

ZERO BEAT

Published Monthly by
SEMARA, W1AEC
P.O. BOX 0007, 54 Donald St.
South Dartmouth, MA 02748

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Meeting Highlights

Here are the highlights from the December 2nd, SEMARA business meeting:

After the pledge and roll call, the secretary's and treasurer's reports were read and accepted. The treasurer's report included an end of year summary.

For committee reports, Bill, K1IBR, reported on the repeater. Bill, WA1FYF, reported on minor repairs to the furnace. Many had noticed the building was warm. Pete, KA1WOJ, mentioned the Christmas party, and the ten door prizes that will be given away that night.

Under old business, Pete, KA1WOJ, mentioned he was still collecting birthdates and updating the membership list. He plans to start recognizing member's birthdays beginning in January.

There being no new business, the secretary cast one vote for the nominees for all unopposed offices. Secret ballots were then passed around for board of directors.

The 1994 officers are: Pete, KA1WOJ, President, Bob, KA1YDG, Vice-president, Karen, N1LIE, Secretary, Pat, KA1YUH, Treasurer, Norman, N1NDI, Trustee, Bill, K1IBR, Director, Bill, WA1FYF, Director, Linda, KA1QCO, Directoress.

After voting in a full member and several conditional members, Pete reminded everyone that it was time to renew their memberships. The meeting then adjourned.

Next Meeting

The next SEMARA business meeting is January 6, 1994, 7:30 pm. The club meets every Thursday, with business meetings on the first Thursday of the month.

Time to Renew

Remember, it's time to renew your membership! Dues must be paid by the March meeting.

For many, it's also time to renew your subscription to the Zerobeat. The rates are \$6/yr for SEMARA members, and \$10/yr for non-members. The Zerobeat mailing labels now show the year and month of the last issue you will receive. It's a two-digit year, followed by a dash, and a two-digit month. Check your label and see if you need to renew, and send your check in right away!

Repeater News

Bill, K1IBR, has been working on the repeater, with slight assistance from Larry, AA1FS. After spending many hours investigating the problems with the repeater controller, Bill spoke with a technician at Kendecom, and discovered that some of the problems were their fault, although they did provide the work arounds.

After a little rewiring and other work, the machine is in "better" shape. One change worth mentioning is a change to

the "*" (asterisk) control for turning on the flood lights. You must now hold the "*" on for five seconds before the floods will activate. (Don't forget to ID!) The flood lights will then stay on for approximately three minutes.

The repeater function cards will be updated soon. Also, if you want your own "autodial" number, contact either Bill, K1IBR, or Larry, AA1FS, for a code assignment. You can get a function card from Pete, KA1WOJ.

National Weather Service

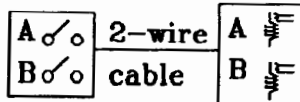
Rob, KD1CY

The National Weather Service is combining the Providence, Boston, and Worcester offices to a site at the Taunton Industrial Park. The move started on November 8. The only thing left at Boston, will be the 800 spotter phone number, which will be manned at Logon. All weather except aviation weather will come from the Taunton office.

Although new technology will open horizons in short-term weather forecasting, the NWS still relies on severe weather reports from storm spotters.

Circuit Design Contest

Here's another chance to show off your knowledge! Design a circuit that will individually operate two relays at a remote

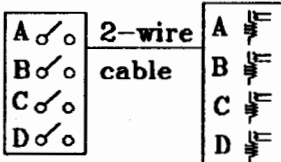


location, with only a two-wire cable.

Too easy? That's what I thought. In fact, I already have two solutions which I'll present next month, along with any other worthwhile submissions. That being the case, there will be a second concurrent contest to design a circuit that will control four relays at a remote locations using only a two wire cable. That's the real challenge!

The rules are simple: Design a circuit using a two wire cable to remotely and individually control the relays. I prefer 12 volt systems, but it's really up to you.

Submissions must be received by January 14 to be included in the next



newsletter. Send your schematic and explanation of operation. It would even be nice if you brought the gadget in to the next meeting and demonstrate it! You might also mention what you'd like for a prize, if we were giving one away.

National Radio Show

"Ham Radio and More", a radio show about Amateur Radio hosted by Len Winkler, KB7LPW, from KFNN in Phoenix, is being made available to all the member stations on the Talk America Network (TAN). Boasting more than 80 members, TAN will make the show available at 6 p.m. EST for an hour each Sunday as of November 28.

In it's third year, the show is non-technical and intended to appeal to licensed amateurs as well as the general public.

The Packet Racket

Larry Houbre 12/93

CONNECT ZEROBEAT.WIAEC.SEMARA.MA
SB ALL

There are several "gateways" to other services available on packet radio. One of these gateways is a gateway to the "internet", and has been recently activated at KAlRCI. You can access the gateway from your home bbs.

Sending a message through the gateway is a simple process, providing you know the "internet" address of the recipient.

For example, if I wanted to send a message to "LHOUBRE @ UMASDD.EDU" through the gateway, I begin by logging on to the packet BBS, and sending a personal message addressed to the gateway, with a second address in the message so the gateway will know where to send it.

SP UUCP @ KAlRCI
Any Subject
To: LHoubre@UMass.Edu
Text of message.

The gateway address "UUCP @ KAlRCI" will make sure the message gets to the gateway system. The "To: address" line (you type the "To:") tells the gateway where to send the message. This "internet address" MUST be the first line of the message text.

/EX
DISCONNECT

December In History

- 1-1808 1st Christmas Club payment
- 1813 1st drive-up gasoline station opened
- 1838 LaGuardia Airport in N.Y. opened to the public
- 1851 Golden Gate Bridge closed due to high winds
- 2-1804 Napoleon was crowned French emperor
- 1818 1st savings bank in the U.S. opened
- 1942 1st controlled nuclear demon at Univ. of Chicago
- 3-1821 Galileo invented the telescope
- 1952 1st television broadcast in Hawaii
- 1967 1st human heart transplant performed
- 4-1915 Panama Pacific International Exposition opened
- 1918 Woodrow Wilson 1st President to travel abroad
- 1965 Gemini 7 was launched
- 5-1776 Phi Beta Kappa, 1st scholastic fraternity, founded
- 1901 Walter Elias Disney, cartoonist, was born
- 1833 Prohibition repealed with the 21st Amendment
- 1985 Dow Jones Industrial Average topped 1500
- 7-1941 Pearl Harbor was attacked by the Japanese
- 1972 Apollo 17, last of Apollo moon series, launched
- 1987 Soviet leader Gorbachev visited U.S. for first time
- 8-1941 U.S. declared war on Japan
- 1941 FCC suspended U.S. Amateur Radio
- 9-1793 Noah Webster established N.Y.'s 1st daily paper
- 1842 1st Christmas card was created, in England
- 1907 1st Christmas Seals were sold
- 10-1898 Spanish-American war ended
- 1901 1st distribution of Nobel Peace Prizes
- 11-1941 Germany and Italy declared war on the U.S.
- 1946 UNICEF was established
- 1961 U.S. began military support for South Vietnam
- 1975 First Class postage increased to 13 cents
- 12-1901 1st transatlantic radio signal, England to U.S.
- 1925 Nation's 1st motel, Motel Inn, opened in CA
- 13-1869 1st waffle iron was patented X
- 1903 Wright brothers first airplane flight at Kittyhawk
- 14-1799 George Washington died at Mt. Vernon
- 1911 Explorer Amundsen 1st to reach South Pole
- 15-1877 Patent granted to Edison for the phonograph
- 1890 Sioux chief, Sitting Bull, killed in fight with troops
- 1961 Walt Disney died
- 1965 1st rendezvous in space; Gemini 6 and Gemini 7
- 16-1773 Boston Tea Party in Boston Harbor
- 1944 Battle of the Bulge began
- 17-1791 NYC traffic regulation created 1st one-way street
- 1903 1st sustained motorized aircraft flight
- 1933 1st professional football game; Bears vs. Giants
- 18-1936 1st giant Panda imported to U.S. from China
- 1957 1st U.S. atomic power plant opened
- 19-1732 Ben Franklin began "Poor Richard's Almanack"
- 1843 Charles Dicken's "A Christmas Carol" published
- 20-1820 Missouri imposes \$1 bachelor tax on single men
- 1879 Thomas Edison demonstrated incandescent light
- 1963 Berlin Wall opened 1st time to allow 1-day visits
- 21-1820 Mayflower Pilgrims landed at Plymouth Rock
- 1937 1st feature-length cartoon with color and sound
- 1968 Apollo VIII launched, 1st to orbit the moon
- 22-1894 U.S. Golf Association was formed.
- 23-1913 Federal Reserve Banking System went into effect
- 1947 Transistor invented in Bell Labs
- 24-1906 1st known radio program in U.S. was broadcast
- 25-0336 1st recorded celebration of Christmas in Rome
- 1818 1st singing of "Silent Night"
- 26-1865 James Mason invented 1st coffee percolator X
- 27-1932 Radio City Music Hall in New York City opened
- 1945 28 nations sign agreement creating World Bank
- 1947 "Howdy Doody" premiered on NBC
- 1974 Jack Benny, entertainer, died
- 28-1669 Patent for chewing gum granted
- 1902 Trans-Pacific cable linked Hawaii to the States
- 1945 Congress officially sanctions Pledge of Allegiance
- 31-1948 World War II officially ended.

Antenna Quiz

How did you do on the antenna quiz last month? Impress your friends?

Just in case you need "proof" that you knew them, here are the answers:

A 1. Batwing

The length of the horizontal side rods are inversely proportional to the current in order to create uniform radiation.

D 3. Cubical Quad

A compact version of a two-element beam. A shorting bar is used for tuning.

E 4. Folded Dipole

Can be used with high-impedance feed line since it has four times the impedance of a dipole.

F 6. Lazy H

Combined collinear arrays with phasing to create bidirectional broadside response in horizontal & vertical planes.

C 7. Sterba Curtain

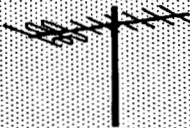
Combined collinear arrays which heat the antenna preventing ice formation.

B 9. Yagi

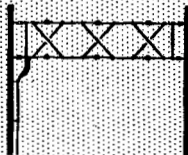
Narrow band beam antenna with high gain and directivity.



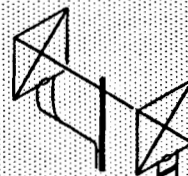
A.



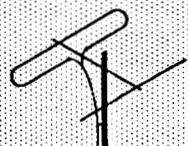
B.



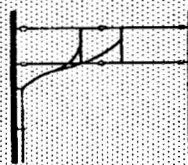
C.



D.



E.



F.

For more information, call KFNN at 602-241-1510. The show is also on satellite Galaxy 2, transponder 3, channel 55.4.

FCC Modem Phone

Go ahead and call the FCC with your modem! The FCC has a Public Access Link which contains information on FCC rulemaking, and other topics of special interest. Call 301-725-1072. If you don't have a modem, the voice number is 202-653-6288.

Swap and Sell Net

The Rhode Island Swap and Sell net meets every Saturday at 8 p.m. on the N1FPH repeater system on 448.675-. The net is currently called by Rick, KA1YZE. Check in with your goodies!

ARRL Friendship Award

The ARRL has a new award certificate available to anyone who has had two-way communication with 26 amateur radio stations whose callsigns end with each of the 26 letters of the alphabet. It is hoped that the contacts will be made in the spirit of friendship. Full details and rules can be found on page 50 of the November 1993 issue of QST.

Bird Watchers Packet Net

If you are interested in bird watching and sightings, and you have packet capabilities, W1QLT is collecting and sharing the information. Send your reports with your call and name to W1QLT@KA1SRD.#WMA.MA.

The bird watchers net is accessible at the AA1FS packet BBS. You can find all the messages by scanning for items addressed to "BIRDS". The command is "L> BIRDS".

UFO?

Interested in trying to identify unidentified flying objects? Think you had a close encounter? Maybe you should check into a UFO net. There are several around, at different times:

3.979 MHz	Saturday, 7:30pm
7.237 MHz	Saturday, 8:00 am
14.264 MHz	Thursday, 7:00 pm
28.470 MHz	Sunday 3:00 pm

Pick Your Sign

Recently, the FCC proposed that amateurs be able to choose their own call signs by filing a form and paying a fee. The idea will be explored further after a new automated data processing system is installed at the Commission's Private Radio Bureau.

There is even the possibility that amateurs could query the data system themselves, presumably with a computer and modem, to determine which call signs are available.

The FCC also cancelled a rule it had recently adopted, which would establish a call sign administrator for club and military stations. The program had never been implemented.

Repeater Directory

145.150 -	WA1DGW, Fall River
145.490 -	KA1WBF, Fairhaven
146.700 -	WA1RBT, Cranston
146.655 -	WA1GPO, Falmouth
147.000 +	W1AEC, South Dartmouth
147.045 +	WA1AIC, Yarmouth
147.135 +	ND1N, Taunton
147.180 +	WB1FLD, Bridgewater
147.315 +	N1BBT, Wareham
442.200 +	NY1D, Fall River
443.450 +	K1MYL, Westport
443.600 +	NS1N, Norwell
444.250 +	WA1GPO, Falmouth
444.350 +	W1ACT, Fall River
444.550 +	WA1ZUF, Bridgewater
446.325 -	KA1CLX, Plymouth
446.625 -	NC1K, Plymouth
448.675 -	N1FPH, West Greenwich

Know of any local repeater frequencies not listed here? Send them in to the editor!

CALENDAR

- January**
 6: 7:30p, SEMARA Business Meeting
 8: Exams, North Dartmouth
 16: Ham Fest, Mattapoisset
- February**
 3: 7:30p, SEMARA Business Meeting
 19: Ham Fest/Flea, Marlborough
 20: Ham Fest, Mattapoisset
- March**
 3: 7:30p, SEMARA Business Meeting
 20: Ham Fest, Mattapoisset
 26: BBS Show, Fall River
- April**
 7: 7:30p, SEMARA Business Meeting
 17: MIT Flea Market
 29,30: Dayton
- May**
 1 Dayton
 5: 7:30p, SEMARA Business Meeting
 15: MIT Flea Market
- June**
 2: 7:30p, SEMARA Business Meeting
 5: Flea, Newington, CT
 19: MIT Flea Market
- July**
 7: 7:30p, SEMARA Business Meeting
 17: MIT Flea Market
- August**
 4: 7:30p, SEMARA Business Meeting
 21: MIT Flea Market
- September**
 1: 7:30p, SEMARA Business Meeting
 11: Ham Fest, South Dartmouth
 18: MIT Flea Market

VE EXAMS

- December**
 18: Melrose, MA Scott, 617-322-7654
 19: Athol, MA John, 508-249-5905
 22: Cambridge, MA Nick, 617-253-3776
- January**
 3: Cambridge, MA Bob, 617-593-1955
 5: Acton, MA Dave, 508-263-3712*

'93 SEMARA OFFICERS

- President**
 Pete Carreiro, KA1WOJ, 993-6262
- Vice-President**
 Mike Ponte, WA1BZJ, 996-0159
- Secretary**
 Mark Mahoney, N1IEP, 993-5942
- Treasurer**
 Pat Carreiro, KA1YUH, 993-6262
- Board Members**
 Dr. Norm Riley, W1ATI
 Marc Jodoin, KA1WBF
 Charles Pelletier, KD1DA
- Trustees**
 Dr. Norm Riley, W1ATI, Chairman
 Bill Field, WA1FYF
 Morris Fogaren, WB1GJO
 Joe Midurski, W1EKW
 Edward Blouin, KA1AW
- Activities/Public Relations Committee**
 Robert Peckham, KA1YDG, Chairman
- Buildings & Grounds Committee**
 Bill Field, WA1FYF, Chairman
- Technical Committee**
 William M. Miller, Jr., K1IBR, Chairman
- Ways & Means Committee**
 Pat Carreiro, KA1YUH, Chairman

VE EXAMS (Cont'd)

- 8: Falmouth, MA Geoffrey, 508-548-0969
 8: Marlboro, MA Bob, 508-485-7006*
 8: Slatersville, RI Bob, 401-333-2129
 9: Gloucester, MA Rick, 508-283-2278
 12: Billerica, MA Bruce, 508-851-2886
 13: Providence, RI Judy, 401-231-9156
 15: Melrose, MA Scott, 617-322-7654
 19: Cambridge, MA Nick, 617-253-3776
 29: Slatersville, RI Bob, 401-333-2129
- February**
 2: Acton, MA Dave, 508-263-3712*
 2: Cambridge, MA Bob, 617-593-1955



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Packet Directory

144.990 N1KBT	145.090 KC1CE
144.990 NS1N	145.090 KD1NU
145.010 Fara Digi	145.570 WA1OAJ
145.010 N1CSI	145.530 KQ1K
145.050 WA1ZUF	145.710 KA1THM
145.070 WQ1O	145.710 KC1KM
145.090 AA1FS	145.710 N1LDY
145.090 K1UGM	145.730 KC1UA

VE EXAMS (Cont'd)

- 6: Athol, MA John, 508-249-5905
 9: Billerica, MA Bruce, 508-851-2886
 10: Providence, RI Judy, 401-231-9156
 12: Marlboro, MA Bob, 508-485-7006*
 12: Brewster, MA Henry, 508-255-2818
 12: Falmouth, MA Geoffrey, 508-548-0969
 13: Gloucester, MA Rick, 508-283-2278
 16: Cambridge, MA Nick, 617-253-3776
 19: Melrose, MA Scott, 617-322-7654

*Some sessions require preregistration and do not allow walk-ins. Please check with the contact listed for each session to verify the exam date, time, and location.

SEMARA, Inc.
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 South Dartmouth, MA 02748

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