

"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 MHz

BBS-BBSHRG/N4WJN (SYSOP-BILL)

THE OLE VIRGINIA TIMES

JUNE 1994

WHAT'S INSIDE:

THE PREZ SAYS	1
MASTHEAD (it's a new one so please check it for errors)	2
MEETING MINUTES	3
V.E.C. EXAM RESULTS	4
A.R.R.L. AWARD	5
AERIALS (part 3)	6
BAD NEWS/BAD NEWS	6
EDUCATIONAL COMMITTEE REPORT	6
CLASSIFIEDS	7
REPEATER HOT SPOTS	8
MAJOR CONTESTS	9
HOW MANY HITCHHIKERS?	10
SILENT KEY	10
THOUGHTS	10
CALENDAR OF EVENTS	11
THE LAST WORD	12

THE PREZ SAYS

Jim, WD4OJY

Hi All:

I had a super time at the Hamfest. It's great to be out there with so many people who share a common interest. I enjoy renewing the old friendships that I've been promising to see since the last hamfest. It was very nice to see everyone again this year. I hope all of you found what you were hunting for and had a good time as well. To all of you that came out Saturday and Sunday, THANK YOU !!!! We could not have done it without your help. We had a large turnout Saturday for the setup. I think the crew finished in record time. Thanks again for giving us some of your time.

Now that the work is over, how about a little fun ?!?! An operating contest everyone, and I mean everyone, from novice to extra class can enjoy. Field Day is the last weekend in June. The club is going out to Long Park again this year and will be operating a number of stations in the Field Day event. For those of you that are new, the club will be an entrant in the event and will be operating for points and a standing in the contest. Everyone who comes out will be given the chance to get on the air and operate in the contest. Final preparations for Field Day will be discussed at the next meeting. Call Jay, NS5N, Field Day Chairman or come to the next meeting and find out how you can be a part of this annual operating event. See you there and...73's.

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

DIRECTORS

NR4L 703 361 7335
 W4HJL 703 369 2877
 KB4NR 703 494 2737

OFFICERS

PRESIDENT JIM WD4OJY 703 369 3940
 VICE PRESIDENT ERVIN KD4DEB 703 335 1029
 SECRETARY IVAN KD4DFD 703 818 2405
 TREASURER JIM WA2QEJ 703 791 2932

REPEATER TRUSTEE
 ART W1CRO 703 791 4330

FINANCE COMMITTEE
 CLUB TREASURER MARY LOU KB4EFP 703 369 2877
 PETE KB4RME 703 369 2436
 TIM KB4NR 703 494 2737

REPEATER CONTROLLERS
 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 KB4OF 703 368 6901
 TIM KB4NR 703 494 2737

PROGRAM CHAIRMAN
 JOE AB4QV 703 369 6536

1995 HAMFEST CHAIRMAN (CO-CHAIRMAN)
 T.B.D.

REFRESHMENTS
 T.B.D.

MEMBERSHIP CHAIRMAN
 JIM WD4OJY 703 369 3940

EMERGENCY COORDINATOR
 HARRY W4PVA 703 368 6050

TECHNICAL COMMITTEE
 BOB N4RL 703 361 7335
 BUTCH W4HJL 703 369 2877
 JIM WA2QEJ 703 791 2932
 TIM KB4NR 703 494 2737

PACKET COMMITTEE
 ALAN KD4KBX 703 330 8844
 BILL N4WJN 703 590 9562
 J. EDGAR NS5N 703 330 7333
 WOODY KD4DEG 703 368 5180

COMPUTER COMMITTEE
 DICK WD4AZG 703 791 3839
 MILT N4SN 703 369 7265
 TIM KB4NR 703 494 2737

SCHOLARSHIPS
 PETE KB4RME 703 369 2436

1994 FIELD DAY CHAIRMAN & CO-CHAIRMAN
 J. EDGAR NS5N 703 330 7333
 RICK KU3M 703 590 7350

GENERATORS
 TOMMY KA4AFU 703 369 2741

CLUB ROSTER/MAIL LIST
 BLAINE KB4RKL 703 369 2877

CLUB PICNIC COMMITTEE
 BERNICE KA4SCA 703 791 3839
 MARY LOU KB4EFP 703 369 2877

SUNSHINE COMMITTEE
 BERNICE KA4SCA 703 791 3839

OVH WEEKLY NET
 HARRY W4PVA 703 368 6050

CLUB NEWSLETTER
 J. EDGAR NS5N 703 330 7333

EDUCATIONAL COMMITTEE
 JOHN N4YOB 703 791 5995

F.A.R. REPRESENTATIVE
 ALAN KD4KBX 703 330 8844

NEWSLINE REPORT
 PETE KB4RME 703 369 2436

HISTORIAN
 GREG N4NRK 703 690 5949

PUBLICITY CHAIRMAN
 KEN KM4UH 703 369 5287

PLEASE TAKE NOTE OF THIS NEW MASTHEAD AND ADVISE ME OF ANY CHANGES/DELETIONS/ADDITIONS.

J. EDGAR MCDERMOTT / NS5N

June 12, 1994

OLE VIRGINIA HAMS
AMATEUR RADIO CLUB, INC.

MINUTES OF MEETING
MAY 16, 1994

The meeting was called to order at 8:01 P.M. There were 36 members and 1 guest present for a total attendance of 37.

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.

There was no program at this meeting.

COMMITTEE REPORTS

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

Jim, WA2QEJ, read the Treasurer's report. It was accepted unanimously on a motion by Butch, W4HJL, seconded by Tim, KB4NR.

Tim, KB4NR, gave the Finance Committee report. The club's 1993 tax return has been filed.

Jim, WA2QEJ, gave the Technical Committee report. Investigation of complaints about diminishing repeater coverage found that the transmitter was emitting only about eight watts; the normal output level should be near sixty watts. Some adjustments permitted an increase to about forty watts, and Mike, WV3H, is seeking a new power amplifier. Scott, KE4HCT, inquired about the apparent poor coverage of the repeater to the west and remarked that the machine would be unable to provide reliable coverage of western Prince William county in an emergency. The repeater currently uses four dipoles, with two directed eastward, and one each north and south. While changes to that configuration could be made, NOVEC tower access procedures require a bonded technician to perform the work. Jim reported also that the new repeater controller is awaiting some rack mounting hardware.

Harry, W4PVA, reported that the HUREX 94 exercise was conducted statewide on April 18, but that Prince William county was required only to check in to the exercise coordinator in Richmond. The MS 150 bicycle race on May 14 and 15 was successful, with about 1900 riders participating. Harry also mentioned that Northern Virginia Community College has increased the rental fee for the room at which the club periodically conducts exams from \$25 to \$47.50. Scott, KE4HCT, said he would inquire into using the police training facility in the future if necessary.

Jay, NS5N, gave the Field Day Committee report. All preparations are on schedule and more information would be presented at the June meeting.

OLD BUSINESS

Steve, N4OGR, reported that the "STAFF" hats for the Hamfest would be available within days.

Jim, N3ODZ, and Butch, W4HJL, began compiling duty rosters for Hamfest needs. Volunteers were invited to sign up during the break.

NEW BUSINESS

Jim, WD4OJY, requested that any club members with club equipment or other property in their possession to report it to the Quartermaster, Jim, N3ODZ.

Having heard much conversation about repeater coverage during the break, Erv, KD4DFB, recommended that a vote be taken at the July meeting about whether to change the repeater's antenna orientation. Others recounted earlier times in which the repeater had considerably greater coverage but suffered interference from the 146.97 machines in York and Virginia Beach.

Jim, WD4OJY, presented the Membership Committee report. Scott Willis, no call, was voted a member on a motion by Steve, N4OGR, and seconded by Woody, KD4DEG.

Scott, KE4HCT, reminded club members that Rankin's Sporting Goods in Warrenton still had a supply of OVH silkscreened shirts available.

The 50-50 drawing was won by Megan Barr, as yet unlicensed.

The meeting was adjourned at 9:26 P.M.

Respectfully submitted,

Ivan Reeder, KD4DFD
Secretary

V.E.C. EXAM RESULTS

32 Exams administered to 17 applicants

1-A	1 pass - 1 fail	1-B	0 pass - 2 fail	1-C	0 pass - 0 fail	2-A	9 pass - 2 fail
3-A	6 pass - 7 fail	3-B	1 pass - 1 fail	4-A	1 pass - 1 fail	4-B	0 pass - 0 fail

UPGRADES

NOV - 0 TECH - 5 TECH PLUS - 1 GEN - 1 ADV - 1 EXTRA - 0

ARRL HONORS LOCAL AMATEUR RADIO OPERATOR



Mr. Harry Vorhauer, W4PVA, accepts the 1993 Roanoke Division ARRL Service Award from Mr. John Kanode, N4MM, Director, Roanoke Division..

Harry is one of the four original members that established the Ole Virginia Hams many years ago. His continued dedication to public service by providing emergency service communications, regularly scheduled amateur radio exams and scores of public service support from walk-a-thons to bike-a-thons has shown that his love for the hobby is well deserved of the recognition bestowed upon him.

The ARRL Service Award was established in 1968 by Victor Clark, W4KFC, past OVH member and now Silent Key. Harry joins the rank of other OVH club members that have received this prestigious award; 1970, Victor Clark, W4KFC (SK), 1992, Nancy K. Draheim, NK4U; and now 1993, Harry Vorhauer, W4PVA.

Congratulations Harry from all of us at The Ole Virginia Hams.

AERIALS
A REVIEW
by Harry/W4PVA

Continuing the review of the book *AERIALS* by Kurt N. Sterba and Lil Paddle.

This text is primarily slanted at the ham that operates HF and it includes some tips as to operation with restricted space and even with indoor antennas.

The text includes a discussion of balun transformation ratios, the use of a bow and arrow to put up wire antennas into trees, and a condensed copy of an item by Walt Maxwell.

The authors seem to delight in shooting holes in items they see in various places. The book kind of makes me think of an old term encountered while in the Navy many years ago. It goes something like this: "My mind is made up, so don't confuse me with facts." And the author(s) certainly do present facts.

After rereading the book, I come to the conclusion that one could go a long way and still not find as much GOOD information on the subject.

As was previously stated, the book is still in print and available. It is available from *WORLD RADIO*, 2120 28 Street, Sacramento, CA 95818.

P.S.: I have a copy here that you can see before ordering one.

The following is an excerpt taken from the Propagation Forecast Bulletin supplied by W1AW.

QST DE W1AW
Propagation Forecast Bulletin 23 ARLP023
From Tad Cook, KT7H
Seattle, WA June 10, 1994

To All Radio Amateurs

Solar activity finally increased a bit after a period of zero sunspots. Geomagnetic disturbances have begun to slack off, but could increase again slightly this weekend. After that they are expected to drop again, and then recurring coronal holes will probably rotate into view and cause havoc around June 25-27.

Education Committee Report
by
John N4YOB

The OVH Amateur Radio Club, Inc. just completed its spring No-code Technician class at the Stonewall Jackson High School. Members of Boy Scout Troop 1182 and some of their parents participated in the class. Not only were the Scouts working on their No-code Technician license, but also on a communications merit badge. We certainly wish them all well in both endeavors.

Since this is the end of my tour as the Educational Committee Chairman, I would like to take this opportunity to thank all those members that have been willing to lend their time to our educational program. Those who deserve a special thanks are Mary Lu, KB4EFP, for handling all the Morse Code training; Randy, KA4UFF; Chuck, WA1FXX, and Erv, KD4DFB, for conducting theory classes; Woody, KD4DEG; for providing packet radio demonstrations; and Ken, KM4UH; for the publicity support. It would have been an impossible task without your help.

TNX 73 de John N4YOB

OVH CLASSIFIEDS

For Sale:

MFJ-931 MFJ Artificial Ground \$55.00
 Seagate ST-277 65Mbyte drive with RLL 1:1 controller (AT BUS)
 \$150.00
 Genoa EGA Card Super Hi-Res 800x600 \$50.00
 Central Point Software COPY II Board \$20.00
 Sound Board (B.G. Micro) \$15.00
 Future Domain-TMC-850MEX SCSI Controller (f/u/w CD-ROM
 only - no floppy or HD support) \$15.00
 286 Motherboard w/1mbyte RAM and Co-processor \$100.00
 6 Each DC-2000/DC-2050 mini data cartridges f/u/w QIC-40 tape
 drive. Price each: \$9.00

Contact: Mike (KC4ZNQ) @ 703-335-5031 or on packet, direct
 (MBX KC4ZNQ-1) or via KF4TE (145.070).

FOR SALE:

ICOM 725 HF Transceiver. This transceiver is a current production
 model in excellent condition with all documentation and boxes.
 \$600.00

SB 200 Heath Kit Kilowatt Amplifier. Very Clean but needs new
 final Tubes. \$285.00

Heath Kit HD 4040 Packet Termina Node Controller (TNC). Was
 formally use at K4LLQ-5 digi. \$60.00

RG-11 72 ohm Coax Brand New. 0.15/foot

Copies of QST Sept 93 antenna article are available to help you get
 started building. Toshiba T1000 Laptop Internal Modem, Brand
 New, Never installed with all documentation and original box.
 \$40.00

Antenna Rotator for light weight HF Beam or any VHF Beam. Set
 to direction and it rotates to that direction. \$35.00

WANTED:

Trying to locate old RTTY Converter Units such as ST-7, Flesher
 TU470, any HAL unit.

Contact: Larry, K4LLQ @ 703-347-7609.

For Sale:

Logitech Serial Mouse \$45.00
 GVC 1200 Baud External Modem (as-is) \$5.00
 MFJ 901B 200W Antenna Tuner. \$30.00
 WYSE-50 Dumb Terminal \$40.00
 Epson EX-800 Dot Matrix Printer \$75.00
 GVC 1200 Baud External Modem (As Is) \$5.00
 MFJ 901A 200W Antenna tuner \$30.00
 WYSE-50 Dumb Terminal \$40.00
 EPSON EX-800 9-pin Dot Matrix Printer \$75.00
 Ameritron AL-1200 1500W HF Amplifier \$1,000.00
 HDR300 Rotor With ProSearch Control Box \$800.00

Pick up only, or will meet if short distance.

Contact: Ron (NV3S) @ 703-330-1213
 evenings after 7:00 pm

For Sale

3 Pioneer cablevision manual converter boxes. \$75.00

4 NMO antenna mounts w/coax mounted on 1988 Ford
 Crown Victoria, 4dr. Former State Police cruiser; power
 windows, A/C, Stereo, etc. Super ground system; bucket seats
 w/radio rack. \$3,850.00

RCA 1000, 100Watt, 3-Channel base station/command center
 used by State Police. Nice console & clock. 30-50MHz. Best
 offer wins!

George (N4LXV) @ 703-368-2732

For Sale:

IBM PC/XT w/320k, 1 Floppy Drive, Hard Drive \$350.00
 Princeton HX-12 Color Monitor \$350.00
 Epson FX-85 Dot Matrix Printer \$200.00

Contact: Chris @ 703-369-1543

OVH CLASSIFIEDS

HELP:

Manual for Heathkit HW 101 needed or access to make a copy from yours.

Contact: Ro (WB4NWG) @ (703)594-2812

FOR SALE:

Tandy 1100FD laptop computer. \$300.00
 System includes: Documentation 3.5" internal disk drive
 Internal modem 1 serial/1 parallel port
 Internal battery/ps/charger Deskmate software package

(Continued next page)

Tandy 1400HD laptop computer w/MS-DOS 6.21. \$600.00
 System includes: Documentation 3.5" internal disk drive
 20mb internal hard drive 1 serial/1 parallel port
 External disk drive port External RGB monitor port
 External keyboard port CM-11 RGB color monitor

Tandy DMP-132 printer, stand, & cable. \$100.00
 Unit is for sale only with either laptop.

Matador 105 hand scanner with interface card and software. Got a new one with the new WP Presentations software \$75.00

IC-H16 commercial VHF handheld. \$300.00

MFJ-1278 Multi-Mode TNC. \$250.00
 System includes: Controller Power supply
 Documentation Software for MS-DOS
 Printer port for fax/wefax copy

Cushcraft AOP (AmSat Oscar Package) \$125.00
 16 element 144 MHz, and 20 element 430 MHz, circular polarized beams, 5 foot cross boom to mount both antennas.

Heathkit SWR/Power meter, 2Kw/200w with remotable sensor. \$65.00

Contact: J. Edgar (NS5N)@ (703)330-7333

For Sale: (Estate Sale)

Yaesu FT-480 HF transceiver with Yaesu FC-800 remote antenna tuner \$900.00

Yaesu FL-7000 linear amplifier, HF, 500 watts out \$1,500.00

Yaesu FT221 2 meter all mode transceiver, analog readout . \$250.00

Yaesu FT-73R 440 MHz handheld with two heavy duty batteries and drop-in quick charger \$200.00

Kenwood TS-940S \$1,000.00

Icom IC-720A HF transceiver with matching AC power supply \$400.00

Alinco DJ-580T dual band handheld with extra battery pack and DC cable \$300.00

AEA PK232 MBX all mode TNC, probably with PACTOR capability \$200.00

MFJ 949D antenna tuner \$80.00

Oskar SWR-200 SWR power meter \$20.00

MFJ SWR analyzer model MFJ 207 \$60.00

Heath HO-5404 station monitor \$TBA

Novex DM4901 TR dip meter \$25.00

Larsen 10 meter mag mount ant \$30.00

Larsen dual band mag mount 2/440 \$30.00

Sony 2010 SW receiver \$250.00

Vanguard 2000B weather satellite receiver \$TF

Micronta 22-185A digital multimeter \$35.00

Weller soldering station \$25.00

Contact: Andy, K4ADL
 7 pm-10 pm weekdays (703)451-4021
 (daytime on weekends)
 weekdays (301)948-9633 ext 343

Repeater Hot Spots de Harry, WA4FPM

If you are trying to use a repeater (or other 2 meter simplex) and find that you are in a very weak (read that noisy) spot, you can sometimes improve things by moving your hand held rig about. Move until you find a NOISY spot. Note that spot and then move until you find another close by equally noisy spot. Then move to the mid point between the two observed spots. This will usually be the strongest place to work from. Another trick is to move to a location where your hand held's antenna is near a reflecting object (about 19 inches for 2 meters) and the desired station is in the direction directly AWAY from the reflection object. You will have created a two element beam effect. Just be sure it is pointed in the correct direction.

Another that is sometimes effective it to hold the hand held atop a metallic surface-such as an auto roof or refrigerator while you are talking. That gives you a ground plane effect.

You will, of course, be using the highest power your rig has during all of this.

If these don't do it, GIVE UP!.

MAJOR CONTESTS

DATE/TIME	CONTEST	SCOPE	RULES
JUN 18-19 0000Z JUN 18 2400Z JUN 19	ALL ASIAN CW DX CONTEST	SIGNAL REPORT AND 2 DIGIT # DENOTING OPERATOR'S AGE	MAY QST PG 138
JUN 18-19 0000Z JUN 18 2400Z JUN 19	SMIRK QSO PARTY	CALL SIGN, SMIRK #, GRID SQUARE (6 METER ONLY)	MAY QST PG 138
JUN 25-26 1800Z JUN 25 2100Z JUN 26	ARRL FIELD DAY	OPERATING CLASS, ARRL SECTION	MAY QST PG 127
JUL 1 0000Z JUL 1 2400Z JUL 1	RAC CANADA DAY CONTEST	NO INFORMATION PROVIDED	MAY CQ
JUL 2-3 0000Z JUL 2 2400Z JUL 3	VENEZUELAN INDEPENDENCE DAY CONTEST (PHONE)	RS AND QSO NUMBER	JUN QST PG 118
JUL 9-10	IARU HF WORLD CHAMPIONSHIP	NO INFORMATION PROVIDED	APR QST PG 122
JUL 9-10 1800Z JUL 9 2100Z JUL 10	CQ WPX VHF CONTEST	CALL SIGN AND FOUR DIGIT GRID SQUARE	MAY CQ JUN QST PG 118
JUL 16 0000Z JUL 16 2400Z JUL 16	COLOMBIAN INDEPENDENCE CONTEST (PHONE OR CW ONLY)	RS(T) AND SERIAL NUMBER	JUN QST PG 118
JUL 16-17 1500Z JUL 16 1500Z JUL 17	AGCW-DL QRP SUMMER CONTEST	RST AND SERIAL NUMBER BEGINNING WITH 001	JUN QST PG 118
JUL 23-24 0000Z JUL 23 2400Z JUL 24	SEANET CONTEST CW	RST AND SERIAL NUMBER BEGINNING WITH 001 ON EACH BAND	JUN QST PG 118
JUL 23-24 0000Z JUL 23 2400Z JUL 24	VENEZUELAN INDEPENDENCE DAY CONTEST (CW)	RST AND QSO NUMBER	JUN QST PG 118
JUL 30-31 2000Z JUL 30 2400Z JUL 31	CONNECTICUT QSO PARTY PHONE AND CW	SERIAL REPORT AND ARRL SECTION	JUN QST PG 118
JUL 30-31 1200Z JUL 30 1200Z JUL 31	RSGB IOTA CONTEST PHONE OR CW	SIGNAL REPORT, SERIAL NUMBER, IOTA NUMBER IF APPLICABLE	JUN QST PG 118

HOW MANY HITCH-HIKERS?
Adapted from Calls 'n' Cues, April 1994
de Steve (N4OGR)

With his thumb, a hitch-hiker says: "You furnish the gas, the car, pay for repairs and upkeep, supply the insurance, and then I'll ride with you. But if you have an accident, I will sue for damages."

This sounds pretty one-sided, but one wonders just how many hitch-hikers there are in a Ham Radio Club.

Hitch-hikers say: "You go to meetings, serve on committees, do the paperwork, study the issues, contact people, and take care of all the nitty-gritty that must be done. I will just attend the meeting if it suits me, and if things don't suit me, I'll complain, criticize, or I may get out and hitch-hike to another group."

Hitch-hiker or driver? Which kind of Ham Radio Club member are you?

SILENT KEY

Those of you who knew Dick K3AKK understood his firm dedication to amateur radio. Those who didn't know Dick may have nonetheless benefitted from his work. Dick was the Sysop of the DCA node stack K3AF. He had a heart problem for some time but he continued to provide one of the best node stacks on the East coast for our use. Unfortunately Dick had been hounded unmercifully lately by "fellow hams" bent on shutting down the DCA node stack. Dick died last week and I for one will miss him. He provided a wonderful service even in the face of adversity.

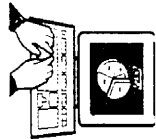
THOUGHTS
de Harry (W4PVA)

I recently came by a batch of CQ magazines and I am slowly going through them to see what is of interest that OVH members might like to hear about. The first article I read was by one Lew McCoy, W1ICP, who had a hand in the writing of the ARRL Antenna Handbook. Essentially, Lew says that at "low" frequencies, one can use nearly any length DIPOLE provided one uses some technique that allows feeding the dipole from your rig. The technique is an antenna tuner—also called a transmatch. AND PROBABLY MOST IMPORTANT, AN OPEN WIRE TRANSMISSION LINE. The open wire line is nearly lossless and in conjunction with the antenna tuner, delivers nearly all your power to the antenna where it is radiated. Lew points out that you can use a single dipole on ANY amateur frequency with good radiation.

I add the following comments: the radiation will be good BUT the antenna pattern will change considerably after the antenna becomes much greater than a half wave. Continuing with my comment: lengths shorter than a half wave have nearly a constant pattern— one that goes from a dipole pattern to a figure eight pattern. The antenna gain (compared to the fictitious isotropic antenna) gets better in the favored direction. as the antenna gets longer. As the antenna goes from say a eighth wave length over all length to a half wave over all wave length, that antenna gain varies slightly BUT NOT ENOUGH FOR THE RECEIVING STATION TO NOTICE ON THEIR "S" METER. After ½ wave length is exceeded, the gain in the favored direction continues to increase, but not enough to justify much concern. One thing that does happen, is the variation in EFFECTIVE antenna height as the frequency is changed. The height above ground is measured in wave lengths when one considers the antenna radiation characteristics. But one WANTS high angle radiation on eighty meters so as to get good short range communications and a higher (measured in wave lengths) antenna to get longer distance contacts. In fact, high angle radiation is lost in space on frequencies such as ten meters.

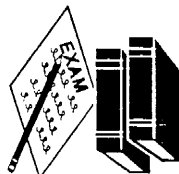
There is a good deal more to this than is covered here and hopefully we will be able to get to it in the future.

PLEASE NOT THAT THIS PRIMARILY APPLIES TO FREQUENCIES BELOW 30 MHZ. Also, this is a very sketchy look at the situation—there is much more to it than can be put into this space.



OLE VIRGINIA HAMS AMATEUR RADIO CLUB

June 19 - July 23, 1994



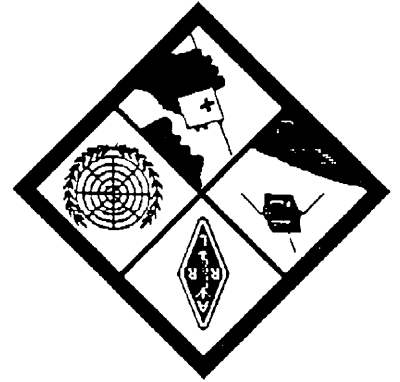
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<p>June 19</p> <p>1300 10-10 NET (28.340) NOVA ARES - NVVA EMS DRILL (MANASSAS)</p>	<p>June 20</p> <p>3000 MEETING-OLE VIRGINIA HAMS 2000 NET-WOODBRIDGE WIRELESS-147.84 MHz/223.18 MHz</p>	<p>June 21</p> <p>MEETING-SPARK</p>	<p>June 22</p> <p>2000 NET-NV7MA-146.79 MHz 2100 NET-FARA-147.165 MHz</p>	<p>June 23</p> <p>3000 NET-OVH-146.970 MHz/ 224.66 MHz</p>	<p>June 24</p>	<p>June 25</p> <p>1000 MEETING-MOOSE ARC</p> <p>NOVA ARES - FIELD ...</p>
<p>June 26</p> <p>1300 10-10 NET (28.340)</p>	<p>June 27</p> <p>2000 NET-WOODBRIDGE WIRELESS-147.84 MHz/223.18 MHz</p>	<p>June 28</p> <p>VEC - ANNAPOLIS, MD</p>	<p>June 29</p> <p>2000 NET-NV7MA-146.79 MHz 2100 NET-FARA-147.165 MHz</p>	<p>June 30</p> <p>2000 NET-OVH-146.970 MHz/ 224.66 MHz</p>	<p>July 1</p>	<p>July 2</p>
<p>NOVA ARES - FIELD ...</p>	<p>July 4</p> <p>2000 NET-WOODBRIDGE WIRELESS-147.84 MHz/223.18 MHz NOVA ARES - JULY 4TH MT VERNON</p>	<p>July 5</p> <p>MEETING-SPARK</p>	<p>July 6</p> <p>2000 NET-NV7MA-146.79 MHz 2100 NET-FARA-147.165 MHz</p>	<p>July 7</p> <p>1930 MEETING-VA BEACH ARC 2000 NET-OVH-146.970 MHz/ 224.66 MHz</p>	<p>July 8</p>	<p>July 9</p>
<p>July 3</p> <p>1300 10-10 NET (28.340)</p>	<p>July 11</p> <p>2000 NET-WOODBRIDGE WIRELESS-147.84 MHz/223.18 MHz</p>	<p>July 12</p> <p>1930 MEETING-FARA</p>	<p>July 13</p> <p>2000 NET-NV7MA-146.79 MHz 2100 NET-FARA-147.165 MHz</p>	<p>July 14</p> <p>1930 MEETING-WOODBRIDGE WIRELESS 2000 NET-OVH-146.970 MHz/ 224.66 MHz</p>	<p>July 15</p>	<p>July 16</p>
<p>July 17</p> <p>1300 10-10 NET (28.340)</p>	<p>July 18</p> <p>2000 MEETING-OLE VIRGINIA HAMS 2000 NET-WOODBRIDGE WIRELESS-147.84 MHz/223.18 MHz</p>	<p>July 19</p> <p>MEETING-SPARK</p>	<p>July 20</p> <p>2000 NET-NV7MA-146.79 MHz 2100 NET-FARA-147.165 MHz</p>	<p>July 21</p> <p>3000 NET-OVH-146.970 MHz/ 224.66 MHz</p>	<p>July 22</p>	<p>July 23</p>

PLEASE SUBMIT NEWSLETTER ITEMS TO NSSN PRIOR TO DEADLINE. TX



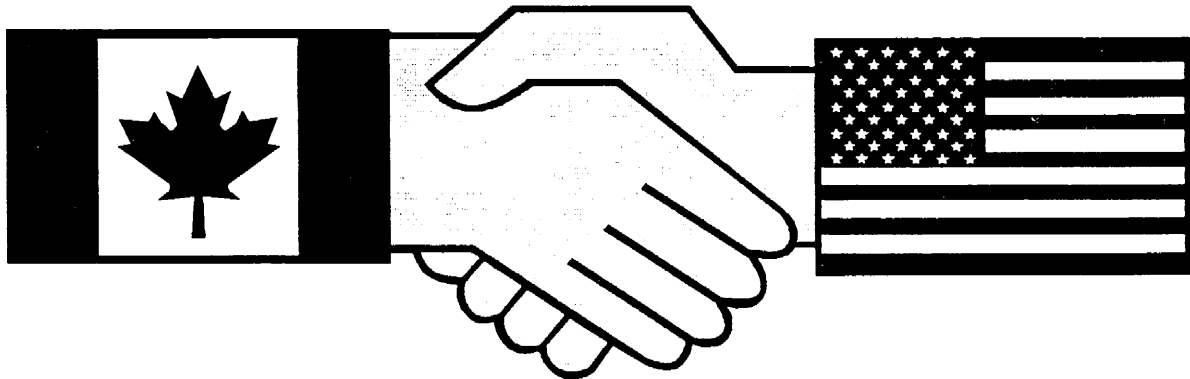
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Ole Virginia Hams A.R.C., Inc.
Post Office Box 1255
Manassas, VA 22110

FIELD DAY 1994 JUNE 25TH & 26TH



WE SHALL WORK THE WORLD TOGETHER