



# ZERO BEAT

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



Since 1932

Volume 47 Issue 9

SEMARA-W1AEC

September 2011

## Hurricane / Tropical Storm Irene



REPEATER TOWER



EMPTY 85-FT TOWER



BATTERY "DOG HOUSE"



SEMARA CLUBHOUSE

**This** is what I saw on August 31, after the storm had past. The repeater tower looked good. Everything on the tower and the grounds looked to be in good condition, no evident signs of Irene.

For me, Irene turned out to be a long, strong wind storm with significant gusts. It was accompanied by a little rain. My guess is the wind strength was around 50 mph steady with 60-70 mph gusts. The big thing was the duration. The storm seemed to last forever.

**Rick (W1RJC)** reported at 12:38 pm Sunday that 147.000 repeater was off the air after the backup battery failed about 3 hours into the power outage. I lost power in Mattapoisett just before 2 pm on Sunday.

**Ben (N1WBV)** emailed that "147.000 has resumed operation as of 15:43 Sun. He heard the IRLP and Echolink nodes kick back on and was able to bring it up with his HT from his basement."

**Rick (W1RJC)** relayed at 16:08 Sun., "**Marcel (W1MJD)** just informed me that a generator was delivered by **Tony (NN1D)** to power 147.000 and the Dartmouth PD/FD systems. Power is still out."

**Dave (W1DJG)**, Mon. 8:37: "We have gell cell batteries in the container I had brought down and put into use in the dog house. We can hook these up the extra ones BUT they will need to be charged."

Irene seemed to be still going strong when I checked at 2 am Monday morning. I got my power back for good 22:55 Monday evening.

*This was not the kind of emergency experience I had expected!*

*~Bob (K1KVV)*

**ZERO BEAT**

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**2011 SEMARA OFFICERS**

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 Brad Paiva—W1BEP  
 John Walsh—WA1LSH

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 John Walsh—WA1LSH (2013)  
 Louis Mester—W1CH (2014)  
 Joe Krisnowsky—N1IXC (2015)

**STANDING COMMITTEES**

*Building and Grounds*  
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 Marty Jordan—KA1YFV  
  
*Scholarship*  
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 Chuck Moszczenski—KB1FRL  
 Alan Dulong—WB1FQP  
 Joe Krisnowsky—N1IXC

*Technical/Repeater/Website*

Dave Goldstein—W1DJG: Technical  
 Rick Cabral—W1RJC: Repeater  
 Rick Cabral—W1RJC: Website  
 Ben Jackson—N1WBV: facebook

**SPECIAL COMMITTEES**

*Activities*  
 VACANT  
  
*ARES/SKYWARN/RACES*  
 Rob Macedo—KD1CY  
  
*QSL Manager*  
 John Nery—WA1ESO  
  
*Radio Events*  
 Bob Kelley—K1KVV  
*Tech Talk*  
 Brad Paiva—W1BEP

**It seems to me ...**

de Bob - K1KVV <[editor \[at\] semara \[dot\] org](mailto:editor[at]semara[dot]org)>



**that** we can have fun playing radio. On the other hand, Irene opened my eyes to other aspects of the hobby. Perhaps we could have a review session to see what we collectively learned from Irene—am I the only one who had a learning experience?

This just another example of why we need to act like a radio club and get together for technical talks *every* third Thursday of the month. There are so many things going on in the hobby that I can't believe there is nothing to talk about on any give Thursday evening.

My standing offer is still on the table, I can talk—after all, I was paid to do that for more than four decades. Do I need to simply announce that I'm going to show up and talk on such and such a topic? OK, unless you have a better idea, I'll be glad to run a 'post-mortum' on our Irene experiences on Thursday, September 15 at 7:00 pm—unless a previously scheduled Tech Talk materializes.

[Let me know ahead of time and I can order pizza at \$1 per slice, BYOB if you want other than what the club has to drink.]

**Free CRAM Session**

The material for the Amateur Extra license exam for 2008-2012 is available at the link below. The package facilitates an 8-hour "in-person" CRAM session.

- If you are a General licensee who is having trouble passing the Extra exam, consider trying out this CRAM session to help yourself over the hump.

Amateur Extra Class CRAM package:

[http://www.nc4fb.org/wordpress/?page\\_id=2905](http://www.nc4fb.org/wordpress/?page_id=2905)

- A free self-study program for the Amateur Extra license is available at the link below.

Amateur Extra Class self-study program:

[http://www.nc4fb.org/wordpress/?page\\_id=1619](http://www.nc4fb.org/wordpress/?page_id=1619)

73, Fred-NC4FB  
<http://nc4fb.org>

**POINT TO PONDER**

**“By all these lovely tokens September days are here,  
 With summer’s best of weather and autumn’s best of cheer.”**

**~Helen Hunt Jackson,  
 September, 1830-1885**

**HAMMIN' AROUND**

**Question\* G1B12** Who or what determines “good engineering and good amateur practice” as applied to the operation of an amateur station in all respects not covered by the Part 97 rules?

- A. The FCC
- B. The Control Operator
- C. The IEEE
- D. The ITU

\* 2015 Element 3 General Class Question Pool (good thru 2015-06-30)

Answer on page 8.

# Club Notes

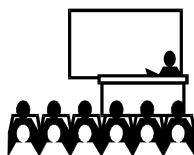
*September* is the month when things ARE going to happen at SEMARA.

Look at our website for the latest postings: <http://semara.org>.

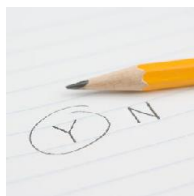


**Tech Talks:** Volunteer to give a Tech Talk yourself. Let's make a habit of it. Keep every third Thursday of the month open for this 7:00 PM event!

**Brad, W1BEP** is now in charge. Let him know what topics you are interested in.



**VE Session - August 6** attracted no examinees. Let's try to encourage more hams to upgrade and non-hams to become hams! When's the next upgrade classes? [**Tony (NN1D)** is offering a Tech class in Oct.]



**BBQ Chicken Dinner - Sept. 10:**

**Scott (W1EV)** will be putting on his famous *BBQ Chicken* Dinner on Saturday, September 10, 2011, 12 noon at the SEMARA clubhouse. Tickets are \$8.00 and are now available from **Joe (N1IXC)**, **Marcel (W1MLD)** or **Armand (W1BUG)**.



Tickets may also be purchased at the clubhouse any Sunday morning in August. To maintain comfortable seating, 50 tickets are being offered on a first come first serve basis. All tickets must be sold and paid for by September 1, 2011. Attendees are encouraged to bring a dessert.



**NEXT SEMARA VE SESSION**

October 1, 2011

Clubhouse @ 10:30 AM

Contact: Larry Houbre-AA1FS

<[exams \[at\] semara \[dot\] org](mailto:exams@semara.org)>

508-991-6055



**Club Numbers**

GPS Coordinates:

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

Maidenhead Grid Coordinates: **FN41mo**

For FISTS Sprints: FISTS #10555

**LOCAL NETS**

Everyone is welcome to check in!

**147.000+ (PL 67.0 Hz) (FM) — Massachusetts RACES Drill (Region 2, Sector A)** is held on the *first Monday* of the month at 7:30 PM.

**50.200 MHz (USB) — Net** is held *Wednesdays* at 8:30 PM. **Dick, K1AHA (Dartmouth)** is net control.

**28.490 MHz (USB) — Net** is held *Tuesdays* at 8:30 PM. **Dick, K1AHA (Dartmouth)** is net control.

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

**LOCAL REPEATER DIRECTORIES**

See <http://www.nerepeaters.com/se.htm>

144 (<http://www.nerepeaters.com/2m.htm>)

222 (<http://www.nerepeaters.com/222.htm>)

440 (<http://www.nerepeaters.com/440.htm>)

902 (<http://www.nerepeaters.com/902.htm>)

**Sudoku**

*Here* is an easy Sudoku puzzle to solve while waiting for the net to start. (Solution on p. 8.)

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

# Official Meeting Minutes



**August 4, 2011**

The meeting was called to order at 7:10 p.m. by the President, **Marcel (W1MLD)** with the salute to the flag. Roll was called with 20 members and 0 guests present.

## SECRETARY'S REPORT

A motion was made, seconded and unanimously voted to dispense with reading the report and accept as posted on the board and in *Zero Beat*.

## TREASURER'S REPORT

The Treasurer, **Mike (KB1NB)** reported that expenses for the past month were approximately \$4600.00 (equipment) and \$1400.00 (taxes). Current balance on hand is \$30,959.00. A motion was made, seconded and unanimously voted to refer the report to audit.

## STANDING COMMITTEES

### Technical

There was some discussion brought from the floor regarding removal of passwords on the computer. It was decided to continue discussion under New Business.

**Marcel (W1MLD)** stated that he spoke with **Dave (W1DJG)** about the log periodic antenna. In the near future volunteers will get together to complete repairs and install the rotor so the antenna can be placed back on the tower.

There was also some discussion on the floor regarding repair of the Drake radio. The estimate for repair is approximately \$200.00.

## SPECIAL COMMITTEES

### ARES, RACES, SKYWARN

**Joe (N1IXC)** reported that there will be a hurricane awareness drill on Monday, August 8 at 7:00 p.m. It will simulate hurricane "Hannah" and is expected to last approximately 1 ½ hours.

### Activities

**Marcel (W1MLD)** mentioned that **Armand (W1BUG)** had presented some pricing from a Mattapoisett caterer to host an event. After some discussion, it was decided that **Joe (N1IXC)** would call to get more information on menus and pricing.

### Radio Events

**Bob (K1KVV)** received a certificate of participation from the recent 13 Colonies event. Of the total 386 contacts, 105 were CW and the balance was SSB.

### Repeater

**Rick (W1RJG)** reported that the underground cable running the 900 MHz repeater network was damaged in

last year's lightning strike and drops the link every few days. He purchased a new internet switch to split the other line to run both links. Also, he will soon separate the 220 MHz repeater from the 900 MHz, once the new switch is installed. There has been some interest in linking the 220 MHz repeater with others in the Cape. **Tony (NN1D)** will look at the 2 meter repeater to diagnose its reduced output soon. All other equipment was reported to be working well.

### Website

**Rick (W1RJG)** reported that the member login section has been removed and, overall, the website has been simplified and is working well. There was some discussion about the current webcam being password protected.

## OLD BUSINESS

**Eric (N1WCO)** volunteered to chair a Flea Market on Sunday, September 11, 2011. A motion was made, seconded and unanimously passed to accept Eric's offer.

**Marcel (W1MLD)** stated that the light approved at the last meeting was installed on the utility pole across the street and is working well. He also reported that the camera security system approved in July is to be installed August 5, as specified. Some discussion from the floor followed regarding cameras, alarms and other security measures. Also discussed was ARRL equipment insurance.

## NEW BUSINESS

A motion was made from the floor to require a committee to review and evaluate any motion for purchase exceeding \$500.00. This motion was seconded and discussion followed. A vote was taken and the motion failed.

**Andy (WA1FNM)** brought up the fact that the last VE session was cancelled and normal monthly sessions were reduced to bi-monthly. Last month a candidate was turned away as he was not aware the VE session had been cancelled. Discussion followed and it was mentioned that the VE sessions were held at SEMARA, but not run by them. It was decided that SEMARA members would look into sponsoring our own VE sessions. It was also noted that **Tony (NN1D)** will be giving a Technician licensing class in October.

A motion was made from the floor to remove the password from one computer in the building so members can use, possibly using a firewall to restrict cer-

*(Continued on page 5)*

# SEMARA News

(Minutes continued from page 4)

tain sites. This motion was seconded and passed by a majority vote.

A motion was made, seconded and unanimously approved to sponsor a Flea Market on Sunday, September 11, 2011 and appoint Eric (N1WCO) Chairman.

A motion was made to purchase a controller for the 220 repeater for an amount not to exceed \$500.00. After some discussion this motion was seconded and passed by a majority vote.

A motion was then made to purchase, for the amount of \$100.00, an IRLP node for the 220 repeater. This motion was seconded and passed by a majority vote.

## ADJOURN

A motion was made, seconded and unanimously voted to adjourn the meeting at 8:40 p.m.

Respectfully Submitted,

**Marc M. Dumont (KB1ODE), Secretary**

The **50/50 raffle** was won by **Marcel (W1MLD)**. The split was \$17.00/\$17.00

## Official Observers Team with FCC\*

On July 15, **Walt Bilous, K3DQB** - an Official Observer (OO) in the Eastern Pennsylvania Section - notified ARRL Headquarters of a keyer continuously sending a series of dits on 18.0855 MHz. **K3DQB** kept hearing the dits throughout the night. He alerted other OOs to monitor the frequency. The signal was proving hard to locate via direction finding due to changing propagation and fading conditions on the band. OOs across the country monitored and collected additional information including bearings and signal strength reports.

On Monday evening, July 18, the FCC indicated that the dits were originating in California. On Tuesday, the FCC had pinpointed the exact location of the dits. They visited the radio amateur's home, found the cause and the transmitter was immediately shut off.

According to the FCC, an amateur in Northern California had unintentionally left his keyboard too close to his keyer paddle, and the paddle somehow got pushed against the keyboard, making it send continuous dits.

\* ARRL New Release 07/26/2011



## Tactical & FCC Callsigns\*

We frequently use "*tactical callsigns*" when conducting Public Service or Emergency Communications. The use of tactical callsigns (e.g., Net Control, Checkpoint 7, etc.) helps clarify the function of individual stations.

HOWEVER, the station operator MUST still follow all FCC rules when operating. Your Amateur callsign MUST be used at the end of an exchange or at least *every ten minutes* to satisfy FCC regulation 97.119.

This requirement is easily satisfied by terminating an exchange with your tactical callsign plus your FCC-assigned Amateur callsign. For example, the NCS might end an exchange with "Checkpoint 7, this is Net Control, roger message, N1CLV."

Failure to appropriately identify your station using your assigned FCC callsign makes you subject to enforcement action by the FCC. In addition, *repeater control operators have a responsibility to ensure their repeaters are used properly.*

You could be banned from using a repeater by the control op and/or repeater owner for not using your FCC-assigned callsign in accordance with FCC rules.

Please ensure you are identifying your station properly by using your FCC-assigned callsign!!

73, Wayne N1CLV

\*SEC CT ARES

## ARRL EmComm Training Courses

[Introduction to Emergency Communication- Course EC-001](#)—The course is designed to provide basic knowledge and tools for any emergency communications volunteer. The course has 29 lesson topics. It has required student activities, a 35-question final assessment and is expected to take approximately 45 hours, over a 9-week period. You may work at your own pace; but be sure you complete all the required material in the allotted time. *Prerequisites* include the two free mini-courses at <http://training.fema.gov/IS/NIMS.asp>: [ICS-100 \(IS-100.b\)](#) (Introduction to the Incident Command System); and [IS-700](#) (National Incident Management System). Recommended, but not required, are: [IS-250](#), Emergency Support Function 15 (ESF15) External Affairs; and [IS-288](#), The Role of Voluntary Agencies in Emergency Management. This is a mentored course. You will be assigned an experienced radio amateur to answer any questions you have about the course. Student and Mentor Expectations are included at [www.arrl.org/policies-for-online-courses](http://www.arrl.org/policies-for-online-courses). To register for the course, go to [www.arrl.org/online-course-registration](http://www.arrl.org/online-course-registration). The cost is \$50 for ARRL members, and \$85 for non-members.

# Operating Hints\*

## HF Beacons-A great tool for HF DXers

by Carl Bredberg, K1KID

Most folks unfamiliar with HF beacons will dismiss operating on a band that appears to have no activity, and move on to the next lower HF band looking for better conditions. What if the band was really wide open and everyone monitoring moves on, with out so much as a single CQ, because they hear no activity either?

Strange as it might seem, and based on my personal experience as well, this happens quite frequently. Of course no one wants to waste a lot of time CQing a dead band either, but there is a solution.

The "Northern California DX Foundation" has distributed 18 transmitters all around the world, on every continent and places in between. They are synchronized to operate one after the other in sequence, each on the same frequency in each band. Each transmitter transmits precisely on **14.100, 18.110, 21.150, 24.930, and 28.200 MHz** in rotation.

On any given band, all 18 beacons will have transmitted their ID in CW at 22 wpm within a 3 minute period. After a beacon IDs, it transmits 4 long dashes, the first at **100** watts, next is **10** watts, then **1** watt and last is **100** milliwatts. So it is possible to determine if a band is open and how good the opening is, all in a 3 minute period. Now that's great stuff!

If you are not a CW type, not to worry. IDing the beacons can be done with your PC. There is software available that knows when a beacon should be transmitting and will highlight that beacon on a map. You need to synchronize your PC clock to WWV to get accurate time correlation for the beacon ID program. Time synchronization programs are available free on the website mentioned below.

See <<http://www.ncdxf.org/beacons.html>> for beacon frequencies under the "Beacon Status" tab on their web site. The software to ID the beacons, if you need it, can be downloaded from locations listed under the "Tools for Listeners" tab on the same web page.

I hope this is a help to all you DXers out there. Even if you don't chase DX, this is fascinating stuff. Give the beacons a listen, I think you will be fascinated too.



BEACON LOCATION MAP

### NCDXF/IARU Beacon Locations

Call	Location	Latitude	Longitude	Grid Sq
4U1UN	US United Nations, New York City	40° 45' N	73° 58' W	FN30AS
VE8AT	Canada Eureka, Nunavut	79° 59' N	85° 57' W	EQ79AX
W6WX	US Mt. Umunhum, CA	37° 09' N	121° 54' W	CM97BD
KH6WO	US Laie, Hawaii	21° 38' N	157° 55' W	BL11AP
ZL6B	New Zealand Masterton	41° 03' S	175° 36' E	RE78TW
VK6RBP	Australia Rolystone	32° 06' S	116° 03' E	OF87AV
JA2IGY	Japan Mt. Asama	34° 27' N	136° 47' E	PM84JK
RR90	Russia Novosibirsk	54° 59' N	82° 54' E	NO14KX
VR2B	Hong Kong Hong Kong	22° 16' N	114° 09' E	OL72BG
4S7B	Sri Lanka Colombo	6° 54' N	79° 52' E	MJ96
ZS6DN	South Africa Pretoria	25° 54' S	28° 16' E	KG44DC
5Z4B	Kenya Kiambu	1° 01' S	37° 03' E	KI88MX
4X6TU	Israel Tel Aviv	32° 03' N	34° 46' E	KM72JB
OH2B	Finland Karkkila	60° 32' N	24° 06' E	KP20BM
CS3B	Madeira Santo da Serra	32° 43' N	16° 48' W	IM12OR
LU4AA	Argentina Buenos Aires	34° 37' S	58° 21' W	GF05TJ
OA4B	Peru Lima	12° 04' S	76° 57' W	FH17MW
YV5B	Venezuela Caracas	10° 25' N	66° 51' W	FK60NJ

### Current Beacon Status

VE8AT	OFF
W6WX	Power levels do not step
KH6WO	OFF on 18 and 24 MHz bands
JA2IGY	OFF
RR90	Intermittent, callsign sometimes garbled
OH2B	OFF
LU4AA	Callsign sometimes garbled
OA2B	OFF

\* Originally published as *ZERO BEAT*, Vol 40, Issue 1, January 2004, p. 6

# More Semara News

Official Newsletter of the SOUTHEASTERN MASSACHUSETTS AMATEUR RADIO ASSOCIATION, INC.

# FLEAMARKET 2011



Sunday, September 11, 2011  
8 AM to Noon - Rain or Shine

## \$5.00 GENERAL ADMISSION

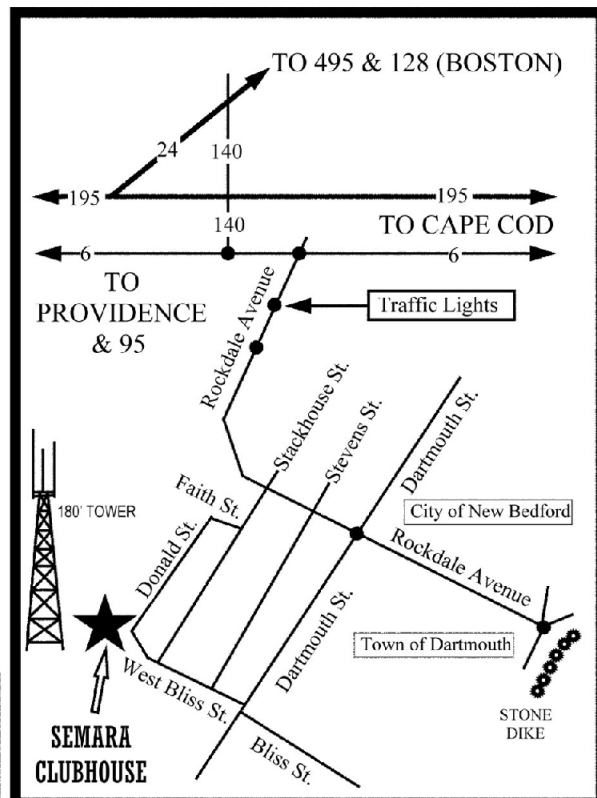
30+ YEARS OF FLEAMARKETS!  
(Seller Setup starts at 7 AM)

Admission For Sellers: \$10.00

Talk-in on the W1AEC  
Dartmouth 2-Meter Repeater  
→ 147.000 + PL 67.0 ←

54 Donald Street  
Dartmouth, MA 02748

Need more information? Go to [SEMARA.ORG](http://SEMARA.ORG)  
Or call Eric Pierce, N1WCO at (508) 295-2468  
or email: n1wco [at] yahoo [dot] com



**Some Contests**

<http://www.arrl.org/contest-calendar>

**Phone/CW/Digital modes**

- Sep 3, 1200Z - Sep 4, 0400Z 1.8-28  
**Colorado QSO Party** [www.ppraa.org/coqp](http://www.ppraa.org/coqp)
- Sep 3, 1800Z - Sep 4, 1800Z 1.8-28 50+  
**QCWA Fall QSO Party**  
[www.qcwa.org/qso-party.htm](http://www.qcwa.org/qso-party.htm)
- Sep 4, 1800Z - Sep 5, 0300Z 1.8-28 50+  
**Tennessee QSO Party** [www.tnqp.org](http://www.tnqp.org)
- Sep 10, 1500Z - Sep 11, 2400Z 1.8-28 144  
**Arkansas QSO Party** [www.arkanhams.org](http://www.arkanhams.org)
- Sep 10, 1600Z - Sep 10, 2400Z 1.8-28 50 144  
**Ohio State Parks on/Air** [parks.portcars.org](http://parks.portcars.org)
- Sep 17, 0000Z - Sep 17, 2359Z 1.8-28  
**Connecticut QSO Party**  
[www.ctqp.org/2011.html](http://www.ctqp.org/2011.html)
- Sep 17, 1300Z - Sep 18, 2100Z 1.8-28 50+  
**South Carolina QSO Party**  
[w4cae.org/scqp/scqsoweb.html](http://w4cae.org/scqp/scqsoweb.html)

**VHF/UHF+ All\_Modes**

- Sep 10, 1800Z - Sep 12, 0259Z 50+  
**ARRL September VHF QSO Party**  
[arrl.org/contests](http://arrl.org/contests)
- Sep 17, 6 AM - Sep 18, 12 Mid 10G+  
**ARRL 10 GHz Cumulative Contest**  
[arrl.org/contests](http://arrl.org/contests)
- Sep 19, 7 PM - Sep 19, 11 PM 144  
**Fall VHF Sprint** [svhfs.org](http://svhfs.org)
- Sep 24, 0000Z - Sep 25, 2400Z 2.3G+  
**ARRL EME Contest** [arrl.org/contests](http://arrl.org/contests)
- Sep 27, 7 PM - Sep 27, 11 PM 222+  
**ARRL VHF Sprint** [arrl.org/contests](http://arrl.org/contests)

**Answer: Sudoku** <sup>01</sup>

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

**VE Sessions**

*Walk-ins permitted unless otherwise noted.*  
<http://www.arrl.org/find-an-amateur-radio-license-exam-session>

- SEMARA – 10:30 AM** **October 1<sup>st</sup>**  
 Larry Houbre-AA1FS  
[<exams \[at\] semara \[dot\] org>](mailto:exams@semara.org)  
 508-991-6055
- Fall River, MA – 7:00 PM** **September 19<sup>th</sup>**  
 Skip Denault-KB1CNB  
[<skip \[at\] newtestamentschool \[dot\] org>](mailto:skip@newtestamentschool.org)  
 774-644-3469
- Falmouth, MA – 9:00 AM** **September 10<sup>th</sup>**  
 W. Ben Fleck-K2LYE  
[<BenFleck \[at\] cape \[dot\] com>](mailto:BenFleck@cape.com)  
 508-540-2583
- Providence, RI – 7:00 PM** **September 8<sup>th</sup>**  
 Louis Mester-W1CH  
[<W1CH \[at\] arrl \[dot\] net>](mailto:W1CH@arrl.net)  
 401-263-6045

**Coming FLEAS & FESTS**

[www.arrl.org/hamfests/search](http://www.arrl.org/hamfests/search)

- Sep. 9 **2011 QCWA Convention** Warwick, RI  
<http://qcwa.org>
- Sep. 11 **SEMARA Tailgate** S. Dartmouth, MA  
[semara.org/files/stories/2011-98-06.pdf](http://semara.org/files/stories/2011-98-06.pdf)
- Sep. 17 **76 Fleamarket** Slatersville, RI  
[www.sql.net/riafmrs/Auction.html](http://www.sql.net/riafmrs/Auction.html)
- Sep.18 **Flea @ MIT** Cambridge,MA  
[www.swapfest.us](http://www.swapfest.us)

**Answer: HAMMIN' AROUND**

Who or what determines "good engineering and good amateur practice" as applied to the operation of an amateur station in all respects not covered by the Part 97 rules?  
 A. The FCC determines what "good engineering and good amateur practice" is.

**CLUB ACTIVITIES**

**BUSINESS MEETING**

7 PM First **THURSDAY** of the month

**SUNDAY RAGCHEW**

7-10 AM

**MOST-OF-THE-TIME** (call ahead)

Meet at the clubhouse at 11:00 AM **FRIDAYS**

Leave for **LUNCHEON** at 11:30 AM