

ZERO BEAT

South
Eastern
Massachusetts
Amateur
Radio
Association

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Meeting Highlights

Here are the highlights from the September 1st SEMARA business meeting:

After the pledge, roll call revealed 17 members present. The secretary's and treasurer's reports were read and accepted. The check book balance was \$1527.22.

During committee reports, the Hamfest Committee reported that Donations and Volunteers are needed. There were various offers made to do some grass cutting, food cooking, and shopping for supplies. There were also various donations made of donuts, coffee, and linguica.

Pete also reported that Len Gadomski had acquired a \$50 gift certificate from Anderson Little. It was reported that 1,007 cards were mailed out advertising the Hamfest and offering the discount for admittance. Of these 85 were returned by the Post Office. Cards were sent out as far as Taunton. The mailing was a joint effort of the labels being printed and donated by Len Gadomski, stamps being put on the cards by Linda Medeiros and her daughter as well as Pete, and the labels being put on by Pete. It was also noted that approximately 75 of the households had more than two hams in the house. There have been no calls for reserv- ing tables.

It was suggested that a special meeting be held the following Thursday, Sept. 8, to finalize the purchase of supplies and food.

After some discussion, Bill Miller made a motion that new Hams in '94 be given a membership for \$5.00. This will be for the remaining of this year and '95. The motion was seconded and approved. It was noted that the motion to give all new members at the HamFest three months free carried from last year. Extra flyers will be dropped off at various electronic stores by Pete, and members were encouraged to take extra flyers and post them.

Bill Miller suggested that we fly the new flag the day of the Hamfest. Pete and Bill also discussed completing the front stairs on the Saturday prior to the Hamfest.

There were no other committee reports, and there was no New or Old Business to discuss.

Andy Reuter informed the members that Dan Crocker had been operated on that day at Brigham and Women's Hospital. He suggested that the club send a card. Pete said he would take care of it. The meeting then adjourned.

Computers

Attention all QRPers! A BBS dedicated to QRP! is sponsored by the NorthWest QRP Club, and is available to anyone interested in QRP operating (you do not have to be a NW QRP Club Member to use the BBS). The number is (206) 938-3804.

News Briefs

New Assistant Director in NE

Perry Williams, W1UED, has accepted an appointment as assistant director in the New England ARRL Division. Perry started with the ARRL in April of 1954, and has held various positions since. He was recently honored with "Amateur of the Year" at the 1994 Dayton Hamvention.

Report on reallocation

ARRL's effort to protect Amateur frequencies in the 13 cm band from reallocation is a step closer to success with the release this week of a report from the FCC to the Commerce Department that strongly supports continued Amateur Radio presence in the band. The report disagrees with NTIA's preliminary recommendations that large portions of the band be reallocated for other uses.

The frequencies that NTIA had identified for possible reallocation consist of 2300-2310 MHz, 2390-2400 MHz and 2402- 2417 MHz, which have been shared by Amateur Radio on a secondary basis with Government services. When the process is completed, FCC will administer the reallocation of frequencies identified by NTIA.

While the FCC report praised NTIA for its efforts, it stated that the NTIA proposals require modification. FCC cited concerns in the Amateur community that reallocation would disrupt Amateur operations in the band, and that NTIA failed to meet the statutory requirement that it attempt to determine the extent to which the band could be shared with the Amateur service. The report noted that "the largest factor affecting the future use of these bands is their existing availability for use by the Amateur service."

FAR scholarships awarded

The Maryland-based foundation for Amateur Radio announced the winners of 50 college scholarships that it administers. The \$2000 winner was Extra Class licensee Craig A. Gullickson, KC6CEX, 20, of Fresno, CA.

Awarded a \$1200 scholarship was 17-year-old Stefnee Lindberg, N0ONP, of Kansas City, Missouri, an Advanced class licensee. 20 students received scholarships of \$1000 each.

These scholarships are open to all radio amateurs meeting the qualifications and residence requirements of the various sponsors. The non-profit Foundation represents more than 50 clubs in Maryland, northern Virginia, and the District of Columbia.

For more information and application forms for 1995 scholarships contact FAR, 6903 Rhode Island Avenue, College Park, MD 20740.

ARRL Ombudsman

The ARRL Ombudsman can help any time you have a questions about ARRL Services. Voice: 203-666-1541, Fax: 203-665-7531, Internet: ombudsman@arrl.org, or mail: ARRL Ombudsman, 225 Main Street, Newington, CT, 06111.

Team championship planned

Amateurs in the Washington, DC area have announced an ambitious plan to sponsor a second World Radiosport Team Championship in July, 1995. It would be patterned after the WRTC held in Seattle in 1990 in conjunction with the 1990 Goodwill Games. Instead of being a "stand-alone" radio event, "WRTC

Dreamer's

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Online!

95" would be held within the IARU HF World Championship contest held annually in July.

The Potomac Valley Radio Club (PVRC) will lead the organization of WRTC-95, and expects many other clubs and individuals in the Washington-Baltimore area to help. The PVRC is dedicating the event to Len Chertok W3GRF, who died in 1994 after a distinguished career as a contester as well as an Elmer.

As in 1990, the competitors will be two-person teams. Both members of a team must live in the same ITU zone. The administrators will accept applications from interested competitors, both individuals and teams, until December 31, 1994. The administrators will then evaluate the applications and name a team for each ITU zone from which an application has been received.

In the same manner as WRTC 90, local amateurs will open their stations to the teams; some 50 in the Washington area are anticipated to be needed. Selected teams and alternate operators will be notified by the Administration in the spring of 1995. The organizers also hope to be able to accommodate alternate teams and additional zone teams in some manner.

Each team will enter the multi-single mixed mode class of the IARU contest and will follow all contest rules. The stations will be chosen to have similar equipment and antennas, as in Seattle. A PacketCluster connection will be available at each WRTC QTH for full use, and computer logging will be required. Also as in Seattle, teams will be assigned stations at random, after their arrival in the DC area, and call signs will be assigned shortly before the 24-hour contest begins.

Co-chairmen for WRTC 95 are Eric L. Scace 3NA, and Howard Leake W6AXX (/3). The administrative office is in care of Hayman Systems, 14700 Sweltzer Lane, Laurel, MD 20707-5905 (fax: 301-470-1580).

RI Club joins ARRL

Following rapidly on its ARRL affiliation, the South Coast Wireless Society has just been designated an

ARRL Special Service Club. This special recognition occurred in less than one month of the club becoming affiliated. As a very active club covering a wide range of Amateur Radio and community service activities, the club had no trouble in meeting the requirements.

1296 MHz Problem Solved

The New England Weak Signal Group indicated that an interference problem on 1296 Mhz in central New England appears to have been solved. Apparently, discussions between Amateurs experimenting with the band and the technical people at a radio astronomy site resulted in the radio astronomy people shifting their operating frequency.

VT Club supports weather in schools

The Vermont Amateur Radio Council (VARC) recently voted to support a program to place weather alert radios in Vermont schools. The program was developed by the Border ARC in memory of long time Ham, Hassal Nelson W1LTW. The "Lets Talk Weather" project, developed in conjunction with the National Weather Service will prioritize Vermont's 500+ schools from a weather severity and incidence standpoint and provide NOAA Weather Radios for schools as funds are raised.

FCC Shows increase in Hams

The latest FCC license data clearly shows the impact of two factors on the US Ham population.

	Dec, 93	Feb, 94	July, 94	Percent change Feb to July
Extra	65,277	65,439	65,113	-0.5%
Adv	112,637	111,900	108,751	-2.8%
Gen	126,898	125,799	121,799	-3.2%
Tech	227,681	230,649	245,481	+6.4%
			(Tech+ = 139,818)	
			(Tech = 105,663)	
Novice	99,105	97,255	91,693	-5.7%
Total	631,598	631,042	632,837	+0.3%

Notice the increase in Techs more than offsets the losses in all other license classes. Also notice that some sizeable percentage of those entering at the Tech level are passing their CW tests to move to Tech+.

Packet Directory

144.990 N1KBT	145.090 AA1FS	145.710 KA1THM
144.990 NS1N	145.090 K1UGM	145.710 KC1KM
145.010 Fara Digi	145.090 KG1CE	145.710 N1LDY
145.010 N1CSI	145.090 KD1NU	145.730 KC1UA
145.050 WA1ZUF	145.570 N1QWW	
145.070 WQ1O	145.530 KQ1K	

'94 SEMARA OFFICERS

President: Pete Carreiro, KA1WQJ, 993-6262
Vice-President: Robert Peckham, KA1YDG, 995-9137
Secretary: Karen Peckham, N1LIE, 995-9137
Treasurer: Pat Carreiro, KA1YUH, 993-6262

Board Members: William M. Miller, Jr., K1IBR
 Bill Field, WA1FYF
 Linda Medeiros, KA1QCO

Trustees: Bill Field, WA1FYF
 Morris Fogaren, WB1GJO
 Joe Midurski, W1EKW
 Edward Blouin, KA1AW
 Andrew Reuter, WA1FNM

Buildings/Grounds: Bill Field, WA1FYF, Chairman
Technical: William M. Miller, Jr., K1IBR, Chairman
Ways & Means: Pat Carreiro, KA1YUH, Chairman

The license renewal situation is apparently being shown in the Novice license numbers. This drop is probably a mix of Novices upgrading to Tech+ and people who got the license and then never got active or lost interest and probably will never renew.

Currently, almost 4 out of every 10 Hams hold the Tech/Tech+ license.

Space Briefs

Digital Satellites

The file server on LUSAT-OSCAR-19 has still not been made available possibly due to a power struggle within AMSAT-LU.

The packet mailbox on FUJI-OSCAR-20 is gone forever due to a failed computer. The analog (Mode JA) transponder is available, however. Two uplink channels on KITSAT-OSCAR-25 have failed. This causes uplink contention on the remaining uplinks. ITAMSAT-OSCAR-26 controllers have not had enough time to fix the problems with IO-26 since it's on-board computer crashed back in May. And POSAT-OSCAR-28 apparently came and went, unlikely to ever be seen again.

Repeater Directory

145.150 - WA1DGW, Fall River	443.450+ K1MYL, Westport
145.490 - KA1WBF, Fairhaven	443.600+ NS1N, Norwell
146.700 - WA1RBT, Cranston	443.800+ N1RFH, New Bedford
146.655 - WA1GPO, Falmouth	444.250+ WA1GPO, Falmouth
146.685 - N1OEG, Plymouth	444.350+ W1ACT, Fall River
147.000+ W1AEC, S. Dartmouth	444.550+ WA1ZUF, Bridgewater
147.045+ WA1AIG, Yarmouth	446.325 - KA1CLX, Plymouth
147.135+ ND1N, Taunton	446.625 - NC1K, Plymouth
147.180+ WB1FLD, Bridgewater	447.075 - N1DZD, Kingston
147.315+ N1BBT, Wareham	448.675 - N1FPH, W Greenwich
441.400+ WG1U, Assonet	
442.200+ NY1D, Fall River	

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

AMSAT-OSCAR

Several stations have reported that AO-10's downlink is FMing. Downlink frequency instability is due to low and varying battery voltages. This is a dangerous condition, and it is important that all ground stations curtail transponder operations when the frequency of the downlink becomes unstable to reduce the drain on AO-10's batteries and to allow them to recharge.

RS Satellite

Both RS-10 and RS-12 are both in good operating order. There is a lot of RS activity from stations in Germany, England, Italy, and Switzerland. Activity from the Commonwealth of Independent States is low, although there are some active stations in the Leningrad region, Siberia, and Moscow.

The ROBOTs (autotransponders) are functioning well on the satellites. There is a special channel on RS-10 that operates on an uplink frequency of 145.850 MHz and downlink of 29.350 MHz. The RS-14/AO-21 CW beacon (145.822 MHz) can sometimes be heard coming through RS-10's ROBOT, which has a downlink on 29.403 MHz.

No word regarding the launch of RS-15.

Encryption of MeteoSat HRI Transmissions

Starting in 1995, HRI data will be transmitted in encrypted form. Test transmissions have already been scheduled this year. This service will continue with the new High Rate Image Transmission (HRIT) to be introduced with the Meteosat Second Generation, scheduled for launch in the year 2000.

HRIT format will provide considerable enhancements to the information available from current Meteosat HRI transmissions.

For PDUS users to be able to use encrypted data they will need to obtain a decryption facility for use within their particular receiving station. Decryption will require a Meteosat Key Unit (MKU).

The apparent reason for the introduction of data encryption for meteorological data is its use by commercial enterprises, who do not contribute to the cost of data collection, but charge customers for the provided services.

There are no plans to encrypt analogue WEFAX transmissions of Meteosat data, so reception via SDUS (Secondary Data User Stations) will be unaffected. By

the time of the launch of the Meteosat Second Generation (MSG) satellite in the year 2000, a new and improved integrated digital data transmission system known as LRIT (Low Rate Image Transmission) will replace the current analogue WEFAX data formats and MDD. This system will extend much of the functionality and flexibility which are only available currently to users of PDUS equipment. Selected sections of the LRIT data (e.g. MDD) already subject to encryption, will continue to be distributed on a restricted basis.

China OSCAR

The Tsinghua University Amateur Radio Club (TUARC) in Beijing, China started its long-awaited OSCAR-13 Mode B operation on Tuesday August 23, 1994, signing BY1QH. The satellite ground station consists of a Yaesu FT-726R tribander (2m/70cm/6m), a Cushcraft AOP-1 system (an A144-20T 146MHz Twist antenna and a 416TB 435 MHz Twist antenna), a Kenpro KR-400RC azimuth and KR-500 elevation rotors, a Tokyo Hy-Power HL-120U 70cm amplifier, and a GaAsFET 2m preamp. Uplink power is around 25 watts.

The low uplink power is due to a defective 70-cm power amplifier and a replacement for it as well as a broken Yaesu MH-1 mobile microphone are sought. Anyone who can help is asked to contact Rick, BZ1QL at any of the addresses listed below.

TUARC would like to thank CRSA, the Chinese Radio Sports Association, as well as Sam N3NFK, Bill KA3HPQ, Jackie KA3HPP, Chris AA2MJ, Allan WA2JVI, Presley N5VGC, Max G0PBZ, Rick N6NR and all of the people who have been concerned about TUARC operations.

Salute AMSAT

1994 is the 25th Anniversary of the Founding of the Radio Amateur satellite corporation (AMSAT) a scientific, educational corporation devoted to providing satellites for the amateur service and disbursing information on how to use them to hams all over the world.

Youthnet News

Alexis Leynes, N9KYJ

What to do with your old ham books

1. If you have a few magazines, try donating it to your local school or public library. Not many libraries in this nation can afford to subscribe to all magazines, and not many libraries even have library material relating to ham radio. The same goes for books. The last time I

went to my local library, I found out that they still had an ARRL FCC Technician class license testing guide which expired sometime in 1982, and an ARRL manual dating back to the year of 1979 (I believe). Not many local libraries have up to date testing material in regards to ham radio.

2. If you have books to donate to your library, tell your ham club about it. When donating a book, have a page of information about the local ham radio club on the inside cover. For example, "If you have any questions about this book, contact the (club name) radio club". Include a phone number. This makes it easier for the reader to find out where to find the ham club.

Please take note, when you donate something either to your nearest ham club or library, please make sure that it is in a presentable condition. It is a good idea to get rid of the books you already used to prepare for your exam(s). For the past few years I have been licensed, I have yet to look up things in these exam booklets. But a handy book to have near by is a copy of the new FCC part 97, and an ARRL handbook (I just go to my library for the handbook).

It is time to get good mileage out of these used books, by donating them to your local library or ham club. This would allow others a chance to see what ham radio is all about, without investing a few dollars to purchase the books (a great way to cut the spending down). I can guarantee that someone out there will want to read it.

Finally, if you happen to see an out of date ham radio testing manual, please tell the librarian that the manual is outdated. This would prevent any future prospective ham from studying the wrong test material.

NASA and Science Data

NASA today selected BDM Federal, Inc., McLean, Va., to form a Remote Sensing Public Access Center (RSPAC) for demonstrating, testing and transferring technology to help provide public use of Earth and space science data over the Internet.

The intent of the new center is to stimulate broad public use, via the Internet, of the very large remote sensing databases -- maintained by NASA and other agencies -- to stimulate U.S. economic growth, improve the quality of life and contribute to the implementation of a National Information Infrastructure.

"We are looking forward to working with BDM to assist the public in accessing and using NASA data," said Lee B. Holcomb, NASA's Director for High Perfor-

mance Computing and Communications. "We envision that this center will play a key role in developing universal access to the products of NASA's Earth and space science research."

BDM will receive \$12.8 million under a cooperative agreement to establish the RSPAC, which will demonstrate, test and facilitate remote sensing database applications and new digital library technologies. BDM will be supported by West Virginia University Research Corp., Morgantown, and Jardon and Howard Technologies in Winter Park, Fla. The West Virginia University/NASA Independent Verification and Validation Facility in Fairmont, W.Va., will be the central site for RSPAC activities.

The center will extend access to remote sensing data beyond the usual scientific community. By providing Internet access and user help, remote sensing data now will be available to the educational community (from K-12 to the university level), television and print media, libraries and hobbyists. Because the data will be available over the Internet, non-traditional users will have much greater ease of access than in the past.

For Sale

Alinco DJ-180 with 200 memory chip. \$220. Call Larry, AA1FS, 991-6055.

Alinco DJ-160, with battery, pouch, mag mount and Concept RFC232. Call John, N11QU at 508-992-4440.

Wanted

PSU-3A Power Supply for "Swan" 700HF. Call after 4:40 pm, 508-993-7947, David, N1MVZ.

Nets

Law Enforcement Net

The International Police Association meets every Wednesday and Sunday at 1200Z on 21410. They look forward to check-ins from all over the world, and (depending on propagation) that is what they get. They have Police, Fire, EMS, Red Cross and just plain folks who have an interest.

Teen Packet Net

A fifteen year old ham in New York is starting a Teen Packet Net. The Teen Packeteers Amateur Radio Club, or TaPARC. This is a joint club with two branches,

Europe and USA. The "nets" are held every Monday at 9:00 pm EDT on the QSO nodes.

MARC- Motorcycling Hams

MARC, the Motorcycling Amateur Radio Club, is based in Southern California where it provides communication support and traffic control for a variety of community activities. Through packet radio, HF nets, and their newsletter they strive to share information with those interested in combining amateur radio and motorcycling.

Steve, KC6NDC, is net control, and has a regular group that routinely checks in from Maine to Florida. 16:00 PDT Tues. (23:00 UT Tues.) on 20 meters @ 14.260 USB, 17:00 PDT Tues. (00:00 UT Wed.) on 40 meters @ 7.260 LSB +/- QRM

Christian HF Net

ARMS, the Amateur Radio Missionary Service Net, meets every Saturday morning at 09:00 am on 3907kHz. They share prayer requests and scriptures and anything that is on someone's heart. Bobby, KC4ERJ calls the net.

Partner Packet Class

Dave Von Dielingen, AD8B, is looking for another packet-classroom to interact with his sixth-graders this coming school year. Desired activities are packetpal exchanges and educational challenges/contests/games that involve student research or logic.

If you have not done this before, please understand that to be successful this type of activity requires a significant commitment of time and effort.

The classroom is also equipped with HF SSB/AMTOR which will probably be used mainly to prepare students for the School Club Roundup.

Contact Dave via packet at AD8B @ K0PFX.#STLMO.USA, or phone 314-278-8653

APT Pictures from NOAA Satellites

Courtesy Dallas Remote Imaging Group

So you have decided you want to receive the NOAA and Russian METEOR orbiters and you have a radio that receives 137.500 MHz and a computer. So now

what do you do? I hope this short dissertation will steer you in the correct direction.

To display a picture from the orbiting birds you need several things. First you need to 'acquire' the satellite. This means you need the program to calculate its position at any time and determine if you can hear the signals from the 'bird'. The best place to get this program is probably AMSAT-NA an organization dedicated to Amateur Satellites. They have several good tracking programs for IBM, Commodore and Apple as well.

After you have acquired the program and have it running on your computer, you then need the Keplerian Elements for the NOAA satellites. These elements as well as some tracking programs are available from the CELESTIAL RCP/M, run by TS Kelso, at 513-427-0674 (Fairborn, OH) and from the Weather Fax and Remote Imaging DATALINK BBS run by Dr. Jeff Wallach, N5ITU as bulletins for some 100+ sets of satellite data. Another bulletin also tells you to what the printed numbers correspond so you can enter them into the computer program. Use the newest elements you can find as the orbiting satellites are subject to forces which change their orbits. If you use Keplerian Elements more than 3 or 4 weeks old, your chances of hearing the bird are reduced.

Once you are tracking the birds you should hear them on your receiver. They will be on 137.62 (NOAA-9/11), 137.500 (NOAA-10), and on 137.850, 137.400, and 137.300 for Soviet Meteorological Satellites/METEOR. The Chinese satellite Feng Yun transmits on 137.795 when it is operational. Now comes the first thing different about NOAA orbiters. The frequency deviation of the FM transmission is about +/-18-20 kHz. This is 4 times the normal deviation of a police call and 1/3 the deviation of the FM broadcast band FM signal. If you receive the signal on the regular communications width of the scanner the light areas of the picture will be noisy and the signal will sound distorted and the picture will basically be useless. If you use the FM broadcast bandwidth (assuming your scanner will let you), the signal will be weak and there may be too much background noise to see the picture.

So what now? Well there are two ways to fix the problem, find a receiver with the proper I.F. bandwidth filter of 50 kHz, or modify the I.F. of your scanner to about 50-80 kHz. The simplest mod which has been found to be workable is to remove the narrow communications I.F. filter and replace it with a 0.01 uFd capacitor. This provides for good Wefax pictures from GOES and pretty fair NOAA orbiter pictures - see March 1991, '73 Amateur Radio Today' article for a description of this procedure. It can of course result in retuning the radio, voiding the warranty and ruining the squelch.

The other characteristic of the NOAA satellite transmissions is they are weak. To get good pictures over a large area a pre-amplifier is considered essential. A GaAs-FET type can be obtained from various sources at a reasonable price but still about 50-100 dollars. You can also build one for about 25 dollars from plans for a pre-amp for the 2-meter amateur band and tune it to 137.5 MHz easily.

Lastly, but importantly, the antenna can be of an omnidirectional, uniform pattern type such as a turnstile antenna similar to those used in the FM broadcast reception business but of course tuned to 137.5 MHz. Broomsticks have been known to work, and it is not difficult to build the antenna. Of course 2-meter beams with Az/El tracking will do the job well.

Now that you have a nice audio signal from the satellite, what happens next? The audio tone of 2400 HZ which is the carrier tone that is used to carry the picture information (video), must be detected and the video data converted from analog to digital and then displayed on the computer monitor by the software.

The hardware and software to do this is available from several sources with more coming along. Several stand-alone boxes are also available that produce some form of computer output either in printed form or on the display. In addition the people on the DATALINK BBS may also have some data to share with you regarding this equipment.

One of the best sources for information is the WEATHER SATELLITE HANDBOOK by Dr. Ralph Taggart. The 4th edition is now available from the ARRL. A must is THE JOURNAL OF THE ENVIRONMENTAL SATELLITE AMATEUR USERS' GROUP - JESAUG - which is published quarterly. It is available for \$30.00 per year from the editor, Jeff Wallach, PO Box 117088 Carrollton, TX. 75011-7088. Back issues of the JESAUG are also available.

One good place to start is with the Elmer Schmittek MULTIFAX or the MULTIFAX MAP software which runs on the IBM PC. The PC interface hardware is available as printed circuit board alone, board and all parts, or completely assembled. Additional image processing software is available online DATALINK.

The units available from David Schmittek, Ralph Taggart, Jerry Dahl, GTI Electronics and Quorum communications listed under Sources are all well worth investigating if you are just getting started.

You can obtain directly from DATALINK the MULTIFAX MAP interface hardware designed by Jim Bartlett and David Schmittek.

New FCC Test

Washing Tons, DC

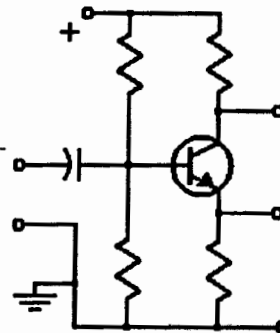
The FCC announced another change in amateur licensing rules. Going into effect in early April, applicants will no longer have to take a written test. Instead, they will be expected to present, explain, and demonstrate the function of a piece of home-made amateur equipment appropriate to the class of license sought.

Citing the precipitous decline in "home-brewing", one of the original justifications of amateur radio, the Commission is exercising emergency powers in putting the new rules into effect directly without the customary Notice of Proposed Rulemaking. The comment period on this new legislation expired the day before the announcement.

When pressed for a definition of "home-made," the Commission spokeswoman was a bit vague, but indicated that the use of AMERICAN MADE [emphasis from FCC] manufactured components (including transistors and integrated circuits) was definitely approved and that the use of plans from a book or magazine was acceptable. (Parenthetically, she added that applicants using designs published in 73 Magazine would be relieved of the requirement to demonstrate the correct function of their devices.)

The spokeswoman said that the Commission felt that correctly answering questions posed by the examiner during the explanation and demonstration phases of the new examination would be sufficient evidence of competency and that further testing on theory, practice, or regulations would not serve a useful purpose. (A test on the transmission and reception of Morse Code will be included in the required equipment demonstration.)

The Commission indicated further that, while existing amateur operators are not directly affected by this ruling, all licensees renewals after April will have to qualify under the new procedures.



Can you discover the function of this circuit?

The Commission will be mailing specific testing guidelines and approved equipment lists to VECs soon.

VE EXAMS

September

- | | | |
|-----|------------------|----------------------|
| 17: | Melrose, MA | Scott, 617-322-7654* |
| 18: | Shirley, MA | Tom, 508-425-6672 |
| 21: | Cambridge, MA | Nick, 617-253-3776 * |
| 21: | Lunenburg, MA | Tom, 508-534-9377 |
| 23: | Holyoke, MA | Jim, 413-245-3228 |
| 24: | Slatersville, RI | Bob, 401-333-2129 |
| 25: | Framingham, MA | Dick, 508-877-0563 |

October

- | | | |
|----|-----------------|------------------------|
| 1: | Boxboro, MA | Dexter, 508-774-1765 * |
| 2: | Boxboro, MA | Dexter, 508-774-1765 * |
| 2: | Shirley, MA | Tom, 508-425-6672 |
| 3: | Cambridge, MA | Bob, 617-593-1955 |
| 5: | Acton, MA | Dave, 508-263-3712 * |
| 8: | Marlborough, MA | Bill, 617-891-9079 |
| 8: | Braintree, MA | William, 617-843-4400 |
| 8: | Brewster, MA | Henry, 508-255-2818 |
| 8: | Chicopee, MA | Jim, 413-245-3228 |
| 8: | Falmouth, MA | Geoffrey, 508-548-0969 |

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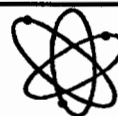
Apples • Pears • Peaches
Sweet Apple Cider • Squash
Westport Macomber Turnips
Hay & Custom Work



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Westport, MA 02790

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VE EXAMS (Continued)

- | | | |
|-----|----------------|----------------------|
| 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* |
| 16: | Shirley, MA | Tom, 508-425-6672* |
| 19: | Cambridge, MA | Nick, 617-253-3776 * |
| 19: | Lunenburg, MA | Tom, 508-534-9377 |

CALENDAR

- | | |
|-------------------------------|--------------------------|
| September | 16: MIT Flea Market |
| 17: Ham Awareness Day | 29: National Exam Day |
| 18: MIT Flea Market | November |
| 25: Ham Fest, Framingham | 3: 7:30p, SEMARA Meeting |
| October | 12: Flea, Plymouth |
| 1-2: ARRL NE Div. Convention | December |
| 6: 7:30p, SEMARA Meeting | 1: 7:30p, SEMARA Meeting |
| 7, 8: Hoss Traders, Rochester | |
| 15: JOTA 1994 | |

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South Dartmouth, MA 02748

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