

"OLE VIRGINIA HAMS" AMATEUR RADIO CLUB, INC

Post Office Box 1255, Manassas, Va. 22110

Repeater-WA4FPM-146.970/224.660 Out-146.370/223.060 In

OVH Nodes-Port 1: 145.030 Port 2: 223.660 Port 3: 223.540 MILZ

BBS-BBSHRG/N4WJN (SYSOP-BILL)

OLE VIRGINIA TIMES

JANUARY 1995

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THE WORD FROM THE "POINT PERSON"

Jim, WD4OJY - President of the OVH

HAPPY NEW YEAR EVERYONE !

Please accept my best wishes to you and to your families for the New Year ahead. I hope you got that new piece of gear you needed from Santa. The weather seems to be doing its part to help you get those new antennas up, so you'll be ready for that next operating event.

Speaking of operating events, the ham radio community is buzzing with the news of a new Soviet Radio Sport satellite launched on the 27th of December. RS-15 is orbiting twice as high as the other RS birds and with its 2 meter uplink and ten meter downlink it should be easy and fun to use. I copied its beacon (29.354 mhz) using my indoor 10 meter antenna when it was crossing the Southern California coastline which means its area of coverage is quite large.

Many things in this hobby are constantly changing and it's especially evident in the packet portion of ham radio. With the changes at the DCA node stack, high speed forwarding and the new software on the market, it's time for an update. Bill, N4WJN, is hoping to come in and bring us up to date on what's going on locally and how we will be affected by what's going on. This should be of interest to those of us already using packet, and also to those old and new hams thinking about getting into this new mode in the future.

Don't forget, the next meeting is on Monday the 16th and I'll look forward to seeing you there so...73 for now.

Jim/WD4OJY

"OLE VIRGINIA HAMS"

Post Office Box 1255
Manassas, VA. 22110

OFFICERS

President: Jim McKinley WD4OJY
Vice Pres: Ervin Whalen KD4DFB
Secretary: Ivan Reeder KD4DFD
Treasurer: Jimmy Lascaris WA2QEJ

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Don (Butch) Blasdell W4HJL
Tim Wayne KB4NR

MEMBERSHIP CHAIRMAN

Chuck Ahalt KE4JWY

1995 HAMFEST CHAIRMAN

Scott Bellefeuille KE4HCT

WEEKLY VHF NET CONTROL

Thursdays - 8:00 PM - 146.97 & 224.660 Mhz

Harry Vorhauer W4PVA

The OVH Times is the official publication of the "Ole Virginia Hams" ARC and is published on a monthly basis. The OVH ARC is a non-profit organization dedicated to the promotion and enhancement of Amateur Radio. The OVH ARC meets at 8:00 PM every third Monday of the month, at the Northern Virginia Electric Coop, located at 10323 Lomond Dr., Manassas, VA. Prospective members are invited.

Local information can always be obtained, at any time, through the usage of the OVH repeaters (146.97 & 224.660 Mhz). All are welcome.

Permission is hereby granted for the reprinting of articles and quotations in this letter, provided full credit is given to the OVH ARC and the author of the article. Contribution of printed articles by both members and non-members is encouraged. The deadline for submissions is the 9th of each month. Submissions should be forwarded to OVH TIMES EDITOR:

Scott C. Bellefeuille KE4HCT
2170 Logmill Rd.,
Haymarket, VA 22069

Letters to the Editor and Classified Ads are accepted and welcome. Approx Circulation -155

OVH 440 MACHINE ???

Is it possible that the OVH club will add another repeater to their existing pair of machines? It is indeed possible, but the final word will be left to the general membership to vote upon, possibly during the January or February meeting. It will be the decision of the membership, yea or nay.

I hope you all we attend the next couple of club meetings, so first, we can find out if there is any support for the project. If there is support, a proposal will be made on the floor to fund the machine with club funds. The machine will be the property of the OVH club. Please bear in mind that there are other issues to consider, such as the club budget and whether or not we, as a club, want to commit the financial resources.

Why a 440 machine? Adding another repeater would improve and increase our coverage of western Prince William County for starters. As you well know, there is a significantly lower 2m reception condition in this area. For further information, see the column "Repeater Notes" by W1CRO on page 4. Also, this will obviously double our communication potential in times of need, such as emergencies and disasters. This machine could be a back-up to the main 146.97 machine in Manassas. Also, the 70 cm frequencies are filling up. At a later time, the 440 machine could be linked to the 2m machine as necessary, or if a member wanted to bring up the link for whatever reason.

I have already submitted the required paperwork, requesting the 70 cm pairs to be assigned by T-MARC. I have heard an unconfirmed report that the request has been approved. I have also agreed to host the 440 machine on my 100' tower, on Bull Run Mtn. I will feed it and give it a home.

It is my desire to put a 440 machine into service at this site, and have it open to all to use. The only question that remains is... will I need to commit my own financial resources for the benefit of all. I would prefer that OVH be the owner and operator of this machine. So, OVH, what have we done for amateur radio lately?

The matter should and needs to be decided by the club members. If you are so inclined, I would strongly urge you to attend the next couple of meetings. We need to hear from each of you as to what your thoughts and feelings are on this issue. You decide!

Scott/KE4HCT

The View From Here... The Top Of The Tower

Happy New Year OVH! I hope the holidays were enjoyable for you and your family. I had a chance to travel north to "upstate" New York and visit my family over Christmas. While I was entering the Syracuse area from the south, I made contact with a fellow ham by the name of Tim Colson/N2VZD, a member of the Liverpool Amateur Repeater Club, located in North Syracuse. Tim welcomed me back to the area (my hometown of twenty some years) and made me feel like I had never left. I also made a couple more QSO's with Tim while I was there. Simply put, I am proud to be a member of the ham community which really has no boundaries or limits. I sometimes wonder what our society would be like if everyone was a "ham". My sincere thanks go out to Tim/N2VZD and the Liverpool ARC, you folks certainly represent the ham tradition!

As a result, we will be exchanging newsletters with the Liverpool ARC. OVH currently exchanges eight or nine newsletters with various other clubs around the country. If you're out traveling and make contact with what you think is a quality amateur radio club, go ahead and ask if they would like to exchange newsletters with us. Simply, ask them to send their newsletter to the Newsletter Editor, OVH, P.O. Box 1255, Manassas, Va. 22110. Oh, and don't forget to get their address recorded and then drop me a packet message so I can welcome them aboard. I think I will begin to bring some of these newsletters to the club meetings so that club members will be able to take them home to review for your pleasure and interest. I'm sure some of you would like to know how other clubs carry on their activities.

Speaking of newsletters, I was quite surprised to read the December issue of the "Oscillator", the official newsletter of the Barnstable Amateur Radio Club on Cape Cod, Massachusetts, and discover that my article "The Wizard Of Wireless... Did He Know What He Started?" was reprinted in their newsletter. At the beginning of the article, the editor's note went like this... *"The following article is re-printed from the OVH Times, the newsletter of the Ole Virginia Hams Amateur Radio Club of Manassas, Virginia"*. So, don't think that the our club name isn't getting around! I created this piece while vacationing this summer on Cape Cod and visiting the famous Marconi Radio site. I know that I'm somewhat a newcomer to this hobby, yet I still can't get over that ham radio is apparently without set boundaries. Speaking of hams that make you feel at home, I highly tout the folks at the Barnstable ARC as such. I enjoyed your latest newsletter.

The "View From Here... The Top Of The Tower" is now a reality! The tower now stands at 100 feet high with terrific views into Centreville and Washington, D.C. The County came out and gave their final blessing and approval, and you know, I never had anything but cooperation from those people. I hope to get some photos of the views from up there and bring into one of the upcoming club meetings for all to view, I'm sure you all will be amazed. I, myself, was just overwhelmed with the views from up there. Once again, let me thank all of you who participated and gave me your time and your helping hand. I learned a great deal about a lot of things, including hams. As I have said before, this Editor's column is meant to be taken as "different perspective" on various issues affecting our club. Believe me, things definitely do look different from a 100 feet up! I do intend to give the club members that different angle in hopes of stirring up interest, and creating a better club for all of us to enjoy.

Since we're on the subject of "towers" (my favorite area of ham radio!), a funny thing happened to me the other day while I was on the air looking for "hardline" for my tower. It all came about quite unexpectedly, to say the least. I just happened to come about 95 feet of Rohn 45G tower, which is now laying in my back yard, for quite a deal. Apparently, the owner, who was not a ham, was seriously thinking of scrapping the entire tower for lack of anything better to do with it. Golly, that really hits the real ham below the belt! Do you think I could become a member of the Humane Society for saving this tower from the ultimate death? So guys, how about we all get together this Spring and do it again! I hoping that this tower will go up to about 120 -130 feet, and construction to begin in the early Spring. Yes, I need another tower like I need a ... I suppose you can call me "T.G." from now on. You've really got to wonder about a guy, who's drives by the old vacant radio station by the airport, and just stops and stares at those three big towers that aren't being used. If someday those towers are reported stolen, they're are probably going to first come and look in my backyard. What's T.G. mean? Tower Geek of course!

Well, OVH, that's "The View from Here" this month. Let's start the new year with high hopes for our club!

Repeater Notes: Initial Survey Completed!

Jimmy, WA2QEJ and Art, W1CRO completed the initial repeater coverage survey during the weekend of 17 & 18 December 1994.

The results confirmed what experience has shown; coverage toward the northeast (along the I-66 corridor) is generally better (+ 10 dB) than in other directions; and, we have a wedge-shaped area of lower signal power in coverage toward the northwest (toward the Bull Run Mountains and Winchester). Generally, the received signal was 10 dB lower in the Bull Run Mountain area than it was at other measurement points. A check of the VHF spectrum, while 10 miles northwest of the repeater (near the Bull Run Mountains), indicates heavy, continuous use by many high power emitters; installing a VHF repeater in that environment would guarantee us a permanent spot in the aspirin commercials.

Preparation for the survey included rechecks of all physical information (tower height, antenna height and terrain height along each 10 mile radial to be checked) and map plots, and reviews to identify survey points that were accessible by vehicle. Jimmy, WA2QEJ obtained the survey equipment and checked it out prior to embarking on the trip. The survey equipment included a Watkins-Johnson "Miniceptor" receiver (WJ-8654), a Toshiba notebook computer, a Watkins-Johnson software package (for receiver control and spectrum information display) and a 1/4 wave whip mounted on

Jimmy's van.

The survey took about eight hours elapsed time over two days. The repeater output was measured at eight specific points, each point located 10 miles from the repeater tower (N, NE, E, SE, S, SW, W and NW). In addition, measurements were taken at a number of intermediate locations to help in characterizing the coverage pattern. Readings were taken at the base of the tower and repeater power output (at the duplexer output) was measured. All measurements taken with the "WJ" survey equipment were recorded in dBm (dB referenced to 1 milliwatt). The repeater output was measured using a Bird Wattmeter (directly in Watts). Finally, we sketched the tower and antenna orientation for use in calculating revised coverage patterns.

So, what's next? Art, W1CRO has all the data collected, and after the holidays are out of the way, will be working on antenna coverage plots and calculations to determine if a simple reorientation of the antenna elements (one or more of the four dipoles) will improve coverage to the northwest without seriously affecting coverage in other areas. Stay tuned. The results will be presented at a Club meeting in the near future.

73, Art W1CRO/WA4FPM.

▶ THE "FOR SALE" CORNER~

TEKTRONIX Oscilloscope, Model 543B, Serial No. 000176.

With 1A2 Dual Trace Plug-in Unit, Serial No. 005870. Roll-around Scope Cart included. \$75.00

HEWLETT-PACKARD RF Signal Generator, Model 608D, Serial No. 548-11178.

Covers 10 - 420 MHz. AM, FM and Pulse. Has internal modulation at 400/1000 Hz.

External modulation input, external Pulse modulation input \$160.00

HEATHKIT Oscilloscope, Model 10D-203-31, Series 03536, 5 MHz, solid state. \$25.00

COMPAQ Monochrome Monitor, nine inch \$15.00

AMDEK Monochrome Monitor, Model 310A, nine inch \$15.00

Monitor Base: swivel mount for 9-15" monitor. \$2.00

IDE Controller CCA, Model PT-604A.

Controls 2 HD, 2 FD; has two serial ports, one parallel port, one game port. With HD/FD cables and manual \$10.00

SERIAL I/O CCA, Model PE-508. Has two serial ports, one parallel port, one game port. With manual. \$5.00

GRAPHICSMITH Video CCA, Monochrome graphics 720 x 340. Provides support for CGA, MGA Graphics.

Hercules compatible. Has parallel port and light pen port. With manual \$5.00

JUKO Video CCA.

Provides support for CGA, MGA Graphics. Hercules compatible. Has parallel port, mouse port and game port.

With manual and software set-up. \$5.00

HEATHKIT Ignition Analyzer, Model CO-1015. With Operation Handbook \$20.00

GIVE AWAY TO GOOD HOME:

Lotus Magazine (1985 - 1992)

May 85 - JAN 92. Contains all kinds of articles and tips for Lotus123. Good reference material for spreadsheet users.

QST Magazine FEB 85 - DEC 85.

Journal of Electronics Defense FEB 87 - DEC 88.

Operations Research Volumes 35, 36 and 37; JAN 87 - DEC 89.

IEEE Transactions on Communications, Vol 40, No. 11, NOV 92 and Vol 41, No. 1 - 12, JAN 93 - DEC 93.

IEEE Transactions on Signal Processing, Vol 41, No. 1 JAN 93.

Contact Art, W1CRO on 146.97 MHz or 703-791-4330 or leave msg on BBSHRG.

A Few Words About Resonance

From "The Voice Of Manassas"

I have discussed a number of subjects in the past and one might find that some of these are partially included here in an attempt to make things more easily understood.

What is Resonance?

Resonance in technical use is the natural period that an object responds to/at, when excited by a sharp pulse of energy. One example of this is a bell when struck, it rings at a particular frequency. In electrical circuits, it is the frequency at which the circuit "rings" when excited by an electrical pulse. The ring (or tone) can be sustained by a string of continuous pulses - each given at a critical moment. A single wire (we know them as an antenna) will be resonant at a particular frequency (and the harmonics there of).

It is well, at this point, to point out that a harmonic is defined as an exact multiple of a given frequency. A capacitance/inductance combination acts in a somewhat similar fashion, but that is beyond this discussion.

The Dipole Antenna

A dipole antenna is defined as a straight length of wire, cut at the center and fed with radio energy at this point. It has a fundamental resonance that is determined by it's length. However, nearby conductive objects can affect it's resonant frequency. Fundamental resonance occurs at the frequency whose free space wavelength is about 1.05% the wire length. Therefore, when one builds a dipole, the length should be made to be about 95% of the frequency that operation is intended at. This is given by a formula as follows;

$$\text{Length (in feet)} = \frac{468}{\text{Frequency (in Mhz)}}$$

Why should a Dipole be made Resonant?

Since a dipole is most often fed with a coaxial cable, a dipole is made resonant to minimize cable losses and thus get the maximum power out into the air. Note - this statement glosses over the technical reasons that would cause this excessive loss.

Harry/W4PVA

WORLD RADIOSPORT TEAM CHAMPIONSHIP - 1995

The World Radiosport Team Championships will be held in the Washington/Baltimore area on July 8-9 1995. The Potomac Valley Radio Club has agreed to organize the event. The event will take place within the IARU World HF Radio Championship Contest.

The organizers are looking for area hams to act as a host station, with final selection determined by those that have antenna performance as close as possible to the overall antenna performance average of the applicants. A rating system and adjustment by the number of stations required will be the key factors. The rating system will include an estimate of surrounding terrain. The minimum antenna system can be a tribander at 35' with dipole performance for 40 & 80 meters. Last year's towers ranged from 40' to 100'.

Operation will continue for 24 hrs, from 8 am Saturday, to 8 am Sunday. Station hosts are not expected to house the operators, but hosts may offer housing. Hosts will need to provide the transceivers, antenna system, electric power, and operating table. Also, a computer and VCR will be needed. Immediate identification of host stations is a high priority, because much of the planning depends on the number of available stations.

If you can participate or have questions, please call Bill Levitt/W3AZ, Chairman of Site Committee, at 301-292-5797. Call during the daytime or before 9:00 pm.

The Editor/KE4HCT

QST DE W1AW

FROM ARRL HEADQUARTERS
NEWINGTON CT DECEMBER 16, 1994

VANITY CALL UPDATE

THE FCC AUTHORIZATION ACT THAT WOULD HAVE CONVERTED AN ANNUAL REGULATORY FEE FOR AMATEUR RADIO SO-CALLED "VANITY CALL SIGNS" TO A ONE-TIME APPLICATION FEE FAILED TO PASS IN THE LAST SESSION OF CONGRESS. THE BILL, HR 4522, PASSED THE HOUSE BUT FAILED IN THE SENATE, DESPITE A CONCERTED LAST-DITCH EFFORT BY ARRL TO HAVE THE BILL CONSIDERED DURING THE LAME DUCK SESSION DECEMBER 1.

"BROADCASTING AND CABLE" MAGAZINE ATTRIBUTED THE BILL'S DEFEAT TO OPPOSITION (TO UNRELATED PROVISIONS) BY THE NATIONAL ASSOCIATION OF BROADCASTERS. THE FCC NOW IS EXPECTED TO INTRODUCE A VANITY CALL SIGN PROGRAM WITH A 70 DOLLAR(S) FEE, RENEWABLE EVERY 10 YEARS. MORE INFORMATION ON THIS AND OTHER WASHINGTON MATTERS WILL APPEAR IN JANUARY "QST."

DECEMBER 16, 1994

PRB-1 VICTORY

PRB-1 HELPS WIN ANOTHER ONE. AN AMATEUR IN LYME, CT, HAS WON A FEDERAL COURT GO-AHEAD TO INSTALL A 78-FT TOWER AFTER A BATTLE OF SOME THREE YEARS. F. PARKER HEINEMANN, W1YG, WAS DENIED A SPECIAL EXEMPTION BY THE TOWN PLANNING AND ZONING COMMISSION. HE THEN FILED A CIVIL SUIT AGAINST THE TOWN. IN LATE OCTOBER, US DISTRICT JUDGE GERARD L. GOETTEL SAID THAT THE TOWN HAD ACTED IN GOOD FAITH BASED ON THE INFORMATION IT HAD AT THE TIME OF THE APPLICATION, IN MARCH 1991, BUT ORDER THE TOWER APPROVED BECAUSE THE JUDGE SAID, "I THINK FEDERAL LAW IS ON THE SIDE OF HAM RADIO OPERATORS IN THIS CASE."

DECEMBER 21, 1994

PENALTIES IN VE FRAUD

TWO FORMER VOLUNTEER EXAMINERS IN SOUTHERN CALIFORNIA HAVE SURRENDERED THEIR AMATEUR STATION AND OPERATOR LICENSES IN AN EXAMINATION FRAUD CASE, AND A THIRD HAS AGREED TO A SETTLEMENT.

AMATEUR EXTRA CLASS LICENSEES ROBERT L. FLORES, N6WPQ, AND ROSE MARIE FLORES, N6WPR, BOTH OF SANTA MONICA, CALIFORNIA, FACED AN FCC ORDER TO SHOW CAUSE AND SUSPENSION ORDER FROM SEPTEMBER 1994, IN A CASE INVOLVING EXAMINATIONS CONDUCTED IN AUGUST 1993. THE FCC ALLEGED THAT THE VES WILLFULLY SIGNED VE CERTIFICATES AND CERTIFICATES OF SUCCESSFUL COMPLETION FOR PERSONS WHO DID NOT ACTUALLY TAKE EXAMS.

THE FCC ALSO SAID THAT THE VES MISREPRESENTED MATERIAL FACTS TO THE COMMISSION.

THE THIRD VOLUNTEER EXAMINER, AMATEUR EXTRA CLASS LICENSEE JAMES B. WILLIAMS, AA6TC, OF WILMINGTON, CALIFORNIA, AGREED TO A ONE-YEAR SUSPENSION OF HIS OPERATOR LICENSE AND A "VOLUNTARY CONTRIBUTION" OF 500 DOLLAR(S) TO THE US TREASURY. WILLIAMS ALSO AGREED TO COOPERATE FULLY WITH THE FCC'S PRIVATE RADIO BUREAU'S INVESTIGATION OF POSSIBLE ADDITIONAL FRAUD IN AMATEUR LICENSE EXAMS.

THE LICENSES OF ROBERT L. AND ROSE MARIE FLORES HAVE BEEN CANCELED.

DECEMBER 22, 1994

2400-MHZ COMMENTS FILED

THE ARRL HAS FILED COMMENTS ON AN FCC NOTICE OF PROPOSED RULE MAKING, IN ET DOCKET 94-32, A PROPOSAL TO REALLOCATE A BLOCK OF SPECTRUM FROM FEDERAL GOVERNMENT TO COMMERCIAL USE. SOME OF THAT BLOCK INCLUDES PARTS OF THE 2400-MHZ BAND SHARED BY AMATEUR RADIO ON A SECONDARY BASIS WITH THE GOVERNMENT.

THE ARRL ASKED THAT THE AMATEUR SERVICE BE GIVEN PRIMARY ALLOCATION STATUS AT 2402 TO 2417 MHZ, AND THAT IT BE GIVEN AT LEAST CO-PRIMARY STATUS AT 2390 TO 2400 MHZ.

THE LEAGUE ALSO SAID THAT BECAUSE A PREVIOUS GOVERNMENT STUDY HAD RECOMMENDED THE 2400 TO 2402 MHZ SEGMENT FOR AMATEUR USE, IT WOULD BE DESIRABLE TO MAKE THE ENTIRE SEGMENT 2390 TO 2450 MHZ AMATEUR PRIMARY.

THE ARRL ALSO SAID, IN A 29-PAGE COMMENT, THAT ANY FIXED OR MOBILE SERVICE STATION THAT IS GRANTED AN ASSIGNMENT AT 2390 TO 2400 MHZ, "MUST BE" REQUIRED TO PROTECT THE AMATEUR SERVICE FROM INTERFERENCE AND MUST TOLERATE ANY INTERFERENCE RECEIVED FROM AMATEUR STATIONS.

THE LEAGUE REQUESTED THAT THE FCC NOT MAKE ANY ADDITIONAL ALLOCATIONS IN THE 2390 TO 2417 MHZ BAND AND, INSTEAD, GRANT AMATEUR RADIO PRIMARY ALLOCATION STATUS IN THAT BAND.

MORE INFORMATION WAS IN JANUARY, 1995 QST, PAGE 91. THE REPLY COMMENT DEADLINE IN THIS DOCKET IS JANUARY 3, 1995.

DECEMBER 27, 1994

RS-1 5 IN ORBIT

ON DECEMBER 26 AT 0300 UTC, THE RUSSIAN RS-1 5 SATELLITE WAS LAUNCHED FROM THE BAIKONUR SPACE CENTER IN RUSSIA. THE SATELLITE WAS LOFTED INTO SPACE BY A "ROKOT" LAUNCH VEHICLE. ROKOT IS A HYBRID CREATED FROM THE FIRST AND SECOND STAGES OF AN SS-19 INTERCONTINENTAL BALLISTIC MISSILE AND A NEW THIRD-STAGE BOOSTER KNOWN AS "BRIZ." RS-1 5 IS ONLY THE SECOND AMATEUR RADIO SATELLITE TO INCLUDE MODE A CAPABILITY (THE OTHER IS RS-1 0). THE SATELLITE IS ALREADY OPERATING AND SEVERAL HAMS REPORT SUCCESSFUL CONTACTS.

RS-1 5 TRANSPONDER FREQUENCIES:

UPLINK: 145.858 TO 145.898 MHZ
DOWNLINK: 29.354 TO 29.394 MHZ
CW BEACON 1: 29352.5 KHZ
CW BEACON 2: 29398.7 KHZ

MODES ARE CW AND SSB ONLY.
W1AW WILL TRANSMIT RS-1 5 KEPLERIAN ELEMENTS WHEN ACCURATE ORBITAL DATA BECOMES AVAILABLE.

THE RS-1 5 COMMAND STATION INVITES SIGNAL REPORTS AND COMMENTS:

RS3A
PO BOX 59
MOSCOW 105122,
RUSSIA

INTERNET E-MAIL: RSGROUP AT OLYMP.MSK.SU
PACKET: RS3A AT RS3A.MSK.RUS.EU

NEWS FROM VIBROPLEX CO., INC

The Vibroflex Co., Inc., the "Oldest Name in Amateur Radio", has been acquired by S. Felton Mitchell, Jr., of Alabama. Mitch, whose amateur call is WA4OSR, is an "extra class" amateur first licensed in 1963, and is the first ham to own the company. Vibroflex will be moving all its' operations back to the south, where its' roots began in 1890. All current Vibroflex products, including the Original bug, the Iambic, the Vibrokeyer, and the Brass Racer keys will continue to be produced.

The new address of Vibroplex is 11 Midtown park, E., Mobile, AL 36606-4141. The new voice telephone numbers are 205-478-8873 and 800-840-8873. The new fax number is 205-476-0465. *The Editor*

THE NEW YEAR...

IT'S TIME TO RENEW MEMBERSHIP AND BRING IN THE NEW CLUB OFFICERS!

Once again, it's that time of the year to renew your membership and bring in the new club officers. The January club meeting will see a new slate of officers proposed to the membership by the nominating committee, headed by Butchie/W4HJL. Voting will be conducted at the February OVH club meeting. So, for your convenience...we've included your OVH renewal form right below here!

1995
RENEWAL APPLICATION
OLE VIRGINIA HAMS AMATEUR RADIO CLUB

NAME: _____ CALL SIGN: _____

ADDRESS: _____ TELEPHONE: _____

ARE YOU PRESENTLY AN ARRL MEMBER: (YES/NO)

DO YOU WANT YOUR TELEPHONE NO. LISTED IN THE OVH ROSTER: (YES/NO)

WHAT IS YOUR PRESENT LICENSE CLASS: _____

Dues are \$6.00 per year and payable on January 1st. of each yer. Dues are \$3.00 after July 1st.

Dues for additional family members living at the same mailing address are \$3.00 per year.

AMOUNT YOU ARE SENDING: _____

NAMES AND CALLS OF FAMILY MEMBERS (IF ANY):

Please fill in all the requested information (PLEASE PRINT) and return to :

(Or bring to the next meeting)

Treasurer, OVH
P.O. BOX 1255, Manassas, VA 22110

MORE QST DE W1AW

FROM ARRL HEADQUARTERS
NEWINGTON, CT JANUARY 4, 1995
TO ALL RADIO AMATEURS

NEW SATELLITE PLANNED

A SATELLITE NOW BEING DESIGNED IN SOUTH AFRICA WILL INCLUDE AN EXTENSIVE AMATEUR RADIO PACKAGE AND IS SCHEDULED FOR LAUNCH IN JANUARY 1996, ACCORDING TO SOUTH AFRICAN AMATEUR SATELLITE ENTHUSIASTS, AS ANNOUNCED IN A RELEASE FROM HENRY CHAMBERLAIN, ZSI AAZ.

CALLED SUNSAT, THE SATELLITE IS BEING DESIGNED AND BUILT BY ENGINEERING STUDENTS AT THE ELECTRONIC SYSTEMS LABORATORY AT STELLENBOSCH UNIVERSITY.

IN EXCHANGE FOR A US NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LAUNCH, SUNSAT WILL CARRY A PRECISION GPS RECEIVER AND A SET OF LASER RETRO-REFLECTORS, FOR NASA'S USE.

THE AMATEUR RADIO PAYLOAD WAS APPROVED AT THE SA-AMSAT SPACECON 91 CONFERENCE. IT INCLUDES DUPLICATE TRANSMITTERS AND RECEIVERS FOR THE 2-METER AND 70-CM BANDS, A 24-CM (1260 MHz) RECEIVER AND 13-CM (2400-MHz) RECEIVER. A NUMBER OF UPLINK AND DOWNLINK FREQUENCY COMBINATIONS ARE POSSIBLE.

SUNSAT WILL OFFER EXTENSIVE DIGITAL COMMUNICATION CAPABILITY. ONE OF THE 2-METER RECEIVERS HAS FOUR IF SECTIONS CONNECTED TO 1200-BAUD AFSK PACKET MODEMS. THE SATELLITE CARRIES THREE G3RUH-COMPATIBLE 9600-BAUD MODEMS THAT CAN BE SWITCHED TO VARIOUS RECEIVERS AND TRANSMITTERS. THE DESIGNERS SAY THAT GROUND-STATION REQUIREMENTS ARE MINIMAL. DATA COMMUNICATION BETWEEN STATIONS RUNNING 10W TRANSMITTERS AND DIPOLE ANTENNAS WILL BE PRACTICAL. SINCE LARGE QUANTITIES OF DATA CAN BE STORED IN THE SATELLITE, GLOBAL DATA TRANSFER WILL BE POSSIBLE.

SUNSAT CARRIES A NUMBER OF EDUCATIONAL EXPERIMENTS, INCLUDING A 2-METER "PARROT" MODE REPEATER INTENDED FOR AMATEURS NEW TO SATELLITE OPERATING. UPLINKED SPEECH WILL BE DIGITALLY STORED AND RETRANSMITTED ON THE SAME FREQUENCY, ENABLING SCHOOL USERS TO HEAR THE RETRANSMISSION AND KNOW THAT THEY ARE GETTING THROUGH.

DECEMBER 12, 1994

NEW 144 MHZ RECORD

A NEW TROPOSPHERIC DUCTING, CONTINENTAL DISTANCE RECORD HAS BEEN REPORTED ON THE 144 MHZ AMATEUR BAND. ON NOVEMBER 5, RENE SHAW, WB4MJE, OF BIG PINE KEY, FLORIDA, AND SERGE SZPILFOGEL, VE1KG, OF HALIFAX, NOVA SCOTIA, WORKED OVER A 1687 MILE PATH.

THE PREVIOUS RECORD WAS 1468 MILES, SET BY K5WXZ AND KI RJH, AND HAD STOOD SINCE OCTOBER, 1968.

WB4MJE IS CRUCIALLY LOCATED FOR THIS WORK AT THE SOUTHERN TIP OF THE FLORIDA KEYS. THIS INFORMATION COMES FROM AL WARD, WB5LUA, WHO MAINTAINS VHF AND UHF NORTH AMERICAN DISTANCE RECORD INFORMATION FOR QST WORLD ABOVE 50 MHZ COLUMN. RECORDS ON BANDS FROM 144 MHZ TO 678 THZ ARE PUBLISHED IN APRIL QST EACH YEAR.

DECEMBER 9, 1994

NEW 5760 MHZ RECORD

A NEW OVER-LAND DISTANCE RECORD HAS BEEN REPORTED ON THE 5760 MHZ AMATEUR BAND. ON NOVEMBER 12, AL WARD, WB5LUA IN ALLEN, TEXAS, AND RON STEFANSKIE, W9ZIH IN MALTA, ILLINOIS, WORKED OVER A 738 MILE PATH. THE PREVIOUS OVER-LAND RECORD WAS 614 MILES, SET BY N6CA AND XE2/N6XQ.

WRITING IN THE NORTH TEXAS MICROWAVE SOCIETY FEED POINT, WARD REPORTS WORKING W9ZIH ON THE EVENING OF NOVEMBER 11, ON 432 MHZ WITH S-9 SIGNALS. THOSE TWO THEN TRIED UNSUCCESSFULLY TO WORK ON 5760 MHZ, HAVING PREVIOUSLY WORKED EACH OTHER ON THE BANDS IN BETWEEN. THEY TRIED THAT NIGHT AND THE FOLLOWING MORNING.

IN COOPERATION WITH GREG MCINTIRE, AA5C, AND W9ZIH, THE FIRST RECORD BREAKING CONTACT TOOK PLACE, BETWEEN WB5LUA AND ROGER SCHNEIDER, WB9OJR, OF GREEN VALLEY, ILLINOIS, WHO HAD JOINED THE EFFORT. THE DISTANCE WAS 633 MILES. AA5C AND WB9OJR ALSO CONNECTED. AT 630 MILES.

CONTINUING THE EFFORT, ABOUT THREE HOURS LATER, AT 1652 UTC, WB5LUA AND W9ZIH MADE THE 738-MILE CONTACT. AND AA5C WORKED W9ZIH, AT 733 MILES. ALL CONTACTS WERE ON 2-WAY CW.

AL WARD SAID IT IS REALLY NICE TO KNOW THERE ARE PEOPLE ACTIVE ON THE MICROWAVE BANDS WHO ARE READY TO GO WHEN THE BANDS OPEN, AND ALSO TO KNOW THAT OUR EQUIPMENT, WHICH HAS ONLY WORKED OUT TO 250 MILES UNDER NORMAL CONDITIONS, CAN ACTUALLY WORK WHEN THE BAND OPENS UP.

DECEMBER 20, 1994

BSA NET/JOTA NEWS

BOY SCOUTS OF AMERICA IS ESTABLISHING A NEW NET CALLED BSA NET, INTERNATIONAL. IT WILL MEET EVERY SUNDAY AT 2030 UTC ON 14.290 MHZ. KB8OCC WILL ACT AS NET CONTROL.

DATES HAVE BEEN SET FOR THE 1995 JAMBOREE ON THE AIR OPERATING EVENT. JOTA IS AN ANNUAL EVENT IN WHICH BOY SCOUTS AND GIRL SCOUTS AND GUIDES FROM ALL OVER THE WORLD SPEAK TO EACH OTHER BY MEANS OF AMATEUR RADIO. JOTA 1995 WILL TAKE PLACE SATURDAY OCTOBER 22, AT 0001 HOURS LOCAL TIME TO SUNDAY OCTOBER 23, AT 2359 HOURS LOCAL TIME.

THANKS TO DAN DANSBY, W5URI, FOR THE PRECEDING INFORMATION.

COURTESY OF MILT/N4SN & W1AW

OLE VIRGINIA HAMS AMATEUR RADIO CLUB, INC.
MINUTES OF MEETING
DECEMBER 19, 1994

The meeting was called to order at 8:01 P.M.

There were 15 members and 5 guests present for a total attendance of 20.

The Pledge of Allegiance by all members, oral roll call, and signing of the attendance list opened the meeting, which was presided over by Jim, WD4OJY, club president.

Jim reminded attendees about the 50-50 drawing. He also mentioned that pictures from the Manassas Christmas parade were available for viewing at the front table through the courtesy of Scott, KE4HCT. Scott further mentioned that the prints were free for the taking by anyone interested.

Jim also reminded attendees that payments of 1995 dues are now being accepted. Further, he announced that Charlie, KE4JWY, has assumed the duties of Membership chairman.

There was no program at this meeting.

COMMITTEE REPORTS

There were no reports from the Finance, Technical, Packet, Computer, Education, Field Day, or Program Committees, nor from the FAR Representative.

Jim, WA2QEJ, read the Treasurer's report. It was accepted without objection on a motion by Butch, W4HJL, and seconded by Milt, N4SN.

Jim, WD4OJY, stated that Bill, N4WJN, was to have reported on recent packet activities including the future of the DCA node stack, but was unable to attend the meeting.

In a departure from committee reports, Harry, W4PVA, gave an brief but informative talk on impedance matching, effect of height above ground, and directional characteristics of horizontal dipole antennas. He invited those with further interest in the topics to inquire after the meeting.

Pete, KB4RME, gave the Scholarship Committee report. He is awaiting a budget allocation from the Finance Committee. Jim, WD4OJY, took this opportunity to thank Pete for reliably providing the Newline tape for the net each Thursday. Jim, WA2QEJ, also mentioned that the check sent to Westlink in June has not yet been paid.

Scott, KE4HCT, thanked all club members who helped him with the installation of his tower. It is at its final height of 100 feet and will have a mast installed when his time and funds permit. He then gave the Newsletter Committee report. The December newsletter was too large and full to include photos. Scott has also been asked to apply his publication skills for a quarterly NVFMA newsletter. He further thanked Butch, W4HJL, and Mary Lu, KB4EFP, for helping to make timely publication possible.

Scott also gave the Hamfest Committee report. Some changes to the flyer have been completed, most notably a specific gate-closing time for Saturday night.

OLD BUSINESS

Jim, WD4OJY, presented the Membership Committee report. Because a quorum was not available, four outstanding applications could not be voted on. He read an application for membership from Jan Klein, yet unlicensed.

NEW BUSINESS

Butch, W4HJL, thanked the 1994 officers for their service. The proposed revisions to the by-laws may be ready for reading in time for the January meeting. He also thanked all who helped with the Christmas parade. Further, he mentioned that the Finance Committee and the Board of Directors would meet in January.

The 50-50 drawing was won by Harry, W4PVA.

The meeting was adjourned at 8:55 P.M.

Respectfully submitted,
Ivan Reeder, KD4DFD
Secretary

OLE VIRGINIA HAMS AMATEUR RADIO CLUB, INC. OFFICERS AND COMMITTEES

<u>OFFICERS</u>		<u>DIRECTORS</u>	
PRESIDENT	JIM	WD4CJY	703 369 3940
VICE PRESIDENT	ERVIN	KD4DFB	703 335 1029
SECRETARY	IVAN	KD4DFD	703 818 2405
TREASURER	JIM	WA2QEJ	703 791 2932
		NR4L	703 361 7335
		W4HJL	703 369 2877
		KB4NR	703 494 2737

<u>1995 LAMFEST CHAIRMAN</u>		<u>HISTORIAN</u>	
SCOTT	KE4HCT	T.B.D.	**** *
			703 754 8253
<u>1995 FIELD DAY CHAIRMAN</u>		<u>MEMBERSHIP CHAIRMAN</u>	
T.B.D.	**** *	CHUCK	KE4JWY
			703 754 0282
<u>CLUB ROSTER/MAIL LIST</u>		<u>NEWSLETTER</u>	
BLAINE	KB4RKL	SCOTT	KE4HCT
			703 754 8253

<u>COMPUTER COMMITTEE</u>		<u>NEWSLINE REPORT</u>	
DICK	WD4AZG	PETE	KB4RME
			703 369 2436
MILT	N4SN	<u>PACKET COMMITTEE</u>	
TIM	KB4NR	ALAN	KD4KBX
			703 330 8844
<u>EDUCATIONAL COMMITTEE</u>		BILL	N4WJN
ERVIN	KD4DFB		703 590 9562
CHARLIE	WA4YGI	WOODY	KD4DEG
			703 368 5180
		T.B.D.	**** *

<u>EMERGENCY COORDINATOR</u>		<u>PICNIC COMMITTEE</u>	
HARRY	W4PVA	BERNICE	KA4SCA
			703 791 3839
<u>F.A.R. REPRESENTATIVE</u>		MARY LOU	KB4EFP
ALAN	KD4KBX		703 369 2877
		<u>PROGRAM CHAIRMAN</u>	
		JOE	AB4QV
			703 369 6536

<u>FINANCE COMMITTEE</u>		<u>PUBLICITY CHAIRMAN</u>	
CLUB TREASURER		KEN	KM4UH
MARY LOU	KB4EFP		703 369 5287
PETE	KB4RME		
TIM	KB4NR		
<u>GENERATORS</u>			
TOMMY	KA4AFU		703 369 2741

<u>REPEATER CONTROLLERS</u>	
ART	W1CRO
	703 791 4330
BUTCH	W4HJL
	703 369 2877
JIM	WA2QEJ
	703 791 2932
MARY LOU	KB4EFP
	703 369 2877
MILT	N4SN
	703 369 7265
RUSS	WB4HHN
	703 368 6435
STEVE	KB4QF
	703 368 6901
TIM	KB4NR
	703 494 2737
STEVE	N4OGR
	703 361 0008

<u>REPEATER TRUSTEE</u>	
ART	W1CRO
	703 791 4330
<u>SCHOLARSHIPS</u>	
PETE	KB4RME
	703 369 2436

<u>SUNSHINE COMMITTEE</u>	
BERNICE	KA4SCA
	703 791 3839
<u>TECHNICAL COMMITTEE</u>	
BOB	N4RL
	703 361 7335
BUTCH	W4HJL
	703 369 2877
JIM	WA2QEJ
	703 791 2932
TIM	KB4NR
	703 494 2737

<u>TILE REFRESHMENTS</u>	
THE 50/50 MONTHLY WINNER
<u>WEEKLY VIII NET</u>	
HARRY	W4PVA
	703 368 6050

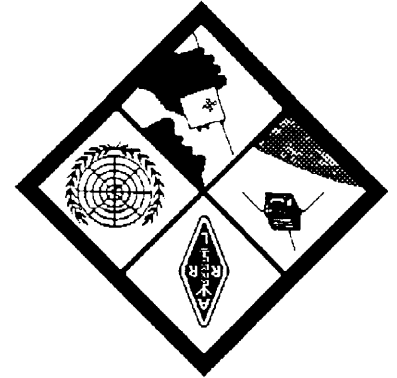
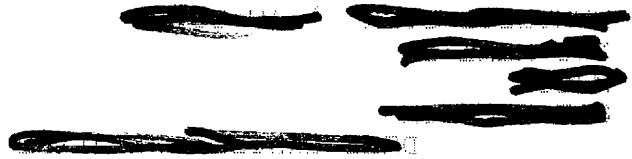
PLEASE TAKE NOTE OF THIS NEW MASTHEAD AND ADVISE ME OF ANY CHANGES/DELETIONS/ADDITIONS.
S. BELLEFUEHLE/KE4HCT
OCTOBER 94

OLE VIRGINIA HAMS AMATEUR RADIO CLUB

January 16 - February 26, 1995



Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
January 16 8:00 PM MEETING - OLE VIRGINIA HAMS 300 PM NET-WDBG WIRELESS-147.240/146.655 400 PM NET-HERNDON RG/145.31 <small>Net: 146.655</small>	January 17 8:00 PM NET-CULPEPPER ARA/147.12 9:00 PM NET-MT VERNON/146.655	January 18 8:00 PM NET-NVFMA/146.79 9:00 PM NET-FAUQ ARA/147.165 BARC Mini-Fest	January 19 8:00 PM NET-CVH/146.970/224.66 MHz	January 20	January 21 VEC - LAUREL, MD ARRL VHF Sweepstakes	January 22 8:00 PM DISTRICT 1 ARES NET 145.31 9:00 PM CAPITAL AREA ARES NET/146.91 9:00 PM NET-ANSA/146.825 COLUMBIA HAMFEST
January 23 8:00 PM NET-WDBG WIRELESS-147.240/146.655 9:00 PM NET-HERNDON RG/145.31 400 PM NET-FAUQ ARA/147.165 ARRL VHF Sweepst.	January 24 8:00 PM NET-CULPEPPER ARA/147.12 9:00 PM NET-MT VERNON/146.655 VEC - GLEN BURNIE, MD	January 25 8:00 PM NET-NVFMA/146.79 9:00 PM NET-FAUQ ARA/147.165	January 26 8:00 PM NET-CVH/146.970/224.66 MHz	January 27 VEC - PENTAGON	January 28 VEC - WASHINGTON, DC ARRL NOVICE ROUNDUP	January 29 8:00 PM DISTRICT 1 ARES NET 145.31 9:00 PM CAPITAL AREA ARES NET/146.91 9:00 PM NET-ANSA/146.825 SWAPFEST-MD
January 30 8:00 PM NET-WDBG WIRELESS-147.240/146.655 9:00 PM NET-HERNDON RG/145.31 WIAW QUAL RUN	January 31 8:00 PM NET-CULPEPPER ARA/147.12 9:00 PM NET-MT VERNON/146.655	February 1 8:00 PM NET-NVFMA/146.79 9:00 PM NET-FAUQ ARA/147.165	February 2 8:00 PM NET-OVH/146.970/224.66 MHz 400 PM NET-FAUQ ARA/147.165 School Club Roundup	February 3	February 4	February 5 8:00 PM DISTRICT 1 ARES NET 145.31 9:00 PM CAPITAL AREA ARES NET/146.91 9:00 PM NET-ANSA/146.825 VEC - LANDOVER, MD
February 6 8:00 PM NET-WDBG WIRELESS-147.240/146.655 9:00 PM NET-HERNDON RG/145.31 Remold Reagan 848 Birthday	February 7 8:00 PM NET-CULPEPPER ARA/147.12 9:00 PM NET-MT VERNON/146.655 1st Quarter	February 8 8:00 PM NET-NVFMA/146.79 9:00 PM NET-FAUQ ARA/147.165	February 9 8:00 PM NET-CVH/146.970/224.66 MHz William H. Harrison (1773)	February 10	February 11 VEC - ALEXANDRIA, VA VL-OM Contest	February 12 8:00 PM DISTRICT 1 ARES NET 145.31 9:00 PM CAPITAL AREA ARES NET/146.91 9:00 PM NET-ANSA/146.825 ALBANY (1899)
February 13 8:00 PM NET-WDBG WIRELESS-147.240/146.655 9:00 PM NET-HERNDON RG/145.31 VL-OM Contest	February 14 8:00 PM NET-CULPEPPER ARA/147.12 9:00 PM NET-MT VERNON/146.655	February 15 8:00 PM NET-NVFMA/146.79 9:00 PM NET-FAUQ ARA/147.165 Full Moon	February 16 8:00 PM NET-OVH/146.970/224.66 MHz	February 17	February 18 VEC - LAUREL, MD ARRL International DX Contest ARRL CW DX CONTEST	February 19 8:00 PM DISTRICT 1 ARES NET 145.31 9:00 PM CAPITAL AREA ARES NET/146.91 9:00 PM NET-ANSA/146.825
February 20 8:00 PM MEETING - OLE VIRGINIA HAMS 300 PM NET-WDBG WIRELESS-147.240/146.655 400 PM NET-HERNDON RG/145.31 Presidential Day	February 21 8:00 PM NET-CULPEPPER ARA/147.12 9:00 PM NET-MT VERNON/146.655	February 22 8:00 PM NET-NVFMA/146.79 9:00 PM NET-FAUQ ARA/147.165 School Club Roundup	February 23 8:00 PM NET-CVH/146.970/224.66 MHz	February 24	February 25 APPALACHIAN HAMFEST CQ World Wide 160 M DX Contest	February 26 8:00 PM DISTRICT 1 ARES NET 145.31 9:00 PM CAPITAL AREA ARES NET/146.91 9:00 PM NET-ANSA/146.825 VIENNA WINTERFEST



FIRST CLASS MAIL



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Post Office Box 1255
Manassas, VA 22110

NEXT OVH MEETING JANUARY 16, 1994

STARTING TIME: 8:00PM

AT THE CONFERENCE ROOM, LOCATED AT NOVEC,