B. 416.7 Hz. Remember that all frequencies are multiplied by the same factor, in this case by 12. So, 5000 Hz / 12 = 416.66 Hz.

ANSWER: SUDOKU

Word: STITCHING

G	H	S	N	I	Q	T	B	C
C	N	Q	G	T	B	S	I	H
B	T	I	C	S	H	G	N	Q
T	C	G	H	N	S	B	Q	I
S	B	N	Q	C	I	H	G	T
I	Q	H	B	G	T	C	S	N
H	S	B	T	Q	N	I	C	G
N	I	C	S	H	G	Q	T	B
Q	G	T	I	B	C	N	H	S