



# ZERO BEAT

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



Since 1932

Volume 49 Issue 9

SEMARA-W1AEC

September 2013

## Come Over UHF Rover



### At Bay Path HS, Charlton, MA, FN42

The van carries a 4-element Cushcraft yagi for 144 MHz and an 13-element M-squared yagi for 432 MHz. The larger tripod carries the 10 GHz rig. The smaller tripod has the 903 MHz rig. Rigs for other bands lie on the ground waiting to be mounted on a tripod. The view is to the southeast, toward the New Bedford area.

A modified 11 GHz commercial rig made by Microwave Associates. I've added various additional surplus, homebrew, and other components over the years, with a mess of semi-rigid coax and wiring to interconnect everything. The rig outputs 1 W to a 2-ft dish, for 2 kW ERP. Note both a microphone and a straight key on the 2-m IF rig. CW is used often by microwavers.



### The business end of the 10 GHz rover rig.

The tripod is an old surveyor's tripod. The dish is 2-ft diameter with a shepherd's crook wave-guide feed. The rig on the small tripod is a Yaesu FT-290 2-meter multimode rig, which serves as the "IF".

### The 10 GHz rig



### A simple rig for 1296 MHz rover use.

The small aluminum box on the taller tripod contains a Down East Microwave transverter, feeding a 13-element M-squared yagi. The smaller tripod holds the Yaesu FT-290 2-meter IF rig.



Rich-W2RG's discussion is found starting at page 5.

**ZERO BEAT**

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## 2013 SEMARA OFFICERS

President

Marcel Dumont—W1MLD

Vice President

Joe Krisnowsky—N1IXC

Secretary

Marc Dumont—KB1ODE

Treasurer

Mike McDonald—KB1NB

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Directors:

Andy Reuter—WA1FNM

Dave Dean—K1JGV

Eric Pierce—N1WCO

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Trustees: (year term is up)

John Walsh—WA1LSH (2013) (ch)

Louis Mester—W1CH (2014)

Joe Krisnowsky—N1IXC (2015)

Dick Halliwell—K1AHA (2016)

Brad Paiva—W1BEP (2017)

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## STANDING COMMITTEES

Building and Grounds

Marty Jordan—KA1YFV

Tony Lessa—KB1UAM

Scholarship

Sonny Eddleston—K1USW – chair

Chuck Moszczanski—KB1FRL

Alan Dulong—WB1FQP

Joe Krisnowsky—N1IXC

Technical/Repeater/Web

VACANT – Technical (chair):

Rick Cabral—W1RJC: Repeater

Rick Cabral—W1RJC: Web

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## SPECIAL COMMITTEES

Activities

VACANT

ARES/SKYWARN/RACES(ACS)

Ed Caron—KA1RSY

QSL Manager

John Nery—WA1ESO

Radio Events

Bob Kelley—K1KVV

Tech Talk

Brad Paiva—W1BEP

**It seems to me ... de Bob - K1KVV, Editor**

**that** few are paying attention to my editorials, so be it!

While there is a lot more outside content in this issue – Thank you for your contributions – some folks are too busy with SEMARA matters that they don't have the time to put their material into writing, or the equivalent.

Here's a list of questions similar to what I ask at each meeting. If you've heard them before, you've been listening at the business meetings. Fine Business!

**Here's** some of the questions I usually voice. [These are usually motivated by the unfinished business from the previous meetings.]

Since Marcel is a busy man, I've put together a bullet list of topics. All questions are about the "Status of ..."

- Foundation drawings for the new radio shack [and Building permit(s)]
- Drawings for the new footprint and 'bridge' to the clubhouse, etc.
- Bucket truck to complete upgrade of Yagi on the clubhouse
- other pressing issues?

Do you think I'm badgering Marcel? After all, he can't do everything all by himself – exactly, that's why some of you who can, should let Marcel know you are willing to help with some of these (and other) tasks.

I've got it – why not form a Radio Shack committee? The committee could download some of the tasks from Marcel's list. Yes, I like that idea, glad I thought of it!

While I'm on a roll, let me share a concern that was expressed to me, and it's not a new one. The concern is that there are too few volunteers among the membership. I've been told this is an old story, at least several decades old.

But back to the issue at hand, if you see something that needs to be done, why not just do it? If you can't do it alone, then recruit a partner. You get the idea. It's called "pride of ownership."

We've got a resource here that other clubs might be jealous of. So, let's show some "pride of ownership." We can certainly do more than just get together for socializing and BBQs, although that is a good idea, too.

Say, what's the name of this club? "Southeastern Massachusetts Amateur Radio Association." That's what I thought. Then the club needs to actively promote amateur radio. How? By holding operating events. There's one at the end of the month that some are already supporting, the *Cystic Fibrosis Foundation Cycle For Life*. Is anyone interested in doing operating out in public? Don't we have a SEMARA banner laying around somewhere? Next time Rich-W2RG goes roving, perhaps whoever accompanies him might take the banner along, and a camera to take some publicity photos that can be 'leaked' to the news media.

**POINT TO PONDER**

"Vary your friends"

—Fortune Cookie

# Official Meeting Minutes



## August 1, 2013

The meeting was called to order at 7:19 PM by the President, **Marcel (W1MLD)** with salute to the flag. The roll was called with 18 members and 0 guests present.

### SECRETARY'S REPORT

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

### TREASURER'S REPORT

The Treasurer, **Mike (KB1NB)**, reported account balances totaling \$52,563 with total payments of \$2186, including property tax of \$1721, and \$0 income last month. A motion was made, seconded and unanimously voted to refer the report to audit.

### STANDING COMMITTEES

#### BUILDINGS AND GROUNDS

It was reported that all was in good condition regarding building and grounds.

#### SPECIAL COMMITTEES

#### ARES, RACES, SKYWARN

**Ed (KA1RSY)** reported the following topics:

1. This coming Saturday will be the monthly hospital drill.
2. This coming Monday will be the RACES drill.
3. He is working on the possibility of a SKYWARN class this fall at SEMARA.
4. There is a possibility of the ARES district meeting held at SEMARA this coming fall. He will provide further information when it is available.

#### ACTIVITIES

A total of 37 tickets were sold for the Chicken Dinner. Thanks to all who were involved, especially **Scott Szala (W1EV)** for orchestrating the event.

A motion was made, seconded and unanimously approved to reimburse **Joe K (N1IXC)** \$42.53 for expenses.

#### RADIO EVENTS

**Bob (K1KVV)** mentioned upcoming events and articles published in *Zero Beat*.

### RATIFICATION OF NEW MEMBERS

An application for membership was received by **Samuel Munoz Preciado Jr** (no call). A motion was made, seconded and unanimously voted to accept him as a life member.

### OLD BUSINESS

It was reported that the Log Periodic antenna and rotor have been installed back on the tower and are all working well.

There was also some discussion about the new building/addition.

### NEW BUSINESS

It was reported that the thrust bearing for the antenna is in and we are now waiting to schedule a boom truck so the thrust bearing can be installed.

There was also discussion regarding equipment donated by **Ed Duclos (WA1ZCB SK)**. A motion was made, seconded and unanimously approved to keep all equipment for future use by the club.

### FOR THE GOOD OF THE CLUB

It was noted that the New England Convention will not be held in Boxboro this year, instead being held in Connecticut.

**Bob (K1KVV)** mentioned appreciation for members contributing stories and photos for *Zero Beat*.

**Fred (N1TF)** mentioned that testing will occur this coming Saturday morning.

**Al Costelo (KB1EAG)** reported that he had given a Fall Protection class to 13 participants and requested permission to use the building at 6:30 AM Saturday. He would also like to use the facility Monday for 6 hours to give a First Aid and CPR class. A motion was made, seconded and unanimously approved to allow use of the building during the requested times for said classes.

### ADJOURN

A motion was made, seconded and unanimously approved to adjourn at 8:10 PM.

Respectfully submitted,

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



# Club Notes



## VE SESSION RESULTS

Three examinees passed their exams:

**Michael M. Humes - KC1AIE** (Technician)

**Alan J. Perry - KC1ABI** (General)

**Peter R. Ransom - KBIZMO** (General)

*Welcome to the hobby!*

## Club Numbers

### GPS Coordinates:

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

— 0 —

**Maidenhead Grid Coordinates:** FN41mo

— 0 —

**For FISTS Sprints:** FISTS #10555

## LOCAL NETS

Everyone is welcome to check in!

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

**50.200 MHz** (FM) — Net is held Wednesdays at 8:30 PM. **Paul, K1PGS** (E. Freetown) is net control.

**28.490 MHz** (USB) — Net is held Tuesdays at 8:30 PM. **Brad, W1BEP** (E. Freetown) is net control.

**3868 kHz** (LSB) — SEMARA Morning Net is held weekdays from 7:30-8 AM ET. *INACTIVE*

**1875 kHz** (LSB) Net is held Fridays at 7 PM. **Dave, K1JGV** (S. Dartmouth) is net control with **Dick, K1AHA** (S. Dartmouth) as back up.

At the August 1st business meeting, an application for membership was approved for

**Samuel Munoz Preciado Jr** (no call).

A motion was made, seconded and unanimously voted to accept him as a life member.

*Welcome to SEMARA!*



## 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>)

## CLUB ACTIVITIES

### BUSINESS MEETING

First THURSDAY of the month @ 7 PM

**Sunday RAGCHEW** 7-10 AM

**Thursday COFFEE CROWD**

Dunkin Donuts - Dartmouth & Garfield  
Dartmouth @ 1 PM

**Friday LUNCH BUNCH**

Leave for LUNCH at **12 noon**  
Gather @ clubhouse before 12

Call on the repeater, if you will be delayed  
or you can phone the club: 508-997-7070

## NEXT VE SESSION @ SEMARA

October 5, 2013

Clubhouse @ 10:30 AM

Contact: Fred Bacon-N1TF

[exams \[at\] semara \[dot\] org](mailto:exams[at]semara[dot]org)

508-748-0047



# SEMARA News

## 50 MHz and Up

### Everything Else is Just DC by Rich-W2RG

August has been a good time for 50 MHz & Up activity. September and October follow with more fun events before a lull begins in November.

The weekend of 3-4 August was the ARRL's **UHF contest**. (See links at <http://www.arrl.org/contest-calendar>) The ARRL includes the 222 MHz band for contest purposes, so the contest is actually a 222 MHz & Up event.

I like to call these things *events* rather than *contests*, because I'm a lousy tester. And because I really enjoy them. *VHF & Up contests* tend to have a different feel than the HF contests. The bands are so big that the event does not make the bands unusable for everyone else. Also, I run into other Hams I know much more frequently than I do on HF. They're often more willing to stop and chat a bit than most HF testers, from whom you usually won't hear much more than "you're 59 EMA QRZ?"

For some events, I operate from my fixed station in Fairhaven. Others I operate as a rover. Rovers have to cart all their gear around to at least two different grid squares (see <http://www.arrl.org/grid-squares>). The reward for doing that is that you effectively become a new station at each grid square under the contest rules. You're allowed to work all the stations you worked in the other grid squares, and you get a bonus in the scoring for "activating" each new square. Without doing marathon driving, from here in the New Bedford area I can reach five grid squares, though I usually settle for two or three. The nearby squares are:

- FN31 most of Connecticut
- FN32 most of western Massachusetts
- FN41 the south coast from eastern Connecticut out onto Cape Cod
- FN42 the area north of us, most of eastern Massachusetts
- FN51 a narrow sliver on the far eastern side of Cape Cod

The UHF contest was a roving event for me. **On Saturday afternoon**, I packed my rigs for 144 MHz through 10 GHz into my van and went to *Bay Path High School* in **Charlton, MA, FN42**. It's a wonderful high spot with good views around most of the compass. A low, distant horizon with minimal obstructions is

important in these events. Trees and bushes absorb a lot of signal at 432 MHz and above – just think of what happens when you put vegetables in a microwave oven. And objects like buildings can do strange things to a signal, from blocking it entirely to reflecting or refracting it off in a different direction from where you pointed your antenna.

The activity that Saturday was good, but there didn't seem to be any of the atmospheric enhancements needed for really long range propagation. **AF1T (FN43, Henniker NH)** and I made easy contacts on 432, 903, 1296, 2304, and 3456 MHz. **W1AUV on Mt. Greylock** managed to sneak enough signal around the high school building that we worked 432, 903, and 1296 in spite of all those bricks directly between us. *In about 3-1/2 hours*, I completed **17 QSO's on 432 through 3456 MHz**. Not a fast pace by HF standards, but pretty good when you're working at those frequencies and using antennas with beamwidths as narrow as 10 degrees.

**For the Sunday segment** of the UHF contest, I went to *Hoppy's Landing* in **Fairhaven, FN41**. It's a low spot, but so is most of the terrain for a good distance around, so the horizon is nice and low. Only a short drive from home. Nice scenery. My idea of relaxed roving.

I completed another **9 QSO's** in *2-1/2 hours* at Hoppy's, also on *432 through 3456 MHz* with **N1GJ** and **AF1T**, but about one hour of that time was actually spent chatting with the *many curious visitors*. It seemed to be good PR for ham radio, as people asked lots of questions and some stayed awhile to watch while I operated.

**Saturday, 10 August**, was the **Fall 50 MHz Sprint**, sponsored by the *Southeast VHF Society* (<http://www.svhfs.org>). I missed that one (sigh). The SVHFS hosts several Sprints throughout the year that are especially appealing to me. A Sprint is only four hours – nobody's staying up all night or otherwise knocking himself out. If propagation is decent, you can get a great deal of activity in that short amount of time.

The first weekend of the *10 GHz & Up contest* followed on *17-18 August*. This two-part event includes one weekend in August and another weekend in September. It is one of the biggest VHF/microwave events of the year, particularly here in the northeast US.

The usual 2-meter sideband frequencies used for liaison (*144.230 through 144.280*) were very busy both days with operators from southeast Maine through northern New Jersey setting up 10 GHz contacts. I spent

(Continued on page 7)

# SEMARA News (cont.)



## Radio Talk 2013

Saturday, September 21, 2013

Concordia University Campus:

St. Ignatius of Loyola Parish

4455 West Broadway

Montreal, QC H4B 2A7

by **Terry Ladd, VE2WTQ**,  
SEMARA Member

**Radio Talk 2013** is NOT A HAMFEST!

**Radio Talk 2013** is a new innovative event being co-sponsored by the *West Island Radio Club* and *Montreal Amateur Radio Club*.

Is ham or amateur radio a hobby or a service? It is many things to the many individuals who make up the Amateur Radio Community. Radio of all types is being reinvented in these modern times from a tool for communications as well as a means of entertainment and information. **Radio Talk 2013** will hopefully address the issues and challenges facing us in the community with a series of lively and informative discussions as well as demonstrations and presentations.

Planned presentations include:

- *Ferrites and Baluns* - Jacques Audet, **VE2AZX**
- *Antenna Guidelines and Quebec Municipalities* - Guy Lamoureux, **VE2LGL**
- *Submarine and Navy Radioman* - Donald Courcy, **VE2CW**
- *The Canadian Satellite Design Challenge* - Sébastien Parent-Charette, **VA2AVR**
- *A Century of Regulating Radio* - Bryan Rawlings, **VE3QN**
- *A DXpedition to the South Pacific: VP6T/Pitcairn Island* (in French) - Gilles Renucci, **VE2TZZ**
- *Digital Voice Modes in 2013* - Claude Everton, **VE2YI**
- *Amateur communications on laser beams* - Jimmy Howard, **VE2JWH**
- *Ballon Radioamateur du Québec* (in French) - Michel Graveline, **VE2WVG**
- *Remote station operation* - John Grow, **VE2EQL**
- *Amateur radio first-person view remote control flying* - Alex Wenzl, **VA2FPV**

Speakers and their topics are still subject to change. Watch for updates at [www.radiotalk.ca](http://www.radiotalk.ca). Come join us on this exciting journey on Saturday, September 21.

## Examiners @ August 3<sup>rd</sup> VE Session



**FRED-N1TF, ANDY-WA1FNM, WAYNE-WA1CCM, MARTY-KA1YFV, RAY-KB1EVX**

## Hams Needed For Public Service Event - September 28

SEMARA is looking for volunteers to provide communications for the *Cystic Fibrosis Foundation Cycle For Life*.



This public service event begins on Saturday, September 28, 2013 at 9:00 AM. Everyone is invited to help a very worthy cause. Several hams from SEMARA and along with others from the Newport group had a great day in Little Compton providing communication support last year.

The bicycle ride fundraiser runs through Little Compton, Tiverton, and Westport. Anyone with 2m gear to work through the SEMARA repeater is welcome to help out along the route by providing radio communication. Spouses of hams are also welcome to help out in Little Compton and at the various rest stops. *Folks with first aid training are a big plus.*

Please contact me directly if you are free September 28<sup>th</sup> and think you might like to help out. These are the hams who are returning for this 2<sup>nd</sup> annual CF event:

Ted Wrobel, **W1GRI** - NET CONTROL VINEYARD  
 Joe Krisnoski, **N1IXC** - ELEPHANT ROCK BEACH  
 Tony Gomes, **N1JXZ** - BAYSIDE RESTAURANT  
 Marty Jordan, **KA1YFV** - COMMUNITY CHURCH  
 Anthony Lessa, **KB1UAM** - SAG WAGON  
 Brian Cottle, **N1TBT** - SAG WAGON

TNX & 73 de John-WA1ESO

[wa1eso \[at\] juno \[dot\] com](mailto:wa1eso[at]juno[dot]com) – 401-624-4576

# SEMARA News (cont.)

## My Set-up

by Marcilio-N1MVR



MY 3 RADIOS - UNIDEN BEARCAT 980 SSB,  
KENWOOD TM-281A, RADIO SHACK HTX 10



DUAL MONOPOLE  
ANTENNAS



ANTENNA DETAIL

[Marcilio-N1MVR speaks of his 'baseball bat' antenna; but, looking at these pictures he sent, can you tell me where the baseball bat is? ed.]

## Ad - For Sale

Yaesu FT-920 transceiver, s/n 00290080.

- 160-6 meters with general coverage receive
  - Has FM board for 6 meters and 500 Hz CW filter
  - With stock (hand) microphone, power cord, manual and original box
  - In very good condition, one key on front panel has letters slightly worn
  - Price \$700 delivered.
- Will sell MD-100 desk mic. for \$100 additional  
Henry Brown-K1WCC,  
SEMARA member

(50 MHz & Up continued from page 5)

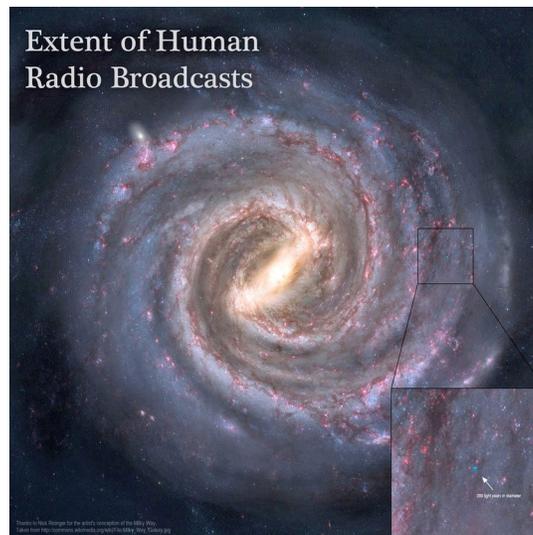
**Saturday morning** at *Hoppy's Landing* again, and worked **nine stations** in 2 hours, from **W1AUV** on *Mount Greylock* across New England to **K1WHS** in *Lebanon ME*. Not bad, but I couldn't quite make the path to **K2KIB** at *High Point NJ* (about 200 miles) or **N1JEZ** on *Mount Kearsarge*.

**Sunday morning** was not just good, it was excellent. I operated from *Gooseberry Island* in **Westport**. This time, **K2KIB** at *High Point* was **S7 on 10 GHz**. Then came **K2TXB** and **WA3GFZ** from *northern Delaware*, several stations out on *Cape Cod* (short paths, compared to the Delaware contacts!), and more going up central New England as far as **N1JEZ** and others on *Mount Washington*. **Fourteen paths** in 2 hours.

In the past, southern New England has been a good area for VHF & Up operating. This past August, it's been special. I'm looking forward to September and October.

On **14-16 September**, we have the **ARRL September VHF QSO Party**, one of the biggest VHF events of the year. On **21-22 September**, it's the second weekend of the **10 GHz & UP contest**. Then, starting the evening of **23 September**, we have a series of **Sprints**, starting with the **4-hour 2-meter Sprint**. Try to make one or two of these. They're great fun.

Photos on page 1 show the van, the equipment and the operator, Rich-W2RG.



This is rendition of the spiral galaxy we live in. The square, expanded in the lower right corner, should be a circle. It shows the maximum distance radio waves have traveled since they were discovered. Looks like we may have to wait awhile for ET to hear us!

## Some Radio Activity

<http://www.arrl.org/special-event-stations>

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

### 50 MHz & up

Sep 14, 1800Z - Sep 1, 0259Z All-modes

**ARRL September VHF Contest 50+**

[www.arrl.org/contests](http://www.arrl.org/contests)

Sep 21, 6 AM - Sep 22, 12 mid All-modes

**ARRL 10 GHz Cumulative Contest 10G+**

[www.arrl.org/contests](http://www.arrl.org/contests)

Sep 28, 0000Z - Sep 29, 2359Z All-modes

**ARRL EME Contest 2.3G+**

[www.arrl.org/contests](http://www.arrl.org/contests)

### Digital modes

Sep 6, 8 PM - Sep7, 2 AM PSK31

**070 Club KA3X Memorial Sprint 3.5**

[www.podx070.com](http://www.podx070.com)

Sep 7, 0000Z - Sep7, 2400Z RTTY

**Russian Radio RTTY WW 3.5-28**

[www.radio.ru/cq/contest/rule-results/index2.shtm](http://www.radio.ru/cq/contest/rule-results/index2.shtm)

Sep 7, 1100Z - Sep 7, 1700Z RTTY,AMTOR,CLOVER,PACTOR,PSK31

**DARC 10 Meter Digital "Corona" 28**

[www.darc.de/referate/ukw-funksport](http://www.darc.de/referate/ukw-funksport)

Swep 14, 1200Z - Sep 15,1200Z QPSK63

**10th CIS DX QPSK63 Contest 1.8-28**

[www.eupsk.com](http://www.eupsk.com)

Sep 21, 1600Z - Sep 21, 1800Z Feld-Hell

**Feld-Hell hell on Wheels Sprint 1.8-28**

[www.feldhellclub.org](http://www.feldhellclub.org)

Sep 22, 1700Z - Sep 22, 2100Z RTTY8

**BARTG Sprint 75 3.5-28**

[www.bartg.org.uk](http://www.bartg.org.uk)

Sep 28, 0000Z -Sep 29, 2359Z RTTY

**CQ WW RTTY Contest 3.5-28**

[www.cqwwrtty.com](http://www.cqwwrtty.com)

### Special Events

Sep 1- 30, 0001Z - 2359Z Newark, OH

**QCWA Chapter 212 10<sup>th</sup> Anniversary WQ8CWA**

[www.qrz.com/db/wq6cwa](http://www.qrz.com/db/wq6cwa)

Sep 7 - 15, 0000Z - 2359Z San Bernardino, CA

**Route 66 On The Air W6JBT**

[www/w6jbt.org](http://www/w6jbt.org)

Sep 8 - 22, 1600Z - 0000Z San Francisco, CA

**America's Cup Finals W6A**

[www.sfarc.org](http://www.sfarc.org)

Sep 14 -15, 1500Z - 2100Z Nantucket, MA

**Nantucket County Fair N1NBQ**

[gatv \[at\] comcast \[dot\] net](mailto:gatv@comcast.net)

## Local VE Sessions

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

[find-an-amateur-radio-license-exam-session](http://www.arrl.org/find-an-amateur-radio-license-exam-session)

Walk-ins permitted unless otherwise noted.

**SEMARA – 10:30 AM October 5<sup>th</sup>**

Fred Bacon-N1TF

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

508-748-0047



Fall River, MA – 7:00 PM September 16<sup>th</sup>

Skip Denault-KB1CNB

[skip \[at\] newtestamentschool \[dot\] org](mailto:skip@newtestamentschool.org)

774-644-3469

Falmouth, MA – 9:00 AM September 14<sup>th</sup>

W. Ben Fleck-K2LYE

[BenFleck \[at\] verizon \[dot\] net](mailto:BenFleck@verizon.net)

508-540-2583

Slatersville, RI – 9:00 AM October 19<sup>th</sup>

Robert E Jones-WB1P

[bgjones49 \[at\] arrl \[dot\] net](mailto:bgjones49@arrl.net)

401-333-4787

## Coming FLEAS & FESTS

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

- |           |                      |   |
|-----------|----------------------|---|
| 7 Sept    | <b>Windsor ME</b>    | AARA<br>Bill-K1NIT 207 512 0312         |
| 8 Sept    | <b>Newtown CT</b>    | CARA<br>Joe-AB1DO 203 938 4880          |
| 15 Sept   | <b>Cambridge MA</b>  | FLEA @ MIT<br>Nick 617 253 3776         |
| 21 Sept   | <b>Forestdale RI</b> | RIAFMRS<br>Pete-AA1PL 401 639 4484      |
| 21 Sept   | <b>Manchester CT</b> | PVRA<br>George-AB1GL 860 716 3367       |
| 21 Sept   | <b>Alexander ME</b>  | StCVARC<br>Roger-W1LH 207 454 2174      |
| 28 Sept   | <b>Brookline NH</b>  | NEARC<br>Bruce 603 772 7516             |
| 11,12 Oct | <b>Deerfield NH</b>  | NEARFest XIV<br>Mike-K1TWF 978 250 1235 |
| 13 Oct    | <b>Meriden CT</b>    | Nutmeg<br>John-N1GNV 203 440 4973       |
| 20 Oct    | <b>Cambridge MA</b>  | FLEA @ MIT<br>Nick 617 253 3776         |