

The OVH ARC Newsletter  
OLE VIRGINIA HAMS" AMATEUR RADIO CLUB, INC.  
Post Office Box 1255, Manassas, Va. 20108  
OVH FM Repeaters - 146.970- & 224.660- & 442.200+ & 443.500+  
OVH D-STAR Repeaters - W4OVH - 146.865- & 442.5125+ (now temporarily out of service)  
Web Site at <http://w4ovh.net>

# OLE VIRGINIA TIMES

Renew your OVH membership now!

## December 2016

### Next Meeting: Monday, January 16, 2017

#### PRESIDENT'S LETTER:

Greetings to one and all! Did you get enough to eat at the OVH's December 11, 2016 "meeting" at the Yorkshire Restaurant on a Sunday evening?? That club Year End / Christmas Party event was well attended, with plenty of good food, warm wishes, and Toys for Tots. See details and a few of the photos later in this Newsletter. We all owe a special thanks again to Theresa / KG4TVM for all of her hard work and efforts to organize and coordinate this Year End party event for the OVH again!



As we put the wrapping on another year, it is a good time to reflect on what "was." I think we, as a club, had a very active year. When you add up the events, factor in the members involved in each, and then divide by twelve (months), the term "active club" is more than justified.

As in past years, we had our capstone events of Hamfest and Field Day. In the community service-related arena, we had events such as the GMU Mini-Tri's, JOTA, and communication supports at various parades. However, this year, and, hopefully, in years to follow, we added the Prince William Half Marathon. Along the lines of "exhibition", we made an appearance at the Manassas Air Show; again, hopefully, that will continue in the years that follow.

On a more individual basis, many of us participated in ham operating contests and ran special event stations and operations; in particular, the National Parks on The Air; as of this writing, there's still time to capture another contact or two before the year ends. There was the education and VE mission. Then there were those "maintenance activities"

**Cont'd on Page 3**

# Ole Virginia Hams Amateur Radio Club, Inc.

Post Office Box 1255  
Manassas, Virginia 20108

## OFFICERS

President:	Wayne Phillips	N7QLK	393-8447
Vice Pres:	Ray Knight	KM4EKR	930-8222
Secretary:	Byron Dillon	AK4XR	222-2095
Treasurer:	Terry Erlacher	KC4DV	571-292-1490

## DIRECTORS

Don (Butch) Blasdell	W4HJL	369-2877
Arthur Whittum	W1CRO	791-4330
Charlie Dale	WA4YGI	361-3091
Bob Zaepfel	K4HJF	282-2451

## WEEKLY FM REPEATER NET COORDINATOR

Thurs - 8:00 PM Local Time	JOHN / KG4NXT	257-3566
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## HAMFEST 2017 - Chairman

Terry	KC4DV	571-292-1490
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## FIELD DAY 2016 - Co-Chairs

Ken	KD4VA	753-7863
Byron	AK4XR	222-2095

## CLUB ROSTER / DATABASE

Arthur	W1CRO	791-4330
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## EDUCATION

Mark	WA4KFZ	818-8033
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## CLUB EMERGENCY COORDINATOR

Open

## ARES - EMERGENCY COORDINATOR

David Lane	KG4GIY	703-628-3868
	email:	KG4GIY@ARRL.NET
Prince William County ARES website		<a href="http://pwcares.org">http://pwcares.org</a>

## FINANCE

Arthur	W1CRO	791-4330
Mark	WA4KFZ	818-8033
Terry	KC4DV	571-292-1490

## GENERATORS

Steve	N4OGR	361-0008
Keith	KM4AA	909-1512
Al	KB4BHB	368-4794

## HISTORIAN

Theresa	KG4TVM	257-3566
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## WEBMASTER — W4OVH.NET

Paul	W4ZB	754-0910
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## BROADBAND HAMNET (BBHN)

Terryl	WA5NTI	445-2801
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## EMAIL REFLECTOR — w4ovh@googlegroups.com

David Lane	KG4GIY	628-3868
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## JOTA - 2016

John	KG4NXT	257-3566
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## LEGAL

Bob	K4HJF	282-2451
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## MEMBERSHIP CHAIRMAN

Luther	WA3FMO	361-4885
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## NEWSLETTER

Paul	W4ZB	754-0910
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## NEWSLINE FOR THE WEEKLY NET

John H.	KG4NXT	257-3566
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## PROGRAMS

Jeff	WB6UIE	791-5916
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## QUARTERMASTER

Steve	N4OGR	361-0008
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## REPEATER CONTROLLERS

George	K4GVT	791-5956
Arthur	W1CRO	791-4330
Butch	W4HJL	369-2877
Steve	N4OGR	361-0008
David	KG4GIY	361-3042
Russ	WB4HHN	368-6435

## W4OVH — TRUSTEE

Stu	W4PR	335-5267
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## W4PVA — TRUSTEE

Arthur	W1CRO	791-4330
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## SCHOLARSHIP

Jim	W4JTP	392-0150
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## SUNSHINE

Theresa	KG4TVM	257-3566
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## TECHNICAL COMMITTEE

George	K4GVT	791-5956
Arthur	W1CRO	791-4330
Butch	W4HJL	369-2877
Bill	N4SV	590.9562
Bob	K4HJF	335-1939
David	KG4GIY	628-3868

All telephone numbers listed above are for Area Code 703 unless otherwise noted. This is the official monthly publication of the Ole Virginia Hams Amateur Radio Club, Inc., a §501(c)(3) organization, dedicated to the promotion and enhancement of Amateur Radio. Copyright © 2016 by the Ole Virginia Hams.

The OVH ARC regular monthly meeting is at 7:30 p.m. every third Monday which is held in the Main Conference Room in the Manassas Public Works Building, 8500 Pabic Works Drive, Manassas, Virginia. Members, prospective members and other interested persons are invited to attend without obligation. Local information can also be obtained through the OVH's FM repeaters on 146.970-, 224.660-, 442.200+ and 443.500+ MHz. The OVH's two D-Star repeaters on 146.865- and 442.5125+ MHz are temporarily off the air due to maintenance work beyond the OVH's control. Up to date information about OVH activities and its meetings is also available during the OVH's nets on its FM Repeater each Thursday night at 8:00 p.m. or on 80 meters (3710 KHz) LSB each Sunday night at 7:00 p.m. (8:00 pm in Summer) or through the OVH's web site at <http://w4ovh.net>

Articles and quotations in the OVH Times newsletter may be reprinted if credit is given to the OVH ARC and any other noted source. Proposed materials for publication including pictures, articles, letters to the editor, classified ads, notes about specific errors, complaints or the like are solicited from all readers. Forward such items to the OVH Times Newsletter Editor: PAUL@W4ZB.COM as soon as available at any time, but the cutoff deadline for the OVH Times each month (usually the second Monday of the month) may preclude publication/correction until the following month.

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of improving club equipment, i.e., repeater, or assisting each other with our shacks. We also made time to acknowledge those we've lost from within our ranks.

Looking ahead, the 2017 New Year is now just a relatively few days away and it's a good time to begin getting ready for an even more exciting year! Especially if Santa places a few Ham (not the meat) goodies under the tree. One positive sign of things getting off to a good start is that Andy / KJ4MTP has offered to take the reins from David / KG4GIY, and chair the GMU Mini-Tri. Thank you Andy and we'll help you with the transition; David, thank you for stepping up to the mission on short notice.

I've had discussions with other members who've provided ideas of what can be referred to as "progressive initiatives" for the New Year; read elsewhere in this newsletter.

I hope to see you at our next regular meeting on Monday evening, January 16, 2017 where if you haven't renewed your OVH membership for 2017 by then (including remitting your renewal dues), you'll be "gently" reminded and will be able to do so at that meeting. Also, a print out and mail-in OVH membership renewal form for 2017 appears later in this Newsletter; additionally, you can renew online, by going to the club web site at W4OVH.NET and then clicking on the "OVH Membership Application" tab for details about how to renew in that manner. Remember the Club needs you continuing support. Also, if you decide to serve your fellow members as an officer (elections of new officers will be in February) or want to vote at the meetings, you need to be a member in good standing. The January 16, 2017 regular meeting will be at the usual time 7:30 pm and at the usual place: Manassas Public Works, 8500 Public Works Drive, Manassas, Virginia.

Keep your thoughts and ideas coming to me at: N7QLK@ARRL.net.

73 Wayne N7QLK

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## Sunshine Corner:

Happy birthdays in December to David / KK4ZUU, Shannon / KK4NMR, David / KJ4EPF, Ed / KK4PHP, Ross / N4RP, Dianne / KI4FVV, Bill / N4SV, Mike / KI4SNE, Peter / KM4CJI, Alan / KD4KBX, Paul / KD8PQF, Byron / AK4XR, Charles / WA1FFX, and George / N4XSL. Enjoy your day!

Thanks to Mark WA4KFZ for wrapping up another great Technician Licensing Class. Good luck to the attendees who will take the exam on December 19th. And good luck to our VE (volunteer examiner) team which will holding that testing session for the attendees and the public on December 19th!

Please keep Terry / WA5NTI in your thoughts and prayers as he recovers from the effects of a stroke at a facility in Gainesville. Check for details about Terry on the OVH's email reflector.

We wrapped up our busy year (2016) with the very well attended OVH's Holiday Party on December 11th. That Party seems to get better each year. Thank

**Continued on page 4**

you very much for your generous donations to the Toys for Tots Campaign! A very special thank you to the Yorkshire Restaurant again for allowing us to use their space for our party, great food and a wonderful turn out for the evening!

Wishing you and yours a very happy Holiday season!

There will be no regular OVH meeting in December, but the regular meetings will resume in January. Remember to renew your OVH Membership for 2017. A renewal form appears later in this Newsletter and you can renew online too at the OVH's web site at W4OVH.NET and click on the "OVH Membership Application" tab there for more details.

Please try to check in to the Thursday night net. You will hear updates and information on events! How to do that is on the OVH web site at w4ovh.net. You will find us on the 146.970 and 443.500 FM repeaters at 8:00 pm every Thursday evening.

Please email me with your news! kg4tvm@hotmail.com See you all in the New Year!

73 Theresa KG4TVM

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## Minutes of the Ole Virginia Hams Amateur Radio Club Meeting November 21, 2016:

OVH club President, Wayne / N7QLK, called the meeting to order at 7:30 pm in the main conference room at the Manassas Public Works Building.

After the Pledge of Allegiance, all present stated their names and call signs. There were 33 OVH members and no guests this month.

### BUSINESS MEETING

Minutes from the October's meeting were sent out in the November newsletter. Motion to accept October's minutes, by AL / KB4BHB, Theresa KG4TV, seconded the motion; motion passed.

Repeaters- Terry KC4DV, mentioned that the antennas that had been ordered for Mount Pone were going to be delivered on Tuesday. These were the commercial grade antennas we got a great price on from Carolina Microwave.

Treasurer's report – Terry then gave the financial report. Motion to accept the financial report from Stu / W4PR, seconded by Sandy / KM4JUS; motion passed.

PRESENTATION: On the new fusion repeater by Ken KE2N. It was a great presentation with a lot of detailed and well organized information. Ken's powerpoint slides will be posted on the W4OVH.NET web site within the next few days.

Membership –There were no new member applications this month.

ARES: There was an upcoming HF exercise in combination with the Virginia defense force group.

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Training- The Technician Classes being put on by Mark / WA4KFZ have started and will end on December 12th to be followed by an VE session on December 19th for the class attendees. That VE session will also be open, on a space available basis, to prospective hams or hams who want to upgrade their licenses who were not in Mark's class. Contact Mark / WA4KFZ for more information or to make arrangements to attend.

Scholarship: The OVH received a letter from 2016 awardee who is at the University of Colorado in Boulder. More next month.

Hamfest –The next planning meeting is tentatively planned for December 7th. The place and any other changes will be announced over the OVH email reflector so keep checking you email.

Field Day: The next planning meeting for the 2017 Field Day event will be in January.

Mini-Try- We need someone to head up the Mini- Tri. David Lane stepped in when Clarence passed away but he is unable to continue heading it up.

Sunshine: Happy Birthday to Wayne / N7QLK, Butch / W4HJL and Theresa / KG4TVM. Theresa also wished our Veterans a late Happy Veteran's Day. Terry / WA5NTI is recovering from his stroke and is taking visitors. Don't forget the OVH's Year End / Holiday / Christmas Party at the Yorkshire Restaurant on Sunday evening, December 11th. Bring a dish to share and an unwrapped gift for "Toys for Tots". The Party will start at 6:00 pm.

Christmas Parade- The Manassas Christmas parade is on December 3. Watch the reflector to sign up or contact George / K4GVT for details. The Manassas Park Christmas parade is on December 10 and is using the same route as last year. Contact via email: manassasparkcert@gmail.com for more details or check the reflector.

Webpage: Paul / W4ZB reported, the web sites and pages are continuing to work.

JOTA: John / KG4NXT reported that the JOTA event did not seem to be as well organized as in the past but still was well supported by our club. Those helping out this year were John / KG4NXT, Theresa / KG4TVM, Al / KB4BHB, Wayne / N7QLK, Byron / AK4XR, Don / KM4HGR, Dave / AH6OD, and Duane / KK4BZ. Theresa brought the food; Duane was off site but was willing to QSO with the scouts. A lot of contacts were made using digital modes.

50-50: Ray / KM4EKR won the 50-50 drawing he donated his share which was \$9.00 back to the club.

New Business: Club recognition using name tags and polo shirts at events we participate in, was discussed. There will be more discussion at a future meeting.

Motion to adjourn by Theresa / KG4TVM, seconded by Sandy / KM4JUS; motion passed and the meeting was adjourned.

## Reminders about some upcoming events / calendar dates:

### SPECIAL HAM RADIO EVENTS:

The teaching sessions of the Technician Class Licensing course being taught by Mark / WA4KFZ have just been completed, but the special VEC Exam session for the attendees at the course (and others who can be fitted in) is still to be held on Monday evening, December 19, 2016 in Manassas. That VEC session is open to the public (i.e., individuals who did not attend the classes) for the Technician exam as well as all other amateur radio exams on a space available basis. Contact Mark directly at his email: [wa4kfz@cox.net](mailto:wa4kfz@cox.net) for more information.

Saturday, February 4, 2017, 8:30 am through afternoon, in Richmond, Virginia, the Frostfest - Hamfest. This has been the Mid-Atlantic's largest winter hamfest for many years and many OVH members drive down to Richmond to attend; if you haven't gone before, ask around and you can probably get a ride with someone. More info at <http://frostfest.com>

Sunday, March 19, 2017 beginning early morning - Winterfest, sponsored by Vienna Wireless, will be held again at the George Mason University campus in Annandale, Virginia. For more information and details, go to: <http://viennawireless.net/wp/events/winterfest> Please note that as of this writing, the "Flyer" on that web page is still for the 2016 Winterfest and has the 2016 date.

AMRAD meets monthly in McLean, Virginia - meetings usually consist of high level amateur radio related technical presentations on specific topics. Check the <http://amrad.org> web site for upcoming topics, and exact dates, times and places which have been changing around recently.

### HAM RADIO OPERATING CONTEST EVENTS:

Saturday, December 17, 2016. The RAC Canada Winter Contest. If you are looking to contact stations throughout Canada on SSB or CW, this upcoming HF contest should get your attention. More information at <http://wp.rac.ca/rac-canada-winter-contest-rules>

Saturday/ Sunday, December 17 and 18, 2016. The Stewart Perry 160 Meter Contest. This is one of several interesting contests on the 160 meter band each winter. Silent Key, Stew Perry (W1BB) was a big time promoter of the 160 meter band in the 1950's - 1970's from his QTH in Winthrop, Massachusetts, right off the end of the certain runways at Boston's Logan Airport. He was known as "Mr. 160 Meters." More info at <http://www.kkn.net/stew>

The ARRL has a Contest web page at its web site, but a much more comprehensive, up-to-date, and long range planning contesting calendar with links to the rules for the various events is maintained by WA7BNM at <http://www.hornucopia.com/contestcal> If you get the radio contesting bug or just want to find out what and how much is going on, that is a good place to look!

### PUBLIC SERVICE / ARES EVENTS

Always check the online Calendar by David / KG4GIY at <http://www.pwcares.org> for the latest updates. David maintains a comprehensive calendar for upcoming events at that web site. Complete direct contact information for David appears on page 2 of this Newsletter.

## From the President....

### A New Year's Resolution of OVH Activities?

As I hinted towards the end of year Holiday/Christmas Party, I've been giving some thought to activities the club might undertake to help recruit, entertain, exercise/expand knowledge, generate income, or just provide "variety".

Some possible examples (variations of each are welcomed):

<input type="checkbox"/>	Using a mathematically weighted model:	Hams by License Class
	No license = 1pt	Technician = 29
	Technician = 2pts	General = 29
	General = 3pts	Advanced = 8
	Advanced = 4pts	Extra = 48
	Extra = 5pts	Total Hams = 114
		No License = 1

Taking the total number of members in each category (from the current membership detail listings on our Members Only web page), we have a total score of 418 pts. A standing challenge will be to "upgrade our membership" as a whole. For example, how about raising this to 450 points by the end of 2017? This can be accomplished through license upgrades, membership increases or both.

- Speaking of membership increase, bring a new member into the club, and your membership dues for the year might be reimbursed?
- Foxhunt. As a club, or with invitation to other organizations to accompany. Maybe upon finding the fox, a post-hunt celebration with food and suds? This is a good way to develop some skills in direction-finding.
- Maker Faire. Though these events are happening regularly, as a hobby, we're deep into the very heart of what maker faire entails. There is an excellent article in January's QST magazine highlighting the Richmond Amateur Radio Club's (RARC) experience in this. And OVH has one good "insider" who can share knowledge—Ed Danis (KK4PHP).

These are just a few thoughts of activities, or variations of, that we might consider pursuing to broaden our horizons. Your thoughts and ideas are welcomed, QSL?

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### Some Possibly Useful or Interesting Information

1. The January 2017 issue of QST has an extended article ("Modulation-Demodulation Software Radio") about using SDR (software defined radio) radio techniques and related software together with more standard HF (high frequency) ham radio equipment for sophisticated signal analysis. Lots of references to other sources are given. Very interesting discussions of relatively new, advanced techniques for the more technically inclined. Who says ham radio is static or stagnant - articles like this used to only appear in QEX.

2. Daniel / EA4GPZ and M0HXM maintains a quite interesting web site (in perfect English) to document his experiments; he uses similar SDR and software techniques to those described in the current QST article. He has a recent series of posts about how he has been analyzing relatively broadband HF OTH (Over the Horizon) signals which sometimes intrude into the worldwide ham HF bands and cause interference. Again, a very interesting discussion for the more technically inclined.

3. Liest du deutsch? (Do you read German?) Your editor has a large collection (30+ years) of CQ-DLs (QST equivalents from the DARC - the German ARRL equivalent) and Funk Amateur (Radio Amateur) magazines, both excellent ham magazines. Some may be discarded soon if they can't find another (give away) home.

4. What is glider flying like? See, <https://www.youtube.com/watch?v=DjvIM35AIPU> This is a 20 min. GoPro video by a student pilot at the Skyline Soaring Club, Front Royal, Virginia Airport - showing preflight, pushback & setup for aerotow, aerotow, release at altitude, gliding about and the approach and landing. Enjoy!

## Brief Repeater Status / Progress Report from George / K4GVT

The 442.200 has been moved to the Mt. Pone site. We installed the new 442.200 antenna on the water tower. We canceled the proposed installation of the new 2M antenna due to mechanical issues. Arrangements have been made (thank you Terry KC4DV for arranging great pricing on all the antennas) for a replacement antenna. This machine is still a loner, will be replaced with the Yaseu C4FM system in the near future as we finalize the installation.

The 146.97 machine has been placed into the rack at Mount Pone, until the antenna is replaced, no further work needs to be done; once the new antenna is installed, we will readjust and optimize the duplexer.

I hope to have the new controller for the Mount Pone site interfaced and programmed before the New Year. This will allow us to link 2m and 440. However, the 220 will need the 5ghz link back in operation. Hopefully have the hardware together to do that by February.

The 443,500 adjustment to the squelch has improved the experience by silencing the squelch tail. Since the CTCSS is not active during the tail time we could hear the six digital repeaters at that site breaking squelch, this is no longer an issue. Another task is to remove the repeater hang time when linked to the 146.97 repeater, the hang time causes unnecessary delay in response.

The D-Star repeaters have been relocated to the NOVEC site on Lomond Drive, we hope to have them operational in the next few weeks.

There are other tasks to be done too, however, they need to wait until we complete the above. I'll have an updated report at the January, 2017 OVH meeting, possibly sooner on the OVH email reflector. A lot of work goes into these activities - thanks to all of the dedicated OVH members who actively assist!

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### Using a Bucket Lift Truck for Antenna Work?

During a Thanksgiving visit near Hegins, Pennsylvania, OVH member, Fred / N3KVV demonstrated how to use a bucket truck for antenna work. Fred's wife, Deb, insisted he got the bucket truck for use in an orchard, not for ham radio purposes - at least that's the story and he's sticking to it. Pictures should be self-explanatory.



The truck's bucket arm is not fully extended in these pictures. Fred is still getting used to using the bucket truck; careful balance must be maintained when the arm is extended to avoid toppling over. He says he might bring the truck down to Virginia for local antenna work if there is enough interest.



# A Few Images: The City of Manassas Christmas Parade on Saturday - December 3, 2016

The OVH again provided communications support for this annual City of Manassas event.

From images posted at <http://k4gvt.com/Manassas%20Christmas%20Parade%202016>

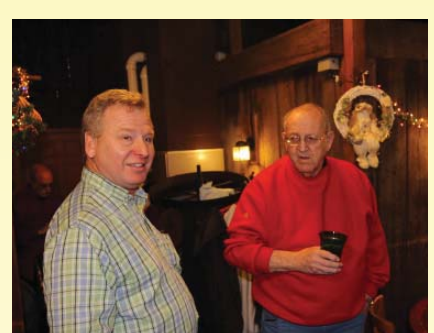


# A Few Images from the OVH's Year End / Holiday / Christmas Party - December 11, 2016

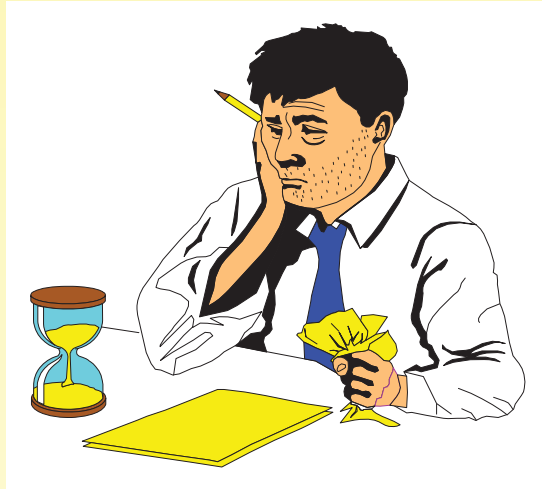
From images posted at <http://k4gvt.com/ovh/christmasparty2016>



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# REMINDER



Yes, it is that time of year again!!!! Below is the 2017 Renewal Application.

Please fill out the form below (for database), attach your check and mail to the address below or drop off at a meeting. Be sure to update all information, including your e-mail address, telephone number(s) and nine digit ZIP

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## MEMBERSHIP RENEWAL APPLICATION "OLE VIRGINIA HAMS AMATEUR RADIO CLUB" for 2017

NAME: \_\_\_\_\_ CALL SIGN: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ Home Tel: \_\_\_\_\_  
\_\_\_\_\_ Cell Tel: \_\_\_\_\_  
Work Tel: \_\_\_\_\_  
EMAIL: \_\_\_\_\_  
BIRTHDAY: \_\_\_\_\_

ARE YOU PRESENTLY AN ARRL MEMBER? (YES/NO)  
ARE YOU A VOLUNTEER EXAMINER: (YES/NO)  
MAY YOUR TELEPHONE NOS. BE LISTED IN THE "Members Only" OVH ROSTER? (YES/NO)  
WHAT IS YOUR PRESENT LICENSE CLASS? \_\_\_\_\_

Dues are now **\$20.00** per year and payable on January 1, 2017. Dues for each additional family member living at the same mailing address are \$10.00. Dues for a full time student at the college undergraduate or lower level [ list school attended and grade or level:  
\_\_\_\_\_ ] are \$10.00.

NAME AND CALL OF FAMILY MEMBERS: AMOUNT ENCLOSING: \_\_\_\_\_  
Name: \_\_\_\_\_ Call: \_\_\_\_\_  
Name: \_\_\_\_\_ Call: \_\_\_\_\_

Return to: **Treasurer, OVH**  
**P.O. Box 1255**  
**Manassas, VA 20108-1255**

NORTHERN VIRGINIA'S LARGEST

# Manassas Hamfest

**OUR  
43<sup>RD</sup>  
YEAR**

## AMATEUR RADIO & MAKER TECHNOLOGY SHOW

An ARRL-Approved HAMFEST Presented By:

**The OLE VIRGINIA HAMS Amateur Radio Club, Inc.**

( Featuring Youth Lounge Activities for the Youngsters Attending! )



# Sunday, June 4, 2017

## Prince William County Fairgrounds

Large Outdoor and Covered Pavillion flea market areas, two indoor air-conditioned buildings, several covered buildings and ample parking

10624 Dumfries Road - Route 234 - Manassas, Virginia -- Talk-In Repeaters on 146.97- and 442.200+

### INDOOR EXHIBITOR SPACE

**8-foot tables: \$30\* each**  
with chairs & electricity  
**(\$25 if reserved by May 1st)**  
*Setup 2-10 PM Saturday*

### GENERAL ADMISSION

**\$10\* per person at gate**  
(Age 18 and younger: no charge)  
(\*See web sites for prepayment discounts before 5/15/2017 )  
Gates open at 7 AM

### TAILGATING (admission is extra)

**Outdoor Spaces: \$10\* per space**  
**Covered Pavillion: \$15 per space**  
(\*See web sites for details about online prepayment discounts before 5/15/2017)  
Gates open at 6 AM

\* Online ticket sales and vendor registration at <http://manassashamfest.org>

For our Most Current Vendor Info, Lists and Ticket Sales Visit our Web Pages:

<http://manassashamfest.org> and <http://w4ovh.net>

### PRIZES

- Door prizes hourly 9 AM to 1 PM (be present to win)
- Major & Tailgate prizes awarded at 2 PM

### INFORMATION

- ARRL Roanoke Division Officers attending
- Virginia Section Manager Forum & other Forums
- 4th Call Area QSL Bureau Representatives
- DXCC QSL Card Checking will be available
- Virginia QSO Party Awards Ceremony
- Check our web pages (below) for the most up-to-date information

### ACTIVITIES

- Flea Market & Vendors - all day
- VEC License Exams: 8:00 AM - 10:30 AM
- "Maker" group technology demonstrations
- ARRL style Youth Lounge programs all day for youngsters - by the OVHARC and 4-H
- Maker Robotics Corral and Demos
- Amateur Radio Satellite Forum
- BroadBand Ham Networks ("BBHN") Forum
- Virginia QSO Party Awards and Forum
- More Forums to be announced, check web sites

<http://manassashamfest.org> and <http://w4ovh.net>

**Dealer Info** from George / K4GVT: [vendors@manassashamfest.org](mailto:vendors@manassashamfest.org)  
**General Info** from Terry / KC4DV: [chairman@manassashamfest.org](mailto:chairman@manassashamfest.org)  
**VE Testing / Exam Information:** [vetesting@manassashamfest.org](mailto:vetesting@manassashamfest.org)